



## **MED**

(2014 - 2020)

## **Application Form**

AF\_Strat\_1

Priority axis-Investment Priority-Specific Objective 4-1-1

Priority Axis 4: Enhancing Mediterranean Governance

PI 11c

4.1: To support the process of strengthening and developing multilateral coordination frameworks in the Mediterranean for joint responses to common challenges

## **SHAREMED**

Sharing and enhancing capabilities to address environmental threats in Mediterranean sea

## **Submitted version**

MED Contact

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## PART A - Project summary

### A.1 Project identification

Acronym		SHAREMED	
Project title		Sharing and enhancing capabilities to address environmental threats in Mediterranean sea	
Name of the Lead Partner organisation		OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	
Project Nb		6184	
Duration of the project	Starting date	2019-10-01	Number of months
	Ending date	2022-06-30	33
Programme priority axis		Priority Axis 4: Enhancing Mediterranean Governance	
Programme specific objective		4.1: To support the process of strengthening and developing multilateral coordination frameworks in the Mediterranean for joint responses to common challenges	
Call for projects		6th call	
Type of project		Strategic	
Internal ref number		6MED19_4.1_SP_006	

### A.2. Project short description

The need to assess and address the increasing presence of coexisting environmental threats, that propagate in space and time also across political boundaries, calls for a transactional coordinated actions based on evidence-rooted common understanding.

SHAREMED will:

- engage stakeholders and authorities, and jointly define state-of-the-art and regional strategies;
- collate and harmonise existing info, data and knowledge and contribute to joint production of a database of coherent data;
- define common procedures and jointly produce atlas of state and hazard maps;
- integrate existing observing infrastructures in a common transnational system of systems and jointly disseminate observations through common portals;
- enhance forecast capabilities through development and implementation of coastal high resolution transnational systems;
- explore potential of new observing methodologies;
- define roadmaps, guidelines, action plans.

The actions above will:

- increase capability of authorities and scientific community to observe, assess and address environmental threats;
- increase coherence and efficacy of assessments;
- favour access and use of existing information and project joint products.

The project will capitalise on knowledge provided by previous projects and existing EU infrastructures, and will contribute to

the definition of long term strategies and action plans for assessing and addressing environmental threats in the Mediterranean.

### A.3. Project budget summary

Programme co-financing			CONTRIBUTION					TOTAL ELIGIBLE BUDGET
Co-financing source	Amount	Co-financing rate	Public contribution			Private contribution	Total contribution	
			Own public contribution	Other public contribution	Total public contribution			
ERDF	2,575,500.00 €	85.00 %	316,500.00 €	138,000.00 €	454,500.00 €	0.00 €	454,500.00 €	3,030,000.00 €
IPA Funding	59,500.00 €	85.00 %	10,500.00 €	0.00 €	10,500.00 €	0.00 €	10,500.00 €	70,000.00 €
<b>Total EU funds</b>	<b>2,635,000.00 €</b>	<b>85.00 %</b>	<b>327,000.00 €</b>	<b>138,000.00 €</b>	<b>465,000.00 €</b>	<b>0.00 €</b>	<b>465,000.00 €</b>	<b>3,100,000.00 €</b>
<b>Total</b>	<b>2,635,000.00 €</b>	<b>85.00 %</b>	<b>327,000.00 €</b>	<b>138,000.00 €</b>	<b>465,000.00 €</b>	<b>0.00 €</b>	<b>465,000.00 €</b>	<b>3,100,000.00 €</b>

### A.4. Project partners overview

Partner number	Name of the partner	Abbreviation of the organisation	Country/NUTS2	Eligibility zone	Fund	Partner total eligible budget	Responsibilities	Partner status
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LP1	OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	OGS	ITALY / Friuli-Venezia Giulia	MED Partner	ERDF	600,000.00 €	Preparing and submitting a project proposal Coordination of the project Day-to-day project management, and administrative and financial coordination Monitoring activity and evaluation of the project Developing a relocatable high resolution short-term forecasting system for the marine environment Background information and identification of regional strategies for each case study site Thematic Actions Transfer of the relocatable short term forecasting system to other study sites Implementation of a cooperation framework to share data and information Production of the Atlas of ecosystem status, pressures
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PP1	Valenciaport Foundation for Research, Promotion and Commercial Studies of the Valencian region	VALENCIAPORT FOUNDATION	SPAIN / Comunidad Valenciana	MED Partner	ERDF	120,000.00 €	and environmental hazard index Actual implementation of trans-national short-term forecasting systems	Active
PP2	National Institute of Biology	NIB	SLOVENIA / Zahodna Slovenija	MED Partner	ERDF	330,000.00 €	Enhance and expand monitoring capabilities of biological properties Testing of and assessing potentiality and RTL of new technologies studied WP3	Active
PP3	University of Montenegro - Institute for marine biology	UOM	MONTENEGRO / Црна Гора (Crna Gora)	IPA Partner	IPA Funding	70,000.00 €	Organization of national training events and international workshops	Active
PP4	CSIC - Institute of Marine Sciences	CSIC	SPAIN / Cataluña	MED Partner	ERDF	380,000.00 €	Trans-national On-Demand Actions	Active
PP5	AIX-MARSEILLE UNIVERSITY	AMU	FRANCE / Provence-Alpes-Côte d'Azur	MED Partner	ERDF	505,000.00 €	Integration, consolidation and improvement of joint observation capabilities	Active



PP6	University of Malta	UoM	MALTA / Malta	MED Partner	ERDF	470,000.00 €	Enhance and expand monitoring capabilities of physical properties Capitalisation Group	Active
PP7	INTERMODAL TRANSPORT CLUSTER	KIP	CROATIA / Jadranska Hrvatska	MED Partner	ERDF	150,000.00 €	Coordinating the WP and setting up of common methodology Delivering information Contribution to Programme communication Exchanging information Transferring of knowledge Collaborative network Coordination with MED projects	Active
PP8	Portuguese Institute of Sea and Atmosphere, I. P.	IPMA	PORTUGAL / Área Metropolitana de Lisboa	MED Partner	ERDF	155,000.00 €	First school on "Addressing and assessing pollution and environmental threats in Mediterranean"	Active

PP9	LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography	Consorzio LaMMA	ITALY / Toscana	MED Partner	ERDF	320,000.00 €	Enhance and expand capabilities to use satellite observations Connectivity and pollutant transport	Active
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## A.5 Project statistic information

	<b>KEEP key words (only 3 choices as maximum)</b>	<b>Kind of innovation</b>	<b>Kind of area</b>
Type of synergies	Coastal management and maritime issues Gouvernance, partnership Sustainable management of natural resources	Process Organisational	Coastal areas Marine areas

## PART B - Project partners

### B.1. Project partners

Partner number	Profile	Status
LP1	Chef de file	Active
Identification number of the organisation		2576
Name of the partner		OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)
Abbreviation of the organisation		OGS
Main adress		Borgo Grotta Gigante 42/C 34010 Sgonico (trieste)
Service		
Adress of the service		
NUTS3		Trieste
NUTS2		Friuli-Venezia Giulia
Country		ITALY
Eligibility zone		MED Partner
Outside of the programme area		No
Category		Local Public authority
Type of administrative code		Fiscal code
National identifying number		00055590327
Is your organisation entitled to recover VAT?	No	
Legal status		Public
Role of the partner in the project		Operational
2007–2013 programming period participation		No
Total staff of the partner structure		200 to 499

Partner number	Profile	Status
PP1	Partenaire	Active
Identification number of the organisation		2624
Name of the partner		Valenciaport Foundation for Research, Promotion and Commercial Studies of the Valencian region
Abbreviation of the organisation		VALENCIAPORT FOUNDATION
Main adress		Nueva Sede APV, Avda. Muelle del Turia s/n10 46024 Valencia
Service		N/A

Adress of the service		
NUTS3		Valencia / València
NUTS2		Comunidad Valenciana
Country		SPAIN
Eligibility zone		MED Partner
Outside of the programme area		No
Category		Higher education and research
Type of administrative code		Tax Identification Number (TIN)
National identifying number		ESG97360325
Is your organisation entitled to recover VAT?	Partially	VPF is involved in serveral types of activites. Among them &ldquo;training&rdquo; and &ldquo;I+D+I&rdquo; activities which are not considered as comercial activities and for which VPF is not revocering VAT
Legal status		Public
Role of the partner in the project		Institutional
2007–2013 programming period participation		No
Total staff of the partner structure		20 to 49

Partner number	Profile	Status
PP2	Partenaire	Active
Identification number of the organisation		1892
Name of the partner		National Institute of Biology
Abbreviation of the organisation		NIB
Main adress		Večna pot 111, 1000 Ljubljana
Service		Marine Biology Station Piran
Adress of the service		Fornače 41 6330 Piran
NUTS3		Obalno-kraška
NUTS2		Zahodna Slovenija
Country		SLOVENIA
Eligibility zone		MED Partner
Outside of the programme area		No
Category		Higher education and research
Type of administrative code		VAT identification number
National identifying number		SI83534784
Is your organisation entitled to recover VAT?	No	

Legal status	Public
Role of the partner in the project	Institutional
2007–2013 programming period participation	No
Total staff of the partner structure	

Partner number	Profile	Status
PP3	Partenaire	Active
Identification number of the organisation	2688	
Name of the partner	University of Montenegro - Institute for marine biology	
Abbreviation of the organisation	UOM	
Main adress	Cetinjska br. 2 81000 Podgorica	
Service	Institute of Marine Biology	
Adress of the service		
NUTS3	Црна Гора (Crna Gora)	
NUTS2	Црна Гора (Crna Gora)	
Country	MONTENEGRO	
Eligibility zone	IPA Partner	
Outside of the programme area	No	
Category	Higher education and research	
Type of administrative code	Tax Identification Number	
National identifying number	02016702	
Is your organisation entitled to recover VAT?	Yes	
Legal status	Public	
Role of the partner in the project	Institutional	
2007–2013 programming period participation	No	
Total staff of the partner structure	20 to 49	

Partner number	Profile	Status
PP4	Partenaire	Active
Identification number of the organisation	1889	
Name of the partner	CSIC - Institute of Marine Sciences	
Abbreviation of the organisation	CSIC	
Main adress	Passeig Marítim de la Barceloneta 37-49, 08003 Barcelona	
Service		

Adress of the service		
NUTS3		Barcelona
NUTS2		Cataluña
Country		SPAIN
Eligibility zone		MED Partner
Outside of the programme area		No
Category		Higher education and research
Type of administrative code		Tax Identification Number (TIN)
National identifying number		ESQ2818002D
Is your organisation entitled to recover VAT?	Partially	We are a Public institution. The recovery amount is annually revised by the Spanish Financial Ministry (Ministerio de Hacienda y Administraciones Públicas: Regla de la Prorrata establecida en la Ley 37/1992 de 28 de diciembre del Impuesto sobre el Valor Añadido).
Legal status		Public
Role of the partner in the project		Institutional
2007–2013 programming period participation		Yes
Total staff of the partner structure		200 to 499

Partner number	Profile	Status
PP5	Partenaire	Active
Identification number of the organisation		1854
Name of the partner		AIX-MARSEILLE UNIVERSITY
Abbreviation of the organisation		AMU
Main adress		58, Boulevard Charles livon – Jardin du Pharo 13284 Marseille
Service		MEDITERRANEAN INSTITUTE OF OCEANOGRAPHY - MIO
Adress of the service		
NUTS3		Bouches-du-Rhône
NUTS2		Provence-Alpes-Côte d'Azur
Country		FRANCE
Eligibility zone		MED Partner
Outside of the programme area		No
Category		Higher education and research
Type of administrative code		Business/Institutions repertoire identification system
National identifying number		13001533200013
Is your organisation entitled to recover VAT?	Yes	

Legal status	Public
Role of the partner in the project	Institutional
2007–2013 programming period participation	No
Total staff of the partner structure	200 to 499

Partner number	Profile	Status
PP6	Partenaire	Active
Identification number of the organisation	2121	
Name of the partner	University of Malta	
Abbreviation of the organisation	UoM	
Main adress	Physical Oceanography Research Group, Room 315, Chemistry Building 3rd Floor MSD 2080 Msida	
Service		
Adress of the service		
NUTS3	Malta	
NUTS2	Malta	
Country	MALTA	
Eligibility zone	MED Partner	
Outside of the programme area	No	
Category	Higher education and research	
Type of administrative code	[en] N° gestion interne	
National identifying number	MT002/27	
Is your organisation entitled to recover VAT?	No	
Legal status	Public	
Role of the partner in the project	Institutional	
2007–2013 programming period participation	No	
Total staff of the partner structure	500 and more	

Partner number	Profile	Status
PP7	Partenaire	Active
Identification number of the organisation	1851	
Name of the partner	INTERMODAL TRANSPORT CLUSTER	
Abbreviation of the organisation	KIP	
Main adress	TRPIMIROVA 2 51000 RIJEKA	
Service		



Adress of the service		
NUTS3		Primorsko-goranska županija
NUTS2		Jadranska Hrvatska
Country		CROATIA
Eligibility zone		MED Partner
Outside of the programme area		No
Category		Interest groups including NGOs
Type of administrative code		Personal Identification Number (PIN)
National identifying number		HR35681319871
Is your organisation entitled to recover VAT?	No	
Legal status		Public
Role of the partner in the project		Institutional
2007–2013 programming period participation		No
Total staff of the partner structure		

Partner number	Profile	Status
PP8	Partenaire	Active
Identification number of the organisation		3632
Name of the partner		Portuguese Institute of Sea and Atmosphere, I. P.
Abbreviation of the organisation		IPMA
Main adress		Rua C ao Aeroporto, 1749-077 Lisboa, Portugal 1749-077 Lisboa
Service		Département des Ressources Marines
Adress of the service		Av. Alfredo Magalhães Ramalho 6 1495-165 Algés
NUTS3		Área Metropolitana de Lisboa
NUTS2		Área Metropolitana de Lisboa
Country		PORTUGAL
Eligibility zone		MED Partner
Outside of the programme area		No
Category		National Public authority
Type of administrative code		Tax identification number
National identifying number		510265600
Is your organisation entitled to recover VAT?	Partially	IPMA has a pro rata of 8% as it can partially recover VAT.
Legal status		Public
Role of the partner in the project		

2007–2013 programming period participation		No
Total staff of the partner structure		

Partner number	Profile	Status
PP9	Partenaire	Active
Identification number of the organisation		10360
Name of the partner		LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography
Abbreviation of the organisation		Consorzio LaMMA
Main adress		Via Madonna del Piano n.10, 50019 Sesto Fiorentino
Service		
Adress of the service		
NUTS3		Firenze
NUTS2		Toscana
Country		ITALY
Eligibility zone		MED Partner
Outside of the programme area		No
Category		Higher education and research
Type of administrative code		Fiscal code
National identifying number		94152640481
Is your organisation entitled to recover VAT?	No	
Legal status		Public
Role of the partner in the project		Institutional
2007–2013 programming period participation		No
Total staff of the partner structure		50 to 99

### B.1.1. Additional partner's information

	Name of partner in original language	If the partner is public	Partner structure annual total budget (in €)	Budget dedicated to EU programmes by the partner structure (in €)	Total staff of the partner structure (full time equivalent)	Staff dedicated to EU programmes (full time equivalent)
OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	Istituto Nazionale di Oceanografia e di Geofisica Sperimentale - OGS	Public	more than 10.000.001 €	1677006.49	251 to 500	30

Valenciaport Foundation for Research, Promotion and Commercial Studies of the Valencian region	Fundación de la Comunidad Valenciana para la Investigación, Promoción y Estudios Comerciales de Valenciaport	equivalent public	3.000.000 to 10.000.000 €		11 to 50	
National Institute of Biology	Nacionalni inštitut za Biologijo	Public	3.000.000 to 10.000.000 €	886.966,00	51 to 250	14
University of Montenegro - Institute for marine biology	Institut za biologiju mora- Univerzitet Crne Gore	Public	500.001 to 1.000.000 €	1.250.000,00	11 to 50	2
CSIC - Institute of Marine Sciences	Agencia Estatal Consejo Superior de Investigaciones Científicas	Public	3.000.000 to 10.000.000 €	254,000	251 to 500	100
AIX-MARSEILLE UNIVERSITY	Aix-Marseille Université	Public	3.000.000 to 10.000.000 €		251 to 500	
University of Malta	L-Universita ta' Malta	Public	more than 10.000.001 €	6,857,402	more than 1.001	127
INTERMODAL TRANSPORT CLUSTER	KLASTER INTERMODALNOG PRIJEVOZA	Public	500.001 to 1.000.000 €		10 or less	3
Portuguese Institute of Sea and Atmosphere, I. P.	Instituto Português do Mar e da Atmosfera, I. P.	equivalent public	more than 10.000.001 €	100000	51 to 250	
LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography	Consorzio LaMMA - Laboratorio di Monitoraggio e Modellistica Ambientale per lo sviluppo sostenibile	Public	3.000.000 to 10.000.000 €	500.000	51 to 250	15

### B.1.2. In the case of partners from outside the programme area

	Partners from outside the programme area	Which is the added value of the inclusion of this partner from outside of the programme area in the partnership?	Please confirm that the partner is aware about the requirements of the First Level Control in its country of origin and the feasibility of their application for the MED area.

### B.1.3. Contacts

OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)

Legal representative	Maria Cristina Pedicchio Borgo Grotta Gigante 42/C 34010 Sgonico (trieste) Friuli-Venezia Giulia Trieste ITALY mcpedicchio@ogs.trieste.it
Contact person	Cosimo SOLIDORO Borgo Grotta Gigante 42/C 34010 Sgonico Friuli-Venezia Giulia Trieste ITALY csolidoro@inogs.it

## Valenciaport Foundation for Research, Promotion and Commercial Studies of the Valencian region

Legal representative	Antonio Torregrosa Maicas Av. Muelle del Turia, s/n 46024 Valencia Comunidad Valenciana Valencia / València SPAIN atorregrosa@fundacion.valenciaport.com +34 96 393 94 00
Contact person	Pablo Palomo Torralva Nueva Sede APV, Avda. Muelle del Turia s/n10 46024 Valencia Comunidad Valenciana Valencia / València SPAIN ppalomo@fundacion.valenciaport.com +34 96 393 94 00

## National Institute of Biology

Legal representative	Matjaž Kuntner Večna pot 111 1000 Ljubljana Zahodna Slovenija Osrednjeslovenska SLOVENIA matjaz.kuntner@nib.si
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Contact person	<p>Borut Mavric  Fornače 41  6330  Piran  Zahodna Slovenija  Osrednjeslovenska  SLOVENIA  borut.mavric@nib.si  0038659232936</p>
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## University of Montenegro - Institute for marine biology

Legal representative	<p>Danilo Nikolić  Cetinjska br. 2  81000  Podgorica  Црна Гора (Crna Gora)  Црна Гора (Crna Gora)  MONTENEGRO  rektor@ucg.ac.me  +38232334569</p>
Contact person	<p>Slavina Petović  Cetinjska br. 2  81000  Podgorica  Црна Гора (Crna Gora)  Црна Гора (Crna Gora)  MONTENEGRO  kascelanslavica@gmail.com  +38263204926</p>

## CSIC - Institute of Marine Sciences

Legal representative	<p>Jesús Marco de Lucas  C/ Serrano, 117  28006  Madrid  Comunidad de Madrid  Madrid  SPAIN  vicyt@csic.es  +34915681685</p>
Contact person	<p>Xavier Garcia  Passeig Marítim de la Barceloneta 37-49,  08003  Barcelona  Cataluña  Barcelona  SPAIN  xgarcia@icm.csic.es  +34 932 309 500</p>

## AIX-MARSEILLE UNIVERSITY

Legal representative	Yvon Berland 58 boulevard Charles Livon Jardin du Pharo 13284 Marseille Provence-Alpes-Côte d'Azur Bouches-du-Rhône FRANCE presidence@univ-amu.fr
Contact person	Richard Sempéré 163 avenue de Luminy, Campus de Luminy - Case 901 13284 Marseille Provence-Alpes-Côte d'Azur Bouches-du-Rhône FRANCE richard.sempere@mio.osupytheas.fr +334-86-09-05-88

## University of Malta

Legal representative	Alfred J Vella University of Malta, Msida MSD2080 MSD Msida Malta Gozo and Comino / Ghawdex u Kemmuna MALTA rector@um.edu.mt +356 23402340, +356 21333907
Contact person	Aldo Drago Msida 2080 Malta Malta MALTA aldo.drago@um.edu.mt 00356 21440972

## INTERMODAL TRANSPORT CLUSTER

Legal representative	Marijan Cukrov Trpimirova 2 51000 Rijeka Jadranska Hrvatska Primorsko-goranska županija CROATIA cukrov@shortsea.hr 0038551344252
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Contact person	MARTINA ANTUNOVIĆ TRPIMIROVA 2 51000 RIJEKA Jadranska Hrvatska Primorsko-goranska županija CROATIA antunovic@shortsea.hr 00385 51 344 252
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Portuguese Institute of Sea and Atmosphere, I. P.

Legal representative	Miguel Miranda Rua C ao Aeroporto, 1749-077 Lisboa Área Metropolitana de Lisboa Área Metropolitana de Lisboa PORTUGAL miguel.miranda@ipma.pt +351213027060
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LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography

Legal representative	Bernardo Gozzini Via Madonna del Piano n.10, 50019 Sesto Fiorentino Toscana Firenze ITALY gozzini@lamma.rete.toscana.it 39 055 4483011
Contact person	Carlo Brandini Via Madonna del Piano n.10, 50019 Sesto Fiorentino Toscana Firenze ITALY brandini@lamma.rete.toscana.it 39 055 4483052

#### B.1.4. Former experience

	Is the partner going to participate in another proposal submitted in the present call for proposals?	Name (acronym) of the proposals	Which are the organisation's thematic competences and experiences relevant for the project?	Comment on by organisation's thematic competences and experiences	Role of the partner in the project	What is the benefit for the organisation from participating in the project?
OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	NO			OGS operates in fields related to Earth Sciences, Geophysics, Oceanography, Marine, Maritime and Inland Waters, Seismology and Infrastructures to contribute to the environmental protection, sustainable economic development and societal inclusion through tailored made initiatives in order to evaluate and prevent geological, environmental and climatic risks, with the aim of spreading scientific culture and knowledge, building capacities and transferring knowledge. OGS manages important multidisciplinary research infrastructures to boost cooperation and mobility of people and ideas. Moreover, the Institute is involved in geophysical investigations, as well as oceanographic projects, climate studies, secure energy in various parts of the world.	institutional	OGS is characterized by multidisciplinary skill. In particular, the activities of the oceanography department range from scientific research to technological development and are addressed to experimental and theoretical oceanography, with particular reference to physical and biological oceanography, biogeochemistry, marine ecology, data bank management and modeling of marine systems. OGS have been involved in studying, monitoring, conservation, and management of marine resources. These competences together with experience of managing and participation to several international projects and attendance in international networks can will be important for the action included in the project.



Valenciaport Foundation for Research, Promotion and Commercial Studies of the Valencian region	YES	OSMOSIS	Study	Valenciaport Foundation has a high expertise in environmental procedures, training, port operations, maritime surveillance, having developed tools, methodologies, analyses and studies in different national and EU projects as well as consultancy services. It works closely with Port Authority of Valencia and know the gaps on port environmental aspects and in safety and security governance between the different administrations working on this issues at strategic, operational and technological levels.	institutional	Valenciaport Foundation has a great interest in Maritime Surveillance and in Environmental aspects, as these are one of the main concerns both of the Port Authority, the main trustee of Valenciaport Foundation. In fact, Valenciaport Foundation has been very active in environment projects in the recent years since they have participated in many EU projects such as CO-EVOLVE, CO-EFFICIENT, SEA TERMINALS, BUNKER LOGIX, GAINN4MOS, GREENCRANES, SUSPORTS in H2020 and CEF European programs.
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National Institute of Biology	YES	OSMOSIS		Marine Biology Station Piran (MBP) is a part of a National Institute of Biology, the leading Life Sciences institute in Slovenia. MBS is a part of different observational networks (EuroGOOS, MonGOOS, EmodNET) and NODC for marine data. Together with the National Environmental Agency, we provide data and share knowledge and experience on physical, chemical and biological oceanographic observations, providing actual and modeled data for coastal and marine waters. MBP is a national driving agent for the BlueMed strategy and is active in gathering relevant national stakeholders from various ministries in setting up the working platforms that fit the BlueMed challenges. MBP is involved in national implementation of WFD and MSFD Directives	institutional	Within this project we will have the possibility to strengthen our position as relevant expert in marine environmental issues by (1) accessing good practices in data gathering, analysis and modeling available from partners in MED region, (2) improving own observing and assessing capabilities of marine ecosystem (remote sensing techniques such as satellite image analyses, advanced molecular techniques as environmental DNA) and (3) intensifying our cooperation with local and national marine organisations and authorities.
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University of Montenegro - Institute for marine biology	NO			Core competencies of UOM - IMB lie in the comprehensive research of the marine and coastal area, which has its wide impact to the environmental protection and prevention of those areas. Institute has strong links with local and national community, through commitment to raising awareness on marine science. Areas of interest: biological, ecological, taxonomic and hydrographical research of the marine life; taxonomic identification of phyto and zoobenthos, phyto and zooplankton; mapping of marine habitats; study of rare, threaten and invasive species; eutrophication; impact of the pollution; population dynamics and suggestions for rational exploitation; oceanographic research; preservation and advancement of the environment.	institutional	The benefit of this project for UOM-IMB is multiple. It will create links between transnational organisations and ease-out communication and community building, which will provide experience and knowledge sharing. This project will provide opportunity for acquiring new and improving existing skills, techniques and knowledge. It will improve data quality while removing possibility for errors.
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CSIC - Institute of Marine Sciences	YES	OSMOSIS	Study	CSIC encompasses 5 centers devoted to marine sciences being in charge of various singular facilities related to the marine environment (e.g. oceanographic R/V, polar bases and ocean observation platforms). The ICM-CSIC has a continuous participation in national, regional and international projects contributing and using databases to advise the Spanish, Catalan, European and International entities (e.g. Water Framework Directive, DG MARE, IOC-UNESCO) and stakeholders on marine environment and emergency issues. Specifically, ICM addresses coastal evolution and water quality, natural risks, fisheries, ocean-atmosphere interactions, climate change, garbage and marine pollutants	institutional	This project will provide a unique opportunity to consolidate and capitalize developments done on the frame of previous and current EU and National projects, as well as data acquired by stakeholders specifically related to marine hazards related to pollution and other environmental threats in recent years and with a perspective of climate change. Past projects focused on data acquisition in specific locations, but the present proposal will provide a common framework and tools of existing data, knowledge and technologies to assess and mitigate environmental risks. ICM-CSIC will undoubtedly benefit from this framework but will also establish new links to research bodies and national and regional agencies, working on the same subjects.
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AIX-MARSEILLE UNIVERSITY	NO			<p>MIO is a leading Oceanographic Lab whose contribution has recently been rewarded by the Shanghai ranking office (World rank 28 in Natural Sciences/Oceanography). MIO and its staff of 250 members constitutes a center of expertise in marine biology, ecology, biodiversity, microbiology, halieutics, physics, chemistry, biogeochemistry and sedimentology. MIO is involved in all the Oceans including Small Island States and their marine regions. In the Mediterranean area, MIO is leading the MOOSE project (part of MISTRALS international project), and the regional SOMLIT project, whose objectives are to detect and identify long-term environmental anomalies in the NWMed and anthropogenic and climate-driven changes in the French coastal marine systems.</p>	institutional	<p>AMU-MIO is strongly involved in the study of Mediterranean Sea response to global change. Several AMU-MIO researchers have been working for long time on different UE projects including PERSEUS, JERICHO, JERICHO NEXT, JPI Ocean (microplastic) among others. Then, this project is consistent with previous experience developed by AMU and contribute to a global implication of AMU in Med Sea studies. This project may reinforce the implication of AMU in the Euro-Mediterranean Universities Network TETHYS.</p>
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University of Malta	NO		Capitalisation	<p>The Physical Oceanography Research Group (PO-Res.Grp) has a long track record of participation in joint collaborative projects in some cases as lead partner. Strong links exist with both local and regional stakeholders. It is also a partner in several EU and Mediterranean networks including MonGOOS and MedGLOSS. The coordinator of the Group is engaged in the setting up of the marine modelling and forecasting system for the Maltese Islands. Links and roles such as in BlueMed, Copernicus, MED7 cover different aspects relevant to this project, especially to capitalise on existing efforts to address environmental risks through synergies and effective integration of resources and experiences.</p>	institutional	<p>A key endeavour of the PO Res. Grp. comprises assistance offered to local entities through the delivery of oceanographic data, services and studies. These services avail of local data acquisition platforms, specialised data management and processing protocols, and numerical modelling systems that are essential for operational round the clock deliverables; such services also rely on data streams deriving from regional and international cooperative ventures in which the PO Res. Grp. is a partner. Projects like SHAREMED serve to consolidate this role and put in further evidence our role as an applied research entity in marine science with a focus on operational oceanography.</p>
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INTERMODAL TRANSPORT CLUSTER	NO		Communication	KIP have a vast knowledge and experience in EU funded projects. At the moment, KIP is LP on two projects, and WP leader on 5 other projects. In 3 projects KIP is a Communication manager. Beside communication, KIP is also working as a Thematic work package leader and is competent in methodological approach and data research and analysis. KIP have a lot of stakeholders, mostly in form of different Port Authorities that are part of the Cluster.	institutional	Cluster has 3 basic activities: promotion of intermodality, R&D projects and informatisation of intermodal transport service. Its members are all maritime port authorities, operators, Croatian railways, bigger agents and transporters as well as other interested organizations. KIP aims to increase participation of intermodal transport in the Croatian transport system and provides information and help with EU project preparation to transport stakeholders. The Cluster and its connection with main intermodal stakeholders in the Republic of Croatia will benefit the project and other partners in their activities. At the same time, Cluster will benefit from the project in the form of gaining knowledge and experience from other partners.
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Portuguese Institute of Sea and Atmosphere, I. P.	NO		Transfer	<p>IPMA IP is a public institution, part of the indirect administration of State, endowed with administrative and financial autonomy and its own assets.</p> <p>IPMA I. P. follows the responsibility of the Ministry of Sea, under supervision of the respective minister.</p> <p>The strategic guidelines and goals for IPMA, I. P. are articulated between members of the Government responsible for the sea and science.</p> <p>IPMA has responsibilities at national level in the areas of the sea and atmosphere.</p> <p>Focusing on projects that accrue to direct applications for use in operating activities, pursuing improvement in the information made available to its users whether for commercial use or public service and in particular directed to the safeguard of people and property.</p>	institutional	<p>IPMA I. P. is the state laboratory whose mission is to promote and coordinate scientific research, technological development, innovation and service on the seas and atmosphere, ensuring the implementation of national strategies and policies in their areas of expertise, thus contributing to the economic and social development.</p> <p>IPMA, IP, is the national authority in the fields of meteorology, aeronautical meteorology, climate, seismology, and geomagnetism.</p>
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LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography	NO		Testing	Consorzio LaMMA has multi-year experience on meteo/oceanographic modelling, managing high-tech measurement networks (e.g. HF radars) and regularly provides services to community such as operational forecast (based on Copernicus), and support to a number of institutions for standard monitoring activities and during emergencies, as for pollutant transport monitoring (HNS, marine litter). The National Research Council (CNR), as partner of the Consortium, will be directly involved in the project activities and will provide its expertise on the physical, biogeochemical, and eco-geomorphologic analyses from EO and modelling for environmental risk monitoring and mitigation, risk maps, advanced analyses for emerging pollutants and ecotoxicology.	institutional	LaMMA (and CNR) will bring into the project its experience in the realisation of operational products/services to face many emerging problems, such as the impact of climate change and the understanding of marine pollution. The project will allow LaMMA/CNR to increase present knowledge and technology transfer processes in many marine and maritime sectors, at regional, national and Mediterranean level. It will support the underway work to boost Blue Growth in the Mediterranean through R&I (BlueMed), including the activation of Mediterranean (MED Project MISTRAL), national (Cluster BiG) and regional strategies (support on the development of S3 and their connections with the marine environment and the blue economy).
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**B.1.5 Other former experience**

	Did the partner already participate in a MED Programme project (programming period 2007-2013)?	If yes, precise the projects acronym:	When relevant, describe the organisation's experience in participating in and/or managing EU co-financed projects (programming period 2007-2013 and 2014-2020) or other international projects.	Did the partner already participate in a MED Programme project (programming period 2014-2020)?	If yes, precise the projects acronym:
OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	YES	TOSCA	OGS has implemented numerous EU-funded projects as coordinator or PP, as indicatively shown in the following list: 7 Interreg Italy-Croatia project with SEAFAIR as LP; HarMoNIA (ADRION 2017-2020) as LP; PORTODIMARE (Adriatic-ionician Program interreg V-B transnational 2017-2020); TRECORALA (Slovenia-Italy 2007-2013), as LP; BALMAS (Adriatic IPA 2007-2013); COPERNICUS CMEMS-MFC, (2015-2021); EMODNet Biology, Chemistry, bathymetry (EASME/EMFF/2016-2021); SeaDataCloud (Horizon 2020 Call: H2020-INFRAIA-2016-2017); PERSEUS (FP7-ENVIRONMENT); HAZADR (IPA Adriatic Cross-border Cooperation Programme 2007-2013); SeaDataNet II (FP7-INFRASTRUCTURES).	NO	

Valenciaport Foundation for Research, Promotion and Commercial Studies of the Valencian region	YES	FUTUREMED; CO-EFFICIENT; SMILE; MEDNET; MEDITA; DEVELOPMED; FREIGHT4ALL; INTE-TRANSIT.	Besides the aforementioned MED projects, Fundación Valenciaport has coordinated or been a partner of several projects. In the period from 2007-2013 we have collaborated in projects such as CAPACITY4RAIL (FP7), CONTAIN(FP7), E-MAR(FP7), FLAGSHIP (FP6), SUPPORT (FP7), MESA (FP7), MOSES (FP6), ENABLE(FP7), B2MOS (TEN-T), MONALISA 2.0(TEN-T), GREENCRANES (TEN-T), MOS4MOS (TEN-T), COSTA (TEN-T). Furthermore, in the period from 2014 – 2020 we have participated in other projects as for example, SEA TERMINALS(CEF), GAINN4MOS(CEF), GAINN4SHIP(CEF), STM(CEF), CONNECT VALENCIAPORT (CEF), SAURON (H2020), COREALIS (H2020), INTER IoT (H2020), MITIGATE (H2020), SKILLFULL (H2020)	YES	HERIT.DATA TOURISMED SUMPORT CO-EVOLVE SIROCCO PROTEUS
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National Institute of Biology	NO		<p>BLUEMED: Support to the BLUEMED Initiative: Coordination of marine and maritime research and innovation activities in the Mediterranean H2020-BG; 2016–2020)</p> <p>MEDCIS - Implementation of the second cycle of the MSFD (DG ENV/MSFD; 2017–2019)</p> <p>MEDREGION - Support Mediterranean Member States towards the implementation of the MSFD new GES Decision and programmes of measures and contribute to regional/subregional cooperation DG ENV/MSFD 2018 – MEDREGION; 2019-2021 (COST Action CA15217; 2016-2020)</p> <p>MyOcean FO - (H2020–Adhoc-2014-20 SPACE CSA; 2014 – 2015)</p> <p>HAZADR - (Adriatic IPA CBC 2007-2013; 2012–2015)</p> <p>BALMAS (Adriatic IPA CBC 2007-2013; 2013–2016)</p> <p>SMS - Sensing toxicants in Marine waters makes Sense using biosensors (FP7- OCEAN; 2013-2017)</p>	NO	
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University of Montenegro - Institute for marine biology	NO		UOM-IMB is one of the project partners in INNOBLUEGROWTH project. With main focus on Capitalisation and community building between modular partners in the Blue Growth sector in Mediterranean area. Meanwhile Institute of marine biology was a host of Blue Growth Summer school “Emerging technologies, trends & opportunities” in July 2019.	YES	INNOBLUEGROWTH
CSIC - Institute of Marine Sciences	YES	TOSCA MEDESS4MS	<p>CSIC is a major player in the development of the European research area. Within the FP7 Program CSIC signed 723 actions (coordinating 97 and 47 ERC's), listed as the 1st organization in Spain and the 6th in Europe with a total contribution of over 263 M€ (E-CORDA), distributed as People 20%, Cooperation 47%, Capacities 8% and Ideas 25%.</p> <p>In the first Work Program of H2020 (2014-2015) CSIC is listed as the 1st organization in Spain and the 10th in Europe (E-CORDA). CSIC has been successful in Research infrastructures, ERC and MCS Actions, and Societal Challenges. In June 2016, CSIC obtained 203 projects, total EU funding contribution of 88.5 M€ being an active member in KIC, Raw Materials and Health, and of the EIT.</p>	YES	MPA-ADAPT, CONFISH

AIX-MARSEILLE UNIVERSITY	NO		<p>Born in January 2012 from the merger of the Universities of Provence, the Mediterranean and Paul Cézanne, the Aix-Marseille University has a long experience in participating and managing European and international projects.</p> <p>For the programming period 2007/2013 , the University obtained 39 projects funded with over € 19 million from the ERDF .</p> <p>The European department is composed of 2 managers who closely work with the relevant departments of the University (Financial services, Human resources etc) to manage these complex projects.</p>	NO	
University of Malta	YES	MEDESS4MS	<p>The University of Malta has extensive experience in EU co-financed projects, particularly various projects funded under INTERREG MED (1 project 2007-2013 and 3 projects 2014-2020), INTERREG Italia-Malta (15 projects 2007-2013 and 12 projects 2014-2020), INTERREG Europe (1 project 2014-2020) and ENI CBC MED (2 projects 2007-2013). The University of Malta has also managed various projects under the Erasmus Lifelong Learning Programme and Erasmus+ KA2, as well as the Life programme and FP7. Its dedicated Research Support Services Directorate and Project Support office guarantee support from the proposal initiation phase up to implementation, closure and audits.</p>	YES	AMARE; CAMPSUMO; CESBAMED

INTERMODAL TRANSPORT CLUSTER	YES	MEDNET	KIP worked on many EU co-financed projects from several different programs: KIP was a national coordinator of the Marco Polo II Programme and technical expert for the Go Rail-Go Green project. KIP worked on IPA ADRIATIC projects: ADRIATIC MOS, ADRIMOB, INTERMODADRIA; IPA SOUTH EAST EUROPE project ADB multiplatform; IPA MED project MEDNET. At the moment, KIP is working as a Lead partner on two projects: TRANSPGOOD (Interreg Italy-Croatia programme) and MultiAPPRO (Interreg Adriatic programme). KIP is also WP leaders in several other projects from different programmes: Interreg Italy-Croatia: CHARGE, ICARUS, REMEMBER; Interreg Adriatic: NewBrain (only partner, not WP leader), Interreg Central Europe: REIF, CONNECT2CE	NO	
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Portuguese Institute of Sea and Atmosphere, I. P.	YES	SEAFARE, ACRUNET	<p>ACRUNET aims to ensure the economic viability of the shoe industry. Form a transnational industry network to identify factors that will improve shoe rack competitiveness. Build an interface between science and industry through a concerted policy to assess and monitor crab stocks that fit national, regional and EU management and policies</p> <p>SEAFARE to provide small and medium-sized businesses and public authorities with tools to enable sustainable and environmentally friendly aquaculture development. It strengthens the links between researchers and industry, and influences the development of regional and national policies. It will provide innovative solutions for coastal zone management and sustainable management of economic activity</p>	YES	INTEGRATE, MONITOOL, IFADO, SEA_TRACES, 3D-PARE, NASPA, COCKLES, NEPTUNUS, CABFISMAN, SEAFOOD-AGE
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LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography	NO		LaMMA (and CNR) have a wide and robust experience in participation and coordination EU projects. CNR participates to main EU and International Initiatives (including UNESCO-IOC, Joint7 Programming Initiatives and Infrastructures), Boards and Organisations in Blue Growth and science-to-policy projects (H2020 – BLUEMED CSA; EMFF/EASME-Dg Mare – ADRIPLAN, SUPREME, and SIMWESTMED), Observing systems and services (CMEMS; C3S; H2020 – COASTOBS, JERICO NEXT, ...), Marine conservation and marine resources assessment and management (H2020 – PANDORA and CLAIM; ERANET – CLIMAR, ...). LaMMA and CNR are also involved in several INTERREG projects on marine monitoring and risk mitigation (SICOMARplus, IMPACT, PlasticBusters MPAs).	YES	LaMMA: AMAre, Plastic Busters MPA; CNR: AMAre; CO-EVOLVE; MISTRAL; PHAROS4MPAS;
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## B.2 Associated partners

	Name of the associated partner	Project partner which this partner is associated	Sous – region (NUTS3)	Region (NUTS2)	Country	Associated partner category	Contact person (name and e-mail)	Which the role and interest of the associated partner in the project?

1	ISPRA - Italian Institute for Environmental Protection and Research	OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	ITI43	ITI4	ITALY	Sectoral agency	Antonello Bruschi, antonello.bruschi@ispra mbiente.it	The institute deals with environmental protection, including marine, environmental emergencies and research. Hence ISPRA is interested in the objectives of the SHAREMED project. ISPRA will be interested in the assessment of the synergy between project's products and user requirements, contributing to the definition of long term strategies and action plans for assessing and addressing environmental threats in the Mediterranean.
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2	INFO/RAC - Information and Communication Regional Activity Center	OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	ITI43	ITI4	ITALY	International organisation, EEIG	Giordano Giorgi, giordano.giorgi@ispram biente.it	INFO/RAC received in 2005 the mandate from Med Countries to establish a common information management infrastructure to support information and communication activities for the implementation of Barcelona Convention. INFO/RAC is responsible for the development and management of the Information Platform for data collection, sharing and elaboration related to reporting requirements under different Protocols: Land Based Sources (LBS), Specially Protected Areas and Biological Diversity in the Med (SPA), Prevention and Emergency, Offshore, Hazardous Wastes and ICZM. INFO/RAC also promotes communication campaign for raising public awareness to support decision making processes at the regional, national and local levels. INFO/RAC interest in the project is to enhance the harmonization and adoption of data standards agreed by the Med Countries for monitoring data collection and assure the fit-for-purpose of
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3	Civil protection of Friuli Venezia Giulia Autonomous Region	OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	ITH42	ITH4	ITALY	Sectoral agency	Aldo Primiero, aldo.primiero@protezionecivile.fvg.it	project products in the Friuli Venezia Giulia Region Civil Protection is interested in sharing data and knowledge about marine and coastal risks and sea monitoring data. Friuli Venezia Giulia has a meteo marine monitoring network since 2004 managed by OGS Institute of Trieste and we look forward to be end user of new and improved monitoring systems or networks available for our sea and coastal area of the high Adriatic area. Friuli Venezia Giulia Regional Civil Protection will offer its views and advisory on good practice for an improved understanding, assessment and management of disasters and risks that affect human safety, security, health, the environment and even critical infrastructures in the coastal area.
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4	ARSO - Slovenian Environment Agency	National Institute of Biology	SIO44	SIO4	SLOVENIA	Sectoral agency	Lilijana Kozlović, gp.arso@gov.si	The Environment Agency is a body of the Ministry of the Environment and Spatial Planning. Its mission is to monitor, analyse and forecast natural phenomena and processes in the environment, and to reduce natural threats to people and property. In this regard it is especially interested in the activities within WP3 and WP4 dealing with novel methods and techniques to monitor biological, chemical and hydrological properties of the sea and the increased quantity and quality of ocean observations.
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6	IMELS - Italian Ministry for Environment, Land and Sea	OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	ITI43	ITI4	ITALY	National public authority	Paolo Angelini, angelini.paolo@minambiente.it	IMELS is the Italian national competent institution and will therefore bring into the project a national perspective in the partnership, IMELS is committed to capitalize the results of the EU twinning projects that it carried out in SEE, in particular concerning the development and use of the GIS web tools in order to enhance the exchange of data and good practices among the countries of the Adriatic region.
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7	Environment and Resources Authority (ERA)	University of Malta	MT001	MT01	MALTA	Sectoral agency	Dr Louise Spiteri; louise.a.spiteri@era.org. mt	<p>and shall contribute as an observer in this project by providing advice on project activities (i.e. through physical and through virtual meetings whenever needed) and by monitoring the relevant project activities.</p> <p>The Authority is particularly interested in the following activities (related Work Package/ Activity):</p> <ul style="list-style-type: none"> <li>• WP3 – Studying, where techniques to improve the observing and assessing capabilities of physical and biological properties of marine systems are explored;</li> <li>• WP4 – Testing, where a cooperative framework to share knowledge, data and observing capabilities is implemented;</li> <li>• WP5 – Transferring, where tools, knowledge, and procedures developed and implemented in WP3 and WP4 are transferred to stakeholders;</li> <li>• WP6 – Capitalizing, where project results are mainstreamed through cross cutting activities.</li> </ul>
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8	Liguria Region	LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography	ITC33	ITC3	ITALY	Regional public authority	Laura Muraglia, Laura.Muraglia@regione.liguria.it	The Liguria Region, through its own Regional Agency for Environmental Protection (ARPAL), supports the Ministry for Environment, Land and Sea Protection in the institutional activity of control and monitoring for the protection of the marine environment also aimed at managing and eventually forecasting natural hazards in the North-Western Mediterranean and particularly in the Ligurian Sea. Through the improvement of the knowledge, as planned by the SHAREMED project, as well as the tools for sharing information and data, more effective planning tools will be set up, in line with the community indications and to allow the implementation of a strategy at a regional scale more coherent with that established at a Mediterranean scale.
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9	European Integration Office	University of Montenegro - Institute for marine biology	ME000	ME00	MONTENEGRO	National public authority	Ivana Glisevic Djurovic, e mail ivana.glisevic@gsv.gov.me	European Integration Office as a main partner, of behalf of Montenegro, in the project PANORAMED supports all initiatives/projects that contribute to the better cooperation of the Mediterranean countries.
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## PART C – Project description

### C.1 Project relevance

#### **C.1.1 What are the common challenges for territorial development that will be tackled by the project? How are they coherent with the Terms of Reference of the call, the objectives of the Axis 4 of the Programme, and the overall objectives of the Programme**

Marine ecosystems are exposed to the impact of a number of multiple stressors, resulting from multiple drivers, also acting in different areas. A non-exhaustive list of co-existing pressures includes climate change (e.g. warming and acidification), pollution (litter, NHS), maritime traffic, exploitation of living and non living resources, oligo/eutrophication, invasive species. A comprehensive assessment of the environmental impacts of those stressors is a prerequisite for a proper integrated management and planning of a marine area, and for the definition of any mitigation and adaptation plans.

Unfortunately, oceans are difficult and expensive to monitor, so the ocean is still largely undersampled, and existing databases are biased and non exhaustive. In recent years a large number of data has been collected, within a number of projects and monitoring programs promoted by different authorities, including systems at EU and national levels. However, this large and growing body of information is fragmented, heterogeneous, and made of data that are not always intercomparable, nor easy to access and use. Furthermore, often stakeholders do not need raw data, but meaningful indicators and knowledge that has to be obtained by proper elaboration and interpretation of data. The picture is even more complex in transnational areas, where the fragmentation of the governance framework implies that different authorities might have different monitoring programs and assessment of the environmental state and of the hazards related to environmental threats, making more difficult to have an efficient planning of the area.

Hence, there is a clear need for sharing of data, procedures, information and knowledge, in order to support multilevel governance and shared spatial planning. At the same time there is a need to improve observation and assessment capabilities, by integration of existing systems, development of short term forecast systems, and incorporation of emerging technologies.

#### **C.1.2 What is the project's approach in addressing the governance challenges?**

SHAREMED will increase the capability of managing authorities and scientific community to assess and address hazards related to environmental threats by: i) providing frameworks for collection, comparison, integration, harmonisation of existing experiences and increasing the possibility to find, access, and use existing information; ii) studying and testing procedures, multilevel agreements, protocols to standardise and produce a shared database and products to be used to assess environmental health, and environmental hazards; iii) improve observation and assessment capabilities by defining cooperation practises, integration of existing infrastructure in joint transnational system of systems, definition and actual implementation of a relocatable forecast system, incorporation of emerging technologies, with particular reference to operational systems and biological properties. The project will capitalise on knowledge provided by previous projects and ongoing programs, and will contribute to the definition of gap analysis, best practises, long term strategies and an action plan for assessing and addressing environmental threats in the Mediterranean Sea.

The added value of the approach will be tested by a demonstration phase in transnational sites in which there is already a high

concentration of observation capabilities, and that are representative of different conditions present in the Mediterranean. Different sites will follow a common procedure but might focus on different aspects and environmental threats, depending on the site and size specificity. The pilot site activities also include identification of a reference user group of stakeholders and their engagement on project activities. The project will focus on selected causes of environmental hazard to be chosen in agreement with stakeholder and regional strategies among pollution, changes in trophic regime, weather/climate changes.

### C.1.3 Why is transnational cooperation needed to achieve the project's objectives and result?

The impacts of pollution and environmental threats on marine ecosystem spread in space and time across geographical boundaries. Therefore those threats cannot be managed only at local or national levels, since any attempt to monitor, assess and mitigate their impact requires a truly transnational approach, allowing to observe, understand and address the whole chain of origination-spreading-impact of the threats, regardless of political borders.

In particular, when planning the development and/or managing of any marine zone, there is a need to identify possible sources of environmental threats potentially impacting on the area, including those of transnational origin, as well as to quantify the connectivity between the area and those sources, as defined by ocean currents and physical properties, and potential impacts on water quality and ecosystems state, as defined by biogeochemical and ecological transformations. At the same time there is a need to monitor the spreading of those potential impacts, possibly also through different countries, and to assess their capability to alter ecosystem functioning and related ecosystem services.

Therefore, there is a clear need for a cooperative transnational approach, based on the integration and sharing of existing countries capabilities, with the goals of sustaining the mobilisation and exchange of existing information, the development and the implementation of joint observing and assessing capabilities, and the adoption of common procedures required to produce coherent and commonly produced assessments of the ecosystem state and of the hazard related to environmental threats.

This would clearly support multilevel governance and increase the possibility to have a shared spatial planning of the area, as well as the possibility to identify basin-wide guidelines for addressing environmental threats and common action plans.

### C.1.4 Please confirm which cooperation criteria apply to your project.

	Cooperation criteria
Cooperation criteria	Joint Development Joint Implementation Joint Staffing Joint Financing

### C.1.5 How can the project be defined as strategic? Taking into account that strategic projects should be implemented following a territorial, integrated, inclusive and participative approach

The project will foster the capacity of cooperation among member states and promote the development and implementation of joint procedures and tools in support of governance, by showcasing examples of regional cooperation and the importance and effectiveness of this approach.

Project results will increase coherence in procedures to address environmental threats adopted by different regional and local authorities, and contribute to the definition of guidelines and action plans for assessing and addressing environmental threats in

the Mediterranean water, while keeping into account and capitalising on synergies with existing programs (such as EMODnet, COPERNICUS, GOOS), EU regulations and directives (such as Marine Strategy Framework Directive - MSFD, Maritime Spatial Planning directive - MSP, Common Fishery Policy - CFP, Macro-regional strategy - EUSAIR), activities of major international organisation (UNEP-MAP, UfM) and initiatives (BlueMed, WestMED).

The project will develop regional strategies to address environment threats for different regions, will provide information useful to identify spatial management units for different levels/regions, and roadmaps towards the implementation of transnational joint observing infrastructures.

The project will also promote transfer of information towards the south coast of the Mediterranean, so contributing in reinforcing cooperation with and among those countries.

## C.2 Project focus

### C.2.1 Project objectives, expected results and main outputs

Project general objective
<p>The project aims to increase the capability of Mediterranean regional, subregional and local authorities and of research community to jointly assess and address hazards related to pollution and environmental threats in Mediterranean transnational waters.</p> <p>This objective will be pursued by sharing knowledge, observation and technologies and building common frameworks, tools and services to assess and possibly forecast impacts of environmental threats, including those of transboundary origin.</p> <p>This will enhance the capability to produce and deliver coherent and jointly produced assessments on important issues like pollution (marine litter), changes in trophic regimes (eutrophication/oligotrophication), weather/climate change (marine heat waves, warming, acidification), as well as increasing the possibility to find, access, and use existing data and information on those issues, serving the needs of national responsible entities, stakeholders and a range of users.</p> <p>This will require the definition and implementation of cooperative frameworks, multilevel agreements, protocols for collection, comparison, integration, harmonization and sharing of existing knowledge, as well as for integration of existing observing infrastructures.</p> <p>The activity will contribute to consolidate multilateral coordination, favour a common understating of the phenomena, develop the backbone for future transnational observing system and contribute to the definition of an action plan to address environmental threats.</p>
Project result
<p>1 Joint identification of regional strategies and roadmaps for future systems of observing systems : The project includes the joint preparation of guidelines and recommendations for an integrated systems of observing systems, useful to monitor and observe impacts of pollution and environmental threats on marine ecosystems. The guidelines will emerge as a result of the analysis of the state of the art on existing observing capabilities (as emerging from 4.1), needs of stakeholders and potential users (6.1 and 6.2), review of potentialities of new technologies, also with reference to the biological dimension (4.7), capitalisation on previous and parallel projects (6.1), as well as results of activities related to observation and forecast capabilities in WP3 and WP4. Those information will be mainstreamed and systematized through the activity of the capitalization group at national and regional level (6.1) and through a series of thematic workshops (6.2). Results will contribute important information for a possible plan on enhancing observing capabilities of marine ecosystems in Mediterranean Sea, as well as for an action plan for assessing and addressing environmental threats in the Mediterranean waters.</p>

<p>2 Definition and implementation of cooperative frameworks for data sharing, assessment procedures, and joint production of thematic maps : The project will include definition and actual implementation of cooperative frameworks for collection, comparison, integration, harmonization of existing knowledge and for increasing the possibility to find and 'use' existing information (4.1, 4.2). At the same time, the project will implement studying/testing procedures, multilevel agreements, protocols to standardise and produce shared data and information to be used to assess environmental health, ecosystem services, and environmental risk hazards (WP4, WP6). The project will also update knowledge on origins, mechanism of spreading and potential hazards related to pollution and environmental threats, and compile an atlas of relevant maps, (4.3) including information on hotspot and connectivities (4.6). Those steps are a prerequisite for any attempt to draft a joint action plan to address environmental threats. The production of joint assessment and hazard maps, shared by different countries, might be particularly valuable for a shared governance of the system.</p>
<p>3 Shared portals for existing observation capabilities : Each transnational pilot site will test and showcase the impact of the actual integration of observations capabilities from existing infrastructures, and of joint dissemination of integrated results through a common web-portal. The portals will serve single access points to collect and depict observations collected by different partners, and will also show results of short term forecast systems (see next point). These products might be useful for organisations involved in the governance of environmental risks and for a variety of stakeholders, but can also contribute to the definition of common plans to develop transnational observing system and set up a system of observing system to address environmental threats.</p>
<p>4 Implementation of relocatable short term forecast system : This result refers to the development and implementation of a relocatable high resolution short term forecast system for physical and biogeochemical properties, possibly using customized satellite indicators for coastal area. The system, which capitalise on results from previous projects, is developed in WP3, tested in WP4, validated in WP5, and made available also beyond partnerships in WP6. The possibility to have a common tool, easy to implement in new areas, and that provide standardized output and information is a valuable asset for common assessments of hazard related to environmental threats, and might favour joint action and planning.</p>
<p>5 Joint identification of regional strategies and contribution to action plan to address hazard related to environmental threats and pollution environme : As explained also in project results 1 above, a collaborative effort between project partners, engaged experts, users and responsible entities, will systematise existing knowledge and sustain a common understanding of environmental threats and pollution, including those of transboundary origin, for long term strategies and common action plans jointly with stakeholders (WP6). The effort includes assessment of state of the art, gaps, and needs, broad consultations at regional/national levels across stakeholders/relevant parties to identify users need; scientific and technical exchanges and assessment of potentialities and technological readiness level of new technologies; involvement of high level public administrative structures to certify the feasibility of proposed governance structures. The above will provide important contribution to a shared, and possibly endorsed by organisations at national and regional levels, action plan.</p>

Specific Objective of the Programme	Result indicator
4.1: To support the process of strengthening and developing multilateral coordination frameworks in the Mediterranean for joint responses to common challenges	Number of joint thematic action plans allowing to implement coordinated strategic operations[1]

Title of the objective	Description	Communication objectives	Approche/tactics
Increase common understanding, data sharing, joint assessments, and accessibility of information on hazards related to environmental threats	<p>The project aims to consolidate, strengthen and implement frameworks for sharing of data, knowledge, technology, infrastructure and expertise, and for joint interpretation of the observations of marine ecosystem and the assessment of hazards related to environmental threats.</p> <p>The above will build synergies, increase coherence and common understanding, update knowledge on threats and ecosystem state, and, eventually, support governance. This specific objective is directly linked to project output 4.2 and project output from WP6.</p>	<p>This Specific Objective requires networking and exchange among project partners and other relevant actors. Communication strategies can contribute to reach this goal by:</p> <ul style="list-style-type: none"> <li>- Informing potential actors of the existence of SHAREMED and the possibility to contribute to SHAREMED activities, both by contributing knowledge and data and steering project activities;</li> <li>- Increasing awareness among stakeholder and potential actors on the potential impact of SHAREMED approach and goals;</li> <li>- Improving uptake of project results.</li> </ul>	<p>We will reach the communication objective for this SO mainly by:</p> <ul style="list-style-type: none"> <li>- identifying and contacting potential actors and stakeholders through: site specific systematic review of organisations involved in data production, elaboration, and dissemination;</li> <li>- engagement of potential actors and analysis of their needs and possibility;</li> <li>- ensuring adequate communication among partnership, stakeholders, and target groups through regular meetings, and through the implementation of joint activities.</li> </ul>

Improve capabilities of jointly observing, assessing, and forecasting ocean state and impacts of environmental threats in national and transnational waters	The project will increase the capability of authorities and of the scientific community to observe, assess and forecast hazards related to pollution and environmental threats in Mediterranean water by : consolidation and Integration of existing observing capabilities in common web portal (4.4); exploring possibility to enhance observation of physical properties (WP3 and 4.7), enhancing short term forecast capabilities (3.1, 4.5, 5.2). the implementation of such activities forces organizations to implement frameworks cooperation, strengths integration among existing infrastructure, and call for close collaborations of different organizations. This objective is linked to output 4.1 and 4.3 and to most WP3 deliverables.	This Specific objective requires cooperation among partners and organizations involved in observation, assessing and forecasting ocean state. The communication objective for this SO is to reach a wide audience in all the target groups in order to raise awareness about the importance of sharing observing capabilities and the added value generated by their integration in transnational observing systems. The main focus will be environmental agencies at local, regional, and national levels; the scientific community and the organisations involved in governance of environmental threats.	For this objective, we will use results of site specific systematic reviews of organisations involved in observations, as well as knowledge provided by the WP6 capitalisation group and synergies with recent and parallel projects. Selected organizations will be involved by direct contacts and invitations to project dissemination activities, including workshops and schools. The possibility to access information from the common portal, and of using project results, including the relocatable forecast systems and know how on emerging observation technologies will further showcase and advertise the possibility to participate to project activities.
Contribution to action plans for addressing assessing pollution and guideline for co-design and joint implementation of future system of observing systems in national and transnational waters	Among the main scopes of SHAREMED is to mainstream and systematise existing data and knowledge, with the aim of reaching a consensus on the assessment of the state of marine ecosystems and jointly produce strategies to increase the capabilities to address and assess environmental threats in Mediterranean waters. This requires the identification and engagement of stakeholders, users and organisations involved in monitoring and governance, the definition of multilevel agreements and regional strategies, the analysis of the potentiality of novel promising techniques, the analysis of origin and mechanisms of spreading of environmental threats. These objectives are clearly linked to capitalisation and mainstreaming activities of WP6.	This activity is based on the identification and engagement of stakeholders, users and organisations involved in monitoring and governance at the global, national and local level. The communication objective for this specific objective is to ensure all involved actors are aware of the importance of having shared strategies for joint implementation of transnational observing systems and of adopting common procedures. It will also be important that the largest possible number of stakeholders become aware of project results and long term objectives.	We will reach this communication objective by fully exploiting activities and strategic liaising within WP6 capitalisation group, organising regular meetings with experts and representative persons from major international organisations involved in environmental threats and pollution in the Mediterranean. The communication plan will ensure adequate communication between partnership, stakeholders and target groups through regular meetings. Project documents and recommendation will be revised by capitalisation group and external expert, and project results will be disseminated by using all the available tools and tactics, from social media to classic communication approach, also considering the typology of audience.

Programme output indicator	Programme output indicator targets	Project main output quantification	Project main output number	Project main output
Number of stakeholders (structures) involved in supported initiatives (per category representing public and private stakeholders)	119	9	Work package5-1	Implementation of common transnational portals
Number of stakeholders (structures) involved in supported initiatives (per category representing public and private stakeholders)	119	25	Work package5-2	Implementation of shared database and jointly produced Atlas
Number of stakeholders (structures) involved in supported initiatives (per category representing public and private stakeholders)	119	10	Work package5-3	Implementation of coastal high resolution transnational forecast systems

Number of stakeholders (structures) involved in supported initiatives (per category representing public and private stakeholders)	119	5	Work package6-1	International workshop for non-EU countries
Number of stakeholders (structures) involved in supported initiatives (per category representing public and private stakeholders)	119	30	Work package7-1	Capitalisation framework at regional, sub-regional and national levels
Number of stakeholders (structures) involved in supported initiatives (per category representing public and private stakeholders)	119	20	Work package7-2	Recommendations for the future transnational system of observing systems
Number of stakeholders (structures) involved in supported initiatives (per category representing public and private stakeholders)	119	20	Work package7-3	Action plan on environmental threats and pollution
Expenditures declared to the EC for Axis 4	0			

## C.2.2 Target groups

Target groups	Description	Target value
Sectoral agency	Development agencies- Key organisation and stakeholders involved in environmental threats in the MED region; Environmental Protection Agency; Harbour authorities.	10.00 Organisations
Other	INTERREG MED Joint secretary and/or Managing Authority	1.00 Organisations
Interest groups including NGOs	Environmental associations and other association involved in the project main issues.	5.00 Organisations
Higher education and research	Research institutions involved in marine environment research, in assessing pollution impacts on ecosystems.	5.00 Organisations
International organisation, EEIG	Representatives of different international organisations related to SHAREMED main objective.	15.00 Organisations
Local public authority	Local authorities such as municipalities in charge of environmental assessment, management, conservation and in the development of economic maritime activities.	10.00 Organisations
National public authority	National public authorities in charge of environment, maritime infrastructure planning, development and authorization, Civil Protections.	10.00 Organisations
SME	Private companies involved in marine and coastal infrastructures planning, in fishery, nature conservation, etc.	5.00 Organisations
Regional public authority	Regional public authorities involved in environmental monitoring and management for WFD, MSFD obligations.	10.00 Organisations

## C.3 Project context



**C.3.1.a. How does the project contribute to wider strategies and policies?**

The project promotes a shared, harmonised, coherent, joint and transnational approach to observe and assess the impacts of environmental threats and pollution in coastal and open waters. Therefore it will support the implementation of MSFD and IMAP, which aim to achieve Good Environmental Status (GES) of EU's marine waters and to protect the resources upon which marine-related economic and social activities depend, and provide knowledge useful for the implementation of Ecosystem Based Management and Common Fishery Policy (CFP). It will also contribute to implement BlueMed priorities related to the issue of "improving the sharing and joint exploitation of existing data, knowledge, capacities, project outcomes and bilateral/multilateral research and innovation initiatives and frameworks related to the Mediterranean" and to implement EU Knowledge 2020 strategy, which promoted the development of the European Marine Observation and Data Network (EMODnet). Further, it increases the efficiency of the public administration (e.g. by avoiding duplication of monitoring or data collection efforts), EUSAIR Topic 3 (Maritime and marine governance and services), Pillar 1 (Blue Growth). Case studies contribute to Actions "increasing marine knowledge to ensure a sound basis for actions related to Maritime Spatial Planning (MSP), Integrated Coastal Management (ICM) and implementation of the Marine Strategy Framework Directive" and "Identifying hotspots" of marine pollution of EUSAIR (Topic 3.1 - The marine environment, Threat to coastal and marine biodiversity and Pollution of the sea, Pillar 3 - Environmental quality) and to Action "Drafting and implementation of a joint contingency plan for oil spills and other large-scale pollution events", as well as to WestMED objectives. Strengthening joint observation capacities and services will contribute to enhance maritime safety and marine environmental protection (EMSA and REMPEC) and contribute to European Ocean Observing System EOOS.

**C.3.1.b. If applicable, indicate if the project contributes to the following strategies / initiatives and describe in what way.**

	-	-
If applicable, indicate if the project contributes to the following strategies and describe in what way.		
EU Strategy for the Adriatic-Ionian Region (EUSAIR)	.	Sharing knowledge and competences to harmonise strategies of monitoring and assessment of contaminants in the marine environment contribute to Topic 3.1 (The marine environment, Threat to coastal and marine biodiversity...), Pillar 3. Sharing data and knowledge among public bodies in the Region can increase the efficiency of the public administration (e.g. by avoiding duplication of monitoring or data collection efforts) under Topic 3 (Maritime and marine governance and services), Pillar 1.
Alpine Space Strategy		
WestMed Initiatives	.	SHAREMED will involve countries of the Western Mediterranean, and will engage local stakeholders to identify, with a shared and bottom-up approach, local and regional challenges to be addressed to allow sustainable blue economy in the Western Mediterranean.

EU Balkans Strategy	.	By strengthening and sharing data, information and knowledge for an improved management of potential risks to environmental integrity due to increase in maritime traffic and offshore activities, SHAREMED contributes to the Western Balkan Strategy flagship initiatives on sustainable socio-economic development, also with ref to particular maritime transport.
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### C.3.2 How does the project build on available knowledge?

The project will capitalise on existing knowledge, by reviewing, synthesising and using synthesis and information provided by many previous projects, including the MED horizontal projects, EEA and UNEP MAP initiatives (e.g. MEDOL, INFORAC), and past and on-going projects linking research with marine-policy to assist in MSFD and other environmental legislation (e.g. FP7 projects PERSEUS, COCONET, MEDSEA; DGMARE projects MEDISEH, MANTIS, ADRIPLAN; DGENV projects ACTION-MED, MEDCIS, MEDREGION DG ENV; RIS-SES PP/ENV D2/SEA 2012,...), data and multidisciplinary information already gathered by previous or ongoing programs (such as EMODnet DGMARE and EASME, PORTODIMARE Interreg – V B ADRION, HarmonIA Interreg–VB-ADRION, INCREASE-CMEMS), data and geovisualization tools developed in previous cooperation programs (twinning ITA-CRO HR07IBEN01&2), as well as results from recent large monitoring programs in support of the implementation of EU directives (MFSD, WFD). It will also build on existing observing infrastructure and networks at EU (GOOS) and regional scale (e.g. Calypso, CADEAU, MOOSE) and on knowledge gained in recent advanced operational oceanography projects aimed to strengthen common reaction capacity to fight sea pollution of oil and hazardous substances in Adriatic Sea (HAZADR, IPA Adriatic CCP 2007-2013; TOSCA, Tracking Oil Spills & Coastal Awareness network, MED, MED program MEDESS4MS), or dedicated to implement tools for Ocean Monitoring and Forecasting, (FP7 MyOcean, JERICO) as well as on the Copernicus marine environmental monitoring service (CMEMS, which provides regular information on the state of Mediterranean Sea) and ocean research infrastructure (EUROARGO, EMSO, EMBRC, DANUBIUS-PP).

The project will rely on the networking activities to address common transnational challenges achieved in above mentioned projects as well as in ADRIAMED (FAO, 2007), MSP-SUPREME (H2020), ADRICOSM STAR (Italian Ministry of Environment,) BALMAS (IPA Adriatic, 2013-2016).

#### C.3.3.a What are the synergies with past or current EU and other projects or initiatives the project makes use of?

SHAREMED will exploit synergies with a number of existing initiatives, by establishing strategic liaising and permanent cooperative frameworks to address pertinent issues concerning environmental risks, mainstream results and contribute to develop roadmaps to the future observing system and action plan to address environmental threats and pollution.

In particular, SHAREMED will exploit synergies with project devoted to data and knowledge mobilization and sharing, by exchanging data, information and data infrastructures implemented in the framework of MED Programme initiatives (eg. Med-IAMER, AMAre, Plastic Buster), Interreg ADRION (HarmonIA, PORTODIMARE), Interreg Marittimo IT-FR (SICOMAR plus, IMPACT) and DG MARE (EMODNET, ADRIPLAN, SUPREME), as well as national initiatives in support of MFSD implementation and sustainable use of marine resources (e.g. Interreg FAIRSEA, PRIZEFISH, MEDISEH) and twinning projects (HR14IBEN02). The European Marine Observation and Data Network (EMODnet) will represent a model for harmonized and interoperable data sharing system.

SHAREMED will also use and expand results offered by the Copernicus Marine Environment Monitoring Service (CMEMS),

which provides regular and systematic reference information on several physical and biogeochemical properties of the Mediterranean Sea at basin level, and that will be used in SHAREMED to feed higher resolution forecast and analysis systems for trans-national pilot sites and to provide base information at the basin level. In fact, SHAREMED will reproduce and extend the experience of the CADEAU project, that producing an annual environmental bulletin obtained by downscaling the CMEMS products for a pilot area in the North Adriatic.

Finally, we will look for synergies with UNEP MAP and EEA initiatives in the Mediterranean Sea targeting environmental risks, by also involving their representatives in the WP6 capitalisation group.

### C.3.3.b. List of synergies.

	Programme and period	Project (Acronym)	Deliverable	Description – Linkage with the expected new project deliverables/outputs
1	DG MARE (2009-21)	EMODnet	Thematic data and product portals	EMODnet data and products on environmental status and on human activities will represent the basis for the collection of information and for the identification of gaps and needs in the Mediterranean region.
2	Copernicus	CMEMS	Short term forecast for major physical and biogeochemical parameters in Mediterranean Sea	The project will use result of Copernicus as the initial and boundary condition to run short term forecast system at subregional and local level with higher spatial resolution.
3	ADRION (2018-20)	HarmoNIA	Harmonised dataset on contaminants in the sub-region and proposal for assessment of dispersion risk	The project will extend approach of HarmoNIA to all MED countries, expand the underpinning database, enlarge and update the pollutants considered.
4	CMEMS-SE (2016-17)	CADEAU	Annual environmental bulletin on nutrient dynamics and bathing water quality in coastal areas	Results will be the starting point to develop the relocatable short term forecast system.
5	EU H2020	JERICO-NEXT	Report on new network systems and sensors: status of HF-radar and cabled coastal observatories	The project will capitalize on outcomes from JERICO and JERICO-NEXT for the implementation of existing observing systems.
6	Interreg IT-MT	CALYPSO	Series of 3 projects led by UoM with setting up HF radar system in Malta Channel with 7 sites	Infrastructure and experience in CALYPSO are building blocks for the observing system in the Sicily Channel; major aspects concern dedicated products and services to users.

7	DG MARE (2013-15)	ADRIPLAN	GeoPortal for MSP	The project will capitalise on geo-spatial information available in ADRIPLAN Data Portal.
8	MED (2019-21)	AMAre	AMAre WebGIS	The project will capitalise on geo-spatial tools for multiple stressors assessment and multi criteria analyses and will focus on gaps and needs identified in the Mediterranean region.
9	MED (2014-20)	Med-IAMER	Tech report on data, including map series identifying regions with specific pressures and impacts	The project will capitalise on Med-IAMER results to improve the knowledge basis to address hazards related to pollution and environmental threats in Mediterranean transnational water.
10	ADRION (2018-20)	PORTODIMARE	GeoPortal for MSP	The project will capitalise on geospatial tools focused on the Adriatic-Ionian sub-regions and implemented for Maritime Spatial Planning to identify relevant information and gaps and needs of the area.
11	Interreg Mar IT-FR	SICOMAR plus	Implementation of an HF radar network on the NW Med and forecast products	The project will use the data of this radar network, will take up the concepts of sharing and interoperability used in SICOMAR plus, as well as the work for the realisation of forecasting products with reduced uncertainty (including merging data and models) and aimed at improving the tools for monitoring / forecast / control of environmental risks.
12	LIFE-IP	RBMP-MALTA	Addresses challenges ahead of Malta for achieving the good status objectives of the WFD	The project will support challenges addressed especially with regard to contamination from trans-boundary sources, and vulnerability of coastal waters. The BFM for the Sicily Channel will be of high relevance to RBMP-MALTA.
13	EU H2020	SeaDataCloud	Extending SeaDataNet Services and increasing their usage, adopting cloud and HPC technology	Protocols for oceanographic data exchange and interoperability are the building blocks for the data platforms of the project.

14	EU H2020	ODYSSEA	Coastal observatories across the Med, including non-EU countries, to deliver services to users	The project will capitalise and link to the network of interoperable and cost-effective observing and forecasting systems across the Mediterranean basin delivered by ODYSSEA, addressing both the open sea and the coastal zone, including innovative coastal observations.
15	EU H2020	BLUEMED CSA	Policy reference for all actors of Blue Growth in the Mediterranean	The BLUEMED Strategic Research and Innovation Agenda (SRIA), converting its outputs into actions, is a key framework for the project goals and deliverables.
16	Int. Agr. (1976- )	RAMOGE	Technical reports on pollution dispersion and toxic algal blooms	Exchange new and historical information between RAMOGE and SHAREMED partners, concerning data acquisition and scientific and policy-makers dialogue.
17	Twinning ITA-CRO	CRO-SEVESO	Opensource database and webgis tool (BIFISIC), linking together data from various institutions	The project will capitalise on geospatial tools for multiple stressors assessment and multi criteria analyses and will focus on gaps and needs identified in the Mediterranean region.

## C.4 Horizontal principles and evaluation

### C.4.1 Please indicate which type of contribution to horizontal principles applies to the project, and justify the choice.

	Type of contribution	Description of the effect
Sustainable development	positive effects	The project contributes to the principle of sustainable development as it tackles the problem pollution and other environmental threats in the Mediterranean areas in order to mitigate environmental risks and promote the conservation of marine biodiversity and to increase awareness on important issues like pollution, climate changes. (e.g. recycling, FSC paper). The project will have reduced impacts through the exploitation of ICT (e.g. web-video conferences, paperless reports) and back-to-back meetings (conferences, meetings) for reducing travels. All partners will give preference to green public procurement principles for project activities (short supply chains, eco-labels, use of renewables/recycled products).

Equal opportunities and non-discrimination	positive effects	The LP and all the PPs participating to the project, in their organization, reject any case of discrimination, in reference to political, religious affiliations, race, gender, sexual orientation, gender identity, personal and health conditions, ensuring for employees equal opportunities. The project will comply with EU requirements on nondiscrimination related to employment. In particular, no decision will be made based on personal characteristics such as gender, race, nationality, ethnic origin, religion or belief, disability, age or sexual orientation, unrelated to inherent job requirements. OGS has received European recognition of excellence in human resources for actions regarding equal opportunities support.
Equality between men and women	positive effects	In the project the equality between men and women is respected and enforced. LP and the other PPs, as public bodies, have already implemented adequate structures (e.g. equal equality commission) and policies (e.g. selection of new staff members) to this purpose. Moreover, adequate maternity leave and maternity benefits are granted both for employees and other research positions (PhD students, post-doc) and a particular attention is paid to the conciliation between work and family activities. Gender equality is guaranteed since in all PPs women and men enjoy the same rights and opportunities, including economic participation and decision-making. All PPs, joining the project, agree to comply with these principles.

#### C.4.2 Please indicate which type of evaluation is foreseen and justify the choice.

	-	Type of evaluation	Timeframe
Does the project foresee an evaluation?	Yes	internal	on-going

#### Please, describe the process of evaluation and how results will be taken into consideration

The project plan to investigate the extent outcomes achievement with a tailored system of systematic evaluation and qualitative monitoring.

The evaluation the project will be detailed on the Evaluation Plan (WP1) with a mix of quantitative indicators and qualitative approaches.

Ongoing evaluation of financial issues, of actions results in the WPs as well as the implementation of the project and achievement, of on-going communication targets and finally, impact on stakeholder and community will be reported to the SC. Each PP will nominate their responsible for supporting the evaluation process. The SC will timely decision-making, action, and feed into the capitalization and sustainability activities. The final Evaluation Report defining any broader, longer-term changes that have occurred will be added to the Final Project Report.

## C.5 Work plan

**C.5.1 Work plan per work packages****0 Preparation costs****1. Description of work package**

Type of WP	Strategic			ST
WP number	Type of WP	Starting date	Ending date	Amount
0	Preparation costs	10-2019	10-2019	30,000.00 €
Partners				
Participating partner	OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)			
Description of the work package				
N/A				

**2. Activities and deliverables**

0.1	Preparing and submitting a project proposal		Starting month	10-2019	Ending month	10-2019
	Type of activities	Preparing and submitting a project proposal	Target group			
	Description		N/A			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
0.1.1	Application form	Application Form	1 Unit produced	10-2019	30,000.00 €
	Description	N/A			

**3. Main outputs**

## 1 Project management

### 1. Description of work package

Type of WP	Strategic			ST
WP number	Type of WP	Starting date	Ending date	Amount
1	Project management	10-2019	06-2022	494,459.75 €
Partners				
Responsible partners	OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)			
Participating partner	AIX-MARSEILLE UNIVERSITY			
	CSIC - Institute of Marine Sciences			
	Valenciaport Foundation for Research, Promotion and Commercial Studies of the Valencian region			
	INTERMODAL TRANSPORT CLUSTER			
	Portuguese Institute of Sea and Atmosphere, I. P.			
	LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography			
	National Institute of Biology			
	OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)			
	University of Malta			
	University of Montenegro - Institute for marine biology			
Description of the work package				
<p>OGS, the Lead Partner (LP), responsible for the management of entire project for the achievement of the expected results, will provide the structure and the plan to manage and coordinate the project. The Steering Committee (SC), with representatives of all PP and chaired by LP, will designate the person responsible for each WPs, address the strategic project decisions, plan the objectives, evaluate trends and implement corrective measures. In case of particular strategical issues or needs, the AP may be invited to participate in the SC meetings</p> <p>Furthermore, Technical Committee (TC) will be instituted for administrative and financial matters. Each PP will have at least a representative in SC and TC. Project manager (PM), financial manager (FM) and communication (CM) manager and TC will form a management team (MT). The above-mentioned structure will provide effective sharing of administrative and management processes between the entire partnership avoiding duplication of roles and functions. The LP will be responsible for the contacts with MA and JS on behalf of the partnership. The SC define a detailed work plan that will be updated and steady monitored during the project implementation and it will serve to monitor the progress of tasks, duration and results commensurate with the roles and responsibilities of PP. It is foreseen to realize regular partnership meetings (or webmeeting) for update on financial, administrative and scientific matters, to consider any critical issues, to receive suggestions and to support PP.</p> <p>LP will be created a help desk on line (e-mail, webcall etc) where PPs can receive help on different issues and a web based private platform for communication, documents sharing and archiving.</p> <p>The LP is going to implement a reporting and evaluation system in order to prevent or detect risk, critical issues and provide corrective actions in accord with SC.</p>				

### 2. Activities and deliverables

1.1	Coordination of the project		Starting month	10-2019	Ending month	06-2022
	Type of activities	Managing administrative and financial issues	Target group			



	Description	<p>Project management and coordination of activities</p> <p>The management structure is established with the following bodies:</p> <ul style="list-style-type: none"> <li>•SC, the decision making body, on regarding scientific and technical activities, finances, priorities, monitoring risk evaluation and remediation actions, consisting of PM, FM, CM, at least one representing for each PP and the coordinators of WP and chaired by the LP Project Scientific Coordinator. In case of particular strategical issues, the AP may be invited to participate in the SC meetings</li> <li>•TC represented by all PP, it oversees financial implementation of the project, regarding all administrative and financial matters.</li> </ul> <p>The LP represents the entire partnership and acts as the only direct contact with the MA/JS.</p>
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Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
1.1.1	kickoff meeting and minutes	Meeting	1 Unit produced	12-2019	70,000.00 €
	Description	Organization of KOM, preparation of relative documents and minutes			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
1.1.2	Steering Committee Rules of Procedure and management plan	Method	1 Unit produced	01-2020	20,000.00 €
	Description	The SC define common rules of Procedure to establish the decision-making process and partner responsibilities, with the MT define, and update a detailed work plan. The SC and MT define the need of changing and strategic adjustments.			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
1.1.3	SC and TC meeting (included webmeeting) and minutes	Meeting	5 Unit produced	06-2020 12-2020 06-2021 12-2021 06-2022	50,000.00 €
	Description	SC and TC Meetings will be organized regularly and meetings will be produced made available on the project toolbox for internal communication and document sharing			

1.2	Day-to-day project management, and administrative and financial coordination		Starting month	10-2019	Ending month	06-2022
	Type of activities	Managing administrative and financial issues	Target group			

	Description	<p>The LP and MT will define and ensure a common methodology for the administrative and financial procedures. The methodology, approved by SC, will be shared with all PP.</p> <p>The MT will provide advice and coordinate the delivery by all PP of progress reports according to the reporting period. A Regular quality checks on partner inputs to monitor the progress of project activity and expenditure submitted the matching between costs declared and claimed and requests of potential modifications.</p> <p>Each PP will be involved in the achievement of deliverables and report the technical project advance to the LP.</p>
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Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
1.2.1	PP meeting (included webmeeting) for financial and administrative support and minutes	Meeting	6 Unit produced	12-2019 06-2020 12-2020 06-2021 12-2021 06-2022	45,000.00 €
	Description	Partnership meetings for financial and administrative issues. Meetings are scheduled but can be increased and/or anticipated if particular problems should emerge, also with a single PP. Minutes meetings will be produced and shared			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
1.2.2	Definition and development of common methodologies	Meeting	1 Unit produced	02-2020	30,000.00 €
	Description	Tailored internal quality management plan to define a common methodology and intervention logic on administrative and financial procedures, output and action; with also production of shared guideline.			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
1.2.3	Internal IT tool	Tool	1 Unit produced	02-2020	25,000.00 €
	Description	Shared IT tool, a working environment, to save documents, reports and keep track of comments and versions. Help desk on line to receive help on different issues. The tool will be implemented during all project life			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
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1.2.4	Progress report	Tool	6 Unit produced	02-2020 08-2020 02-2021 08-2021 02-2022 06-2022	75,000.00 €
	Description	Progress report as scheduled for each reporting period will be performed by each PP. LP is responsible for the project progress report, developed with the contribution of all PP, as well as of payment claim.			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
1.2.5	Validation of Expenditure	Tool	6 Unit produced	02-2020 08-2020 02-2021 08-2021 02-2022 06-2022	55,000.00 €
	Description	Controls of expenses by FLC according to the scheduled reporting periods. Each PP is responsible for their FLC procedure and certification			

1.3	Monitoring activity and evaluation of the project		Starting month	10-2019	Ending month	06-2022
	Type of activities	Evaluating the project	Target group			
	Description		During all lifetime of the project, there will be a constant monitoring of the project progress implementation of: the administrative and financial issues, deadlines matching for results and output, activities implemented and deliverables fulfilled. Monitoring reports, produced at least every 6 months, include a series of performance indicators for implementation progress, finances, identification of potential risks and problems, deviations and modifications and set up early corrective measure. The monitoring action will also evaluate impact on stakeholders. The results will be will be analysed and discussed with the SC and shared among the all PP.			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
1.3.1	Monitoring evaluation plan and risk evaluation	Method	1 Unit produced	03-2020	45,000.00 €
	Description	Definition, in accord with SC, of the evaluation methodology to monitor all project outcomes, to avoid or mitigate critical issue , risk and proposition of measures to address any gaps in implementation and finally evaluate impact on stakeholders			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
1.3.2	Monitoring evaluation report	Data	5 Unit produced	06-2020 12-2020 06-2021 12-2021 06-2022	45,000.00 €
	Description	Half-yearly monitoring reports summarizing the monitoring activity and the evaluation of the project progress.			

### 3. Main outputs

## 2 Project communication

### 1. Description of work package

Type of WP	Strategic			ST
WP number	Type of WP	Starting date	Ending date	Amount
2	Project communication	10-2019	06-2022	222,741.10 €
Partners				
Responsible partners	INTERMODAL TRANSPORT CLUSTER			
Participating partner	AIX-MARSEILLE UNIVERSITY			
	CSIC - Institute of Marine Sciences			
	Valenciaport Foundation for Research, Promotion and Commercial Studies of the Valencian region			
	INTERMODAL TRANSPORT CLUSTER			
	Portuguese Institute of Sea and Atmosphere, I. P.			
	LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography			
	National Institute of Biology			
	OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)			
	University of Malta			
	University of Montenegro - Institute for marine biology			
Description of the work package				
<p>The WPC provides a range of measure and strategy designed to inform, promote and disseminate project outcomes to different stakholder and kay actors. Marine ecosystems are exposed to the impact of a number of multiple stressors, resulting from multiple drivers, also acting in different area. A comprehensive assessment of the environmental impacts and its dissemination to key stakeholders is fundamental for a proper integrated management and planning of a marine area.</p> <p>The communication strategy aims to promote the SHAREMED project, objective and results to its stakeholder and to inform and actively engage key users in the project and its activities.</p> <p>An adaptive communication strategy is essential for continued active engagement with project partners, stakeholders and end-users. In the communication plan will be settled methods and tools to achieve the following key objectives: to inform and update project partners and external stakeholders and end-users on the latest news, events and results; to promote and raise awareness of the SHAREMED project, amongst external stakeholders and potential end-users and to maintain their interest.</p> <p>Target audiences has been identified, by first, considering uses of the Mediterranean Sea both as a natural resource and of the wide variety of commerce, industry and ecosystem services that it supports and comprise representatives from public, policy, industry, environmental conservation and scientific stakeholder groups.</p> <p>Communication strategy will be tailored toward individual or groups of stakeholder user groups and may be at the local, national or international level depending on the target audience and the communication method.</p> <p>The communication strategy will be evaluated and adjusted as the project progresses.</p> <p>A final event that involves expert, target groups kay actors will is foreseen to present the results achieved during the project’s lifetime.</p>				
Justification				

WP Communication is led by KIP, coordinated by the CM in collaboration with the Internal Communication Network ICN formed by a one representative for PP. All project partners is involved and lined up with project objectives and responsibilities. They will have a proactive involvement in WP activities, and to those connected, to achieve the communication goals. This will be possible also sharing of previous dissemination experiences of PP in their territories. The CM will establish tools, procedure, and best practice that keep the whole partnership aware, knowledgeable and involved with stakeholder and target groups.

The objective of the communication and dissemination strategy is to ensure a maximum impact of the findings, results and recommendations of the MED Horizontal project, so SHAREMED aims to monitor link, synergies and connection point with horizontal MED project to guarantees synergies and complementarity. Is foreseen the creation of working groups with project, dealing with the main issue of SHAREMED, to exchange of knowledge and best practice. The relevant horizontal project partner will be invited to joint events to create a transnational framework around the project issue. Communication tools will have to be used accordingly depending on the needs of the targeted audience (policy makers, local, regional authorities, NGOs, private sectors etc.) and each messages or communication activity must be clarified and targeted before using any particular channel for dissemination. The evaluation result of the monitoring of communication strategy will be shared and analyzed with the steering Committee also in order, in case of critical issues, to activate the necessary corrective measures.

## 2. Activities and deliverables

2.1	Coordinating the WP and setting up of common methodology		Starting month	10-2019	Ending month	06-2022
	Type of activities	Coordinating the WP	Target group		Local public authority Regional public authority National public authority Sectoral agency Interest groups including NGOs Higher education and research SME International organisation, EEIG	
	Description		At the beginning of the project, during the kick-off meeting, the CM and ICN will be nominated and approved by Steering Committee. Coordination activities include preparation of Communication strategy with detailed information about internal and external communication activities and strategy for management-related, process-related and result-related communication activities. There will be also a clear definition of indicator for the evaluation of communication objective and performance to be monitored during all lifetime of project. The communication plan will include the calendar, the target groups communication method, the use of social networks and the type of materials necessary for the communication and dissemination of the results			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
2.1.1	Communication strategy	Method	1 Unit produced	01-2020	15,000.00 €
	Description	The CM and ICN define the communication strategy with activities, timing and partners' responsibilities.			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
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2.1.2	ICN meetings	Method	6 Unit produced	12-2019 06-2020 12-2020 06-2021 12-2021 02-2022	15,000.00 €
	Description	ICN will meet regularly with web-conference to monitor and improve communication			

2.2	Delivering information		Starting month	10-2019	Ending month	06-2022
	Type of activities	Delivering information	Target group		Local public authority Regional public authority National public authority Sectoral agency Interest groups including NGOs Higher education and research SME International organisation, EEIG	
	Description		The project aims to inform and update project partners and external stakeholders and end-users on the latest news, events, objective and results  Project will regularly share progress regularly to all involved stakeholders and target groups. The project progress will be shared through the regular websites and social media update. Communication material, such as leaflet, booklet also in digital version to reduce paper consumption will be prepared to present project outputs during the foreseen meetings conference. In relation of specific events, there will be Press releases.			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
2.2.1	Communication material	Digital or written communication	2 Unit produced	12-2019 04-2022	35,000.00 €
	Description	Communication material will be prepared in English such as leaflet, booklet also in digital version to reduce paper consumption and to be disseminated on social networks and on the website			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
2.2.2	Press conference	Press conference	1 Unit produced	04-2022	10,000.00 €
	Description	In relation of specific events or achievement of important objectives, there will be Press releases, (Newspapers, TV, Radio etc.)			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
2.2.3	Update of website and social media	Digital or written communication	6 Unit produced	12-2019 06-2020 12-2020 06-2021 12-2021 04-2022	15,000.00 €
	Description	All the PP will contribute to regular and constant update of MED website content and social media, moreover information of the project will be published on PP institutional website			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
2.2.4	Poster	Digital or written communication	1 Unit produced	12-2019	5,000.00 €
	Description	The project poster with SHAREMED fundamental information, for each project partner's office, prepared following the program template			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
2.2.5	Promo widget	Digital or written communication	2 Unit produced	12-2019 04-2022	15,000.00 €
	Description	to raise awareness about SHAREMED some sustainable promotional goodies will be produced			

2.3	Contribution to Programme communication		Starting month	10-2019	Ending month	06-2022
	Type of activities	Contributing to Programme communication activities	Target group		Other	
	Description		Participation to the activities of the programme MED producing requested information and with participation at the programme meeting			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
2.3.1	Programme meeting	Meeting	3 Unit produced	01-2020 01-2022	20,000.00 €
	Description	Report of meeting			

2.4	Exchanging information	Starting month	10-2019	Ending month	06-2022
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	Type of activities	Exchanging information	Target group	Local public authority Regional public authority National public authority Sectoral agency Interest groups including NGOs Higher education and research SME International organisation, EEIG
	Description		A series of technical events for each of the participating country, targeting local policy makers, and resulting in a training on general concepts of hazard, project approach and tool are foreseen in WP5 and WP6. This activity will provide the communication support in term of organization, material and reports.	

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
2.4.1	Conference report	Public / political event	1 Unit produced	04-2022	20,000.00 €
	Description	Report of events foreseen in W5 and WP6			

2.5	Transferring of knowledge		Starting month	10-2019	Ending month	06-2022
	Type of activities	Transferring knowledge / know-how / expertise	Target group		Local public authority Regional public authority National public authority Sectoral agency Interest groups including NGOs Higher education and research SME International organisation, EEIG	
	Description					
			As settled in WP 5 a highly specialized school will be organized on "Addressing and assessing pollution and environmental threats in Mediterranean ". This activity will provide the communication support in term of organization, material and reports.			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
2.5.1	Transferring know how	Training course	1 Unit produced	03-2021	20,000.00 €
	Description	Report of events foreseen in WP5 and support to the event			

2.6	Collaborative network	Starting month	10-2019	Ending month	06-2022
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	Type of activities	Networking	Target group	Local public authority Regional public authority National public authority Sectoral agency Interest groups including NGOs Higher education and research SME International organisation, EEIG
	Description		The communication plan sets out a series of activities and methods: to promote and raise awareness of the project, objective and results amongst external stakeholders; to maintain their interest; to actively engage with a collaborative approach in the development of the project aims; to formalize a relevant number of actors in the objective of the project. The aims is to establish an innovative permanent dialogue and decision making process among national and regional public authorities and stakeholders to contribute to informed policy and decision making processes at national and transnational level on common challenges and opportunities in the Mediterranean Region (see for details WP6).	

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
2.6.1	Creation of a stable network of stakeholder	Collaborative network	1 Unit produced	06-2022	25,000.00 €
	Description		Stakeholder active engagement with a collaborative approach in the development of the project. The aims is to formalize a relevant number of actors in the main goals of ShareMED (WP 6 for details)		

2.7	Coordination with MED projects		Starting month	10-2019	Ending month	06-2022
	Type of activities	Coordinating with Horizontal and PANORAMED projects communication and capitalisation activities	Target group		Local public authority Regional public authority National public authority Sectoral agency Interest groups including NGOs Higher education and research SME International organisation, EEIG	
	Description		The activity aims to monitor link, synergies and connection point with horizontal MED project to guarantees synergies and complementarity. Is foreseen the creation of working groups with project, (i.e. CONFISF, AMARE, PLASTICBUSTER MPA, ACT4LITTER etc) dealing with the main issue of SHAREMED, to exchange of knowledge and best practice. The relevant horizontal project partner will be invited to joint events to create a transnational framework around the project issue and to the events foreseen in WP5 and WP6			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
2.7.1	Collecting data information	Provision of information and data	1 Unit produced	06-2022	25,000.00 €
	Description	Report on the result of the networking with horizontal MED project and dissemination of the results			

### 3. Main outputs

### 3 Studying

#### 1. Description of work package

Type of WP	Strategic			ST
WP number	Type of WP	Starting date	Ending date	Amount
3	Studying	10-2019	09-2021	550,762.95 €
Partners				
Responsible partners	National Institute of Biology			
Participating partner	AIX-MARSEILLE UNIVERSITY			
	LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography			
	National Institute of Biology			
	OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)			
	University of Malta			
	INTERMODAL TRANSPORT CLUSTER			
	Portuguese Institute of Sea and Atmosphere, I. P.			
	CSIC - Institute of Marine Sciences			
	University of Montenegro - Institute for marine biology			
Description of the work package				
<p>This WP explores the potentiality of a few promising techniques to improve the observing and assessing capabilities of physical and biological properties of marine systems, with the final aim of providing tools for a more rapid and accurate assessment of marine states and potential impact of environmental threats.</p> <p>WP activities include from one side studying the possibility to expand current observational capabilities towards the biological dimension, on the other side the use of satellite observations and modelling techniques in order to extrapolate in space-time and to frame in a larger space-time context the observations gathered at fixed points.</p> <p>Activities include combining expertise and experiences and undertaking joint efforts to: i) improve the quality of radar systems for measuring surface ocean currents; ii) implementation of novel approaches for detection of selected groups and species in benthic and pelagic ecosystems using both state-of-the-art visual observation and molecular methods (environmental DNA (eDNA) detection and DNA metabarcoding); iii) development of analysis to exploit new high resolution satellites products; iii) development of state of the art operational physical-biogeochemical forecast systems. Health of the Mediterranean Sea will also be screened from an ecotoxicological perspective.</p> <p>Different techniques will be studied in different pilot sites, depending on site-specific properties and state of the existing observing systems. Each activity is led by a responsible partner, and made with the contribution of several partners, as detailed in the activity description below.</p> <p>WP3 will capitalise on the results of many previous projects (including Copernicus program, Tara Ocean, and several INTERREG projects) and will provide input to WP4 and WP6, where the technological maturity of WP3 methods will be assessed and, at least in the modelling case, tested.</p>				
Justification				

New technologies will offer possibilities of massively improving our current observation and assessing capabilities, with important implication on our capabilities to assess and address environmental threats, but currently they are not yet operationally implemented in monitoring systems.

To name a few examples: satellite data already provide the possibility for almost real time monitoring of a few properties related to important physical and biogeochemical variables and represents an essential observational tool to address the spatial features of environmental hazards, but the recent availability of high resolution multi-hyper spectra products will increase enormously the possibility to get more detailed, accurate, and reliable estimate of biological parameters, also in coastal zone; radar systems might provide in almost real time a synoptic assessment of surface ocean currents, but they still are not frequently implemented and used; novel genetic based approaches -such as metabarcoding and eDNA- are transforming our understanding and appreciation for marine biodiversity and the significance for ocean ecosystem function, but many technical and conceptual challenges for analysis and interpretation of such new studies remain. Research is needed to improve, evaluate, standardise and compare those methodologies and to make them ready for operational use. On the other hand, modelling represents a perfect way to interpolate in space and time the observations, and constitutes the backbone of short-term forecast systems for early warning detection of anomalous events and their potential impacts. Furthermore, implementation of coupled biogeochemical models with information on pollutants concentration and possibly ecotoxicological effects might provide an additional tool to monitor impact on the marine environment.

Also in these cases, however, studying is needed to further improve existing systems and for their applications in coastal areas.

## 2. Activities and deliverables

3.1	Developing a relocatable high resolution short-term forecasting system for the marine environment		Starting month	10-2019	Ending month	09-2020
	Type of activities	Providing tools, methods and services	Target group		Sectoral agency Higher education and research	
	Responsible partner		OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)			
	Participating partners		AIX-MARSEILLE UNIVERSITY			
			LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography			
			National Institute of Biology			
			OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)			
			University of Malta			
			INTERMODAL TRANSPORT CLUSTER			
			Portuguese Institute of Sea and Atmosphere, I. P.			
Location of the activities		Partners' countries				

	Description	<p>This task aims to streamline the implementation of a high resolution modelling system at the selected sites for short-term forecasts.</p> <p>The relocatable system will be based on the coupled physical-biogeochemical model MITgcm-BFM, and it will be initialized and forced by Copernicus Marine Environment Monitoring Service (CMEMS) and other available operational products (e.g., satellite, in-situ data). The package will be designed for expert users with an interface for downloading initial, boundary and forcing data and for model set up, once the user has selected a specific geographical domain.</p>
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Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
3.1.1	User manual of the relocatable system for high resolution simulations	Method	1 Unit produced	09-2020	50,000.00 €
	Description	Description of the physical-biogeochemical model, list of dependencies and forcing data, primer for production workflow and format of the output products.			

3.2	Enhance and expand monitoring capabilities of physical properties		Starting month	10-2019	Ending month	09-2021
	Type of activities	Providing tools, methods and services	Target group		Sectoral agency Higher education and research	
	Responsible partner		University of Malta			
	Participating partners		AIX-MARSEILLE UNIVERSITY			
			CSIC - Institute of Marine Sciences			
			INTERMODAL TRANSPORT CLUSTER			
			Portuguese Institute of Sea and Atmosphere, I. P.			
			LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography			
			National Institute of Biology			
			OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)			
Location of the activities		Partners' countries				

	Description	<p>Partner HF radar systems are a major Mediterranean effort to monitor sea surface 2D currents &amp; waves. SHAREMED brings them together for a regional HF radar network combining expertise, experiences and joint efforts to: (i) improve data quality, (ii) use a common data platform, and (iii) deliver useful products to users.</p> <p>Major results:</p> <ul style="list-style-type: none"> <li>- an operational combined data delivery system using different communication media and serving a range of users such as ship masters on ECDIS for safer navigation, data assimilation for improved numerical models, etc.;</li> <li>- added value products in the form of routine information layers through merged data sets such as for meteo-marine risk alerts, circulation connectivity patterns, environmental indices.</li> </ul>
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Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
3.2.1	Integrated data service for partner HF radar systems	Tool	1 Unit produced	03-2021	75,000.00 €
	Description	Integrated data service managing, combining and presenting data (historical and real time) from the partner HF radar systems with a common web interface including data mining, visualisation, and access from a common portal.			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
3.2.2	Operational HF radar added value products	Tool	4 Unit produced	09-2021	80,000.00 €
	Description	Production and operational publishing of HF radar derived added value products targeting the needs of users and merging HF radar data to other data sources such as Earth Observations and numerical models.			

3.3	Enhance and expand monitoring capabilities of biological properties		Starting month	10-2019	Ending month	12-2020
	Type of activities	Studying field	Target group		Sectoral agency Higher education and research	
	Responsible partner		National Institute of Biology			
	Participating partners		AIX-MARSEILLE UNIVERSITY			
			CSIC - Institute of Marine Sciences			
			INTERMODAL TRANSPORT CLUSTER			
			Portuguese Institute of Sea and Atmosphere, I. P.			
		LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography				

		OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	
		University of Montenegro - Institute for marine biology	
	Location of the activities		Partners' countries
	Description		<p>The activity explores the potential of several promising techniques aimed at improving observations and assessments of the status of marine biological properties.</p> <p>It focuses on:</p> <ul style="list-style-type: none"> <li>- molecular methods (metabarcoding, eDNA) for monitoring target groups in water column, sediment, hard substrate, in parallel with traditional methods and high-frequency acquisition captures (flow cytometry, camera);</li> <li>- visual observations, sampling techniques (time-lapse video systems, video-laser counters, semi/automatic picture analysis, underwater SfM 3D reconstruction, drones, buoys and new generation of AUV);</li> <li>- ecotoxicology of traditional and emerging contaminants, impact and bioaccumulation on trophic webs and potential impact on human health.</li> </ul>

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
3.3.1	Molecular methods to monitor selected groups and species	Report	1 Unit produced	12-2020	120,000.00 €
	Description	This deliverable will present a selection of best-suited molecular practices for monitoring selected organisms (pathogens, NIS/IAS, harmful algae, rare and other important species) together with optimization of protocols.			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
3.3.2	Visual observation and sampling techniques and data processing	Report	1 Unit produced	12-2020	50,000.00 €
	Description	Different novel visual observation and sampling techniques will be overviewed and best suited will be selected for their use in benthic and pelagic ecosystems in coastal and open waters. Protocols will be prepared for these techniques.			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
3.3.3	Ecotoxicology of contaminants in sea water, their pathways through ecosystems and effects on marine biota and human health	Report	1 Unit produced	12-2020	65,000.00 €
	Description	An overview of traditional and emerging contaminants will be prepared along with their ecotoxicological effects on marine biota and environment. Literature will be screened for selection of state-of-the-art methods for ecotoxicological assessment.			

3.4	Enhance and expand capabilities to use satellite observations		Starting month	10-2019	Ending month	03-2021
	Type of activities	Studying field	Target group		Sectoral agency Higher education and research	



	Responsible partner	LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography	
	Participating partners	AIX-MARSEILLE UNIVERSITY	
		CSIC - Institute of Marine Sciences	
		National Institute of Biology	
		OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	
		University of Malta	
	Location of the activities	Partners' countries	
Description	Implementation of full resolution satellite Ocean Colour products (e.g., chlorophyll-a, total suspended matter, sea surface temperature, etc) for monitoring environmental status of Mediterranean sub-basins at local and regional scales, through development and implementation of indicators related to water quality and phytoplankton characteristics. Statistical analyses will allow for capturing anthropogenic and climatic pressures, and recognizing variations in the annual cycle by identification of seasonal, irregular and trend-cycle terms. Satellites products will constitute also inputs for transport models to investigate potential impacts of pollutants (WP4) and for detecting favourable conditions for harmful algal blooms (A3.1, A4.1, A5.3).		

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
3.4.1	Satellite Ocean Colour products for monitoring and assessing environmental risks	Report	1 Unit produced	03-2021	95,000.00 €
	Description	Description of the satellite products, including the report on calibration and validation, based on the available in situ data set. Detailed reporting of the main status of specific coastal areas, based on the statistical analyses.			

### 3. Main outputs

## 4 Testing

### 1. Description of work package

Type of WP	Strategic			ST
WP number	Type of WP	Starting date	Ending date	Amount
4	Testing	10-2019	06-2022	1,186,797.30 €
Partners				
Responsible partners	CSIC - Institute of Marine Sciences			
Participating partner	OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)			
	AIX-MARSEILLE UNIVERSITY			
	CSIC - Institute of Marine Sciences			
	Valenciaport Foundation for Research, Promotion and Commercial Studies of the Valencian region			
	INTERMODAL TRANSPORT CLUSTER			
	Portuguese Institute of Sea and Atmosphere, I. P.			
	LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography			
	National Institute of Biology			
	University of Malta			
University of Montenegro - Institute for marine biology				
Description of the work package				
<p>The potential of project approach in enhancing evaluation capabilities and supporting governance framework will be tested and demonstrated in selected transnational areas in which there are different concentrations of observation capabilities, and that are representative of different physical conditions present in the Med. In particular, beside the Mediterranean as a whole (MED) we will consider as case studies: the Northwest Med (NWM), the North Adriatic (NA), and the Sicily Channel (SC).</p> <p>Each site will implement a common procedure to:</p> <ul style="list-style-type: none"><li>- define the state of the art and identify existing and/or potential regional strategies;</li><li>- develop and implement a framework for cooperation and sharing of existing data and knowledge, integration of results of existing observing capabilities, joint assessment of environmental risk related hazards, set up of a dedicated web-portal for visualisation of assessment on environmental state and other results.</li></ul> <p>Enhancement of observation/assessing capabilities will also be tested by actual implementation and testing of the activities studied in wp3 that will produce results mature enough.</p> <p>In the following, the activity is described along methodological cross-sites tasks, in order to stress similarities, favour exchange of information, and facilitate intercomparison, but (when appropriate) it will be actually subdivided and organized in site specific subtasks (matrix site vs activity). All activities within each site will be tracked and coordinated by a person (site-champion).</p> <p>Partner participants to each specific subtasks referring to NA case are: OGS (lead), NIB, KIP, UOM, LaMMA; to SC : UoM (lead), OGS, LaMMA; to NWM : AMU (lead), CSIC, LaMMA. All partners contribute to activities at the Mediterranean basin scale.</p> <p>WP4 activities capitalise on previous projects results (e.g., Copernicus, EMODnet, HarmoNIA and on WP3 results, and will provide input for WP5 (transferring) and WP6 (capitalisation)).</p>				
Justification				

A successful implementation of a cooperative framework to share knowledge, data and observing capabilities will require the capability to consider site specificities of each region.

In fact, different regions present different amount of previous information, different density of pre-existing observation infrastructures, different complexity in the governance frameworks, different presence of environmental threats, as well as different physical and ecological properties. Because of this, while most of the activities on data harmonization and background information are performed at the Mediterranean level, the project gives large emphasis also to test the actual implementation of the proposed approaches in specific cases, and aims to showcase examples of regional cooperation as initial concrete elements of future permanent systems.

The intercomparison of applications and the discussion on results at the Mediterranean level will contribute to identification of gaps and possible roadmap for their solutions, updating maps for state and indicators and services, and guidelines useful for all Mediterranean area.

The NA case includes water that are under Italian, Slovenia and Croatian countries. It is a shallow and rather productive area, characterized by a mainly counter-clockwise circulation that connects inputs and spread potential impacts occurring along the coast of different countries or entering the system from the southern board, along Montenegro Coast.

The NWM case covers a much larger and deeper area including Italian, French and Spanish coasts, and offshore international waters. Like the NA is a productive area hosting a valuable and already well studied ecosystem.

The SC case covers an area between Malta and Sicily. It hosts a valuable and productive ecosystem too, and it is characterised by being an open area with strong currents and fast water exchanges with its surroundings.

In all 3 case studies, there are already national observing infrastructures.

## 2. Activities and deliverables

4.1	Background information and identification of regional strategies for each case study site		Starting month	10-2019	Ending month	03-2020
	Type of activities	Exchanging information	Target group		Local public authority Regional public authority National public authority Sectoral agency Interest groups including NGOs Higher education and research SME International organisation, EEIG	
	Responsible partner		OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)			
	Participating partners		OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)			
	Location of the activities		Partners' countries			

	Description	<p>In order to gather information on stakeholder views on potential environmental threats and region-specific observational gaps and priorities, and to collect information needed to address specific needs, SHAREMED will:</p> <ul style="list-style-type: none"> <li>- Organise stakeholder workshops in each case study to facilitate discussion and sharing of common views, also using DPSIR and SWOT frameworks and considering ecosystem services;</li> <li>- Upon need, organise bilateral meetings to facilitate collaboration with target authorities;</li> <li>- Prepare and distribute a questionnaire to stimulate stakeholders involvement, identify specific needs and evaluate data and information availability.</li> </ul> <p>All partners will contribute to stakeholder engagement. The activity rely also on Capit. Group and A6.1.</p>
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Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
4.1.1	Stakeholder inventory	Technical event	1 Unit produced	12-2019	30,000.00 €
	Description	Each partner will identify relevant stakeholders to be engaged and propose the most efficient approach for engagement.			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
4.1.2	Stakeholder questionnaire	Technical event	1 Unit produced	01-2020	30,000.00 €
	Description	To stimulate active involvement of stakeholders, a questionnaire will be prepared and distributed to identify specific needs and to evaluate data and information availability.			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
4.1.3	Stakeholder workshop in case study sites	Technical event	3 Unit produced	02-2020	50,000.00 €
	Description	In each CS site a stakeholder workshop will be organized during the first 6 months to gather information on potential environmental threats, on region-specific observational gaps and priorities, and to collect information needed by SHAREMED.			

4.2	Implementation of a cooperation framework to share data and information	Starting month	10-2019	Ending month	09-2021
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	Type of activities	Evaluating processes, techniques, models, tools, methods and services	Target group	Local public authority Regional public authority National public authority Sectoral agency Interest groups including NGOs Higher education and research SME International organisation, EEIG
	Responsible partner		OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	
	Participating partners		AIX-MARSEILLE UNIVERSITY	
			CSIC - Institute of Marine Sciences	
			Valenciaport Foundation for Research, Promotion and Commercial Studies of the Valencian region	
			INTERMODAL TRANSPORT CLUSTER	
			Portuguese Institute of Sea and Atmosphere, I. P.	
			LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography	
			National Institute of Biology	
			OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	
			University of Malta	
			University of Montenegro - Institute for marine biology	
Location of the activities		Partners' countries		
Description		A cooperation framework for data management and accessibility will be defined, taking into consideration major and consolidated existing systems (eg. SeaDataNet, EMODnet, Copernicus, OBIS). EMODnet approach will be adopted to integrate, harmonize and share data to fill previously identified gaps. Synergies with other existing geo-spatial data platforms will be established. Data and information mobilised by partners and stakeholders will be collected and harmonised according to standards developed within several EU initiatives. This activity will support modelling and implementation of the shared Atlas of ecosystem status, pressure and hazards (A4.3).		

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
4.2.1	Definition of a cooperation framework for data and information sharing	Report	1 Unit produced	09-2020	40,000.00 €
	Description	An inventory of data made available within the project and the evaluation of suitable management and sharing systems will be achieved and the adoption of standard EMODnet protocols will be promoted to collect, format and harmonise new data.			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
4.2.2	Harmonised geo-spatial information for the case study areas	Report	3 Unit produced	09-2021	110,000.00 €
	Description	Information on ecosystem status and pressures (chemical, physical and biological) will be collected and delivered for the implementation of the Atlas.			

4.3	Production of the Atlas of ecosystem status, pressures and environmental hazard index		Starting month	03-2021	Ending month	01-2022
	Type of activities	Evaluating processes, techniques, models, tools, methods and services	Target group		Local public authority Regional public authority National public authority Sectoral agency Interest groups including NGOs Higher education and research SME International organisation, EEIG	
	Responsible partner		OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)			
	Participating partners		AIX-MARSEILLE UNIVERSITY			
			CSIC - Institute of Marine Sciences			
			Valenciaport Foundation for Research, Promotion and Commercial Studies of the Valencian region			
			INTERMODAL TRANSPORT CLUSTER			
Portuguese Institute of Sea and Atmosphere, I. P.						
		LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography				
		National Institute of Biology				

		OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	
		University of Malta	
	Location of the activities	Partners' countries	
	Description	<p>An Atlas will be jointly produced, containing specific and cumulative hazard maps integrating existing and new knowledge and providing examples to showcase products involving selected threats in each CS that can be traced back to user requirement.</p> <p>The Atlas will address ecosystem status, pressures and environmental hazard index using information gathered in 4.1, 4.2, 4.4, 4.5, 4.6. Layers will include model outputs, such as pollution connectivity matrices and climate projections.</p> <p>Management units will be identified by (sub)regionalisation of the domain, based on 1) the spatial influence of the impacts of pollution hot-spots; 2) physical, biogeochemical and ecological properties, and 3) the design of possible observing network.</p>	

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
4.3.1	Atlas of ecosystem status, pressures and environmental hazard index	Report	1 Unit produced	09-2021	120,000.00 €
	Description	<p>Collection of layers of environmental status, and pressures. Identification of hazard targets and hazard assessment methods. Production of hazard layers at the different scales of each CS, i.e., MED (global), and regional (NA, NWM, SC).</p>			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
4.3.2	Identification of management units	Report	1 Unit produced	01-2022	50,000.00 €
	Description	<p>Management units will be identified by (sub)regionalisation of the domain (MED, NA, NWM, SC) integrating hazard index layers and information on physical and ecological properties.</p>			

4.4	Integration, consolidation and improvement of joint observation capabilities		Starting month	10-2019	Ending month	06-2022
	Type of activities	Evaluating processes, techniques, models, tools, methods and services	Target group		Local public authority Regional public authority National public authority Sectoral agency Interest groups including NGOs Higher education and research SME International organisation, EEIG	
	Responsible partner				AIX-MARSEILLE UNIVERSITY	

	Participating partners	AIX-MARSEILLE UNIVERSITY	
		CSIC - Institute of Marine Sciences	
		Valenciaport Foundation for Research, Promotion and Commercial Studies of the Valencian region	
		INTERMODAL TRANSPORT CLUSTER	
		Portuguese Institute of Sea and Atmosphere, I. P.	
		LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography	
		National Institute of Biology	
		OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	
		University of Malta	
		University of Montenegro - Institute for marine biology	
	Location of the activities	Partners' countries	
	Description	<p>For each of the cases studies NA (led by OGS), NMW (led by AMU), SC (led by UoM) and MED (all partners) this activity will:</p> <ul style="list-style-type: none"> <li>- promote cooperation through the integration and enhancing of existing observing capabilities and the development of a framework for sharing data provided by transnational coastal and off-shore observing systems;</li> <li>- design and actual implementation for a common single web portal for each pilot site to collect data and information and provide a real-time visualisation of present status of a transnational site, as derived from joint observation and evaluation.</li> </ul>	

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
4.4.1	Common portals for the transnational pilot sites	Report	3 Unit produced	01-2022	210,000.00 €
	Description	One web portal for each of the case study (NA; NWM, SC) for visualisation of marine status, as derived from joint observation.			
4.5	Actual implementation of trans-national short-term forecasting systems	Starting month	06-2020	Ending month	03-2021



	Type of activities	Evaluating processes, techniques, models, tools, methods and services	Target group	Local public authority Regional public authority National public authority Sectoral agency Interest groups including NGOs Higher education and research SME International organisation, EEIG
	Responsible partner		OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	
	Participating partners		AIX-MARSEILLE UNIVERSITY	
			INTERMODAL TRANSPORT CLUSTER	
			LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography	
			National Institute of Biology	
			OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	
			University of Malta	
	Location of the activities		Partners' countries	
	Description		The relocatable system developed in A3.1 is tested in the NA and SC sites. The pilot suite provides the necessary configuration of the system. The identification and preparation of specific datasets (river discharges, atmospheric forcing, and observations for model validation following the CMEMS protocols) complete the pre-operational phase. The task includes the analysis of the requested computational resources, the implementation of the simulations and the publication of the outputs in a dedicated webpage. For each site, weekly/daily forecasts will be produced along with quality assessment of the products. Computational resources will be secured by OGS and UoM. Activities will use also results from satellite A3.4.	

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
4.5.1	Implementation of the relocatable short-term forecasting system to study sites	Report	1 Unit produced	03-2021	180,000.00 €
	Description	Description of the two study sites and implementation of the relocatable modelling system; quality assessment of the products for the major physical and biogeochemical variables following the CMEMS standard.			
4.6	Connectivity and pollutant transport	Starting month	04-2020	Ending month	09-2021

	Type of activities	Evaluating processes, techniques, models, tools, methods and services	Target group	Local public authority Regional public authority National public authority Sectoral agency Interest groups including NGOs Higher education and research SME International organisation, EEIG
	Responsible partner		LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography	
	Participating partners		CSIC - Institute of Marine Sciences	
			OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	
			University of Malta	
	Location of the activities		Partners' countries	
	Description		The activity will assess connectivity between coastal segments, target areas, and selected point-sources of pollutant in, at least, 2 CS, chosen by considering results from A4.1. Lagrangian simulations and quantitative indicators for transport, dispersion, and retention of floating and sedimentary material will be designed and provided, considering also pollutants dynamic. The activity will also implement a model (successfully tested in the PlasticBusters MPA project) for the prediction of areas with higher or lower concentration of floating marine debris. Products will be available as operational service and will run as a Copernicus-like downstream service in WP6. The activity will use results from Activity A3.4.	

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
4.6.1	Implementation of Lagrangian methods for pollutant transport and connectivity	Report	1 Unit produced	09-2020	25,000.00 €
	Description	Description and implementation of a shared methodology for pollutant dispersion from point and diffuse sources, eventually to support emergency management activities, and to assess connectivity among marine areas, also in its seasonal variability.			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
4.6.2	Lagrangian simulations and computation of indicators for transport, dispersion and retention	Report	2 Unit produced	09-2021	45,000.00 €
	Description	Realization of Lagrangian simulations, assessment of connectivity and computation of the dispersion, transport and retention indicators on at least two pilot sites. This activity will also provide the data necessary for the mapping activity (A4.3).			

4.7	Testing of and assessing potentiality and RTL of new technologies studied WP3		Starting month	12-2020	Ending month	12-2021
	Type of activities	Evaluating processes, techniques, models, tools, methods and services	Target group		Local public authority Regional public authority National public authority Sectoral agency Interest groups including NGOs Higher education and research SME International organisation, EEIG	
	Responsible partner		National Institute of Biology			
	Participating partners		AIX-MARSEILLE UNIVERSITY			
			CSIC - Institute of Marine Sciences			
			LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography			
			National Institute of Biology			
			OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)			
			University of Malta			
Location of the activities		Partners' countries				
Description		Some of the most promising new methodologies identified in A3.3 will be tested in the pilot sites. The action will be planned and executed in a coordinated way for the whole pilot site and, where feasible, also between sites. With this action, knowledge and experience on new technologies will be gained and shared among participants. Based on this results conclusions of the A3.3 on the selection of the most promising new methodologies could be reconsidered.				

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
4.7.1	Assessment of readiness of technological levels of methodologies explored in WP3	Report	1 Unit produced	12-2021	45,000.00 €
	Description	A report will summarise the results of the study and/or testing of novel methodologies tested in WP3, and provide an assessment of their maturity for the use in future observing system.			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
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4.7.2	Testing of selected molecular methods to monitor targeted (harmful, threatened, or ecological indicators) marine organisms selected groups or species	Report	1 Unit produced	12-2021	80,000.00 €
	Description	Some of the selected molecular methods to monitor selected target groups of organisms in A3.3 will be applied in the pilot sites and the results will be compared to other traditional methods used.			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
4.7.3	Testing of selected visual observation techniques and analyses	Report	1 Unit produced	12-2021	55,000.00 €
	Description	Some of the selected observation techniques and analyses in A3.3 will be applied in the pilot sites and the results will be compared to other traditional methods used.			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
4.7.4	Testing of the presence and effects of emerging contaminants	Report	1 Unit produced	12-2021	50,000.00 €
	Description	In the pilot sites the assessment of some emerging contaminants will be done based on the input from A3.3.			

### 3. Main outputs

Main project output	Description	Quantity	Ending month	Output indicator
Output 4.1	Implementation of common transnational portals	9 Organisations	01-2022	Number of stakeholders (structures) involved in supported initiatives (per category representing public and private stakeholders)
Output 4.2	Implementation of shared database and jointly produced Atlas	25 Organisations	01-2022	Number of stakeholders (structures) involved in supported initiatives (per category representing public and private stakeholders)

Output 4.3	Implementation of coastal high resolution transnational forecast systems	The implementation of transnational forecast systems (4.5 and 5.4) requires the close collaboration of different organisations to exchange information data and expertise and suggests the possibility for transnational forecast systems fed by transnational observing systems. We expect that such a cooperative effort will involve no less than 10 organisations, including partner, AP and others.	10 Organisations	01-2022	Number of stakeholders (structures) involved in supported initiatives (per category representing public and private stakeholders)
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## 5 Transferring

### 1. Description of work package

Type of WP	Strategic			ST
WP number	Type of WP	Starting date	Ending date	Amount
5	Transferring	09-2020	06-2022	273,992.40 €
Partners				
Responsible partners	Portuguese Institute of Sea and Atmosphere, I. P.			
Participating partner	AIX-MARSEILLE UNIVERSITY			
	CSIC - Institute of Marine Sciences			
	LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography			
	OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)			
	Portuguese Institute of Sea and Atmosphere, I. P.			
	University of Malta			
	Valenciaport Foundation for Research, Promotion and Commercial Studies of the Valencian region			
	INTERMODAL TRANSPORT CLUSTER			
	National Institute of Biology			
	University of Montenegro - Institute for marine biology			
Description of the work package				
<p>In this WP we will support transferring of tools, knowledge, and procedures developed and implemented in WP3 and WP4.</p> <p>We will organise schools, on "tools, data bases and knowledge to address and assess pollution and environmental threats in Mediterranean water". The first school will be organised in Portugal by IPMA approximately at M19 and will cover also approaches and results studied and tested in WP3 and WP4. We will promote and favour the participation of project partner and regional authorities from all countries in the Med area by offering partial/total fellowships towards travelling and stay costs.</p> <p>Furthermore, we will organise national technical events in each of the participating country, targeting local policy makers, and resulting in a training on general concepts of hazards, project approaches and tools. In each meeting, it is foreseen the participation of at least 4 policy makers at local, regional, and national level (equivalent to training no less than 50 persons in the Med area).</p> <p>Additionally we will organise a workshop specifically targeted to transfer tools and results of the project towards southern coast of the Mediterranean, possibly jointly organised with Union for Mediterranean, UfM, and the 5+5 Dialog, to be held in Malta and we will include specific lessons on the Advanced Master in Sustainable Blue Growth and the Summer School on Sustainable Blue Economy, jointly organised by OGS and other partners and to be held tentatively in Trieste in summer 2021. We will present the project results in the context of EU initiatives (e.g. BLUEMED; WESTMED; EUSAIR and similar), in collaboration with WP2 and WP6.</p> <p>Finally, we will implement the tested relocatable system in the third case study and, possibly, a fourth area. The transferring of other project results developed in WP3 and WP4 is described within WP6, since it is a contribution to capitalisation, too.</p>				
Justification				

One of the main objectives of the project is to share methods and tools for addressing environmental threats in the Mediterranean sea. Transferability of the approach will be achieved by showcasing SHAREMED vision and results in all the programme area, also beyond the partnership and possibly also considering countries along the southern coast of the Mediterranean, since they also impact on mediterranean waters and are impacted by mediterranean environmental threats. We will organize national events in all partner countries, targeting organizations that are involved in observation, assessment and governance of environmental threats at the local, regional and national level. A broader audience will be reached through the organisation of summer schools and specific lessons within existing schools already organised by other, and participation to workshops and EU promoted initiative, in close cooperation with the capitalisation activity of WP6.

Transferability also refers to the possibility to transfer tested processes, models and tools in new areas. WP5 will therefore include also a specific activity to validate the portability of the already tested relocatable system in new areas, so completing the studying/testing/transferring chain and showcasing its transferability. On demand access to this and other project results and services is an important component of the project capitalisation, and will be presented in WP6.

## 2. Activities and deliverables

5.1	Transfer of the relocatable short term forecasting system to other study sites		Starting month	12-2020	Ending month	09-2021
	Type of activities	Transferring tested processes, techniques, models, tools, methods and services	Target group		Sectoral agency Higher education and research	
	Responsible partner		OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)			
	Participating partners		AIX-MARSEILLE UNIVERSITY			
			CSIC - Institute of Marine Sciences			
			LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography			
			OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)			
	Location of the activities		Partners' countries			
Description		The relocatable pilot system developed in A3.1 and implemented in A4.4 will be transferred and applied to other study sites (e.g., NWM and, possibly, a fourth area, to be identified during the project, as described in WP6).  The portability of the system will be checked and a further testing/validation process in pre-operational configuration will be carried out considering both the physical and biogeochemical properties of the specific marine environment.  Local and site-specific datasets will be integrated in the model for either forcing it or validating its results. Computational resources for the NWM will be secured by AMU and LaMMA.				

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
5.1.1	Transfer of the relocatable short term forecasting system to other study sites	Method	1 Unit produced	09-2021	100,000.00 €

	Description		Description of the new study site and adaptation of the relocatable modelling system to the new environment; quality assessment of the products for the major physical and biogeochemical variables following the CMEMS standard.			
5.2	First school on "Addressing and assessing pollution and environmental threats in Mediterranean"		Starting month	12-2020	Ending month	03-2022
	Type of activities	Transferring knowledge / know-how / expertise	Target group		Local public authority Regional public authority National public authority Sectoral agency Interest groups including NGOs Higher education and research SME International organisation, EEIG	
	Responsible partner		Portuguese Institute of Sea and Atmosphere, I. P.			
	Participating partners		AIX-MARSEILLE UNIVERSITY			
			CSIC - Institute of Marine Sciences			
			Portuguese Institute of Sea and Atmosphere, I. P.			
			LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography			
			OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)			
			University of Malta			
	Location of the activities		Partners' countries			
	Description		A school on "tools, data bases and knowledge to address and assess pollution and environmental threats in Mediterranean water" will be organised in Portugal by IPMA at M19.  The school will present major concept on environmental threats and related impact on mediterranean marine ecosystem and selected approaches to hazard assessment and risk analysis. The lessons will be given by experts from partners institutes, associate partners, and, possibly, a few well known external experts. Participation of project partners and regional authorities from all Med area will be favoured by offering partial/total fellowships towards travelling and stay costs (covered by organiser). Lessons in schools organised by others will be given too.			
Deliverable number	Deliverable title		Type of deliverable	Target value	Finalisation month	Indicative budget



5.2.1	Report on the first SHAREMED school	Training course	1 Unit produced	05-2021	50,000.00 €
	Description	The report includes a list of participants, agenda of the school and a short description of the lessons content.			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
5.2.2	Report on lessons given in schools organised by others	Training course	1 Unit produced	03-2022	15,000.00 €
	Description	The report includes a list of at least 4 lessons given in schools and workshops organised by others or co-organised, with an indication on the number of attendees, possibly of the number of structures involved, a short description of school contents.			

5.3	Organization of national training events and international workshops		Starting month	09-2020	Ending month	06-2022
	Type of activities	Transferring knowledge / know-how / expertise	Target group		Local public authority Regional public authority National public authority Sectoral agency Interest groups including NGOs Higher education and research SME International organisation, EEIG	
	Responsible partner		University of Montenegro - Institute for marine biology			
	Participating partners		AIX-MARSEILLE UNIVERSITY			
			CSIC - Institute of Marine Sciences			
			Valenciaport Foundation for Research, Promotion and Commercial Studies of the Valencian region			
			INTERMODAL TRANSPORT CLUSTER			
Portuguese Institute of Sea and Atmosphere, I. P.						
		LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography				
		National Institute of Biology				
		OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)				

		University of Malta	
		University of Montenegro - Institute for marine biology	
	Location of the activities	Partners' countries	
	Description	<p>Organisation of two technical events for each of the participating countries, targeting local and national policy makers and organisations involved in observing and assessing environmental threats, and resulting in a training on general concepts of hazard, project approach and tool. In each meeting, it is foreseen the participation of at least 4 policy makers at local, regional, and national level.</p> <p>Participation and organisation of workshops also targeting stakeholders from non partner members.</p> <p>Events will be organised (two each, around M18 and M30) by IPMA, CSIC, AMU, LaMMA, NIB, KIP, UOM, UoM.</p>	

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
5.3.1	Organisation of national technical events (first round)	Tailored event	16 Unit produced	03-2021	40,000.00 €
	Description	<p>The report describes the results of the national technical events organised in each of the partner countries.</p> <p>The report will include the number of participants and participant structures, as well as a description of major results from the meeting.</p>			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
5.3.2	Organisation of national technical events (second round)	Tailored event	16 Unit produced	03-2022	40,000.00 €
	Description	<p>The report describes the results of the national technical events organised in each of the partner countries.</p> <p>The report will include the number of participants and participant structures, as well as a description of major results from the meeting.</p>			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
5.3.3	Participation to workshops and events beyond partner countries	Training course	3 Unit produced	09-2021	15,000.00 €
	Description	<p>Workshop co-organised with other Med initiatives (e.g. UfM, Med7, BlueMed GSO) to build synergies with south eastern Med countries and link with existing activities through application of project deliverables and co-design governance frameworks.</p>			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
5.3.4	International workshop for non-EU countries	Training course	1 Unit produced	05-2021	10,000.00 €

	Description	Workshop co-organised with other Med initiatives (esp UfM, Med7, BlueMed GSO) to build synergies with south eastern Med countries and link with existing activities through application of project deliverables and co-design governance frameworks.
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### 3. Main outputs

Main project output	Description	Quantity	Ending month	Output indicator
Output 5.1	International workshop for non-EU countries	5 Organisations	05-2021	Number of stakeholders (structures) involved in supported initiatives (per category representing public and private stakeholders)
	The direct involvement of non-partner entities at international, regional and national levels is sought from the very early stages of the project. At a more mature stage, the project will seek a focussed approach to the non-EU Mediterranean countries to: promote the project and showcase its targets; broaden acceptance and consensus of targets and action plans; further align the project deliverables to the needs beyond those of the project partner countries; extend collaborations. The workshop will be organised in collaboration with other international initiatives and relevant organisations, such as the Union for the Mediterranean, the EC BlueMed Group of Senior Officials (GSO) Board, and the MED7 initiative.			

## 6 Capitalising

### 1. Description of work package

Type of WP	Strategic			ST
WP number	Type of WP	Starting date	Ending date	Amount
6	Capitalising	10-2019	06-2022	341,246.50 €
Partners				
Responsible partners	University of Malta			
Participating partner	AIX-MARSEILLE UNIVERSITY			
	CSIC - Institute of Marine Sciences			
	Valenciaport Foundation for Research, Promotion and Commercial Studies of the Valencian region			
	INTERMODAL TRANSPORT CLUSTER			
	Portuguese Institute of Sea and Atmosphere, I. P.			
	LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography			
	National Institute of Biology			
	OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)			
	University of Malta			
	University of Montenegro - Institute for marine biology			
Description of the work package				
<p>WP6 is a cross cutting activity involving mainstreaming project results to deliver practices, recommendations and guidelines, conducive to long term strategies, contributing to transnational governance, implementation of EU directives (MFSD, Common Fishery Policy, Marine Spatial Directive) and supporting other EU initiatives (BLUEMED, EUSAIR, WESTMED), international programs (UNP-MAP/MARPOL), and networking initiatives. The Capitalisation Group led by UoM is an executive board, serves as a user/advisory forum, responsible to plan and coordinate the capitalisation process of SHAREMED, meeting 4 times (M6/M18/M24/M31) along with project main assemblies. It is composed of partner representatives each leading the national groups in partner countries, the regional groups (West Med, Sicily Channel and Adriatic), invited experts, Associated Partners, and direct involvement of relevant organisations, international programs, users and networking initiatives serving as a governance umbrella to bring efforts and assets together to address pertinent issues concerning environmental risks. The process also engages with south Med countries through the Union for the Med and the 5+5 Dialog.</p> <p>Specialised series of workshops led by OGS with the participation of all partners will bring key players, experts, champion users and responsible entities to mainstream results and contribute to develop roadmaps to the future system of observing systems and to an action plan to address environmental threats and pollution.</p> <p>An innovative trans-national scheme led by CSIC will support selected (preferably mainstreaming) actions for the uptake of project partner expertise, resources and deliverables by non-partners to create direct synergies and joint complementary efforts, creating a multiplier effect, putting the project knowhow at the disposition and into direct use in other initiatives, promoting practical linkages to relevant organisations, international programs and networking initiatives.</p>				
Justification				

Other WP activities already capitalise on expertise, human resource, and infrastructures at the project partners. This WP puts such activities under an overarching umbrella within a governance structure and a comprehensive, targeted scope to: (i) better capitalize on knowledge (ii) reach a wider range of users and players at national, regional, basin scales, (iii) better understand and quantify trans-boundary and common environmental threats, (iv) apply a synergistic approach to shape, fit and glue initiatives with concrete complementary actions that solve real needs.

The main capitalisation actions will:

- Lead to the future development of transnational joint observing system of systems to address environmental threats and pollution, and related hazards. Guidelines and recommendations are needed to design coastal observatories that describe the marine ecosystem in its integrity (physical & biogeochemical) and within the larger scale scenarios and ranges of variability.

- Develop a capacity to monitor and understand ecosystem changes to the extent of improving alerts and anticipate adverse effects.

- Systematise existing knowledge and sustain common understanding of environmental threats and pollution, including those of transboundary origin, for long-term strategies and common action plans jointly with stakeholders.

Capitalisation will serve to:

- Position project deliverables into wider frameworks to make them effective within broader perspectives;

- Establish governance models based on agreed responsibilities and commitments to ensure long term functionality;

- Propose supportive models of funding and partnerships to secure the delivery of the systems and the related services in the long term;

- Integrate the dedicated project modelling and observing systems to fit the operational national systems;

- Exchange with other regional services;

- Establish a hub of users, initiatives and third party projects exploiting the systems and services developed in the project.

## 2. Activities and deliverables

6.1	Capitalisation Group		Starting month	10-2019	Ending month	06-2022
	Type of activities	Creating synergies and cooperation mechanisms	Target group		Local public authority Regional public authority National public authority Sectoral agency Interest groups including NGOs Higher education and research SME International organisation, EEIG	
	Responsible partner		University of Malta			
	Participating partners		AIX-MARSEILLE UNIVERSITY			
			CSIC - Institute of Marine Sciences			
			Valenciaport Foundation for Research, Promotion and Commercial Studies of the Valencian region			
			INTERMODAL TRANSPORT CLUSTER			
Portuguese Institute of Sea and Atmosphere, I. P.						

		LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography	
		National Institute of Biology	
		OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	
		University of Malta	
		University of Montenegro - Institute for marine biology	
	Location of the activities	Partners' countries	
	Description	Set up a governance framework to plan and activate the project capitalisation process. The project Capitalisation Group, composed of partner representatives in the project countries, and leaders of the 3 project regional sites, will activate invited experts, representatives from relevant organisations, international programs and networking initiatives as well as the EC. The aim is to establish a broad involvement of players, open coordination and effective implementation of the capitalisation activities by: (i) exploiting the project framework and outputs, and (ii) joint actions on environmental risks to synergise efforts towards set targets. They will support activities in 4.1/2/3 and 6.2 relevant to the capitalisation priorities.	

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
6.1.1	Proceedings of the Project Capitalisation Group meetings	Formalised grouping of actors	4 Unit produced	03-2020 03-2021 09-2021 04-2022	60,000.00 €
	Description	Meetings engaging invited experts, direct involvement of relevant organisations, international programs and networking initiatives, serving as a governance umbrella to bring efforts and assets together to address pertinent environmental risks.			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
6.1.2	Proceedings of the Capitalisation Regional Groups Meetings	Formalised grouping of actors	3 Unit produced	12-2019 09-2020 09-2021	60,000.00 €
	Description	Meetings engaging in capitalisation actions concerning the specific regional sites (West Med., Sicily Channel and Adriatic); linking governance scales from national to regional to basin wide; focus on regional capitalisation activities.			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
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6.1.3	Proceedings of the Capitalisation National Groups Meetings		Formalised grouping of actors	2 Unit produced	01-2021 02-2022	60,000.00 €
	Description		Meetings at interim periods to collect and synergise national efforts into trans-boundary actions; engaging national players and serving to capitalise the project efforts with the local stakeholders. To remain active after project.			

6.2	Thematic Actions		Starting month	10-2019	Ending month	06-2022
	Type of activities	Systematising knowledge	Target group		Local public authority Regional public authority National public authority Sectoral agency Interest groups including NGOs Higher education and research SME International organisation, EEIG	
	Responsible partner		OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)			
	Participating partners		AIX-MARSEILLE UNIVERSITY			
			CSIC - Institute of Marine Sciences			
			Valenciaport Foundation for Research, Promotion and Commercial Studies of the Valencian region			
			INTERMODAL TRANSPORT CLUSTER			
			Portuguese Institute of Sea and Atmosphere, I. P.			
			LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography			
			National Institute of Biology			
			OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)			
			University of Malta			
			University of Montenegro - Institute for marine biology			
	Location of the activities		Partners' countries			

	Description	Priority environmental risks in SHAREMED will be tackled through a concerted effort consisting of a 3-tiered series of technical meetings capitalising on partner expertise and maturing into a capitalisation process to be owned by champion government(s) from EC countries and possibly launched within an EC presidency umbrella. The thematics concern (i) the design of feasible, affordable and fit for purpose transnational joint observing systems, and (ii) the role of trans-boundary environmental threats and common monitoring strategies. The effort will (i) provide assessments, guidelines and recommendations to responsible entities, and (ii) propose monitoring strategies and efforts to watch, mitigate and anticipate such environmental threats.
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Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
6.2.1	Technical reports and final recommendations on the transnational marine ecosystem observing system of systems	Method	3 Unit produced	03-2020 03-2021 04-2022	40,000.00 €
	Description	Concerted effort involving partners, experts, stakeholders for actions, plans & guidelines for fitting trans-national marine observing systems to monitor & alert ecosystem changes. High level endorsements maturing by a 3-phased process of meetings			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
6.2.2	Technical reports and final recommendations on trans-boundary environmental threats	Method	3 Unit produced	03-2020 03-2021 04-2022	40,000.00 €
	Description	Parallel effort to that in D6.2.1, focusing on the identification and resolving actions needed to assess and address trans-boundary pollution within an international framework. High level endorsements will be sought to secure long term commitments.			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
6.2.3	Workshop for coordinators of projects and initiatives	Method	1 Unit produced	12-2019	15,000.00 €
	Description	Workshop to bring together champions leading relevant international projects & initiatives in the Med, to early engage with other ongoing activities for joint planning, co-design of project deliverables and integration into governance frameworks.			

6.3	Trans-national On-Demand Actions	Starting month	10-2019	Ending month	06-2022
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	Type of activities	Transferring knowledge, know-how, expertise, systems or processes	Target group	Local public authority Regional public authority National public authority Sectoral agency Interest groups including NGOs Higher education and research SME International organisation, EEIG
	Responsible partner		CSIC - Institute of Marine Sciences	
	Participating partners		AIX-MARSEILLE UNIVERSITY	
			CSIC - Institute of Marine Sciences	
			Valenciaport Foundation for Research, Promotion and Commercial Studies of the Valencian region	
			INTERMODAL TRANSPORT CLUSTER	
			Portuguese Institute of Sea and Atmosphere, I. P.	
			LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography	
			National Institute of Biology	
			OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	
			University of Malta	
			University of Montenegro - Institute for marine biology	
	Location of the activities		Partners' countries	
	Description		<p>An innovative on-demand approach puts project deliverables and partner expertise &amp; resources at the disposition of non-partner entities to undertake joint supportive or complementary actions to aid existing projects and initiatives (national and international), address specific problems/needs, and planning efforts for future implementation. A call will present the project partner assets; expressions of interest are selected by the Capitalisation Group. Selected non-partner beneficiaries will be supported by travel grants. This will create a multiplier effect on the project capitalisation process, opening direct access of project deliverables to other initiatives, and promoting joint efforts and exploitation in a practical way.</p>	

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
6.3.1	Call for trans-national Actions	Method	1 Unit produced	05-2021	5,000.00 €
	Description	Project assets are published in a dedicated call for expressions of interest from non-partner organisations, initiatives and networks to undertake joint collaboration actions exploiting project deliverables.			

Deliverable number	Deliverable title	Type of deliverable	Target value	Finalisation month	Indicative budget
6.3.2	Reports and outputs of trans-national Actions	Method	4 Unit produced	06-2022	20,000.00 €
	Description	Selected actions produce important outputs by combining project resources and partner expertise with third party initiatives to complement and strengthen mainstreaming outputs generating added value and capitalising into long term impacts.			

### 3. Main outputs

Main project output		Description	Quantity	Ending month	Output indicator
Output 6.1	Capitalisation framework at regional, sub-regional and national levels	Set up Capitalisation Groups with participation of relevant Med initiatives, networks, organisations, responsible entities and authorities that can exploit project deliverables and be serviced by SHAREMED; Groups will motivate and engage directly with these users/stakeholders to assist their needs, fitting short/long term goals, serving to customise, compile and present the same outputs (models, tools, data, climatologies, assessments, etc.) for multiple applications and different users.	30 Organisations	01-2021	Number of stakeholders (structures) involved in supported initiatives (per category representing public and private stakeholders)
Output 6.2	Recommendations for the future transnational system of observing systems	Design & prepare recommendations for an integrated system of systems to observe and monitor the marine ecosystem in all its components (physical & biogeochemical), resolving coastal scales (merging models, EO and in situ data), and fitting to the challenge of coupling the growing marine economic sector to sustainable exploitation, securing ecosystem services to future generations; workplan considers S&T aspects and international governance frameworks for a combined effort across countries.	20 Organisations	04-2022	Number of stakeholders (structures) involved in supported initiatives (per category representing public and private stakeholders)
Output 6.3	Action plan on environmental threats and pollution	A collaborative effort between project partners, engaged experts, champion users and responsible entities, through specialised workshops in WP6, will systematise existing knowledge and sustain a common understanding of environmental threats and pollution, including those of transboundary origin, for long term strategies and common action plans jointly with stakeholders. The plan is intended to propose mainstreaming actions leading to endorsement by governments at regional level.	20 Organisations	04-2022	Number of stakeholders (structures) involved in supported initiatives (per category representing public and private stakeholders)

**7 Ad hoc WP**

## 1. Description of work package

Type of WP	Strategic			ST
WP number	Type of WP	Starting date	Ending date	Amount
7	Ad hoc WP	-	-	0.00 €
Partners				
Responsible partners				
Description of the work package				
for strategic projects				
Justification				

## 2. Activities and deliverables

## 3. Main outputs



### C.5.2 Durability of main outputs delivered in the framework of the project

The capability of observe and assess ecosystem state and potential impact of environmental threats is a need of a number of local and national authorities and a variety of stakeholders, also in response to request from laws and directives and the need to base marine spatial planning on sound, coherent and shared knowledge. SHAREMED results will last after the end of the project because they represent a consolidation, integration and enhancing of existing infrastructures that local and national organisations are already maintaining, and because they respond to a real need. SHAREMED will increase the awareness about the added values generated by sharing infrastructure and knowledge by showcasing actual integration of observing structures in several transnational pilot sites. In doing so it will also define and test procedures and frameworks for cooperation and sharing that might be adopted in other sites. The implementation of the on-demand transnational access, the organisation of workshops and schools, the engagement of authorities and stakeholders (implemented in the WPs devoted to transferring and capitalisation) will promote the dissemination of such an awareness at multiple governance levels. The engagement of stakeholders and agencies involved in monitoring and observations since the very beginning of the project will ensure they are aware of the importance of adopting and maintaining SHAREMED results and approaches also after the end of the project.

Furthermore, SHAREMED results will align with the missions of several major international programs and initiatives (e.g. UNEP, INFORAC, EEA, that already confirmed their interests) that might uptake and incorporate them into their programs, and contribute to the objectives of projects and research infrastructures (e.g. Danubius, Jerico). Finally data base and information will be incorporated also in the EMODnet framework, that will ensure their conservation and dissemination.

### C.5.3 Transferability of main outputs delivered in the framework of the project

Transferability of project results also beyond partnership is a central theme in WP5, devoted to transferability, and WP6, devoted to capitalisation. In the project we will organize a workshop specifically targeted to countries along the southern coast of the Mediterranean, and a school open to non partner too, in order to disseminate our objectives, approaches and results. The implementation of on-demand transnational access will also showcase transferability of project results towards all countries in the Mediterranean area. The engagement of international organisations (e.g. UNEP, EEA, Union for Mediterranean, 5+5 dialog, WestMed) will also increase awareness on SHAREMED project results and will promote their use also outside current partnership.

### C.5.4. Project Deliverables

#### List of deliverables of the work package

Activity	ID	Type of deliverable	Unit	Title of the deliverable	Description	Total target value

0.1 Preparing and submitting a project proposal	107940	Application Form	Unit produced	0.1.1 Application form	N/A	1
1.1 Coordination of the project	108509	Meeting	Unit produced	1.1.1 kickoff meeting and minutes	Organization of KOM, preparation of relative documents and minutes	1
1.1 Coordination of the project	108510	Method	Unit produced	1.1.2 Steering Committee Rules of Procedure and management plan	The SC define common rules of Procedure to establish the decision-making process and partner responsibilities, with the MT define, and update a detailed work plan. The SC and MT define the need of changing and strategic adjustments.	1
1.1 Coordination of the project	108511	Meeting	Unit produced	1.1.3 SC and TC meeting (included webmeeting) and minutes	SC and TC Meetings will be organized regularly and meetings will be produced made available on the project toolbox for internal communication ad document sharing	5
1.2 Day-to-day project management, and administrative and financial coordination	108512	Meeting	Unit produced	1.2.1 PP meeting (included webmeeting) for financial and administrative support and minutes	Partnership meetings for financial and administrative issues. Meetings are scheduled but can be increased and/or anticipated if particular problems should emerge, also with a single PP. Minutes meetings will be produced and shared	6
1.2 Day-to-day project management, and administrative and financial coordination	108513	Meeting	Unit produced	1.2.2 Definition and development of common methodologies	Tailored internal quality management plan to define a common methodology and intervention logic on administrative and financial procedures, output and action; with also production of shared guideline.	1
1.2 Day-to-day project management, and administrative and financial coordination	108514	Tool	Unit produced	1.2.3 Internal IT tool	Shared IT tool, a working environment, to save documents, reports and keep track of comments and versions. Help desk on line to receive help on different issues. The tool will be implemented during all project life	1
1.2 Day-to-day project management, and administrative and financial coordination	108515	Tool	Unit produced	1.2.4 Progress report	Progress report as scheduled for each reporting period will be performed by each PP. LP is responsible for the project progress report, developed with the contribution of all PP, as well as of payment claim.	6

1.2 Day-to-day project management, and administrative and financial coordination	108516	Tool	Unit produced	1.2.5 Validation of Expenditure	Controls of expenses by FLC according to the scheduled reporting periods. Each PP is responsible for their FLC procedure and certification	6
1.3 Monitoring activity and evaluation of the project	108579	Method	Unit produced	1.3.1 Monitoring evaluation plan and risk evaluation	Definition, in accord with SC, of the evaluation methodology to monitor all project outcomes, to avoid or mitigate critical issue , risk and proposition of measures to address any gaps in implementation and finally evaluate impact on stakeholders	1
1.3 Monitoring activity and evaluation of the project	108580	Data	Unit produced	1.3.2 Monitoring evaluation report	Half-yearly monitoring reports summarizing the monitoring activity and the evaluation of the project progress.	5
2.1 Coordinating the WP and setting up of common methodology	109284	Method	Unit produced	2.1.1 Communication strategy	The CM and ICN define the communication strategy with activities, timing and partners' responsibilities.	1
2.1 Coordinating the WP and setting up of common methodology	109285	Method	Unit produced	2.1.2 ICN meetings	ICN will meet regularly with web-conference to monitor and improve communication	6
2.2 Delivering information	109286	Digital or written communication	Unit produced	2.2.1 Communication material	Communication material will be prepared in English such as leaflet, booklet also in digital version to reduce paper consumption and to be disseminated on social networks and on the website	2
2.2 Delivering information	109287	Press conference	Unit produced	2.2.2 Press conference	In relation of specific events or achievement of important objectives, there will be Press releases, (Newspapers, TV, Radio etc.)	1
2.2 Delivering information	109288	Digital or written communication	Unit produced	2.2.3 Update of website and social media	All the PP will contribute to regular and constant update of MED website content and social media, moreover information of the project will be publish ion PP institutional website	6
2.2 Delivering information	109289	Digital or written communication	Unit produced	2.2.4 Poster	The project poster with SHAREMED fundamental information, for each project partner's office, prepared following the program template	1
2.2 Delivering information	109290	Digital or written communication	Unit produced	2.2.5 Promo widget	to raise awareness about SHAREMED some sustainable promotional goodies will be produced	2

2.3 Contribution to Programme communication	109291	Meeting	Unit produced	2.3.1 Programme meeting	Report of meeting	3
2.4 Exchanging information	109292	Public / political event	Unit produced	2.4.1 Conference report	Report of events foreseen in W5 and WP6	1
2.5 Transferring of knowledge	109293	Training course	Unit produced	2.5.1 Transferring know how	Report of events foreseen in WP5 and support to the event	1
2.6 Collaborative network	109294	Collaborative network	Unit produced	2.6.1 Creation of a stable network of stakeholder	Stakeholder active engagement with a collaborative approach in the development of the project. The aims is to formalize a relevant number of actors in the main goals of ShareMED (WP 6 for details)	1
2.7 Coordination with MED projects	109295	Provision of information and data	Unit produced	2.7.1 Collecting data information	Report on the result of the networking with horizontal MED project and dissemination of the results	1
3.1 Developing a relocatable high resolution short-term forecasting system for the marine environment	109096	Method	Unit produced	3.1.1 User manual of the relocatable system for high resolution simulations	Description of the physical-biogeochemical model, list of dependencies and forcing data, primer for production workflow and format of the output products.	1
3.2 Enhance and expand monitoring capabilities of physical properties	109097	Tool	Unit produced	3.2.1 Integrated data service for partner HF radar systems	Integrated data service managing, combining and presenting data (historical and real time) from the partner HF radar systems with a common web interface including data mining, visualisation, and access from a common portal.	1
3.2 Enhance and expand monitoring capabilities of physical properties	109098	Tool	Unit produced	3.2.2 Operational HF radar added value products	Production and operational publishing of HF radar derived added value products targeting the needs of users and merging HF radar data to other data sources such as Earth Observations and numerical models.	4
3.3 Enhance and expand monitoring capabilities of biological properties	109099	Report	Unit produced	3.3.1 Molecular methods to monitor selected groups and species	This deliverable will present a selection of best-suited molecular practices for monitoring selected organisms (pathogens, NIS/IAS, harmful algae, rare and other important species) together with optimization of protocols.	1



3.3 Enhance and expand monitoring capabilities of biological properties	109100	Report	Unit produced	3.3.2 Visual observation and sampling techniques and data processing	Different novel visual observation and sampling techniques will be overviewed and best suited will be selected for their use in benthic and pelagic ecosystems in coastal and open waters. Protocols will be prepared for these techniques.	1
3.3 Enhance and expand monitoring capabilities of biological properties	109101	Report	Unit produced	3.3.3 Ecotoxicology of contaminants in sea water, their pathways through ecosystems and effects on marine biota and human health	An overview of traditional and emerging contaminants will be prepared along with their ecotoxicological effects on marine biota and environment. Literature will be screened for selection of state-of-the-art methods for ecotoxicological assessment.	1
3.4 Enhance and expand capabilities to use satellite observations	109102	Report	Unit produced	3.4.1 Satellite Ocean Colour products for monitoring and assessing environmental risks	Description of the satellite products, including the report on calibration and validation, based on the available in situ data set. Detailed reporting of the main status of specific coastal areas, based on the statistical analyses.	1
4.1 Background information and identification of regional strategies for each case study site	109122	Technical event	Unit produced	4.1.1 Stakeholder inventory	Each partner will identify relevant stakeholders to be engaged and propose the most efficient approach for engagement.	1
4.1 Background information and identification of regional strategies for each case study site	109123	Technical event	Unit produced	4.1.2 Stakeholder questionnaire	To stimulate active involvement of stakeholders, a questionnaire will be prepared and distributed to identify specific needs and to evaluate data and information availability.	1
4.1 Background information and identification of regional strategies for each case study site	109124	Technical event	Unit produced	4.1.3 Stakeholder workshop in case study sites	In each CS site a stakeholder workshop will be organized during the first 6 months to gather information on potential environmental threats, on region-specific observational gaps and priorities, and to collect information needed by SHAREMED.	3

4.2 Implementation of a cooperation framework to share data and information	109125	Report	Unit produced	4.2.1 Definition of a cooperation framework for data and information sharing	An inventory of data made available within the project and the evaluation of suitable management and sharing systems will be achieved and the adoption of standard EMODnet protocols will be promoted to collect, format and harmonise new data.	1
4.2 Implementation of a cooperation framework to share data and information	109126	Report	Unit produced	4.2.2 Harmonised geo-spatial information for the case study areas	Information on ecosystem status and pressures (chemical, physical and biological) will be collected and delivered for the implementation of the Atlas.	3
4.3 Production of the Atlas of ecosystem status, pressures and environmental hazard index	109127	Report	Unit produced	4.3.1 Atlas of ecosystem status, pressures and environmental hazard index	Collection of layers of environmental status, and pressures. Identification of hazard targets and hazard assessment methods. Production of hazard layers at the different scales of each CS, i.e., MED (global), and regional (NA, NWM, SC).	1
4.3 Production of the Atlas of ecosystem status, pressures and environmental hazard index	109128	Report	Unit produced	4.3.2 Identification of management units	Management units will be identified by (sub)regionalisation of the domain (MED, NA, NWM, SC) integrating hazard index layers and information on physical and ecological properties.	1
4.4 Integration, consolidation and improvement of joint observation capabilities	109129	Report	Unit produced	4.4.1 Common portals for the transnational pilot sites	One web portal for each of the case study (NA; NWM, SC) for visualisation of marine status, as derived from joint observation.	3
4.5 Actual implementation of trans-national short-term forecasting systems	109130	Report	Unit produced	4.5.1 Implementation of the relocatable short-term forecasting system to study sites	Description of the two study sites and implementation of the relocatable modelling system; quality assessment of the products for the major physical and biogeochemical variables following the CMEMS standard.	1
4.6 Connectivity and pollutant transport	109131	Report	Unit produced	4.6.1 Implementation of Lagrangian methods for pollutant transport and connectivity	Description and implementation of a shared methodology for pollutant dispersion from point and diffuse sources, eventually to support emergency management activities, and to assess connectivity among marine areas, also in its seasonal variability.	1

4.6 Connectivity and pollutant transport	109132	Report	Unit produced	4.6.2 Lagrangian simulations and computation of indicators for transport, dispersion and retention	Realization of Lagrangian simulations, assessment of connectivity and computation of the dispersion, transport and retention indicators on at least two pilot sites. This activity will also provide the data necessary for the mapping activity (A4.3).	2
4.7 Testing of and assessing potentiality and RTL of new technologies studied WP3	109133	Report	Unit produced	4.7.1 Assessment of readiness of technological levels of methodologies explored in WP3	A report will summarise the results of the study and/or testing of novel methodologies tested in WP3, and provide an assessment of their maturity for the use in future observing system.	1
4.7 Testing of and assessing potentiality and RTL of new technologies studied WP3	109134	Report	Unit produced	4.7.2 Testing of selected molecular methods to monitor targeted (harmful, threatened, or ecological indicators) marine organisms selected groups or species	Some of the selected molecular methods to monitor selected target groups of organisms in A3.3 will be applied in the pilot sites and the results will be compared to other traditional methods used.	1
4.7 Testing of and assessing potentiality and RTL of new technologies studied WP3	109135	Report	Unit produced	4.7.3 Testing of selected visual observation techniques and analyses	Some of the selected observation techniques and analyses in A3.3 will be applied in the pilot sites and the results will be compared to other traditional methods used.	1
4.7 Testing of and assessing potentiality and RTL of new technologies studied WP3	109136	Report	Unit produced	4.7.4 Testing of the presence and effects of emerging contaminants	In the pilot sites the assessment of some emerging contaminants will be done based on the input from A3.3.	1
5.1 Transfer of the relocatable short term forecasting system to other study sites	109137	Method	Unit produced	5.1.1 Transfer of the relocatable short term forecasting system to other study sites	Description of the new study site and adaptation of the relocatable modelling system to the new environment; quality assessment of the products for the major physical and biogeochemical variables following the CMEMS standard.	1
5.2 First school on "Addressing and assessing pollution and environmental threats in Mediterranean"	109138	Training course	Unit produced	5.2.1 Report on the first SHAREMED school	The report includes a list of participants, agenda of the school and a short description of the lessons content.	1

5.2 First school on "Addressing and assessing pollution and environmental threats in Mediterranean"	109139	Training course	Unit produced	5.2.2 Report on lessons given in schools organised by others	The report includes a list of at least 4 lessons given in schools and workshops organised by others or co-organised, with an indication on the number of attendees, possibly of the number of structures involved, a short description of school contents.	1
5.3 Organization of national training events and international workshops	109141	Tailored event	Unit produced	5.3.1 Organisation of national technical events (first round)	The report describes the results of the national technical events organised in each of the partner countries. The report will include the number of participants and participant structures, as well as a description of major results from the meeting.	16
5.3 Organization of national training events and international workshops	109142	Tailored event	Unit produced	5.3.2 Organisation of national technical events (second round)	The report describes the results of the national technical events organised in each of the partner countries. The report will include the number of participants and participant structures, as well as a description of major results from the meeting.	16
5.3 Organization of national training events and international workshops	109143	Training course	Unit produced	5.3.3 Participation to workshops and events beyond partner countries	Workshop co-organised with other Med initiatives (e.g. UfM, Med7, BlueMed GSO) to build synergies with south eastern Med countries and link with existing activities through application of project deliverables and co-design governance frameworks.	3
5.3 Organization of national training events and international workshops	109333	Training course	Unit produced	5.3.4 International workshop for non-EU countries	Workshop co-organised with other Med initiatives (esp UfM, Med7, BlueMed GSO) to build synergies with south eastern Med countries and link with existing activities through application of project deliverables and co-design governance frameworks.	1
6.1 Capitalisation Group	109069	Formalised grouping of actors	Unit produced	6.1.1 Proceedings of the Project Capitalisation Group meetings	Meetings engaging invited experts, direct involvement of relevant organisations, international programs and networking initiatives, serving as a governance umbrella to bring efforts and assets together to address pertinent environmental risks.	4

6.1 Capitalisation Group	109070	Formalised grouping of actors	Unit produced	6.1.2 Proceedings of the Capitalisation Regional Groups Meetings	Meetings engaging in capitalisation actions concerning the specific regional sites (West Med., Sicily Channel and Adriatic); linking governance scales from national to regional to basin wide; focus on regional capitalisation activities.	3
6.1 Capitalisation Group	109071	Formalised grouping of actors	Unit produced	6.1.3 Proceedings of the Capitalisation National Groups Meetings	Meetings at interim periods to collect and synergise national efforts into trans-boundary actions; engaging national players and serving to capitalise the project efforts with the local stakeholders. To remain active after project.	2
6.2 Thematic Actions	109072	Method	Unit produced	6.2.1 Technical reports and final recommendations on the transnational marine ecosystem observing system of systems	Concerted effort involving partners, experts, stakeholders for actions, plans & guidelines for fitting trans-national marine observing systems to monitor & alert ecosystem changes. High level endorsements maturing by a 3-phased process of meetings	3
6.2 Thematic Actions	109073	Method	Unit produced	6.2.2 Technical reports and final recommendations on trans-boundary environmental threats	Parallel effort to that in D6.2.1, focusing on the identification and resolving actions needed to assess and address trans-boundary pollution within an international framework. High level endorsements will be sought to secure long term commitments.	3
6.2 Thematic Actions	109296	Method	Unit produced	6.2.3 Workshop for coordinators of projects and initiatives	Workshop to bring together champions leading relevant international projects & initiatives in the Med, to early engage with other ongoing activities for joint planning, co-design of project deliverables and integration into governance frameworks.	1
6.3 Trans-national On-Demand Actions	109074	Method	Unit produced	6.3.1 Call for trans-national Actions	Project assets are published in a dedicated call for expressions of interest from non-partner organisations, initiatives and networks to undertake joint collaboration actions exploiting project deliverables.	1

6.3 Trans-national On-Demand Actions	109075	Method	Unit produced	6.3.2 Reports and outputs of trans-national Actions	Selected actions produce important outputs by combining project resources and partner expertise with third party initiatives to complement and strengthen mainstreaming outputs generating added value and capitalising into long term impacts.	4
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## C.6 Activities outside the programme area

	Work package / Activity	Partner involved	Country and region outside of the programme area	What is the added value of activities to be carried out outside the programme area?	Budget (total) - indicative
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## C.7 Indicative time plan : activities

Work package	Activity	2019				2020				2021				2022			
0 Preparation costs					P L.107940												
	0.1 Preparing and submitting a project proposal				A 0.1.1 L.107940												
1 Project management					P L.108509 L.108512	P L.108510 L.108513 L.108514 L.108515 L.108516 L.108579	P L.108511 L.108512 L.108580	P	P	P L.108515 L.108516	P L.108511 L.108512 L.108580	P	P	P L.108515 L.108516	P L.108511 L.108512 L.108580		
	1.1 Coordination of the project				A 1.1.1 L.108509	A 1.1.2 L.108510	A 1.1.3 L.108511	A	A 1.1.3 L.108511	A	A 1.1.3 L.108511	A	A 1.1.3 L.108511	A	A 1.1.3 L.108511		

	1.2 Day-to-day project management, and administrative and financial coordination				A 1.2.1 L.108512	A 1.2.2 L.108513 1.2.3 L.108514 1.2.4 L.108515 1.2.5 L.108516	A 1.2.1 L.108512	A 1.2.4 L.108515 1.2.5 L.108516	A 1.2.1 L.108512	A 1.2.4 L.108515 1.2.5 L.108516	A 1.2.1 L.108512	A 1.2.4 L.108515 1.2.5 L.108516	A 1.2.1 L.108512	A 1.2.4 L.108515 1.2.5 L.108516	A 1.2.1 L.108512		
	1.3 Monitoring activity and evaluation of the project				A	A 1.3.1 L.108579	A 1.3.2 L.108580	A	A 1.3.2 L.108580	A	A 1.3.2 L.108580	A	A 1.3.2 L.108580	A	A 1.3.2 L.108580		
2 Project communication					P L.109285 L.109286 L.109288 L.109289 L.109290	P L.109284 L.109291	P L.109285 L.109288	P	P	P L.109293	P L.109285 L.109288	P	P	P L.109285 L.109291	P L.109286 L.109287 L.109288 L.109290 L.109292 L.109294 L.109295		
	2.1 Coordinating the WP and setting up of common methodology				A 2.1.2 L.109285	A 2.1.1 L.109284	A 2.1.2 L.109285	A	A 2.1.2 L.109285	A	A 2.1.2 L.109285	A	A 2.1.2 L.109285	A 2.1.2 L.109285	A 2.1.2 L.109285		



	2.2 Delivering information				A 2.2.1 L.109286 2.2.3 L.109288 2.2.4 L.109289 2.2.5 L.109290	A	A 2.2.3 L.109288	A	A 2.2.3 L.109288	A	A 2.2.3 L.109288	A	A 2.2.3 L.109288	A	A 2.2.1 L.109286 2.2.2 L.109287 2.2.3 L.109288 2.2.5 L.109290		
	2.3 Contribution to Programme communication				A	A 2.3.1 L.109291	A	A	A	A	A	A	A	A 2.3.1 L.109291	A		
	2.4 Exchanging information				A	A	A	A	A	A	A	A	A	A	A 2.4.1 L.109292		
	2.5 Transferring of knowledge				A	A	A	A	A	A 2.5.1 L.109293	A	A	A	A	A		
	2.6 Collaborative network				A	A	A	A	A	A	A	A	A	A	A 2.6.1 L.109294		
	2.7 Coordination with MED projects				A	A	A	A	A	A	A	A	A	A	A 2.7.1 L.109295		
3 Studying					P	P	P	P L.109096	P L.109099 L.109100 L.109101	P L.109097 L.109102	P	P L.109098					

	3.1 Developing a relocatable high resolution short-term forecasting system for the marine environment				A	A	A	A 3.1.1 L.109096									
	3.2 Enhance and expand monitoring capabilities of physical properties				A	A	A	A	A	A 3.2.1 L.109097	A	A 3.2.2 L.109098					
	3.3 Enhance and expand monitoring capabilities of biological properties				A	A	A	A	A 3.3.1 L.109099 3.3.2 L.109100 3.3.3 L.109101								
	3.4 Enhance and expand capabilities to use satellite observations				A	A	A	A	A	A 3.4.1 L.109102							
4 Testing					P L.109122	P L.109123 L.109124	P	P L.109125 L.109131	P	P L.109130	P	P L.109126 L.109127 L.109132	P L.109133 L.109134 L.109135 L.109136	P L.109128 L.109129 O.1 O.2 O.3	P		

	4.1 Background information and identification of regional strategies for each case study site				A 4.1.1 L.109122	A 4.1.2 L.109123 4.1.3 L.109124											
	4.2 Implementation of a cooperation framework to share data and information				A	A	A	A 4.2.1 L.109125	A	A	A	A 4.2.2 L.109126					
	4.3 Production of the Atlas of ecosystem status, pressures and environmental hazard index									A	A	A 4.3.1 L.109127	A	A 4.3.2 L.109128			
	4.4 Integration, consolidation and improvement of joint observation capabilities				A	A	A	A	A	A	A	A	A	A 4.4.1 L.109129	A		
	4.5 Actual implementation of trans-national short-term forecasting systems						A	A	A	A 4.5.1 L.109130							
	4.6 Connectivity and pollutant transport						A	A 4.6.1 L.109131	A	A	A	A 4.6.2 L.109132					

	4.7 Testing of and assessing potentiality and RTL of new technologies studied WP3							A	A	A	A	A 4.7.1 L.109133 4.7.2 L.109134 4.7.3 L.109135 4.7.4 L.109136				
5 Transferring							P	P	P L.109141	P L.109138 L.109333 O.1	P L.109137 L.109143	P	P L.109139 L.109142	P		
	5.1 Transfer of the relocatable short term forecasting system to other study sites							A	A	A	A 5.1.1 L.109137					
	5.2 First school on "Addressing and assessing pollution and environmental threats in Mediterranean"							A	A	A 5.2.1 L.109138	A	A	A 5.2.2 L.109139			
	5.3 Organization of national training events and international workshops						A	A	A 5.3.1 L.109141	A 5.3.4 L.109333	A 5.3.3 L.109143	A	A 5.3.2 L.109142	A		

6 Capitalising					P L.109070 L.109296	P L.109069 L.109072 L.109073	P	P L.109070	P	P L.109069 L.109071 L.109072 L.109073 O.1	P L.109074	P L.109070	P	P L.109071	P L.109069 L.109072 L.109073 L.109075 O.2 O.3		
	6.1 Capitalisation Group				A 6.1.2 L.109070	A 6.1.1 L.109069	A	A 6.1.2 L.109070	A	A 6.1.1 L.109069 6.1.3 L.109071	A	A 6.1.1 L.109069 6.1.2 L.109070	A	A 6.1.3 L.109071	A 6.1.1 L.109069		
	6.2 Thematic Actions				A 6.2.3 L.109296	A 6.2.1 L.109072 6.2.2 L.109073	A	A	A	A 6.2.1 L.109072 6.2.2 L.109073	A	A	A	A	A 6.2.1 L.109072 6.2.2 L.109073		
	6.3 Trans-national On-Demand Actions				A	A	A	A	A	A	A 6.3.1 L.109074	A	A	A	A 6.3.2 L.109075		
7 Ad hoc WP																	

## C.8 External expertise and services, Equipment

### C.8.1 External expertise and services description

	Description of External Expertise and Services	Work packages / Activity	Contracting partner	Budget (indicative breakdown of the budget)
1	FLC	1.2 Day-to-day project management, and administrative and financial coordination	Valenciaport Foundation for Research, Promotion and Commercial Studies of the Valencian region	6000
2	Support for Atlas	4.3 Production of the Atlas of ecosystem status, pressures and environmental hazard index	Valenciaport Foundation for Research, Promotion and Commercial Studies of the Valencian region	10000
3	Organisation of local technical event	5.3 Organization of national training events and international workshops	Valenciaport Foundation for Research, Promotion and Commercial Studies of the Valencian region	3000
4	Travel costs for Associated Partner		National Institute of Biology	3000
5	Local/national project communication activities support (WP2, WP5, WP6)		National Institute of Biology	3000
6	Workshop in Montenegro Within WP5 it is planned to be organized one workshop in Montenegro. For that workshop it will be needed to organise and procure: refreshment, venue, sound system, speakers, etc.		University of Montenegro - Institute for marine biology	2100
7	Expert for administrative and financial project management and support in project implementation This expert will be in charge of preparation and submission of the Progress reports into Synergie internet platform, communication with First Level Control Office, conduction of public procurements, financial management and preparation of budget reallocations if needed, and provision of any other support related to administrative and financial matters that the project team might need (WP1).	1.2 Day-to-day project management, and administrative and financial coordination	University of Montenegro - Institute for marine biology	10500

8	Expert for promotion, media and communication Expert will closely collaborate with the staff developing communication strategy and plan. He/she will take care of the development of promotional materials for promotion and dissemination of the projects main activities, outcomes and results, collecting dissemination sheets of partner, organisation of workshop and provision of any other support related to communication and dissemination matters that the project team might need (WP2).		University of Montenegro - Institute for marine biology	10000
9	Travel and accommodation costs for associates Travel and accommodation costs for joining the project's meetings of the Associated Partner		University of Montenegro - Institute for marine biology	2000
10	Delivery of historical and new observation data in the NWMed, contribution to the shared atlas, participation at project meeting, schools and interactions with stakeholders (WP3.3, WP4.1-2-3, WP5, WP6)		AIX-MARSEILLE UNIVERSITY	42000
11	FLC	1.2 Day-to-day project management, and administrative and financial coordination	INTERMODAL TRANSPORT CLUSTER	3000
12	Production of promotional materials (posters, gadgets etc.) and post office cost (WP2)		INTERMODAL TRANSPORT CLUSTER	14000
13	Costs for associated partner and/or external expert who will help with scientific activities		INTERMODAL TRANSPORT CLUSTER	8000

14	In-house contract to the National Council for Research (Institutes: CNR ISMAR and CNR IAS) for the implementation of WP3, WP4 and WP6 and in particular WP3.3 (ecotoxicology of contaminants in sea water), WP3.4 (Implementation of full resolution satellite Ocean Colour products), WP4.1 (Background information and identification of regional strategies), WP4.2 (Implementation of a cooperation framework to share data and information), WP4.6 (connectivity & pollutant transport) and WP6(capitalisation)		LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography	150000
15	Contract to the Environmental Protection Agency of the Regione Liguria (ARPAL), in the framework of an existing agreement, to support the technical implementation of WP4.1 (Background information and identification of regional strategies for the North_Weaster Mediterranean), WP4.6 (pollutant transport) e WP5.3 (transferring and contribution to the realization of a national event)		LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography	45000
16	FLC	1.2 Day-to-day project management, and administrative and financial coordination	LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography	6000
17	Commissioned experts (WP3.4, WP4.1-2-3-5, WP6.2)		University of Malta	40000
18	Support to associate partners		University of Malta	15000
19	Support to external advisors/speakers (WP6.2)	6.2 Thematic Actions	University of Malta	12000
20	Support to non-EU participants in international meeting (WP5.3)	5.3 Organization of national training events and international workshops	University of Malta	7350
21	Services for organisation of meetings in Malta (WP4.1, WP5.3, WP6.1)		University of Malta	15000
22	Support for six on-demand activities (WP6.3)	6.3 Trans-national On-Demand Actions	University of Malta	30000



23	Leasing and deployment of equipment for ecosystem observations (WP4.1)	4.1 Background information and identification of regional strategies for each case study site	University of Malta	20000
24	Promotional material (WP2)		University of Malta	4800
25	External experts - monitoring activity and evaluation of the project (WP1)		Portuguese Institute of Sea and Atmosphere, I. P.	5500
26	Service providers- organization of technical events including coffee breaks and meals (WP5)		Portuguese Institute of Sea and Atmosphere, I. P.	7000
27	Service providers- travel agencies (WP5)		Portuguese Institute of Sea and Atmosphere, I. P.	42500
28	Capitalization support in WP6		CSIC - Institute of Marine Sciences	5000
29	Elaboration of questionnaires to stakeholders, results analysis and conclusions		CSIC - Institute of Marine Sciences	4000
30	Selection of methods to assess marine biological properties (WP3)		CSIC - Institute of Marine Sciences	2000
31	HF Radar data mining and derived products (D3.2.1. and D3.2.2.)		CSIC - Institute of Marine Sciences	2000
32	FLC (WP1)		CSIC - Institute of Marine Sciences	7500
33	Kick-off meeting organisation (WP1)		OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	10000
34	FLC (WP1)	1.2 Day-to-day project management, and administrative and financial coordination	OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	5000
35	Support to associate partners / stakeholders		OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	20000
36	Sequencing cost (WP3)		OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	6000
37	Workshop organisation (WP5)		OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	5500
38	Development of a portal on EMODnet (WP4)		OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	6000
39	Software platform development (WP4)		OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	15000

### C.8.2 Description of equipment for general office use

	Description of Equipment	Work packages / Activity	Contracting partner	Budget (indicative breakdown of the budget)
1	Office IT equipment Project management, coordination, internal communication and financial management conducted by the project team (WP1).		University of Montenegro - Institute for marine biology	4500

### C.8.3 Technical Equipment description

	Technical equipment description	Work packages / Activity	Contracting partner	Budget (indicative breakdown of the budget)
1	Stereo microscope with camera Institute of Marine Biology has been involved in the wp3. This equipment will be used for laboratory analyses of sampling materials (WP3).		University of Montenegro - Institute for marine biology	4422,25
2	Technical IT software, devices, laboratory equipment, field-study equipment, small instruments, exhibition equipment, ram ships, ship-time fees, vehicle renting, student gratifications, consumables for laboratory and field studies (WP3.2-3, WP4.1-2-3-4-5, WP5.1).		AIX-MARSEILLE UNIVERSITY	90350
3	Software and computer resources		OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	4000
4	Lab consumables		OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	7250

### C.8.4 Description of small scale investment

	Description of small scale investment	Work packages / Activity	Contracting partner	Budget (indicative breakdown of the budget)
1	Ocean remote sensing system (radar system)	4.4 Integration, consolidation and improvement of joint observation capabilities	National Institute of Biology	105300

## PARTIE D – Budget du projet

### D.1 Project budget co-financing source (fund) – breakdown per partner (Automatically filled in)

ERDF

Partner Nb	Partner name	Region (NUTS2)	Country	Total budget	Fund grant			Counterparts		
					Fund amount	Co-financing rate	% of the total ERDF	Total counterparts	Counterparts details	
									Public counterpart	Private counterpart
LP1	OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	Friuli-Venezia Giulia	ITALY	600,000.00 €	510,000.00 €	85.00 %	19.80 %	90,000.00 €	90,000.00 €	0.00 €
PP1	Valenciaport Foundation for Research, Promotion and Commercial Studies of the Valencian region	Comunidad Valenciana	SPAIN	120,000.00 €	102,000.00 €	85.00 %	3.96 %	18,000.00 €	18,000.00 €	0.00 €
PP2	National Institute of Biology	Zahodna Slovenija	SLOVENIA	330,000.00 €	280,500.00 €	85.00 %	10.89 %	49,500.00 €	49,500.00 €	0.00 €
PP4	CSIC - Institute of Marine Sciences	Cataluña	SPAIN	380,000.00 €	323,000.00 €	85.00 %	12.54 %	57,000.00 €	57,000.00 €	0.00 €
PP5	AIX-MARSEILLE UNIVERSITY	Provence-Alpes-Côte d'Azur	FRANCE	505,000.00 €	429,250.00 €	85.00 %	16.67 %	75,750.00 €	75,750.00 €	0.00 €
PP6	University of Malta	Malta	MALTA	470,000.00 €	399,500.00 €	85.00 %	15.51 %	70,500.00 €	70,500.00 €	0.00 €
PP7	INTERMODAL TRANSPORT CLUSTER	Jadranska Hrvatska	CROATIA	150,000.00 €	127,500.00 €	85.00 %	4.95 %	22,500.00 €	22,500.00 €	0.00 €

PP8	Portuguese Institute of Sea and Atmosphere, I. P.	Área Metropolitana de Lisboa	PORTUGAL	155,000.00 €	131,750.00 €	85.00 %	5.12 %	23,250.00 €	23,250.00 €	0.00 €
PP9	LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography	Toscana	ITALY	320,000.00 €	272,000.00 €	85.00 %	10.56 %	48,000.00 €	48,000.00 €	0.00 €
Sub-total for partners inside the programme area (EU territory)				3,030,000.00 €	2,575,500.00 €	85.00 %	100.00 %	454,500.00 €	454,500.00 €	0.00 €
Total				3,030,000.00 €	2,575,500.00 €	85.00 %	100.00 %	454,500.00 €	454,500.00 €	0.00 €

## IPA Funding

Partner Nb	Partner name	Region (NUTS2)	Country	Total budget	Fund grant			Counterparts		
					Fund amount	Co-financing rate	% of the total IPA Funding	Total counterparts	Counterparts details	
									Public counterpart	Private counterpart
PP3	University of Montenegro - Institute for marine biology	Црна Гора (Crna Gora)	MONTENEGRO	70,000.00 €	59,500.00 €	85.00 %	100.00 %	10,500.00 €	10,500.00 €	0.00 €
Sub-total for partners inside the programme area (EU territory)				70,000.00 €	59,500.00 €	85.00 %	100.00 %	10,500.00 €	10,500.00 €	0.00 €
Total				3,100,000.00 €	2,635,000.00 €	85.00 %	100.00 %	465,000.00 €	465,000.00 €	0.00 €

## D.2 Project budget – overview per partner/ per budget line

	Staff costs	Office and Administration	Travel and Accommodation	External Expertise and Services	Equipment	Preparation costs	Total budget	Net revenue	Total eligible budget	% total eligible budget
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OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	389,000.00 €	58,350.00 €	43,900.00 €	67,500.00 €	11,250.00 €	30,000.00 €	600,000.00 €	0.00 €	600,000.00 €	19.35 %
Valenciaport Foundation for Research, Promotion and Commercial Studies of the Valencian region	79,040.00 €	11,856.00 €	10,104.00 €	19,000.00 €	0.00 €	0.00 €	120,000.00 €	0.00 €	120,000.00 €	3.87 %
National Institute of Biology	172,000.00 €	25,800.00 €	20,900.00 €	6,000.00 €	105,300.00 €	0.00 €	330,000.00 €	0.00 €	330,000.00 €	10.65 %
University of Montenegro - Institute for marine biology	21,285.00 €	3,192.75 €	12,000.00 €	24,600.00 €	8,922.25 €	0.00 €	70,000.00 €	0.00 €	70,000.00 €	2.26 %
CSIC - Institute of Marine Sciences	295,100.00 €	44,265.00 €	16,935.00 €	20,500.00 €	3,200.00 €	0.00 €	380,000.00 €	0.00 €	380,000.00 €	12.26 %
AIX-MARSEILLE UNIVERSITY	285,000.00 €	42,750.00 €	44,900.00 €	42,000.00 €	90,350.00 €	0.00 €	505,000.00 €	0.00 €	505,000.00 €	16.29 %
University of Malta	259,000.00 €	38,850.00 €	15,000.00 €	157,150.00 €	0.00 €	0.00 €	470,000.00 €	0.00 €	470,000.00 €	15.16 %
INTERMODAL TRANSPORT CLUSTER	103,000.00 €	15,450.00 €	6,550.00 €	25,000.00 €	0.00 €	0.00 €	150,000.00 €	0.00 €	150,000.00 €	4.84 %
Portuguese Institute of Sea and Atmosphere, I. P.	78,250.00 €	11,737.50 €	10,000.00 €	55,012.50 €	0.00 €	0.00 €	155,000.00 €	0.00 €	155,000.00 €	5.00 %
LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography	96,350.00 €	14,452.50 €	8,197.50 €	201,000.00 €	0.00 €	0.00 €	320,000.00 €	0.00 €	320,000.00 €	10.32 %
<b>Total</b>	<b>1,778,025.00 €</b>	<b>266,703.75 €</b>	<b>188,486.50 €</b>	<b>617,762.50 €</b>	<b>219,022.25 €</b>	<b>30,000.00 €</b>	<b>3,100,000.00 €</b>	<b>0.00 €</b>	<b>3,100,000.00 €</b>	

% of the total budget	57.36 %	8.60 %	6.08 %	19.93 %	7.07 %	0.97 %	100.00 %	0.00 %	100.00 %	100.00 %
ERDF	1,756,740.00 €	263,511.00 €	176,486.50 €	593,162.50 €	210,100.00 €	30,000.00 €	3,030,000.00 €	0.00 €	3,030,000.00 €	97.74 %
IPA Funding	21,285.00 €	3,192.75 €	12,000.00 €	24,600.00 €	8,922.25 €	0.00 €	70,000.00 €	0.00 €	70,000.00 €	2.26 %
<b>Total EU funds</b>	<b>1,778,025.00 €</b>	<b>266,703.75 €</b>	<b>188,486.50 €</b>	<b>617,762.50 €</b>	<b>219,022.25 €</b>	<b>30,000.00 €</b>	<b>3,100,000.00 €</b>	<b>0.00 €</b>	<b>3,100,000.00 €</b>	<b>100.00 %</b>

### D.3 Project budget – overview per partner/ per WP

	0 Preparation costs	1 Project management	2 Project communication	3 Studying	4 Testing	5 Transferring	6 Capitalising	7 Ad hoc WP	Total budget	Net revenue	Total eligible budget	% total eligible budget
OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	30,000.00 €	100,400.00 €	21,850.00 €	117,150.00 €	205,450.00 €	21,650.00 €	103,500.00 €	0.00 €	600,000.00 €	0.00 €	600,000.00 €	19.35 %
Valenciaport Foundation for Research, Promotion and Commercial Studies of the Valencian region	0.00 €	29,607.50 €	10,909.50 €	0.00 €	49,726.00 €	13,798.00 €	15,959.00 €	0.00 €	120,000.00 €	0.00 €	120,000.00 €	3.87 %
National Institute of Biology	0.00 €	14,290.00 €	14,390.00 €	68,785.00 €	198,365.00 €	7,945.00 €	26,225.00 €	0.00 €	330,000.00 €	0.00 €	330,000.00 €	10.65 %
University of Montenegro - Institute for marine biology	0.00 €	29,984.75 €	11,821.60 €	8,065.45 €	7,326.30 €	7,109.40 €	5,692.50 €	0.00 €	70,000.00 €	0.00 €	70,000.00 €	2.26 %
CSIC - Institute of Marine Sciences	0.00 €	76,860.00 €	70,030.00 €	11,590.00 €	210,195.00 €	0.00 €	11,325.00 €	0.00 €	380,000.00 €	0.00 €	380,000.00 €	12.26 %
AIX-MARSEILLE UNIVERSITY	0.00 €	89,000.00 €	6,000.00 €	135,000.00 €	254,000.00 €	15,000.00 €	6,000.00 €	0.00 €	505,000.00 €	0.00 €	505,000.00 €	16.29 %

University of Malta	0.00 €	87,850.00 €	15,150.00 €	79,000.00 €	115,800.00 €	32,200.00 €	140,000.00 €	0.00 €	470,000.00 €	0.00 €	470,000.00 €	15.16 %
INTERMODAL TRANSPORT CLUSTER	0.00 €	31,000.00 €	65,000.00 €	13,500.00 €	13,500.00 €	13,500.00 €	13,500.00 €	0.00 €	150,000.00 €	0.00 €	150,000.00 €	4.84 %
Portuguese Institute of Sea and Atmosphere, I. P.	0.00 €	14,037.50 €	7,590.00 €	27,025.00 €	0.00 €	101,287.50 €	5,060.00 €	0.00 €	155,000.00 €	0.00 €	155,000.00 €	5.00 %
LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography	0.00 €	21,430.00 €	0.00 €	90,647.50 €	132,435.00 €	61,502.50 €	13,985.00 €	0.00 €	320,000.00 €	0.00 €	320,000.00 €	10.32 %
<b>Total</b>	<b>30,000.00 €</b>	<b>494,459.75 €</b>	<b>222,741.10 €</b>	<b>550,762.95 €</b>	<b>1,186,797.30 €</b>	<b>273,992.40 €</b>	<b>341,246.50 €</b>	<b>0.00 €</b>	<b>3,100,000.00 €</b>	<b>0.00 €</b>	<b>3,100,000.00 €</b>	
<b>% of the total budget</b>	<b>0.97 %</b>	<b>15.95 %</b>	<b>7.19 %</b>	<b>17.77 %</b>	<b>38.28 %</b>	<b>8.84 %</b>	<b>11.01 %</b>	<b>0.00 %</b>	<b>100.00 %</b>	<b>0.00 %</b>	<b>100.00 %</b>	<b>100.00 %</b>
ERDF	30,000.00 €	464,475.00 €	210,919.50 €	542,697.50 €	1,179,471.00 €	266,883.00 €	335,554.00 €	0.00 €	3,030,000.00 €	0.00 €	3,030,000.00 €	97.74 %
IPA Funding	0.00 €	29,984.75 €	11,821.60 €	8,065.45 €	7,326.30 €	7,109.40 €	5,692.50 €	0.00 €	70,000.00 €	0.00 €	70,000.00 €	2.26 %
<b>Total EU funds</b>	<b>30,000.00 €</b>	<b>494,459.75 €</b>	<b>222,741.10 €</b>	<b>550,762.95 €</b>	<b>1,186,797.30 €</b>	<b>273,992.40 €</b>	<b>341,246.50 €</b>	<b>0.00 €</b>	<b>3,100,000.00 €</b>	<b>0.00 €</b>	<b>3,100,000.00 €</b>	<b>100.00 %</b>

## D.4 Project budget – overview per WP/ per budget line

	Staff costs	Office and Administration	Travel and Accommodation	External Expertise and Services	Equipment	Preparation costs	Total budget	Net revenue	Total eligible budget	% total eligible budget
0 Preparation costs	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	30,000.00 €	30,000.00 €	0.00 €	30,000.00 €	0.97 %

1 Project management	292,065.00 €	43,809.75 €	70,585.00 €	83,500.00 €	4,500.00 €	0.00 €	494,459.75 €	0.00 €	494,459.75 €	15.95 %
2 Project communication	150,514.00 €	22,577.10 €	14,650.00 €	31,800.00 €	3,200.00 €	0.00 €	222,741.10 €	0.00 €	222,741.10 €	7.19 %
3 Studying	333,818.00 €	50,072.70 €	27,650.00 €	91,000.00 €	48,222.25 €	0.00 €	550,762.95 €	0.00 €	550,762.95 €	17.77 %
4 Testing	692,302.00 €	103,845.30 €	43,750.00 €	197,500.00 €	149,400.00 €	0.00 €	1,186,797.30 €	0.00 €	1,186,797.30 €	38.28 %
5 Transferring	110,026.00 €	16,503.90 €	12,000.00 €	122,462.50 €	13,000.00 €	0.00 €	273,992.40 €	0.00 €	273,992.40 €	8.84 %
6 Capitalising	199,300.00 €	29,895.00 €	19,851.50 €	91,500.00 €	700.00 €	0.00 €	341,246.50 €	0.00 €	341,246.50 €	11.01 %
7 Ad hoc WP	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 %
<b>Total</b>	<b>1,778,025.00 €</b>	<b>266,703.75 €</b>	<b>188,486.50 €</b>	<b>617,762.50 €</b>	<b>219,022.25 €</b>	<b>30,000.00 €</b>	<b>3,100,000.00 €</b>	<b>0.00 €</b>	<b>3,100,000.00 €</b>	
<b>% of the total budget</b>	<b>57.36 %</b>	<b>8.60 %</b>	<b>6.08 %</b>	<b>19.93 %</b>	<b>7.07 %</b>	<b>0.97 %</b>	<b>100.00 %</b>	<b>0.00 %</b>	<b>100.00 %</b>	<b>100.00 %</b>
ERDF	1,756,740.00 €	263,511.00 €	176,486.50 €	593,162.50 €	210,100.00 €	30,000.00 €	3,030,000.00 €	0.00 €	3,030,000.00 €	97.74 %
IPA Funding	21,285.00 €	3,192.75 €	12,000.00 €	24,600.00 €	8,922.25 €	0.00 €	70,000.00 €	0.00 €	70,000.00 €	2.26 %
<b>Total EU funds</b>	<b>1,778,025.00 €</b>	<b>266,703.75 €</b>	<b>188,486.50 €</b>	<b>617,762.50 €</b>	<b>219,022.25 €</b>	<b>30,000.00 €</b>	<b>3,100,000.00 €</b>	<b>0.00 €</b>	<b>3,100,000.00 €</b>	<b>100.00 %</b>

## D.6 Net revenues

Partner	Amount
OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	0.00 €
Valenciaport Foundation for Research, Promotion and Commercial Studies of the Valencian region	0.00 €



National Institute of Biology	0.00 €
University of Montenegro - Institute for marine biology	0.00 €
CSIC - Institute of Marine Sciences	0.00 €
AIX-MARSEILLE UNIVERSITY	0.00 €
University of Malta	0.00 €
INTERMODAL TRANSPORT CLUSTER	0.00 €
Portuguese Institute of Sea and Atmosphere, I. P.	0.00 €
LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography	0.00 €
<b>Total</b>	<b>0.00 €</b>
<b>% of the total budget</b>	<b>0.00 %</b>
<b>Total EU funds</b>	<b>0.00 €</b>

## D.7 Origin of partner contribution

Partner	Name of the organisation/source of the contribution or own contribution	Nature of the private/public contribution	% of the total contribution of partners	Amount	Cash contribution
OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)	Fondo di Rotazione ai sensi Delibera CIPE N. 10 del 28 gennaio 2015	public	19,35 %	90,000.00 €	90,000.00 €

LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography	Fondo di Rotazione ai sensi Delibera CIPE N. 10 del 28 gennaio 2015	public	10.32 %	48,000.00 €	48,000.00 €
Valenciaport Foundation for Research, Promotion and Commercial Studies of the Valencian region	Spanish Ministry of Public Works	public	3.87 %	18,000.00 €	18,000.00 €
National Institute of Biology	National Institute of Biology	public	10.65 %	49,500.00 €	49,500.00 €
CSIC - Institute of Marine Sciences	CSIC - Institute of Marine Sciences	public	12.26 %	57,000.00 €	57,000.00 €
AIX-MARSEILLE UNIVERSITY	AIX-MARSEILLE UNIVERSITY	public	16.29 %	75,750.00 €	75,750.00 €
University of Malta	University of Malta	public	15.16 %	70,500.00 €	70,500.00 €
INTERMODAL TRANSPORT CLUSTER	INTERMODAL TRANSPORT CLUSTER	public	4.84 %	22,500.00 €	22,500.00 €
Portuguese Institute of Sea and Atmosphere, I. P.	Portuguese Institute of Sea and Atmosphere, I. P.	public	5.00 %	23,250.00 €	23,250.00 €
University of Montenegro - Institute for marine biology	University of Montenegro - Institute for marine biology	public	2.26 %	10,500.00 €	10,500.00 €
Sub-total of public contributions			100.00 %	465,000.00 €	465,000.00 €
Sub-total of private contributions			0.00 %	0.00 €	0.00 €
Total				465,000.00 €	465,000.00 €

## D.8 Partner budget - overview per WP/ per budget line

## OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale)

	Staff costs	Office and Administration	Travel and Accommodation	External Expertise and Services	Equipment	Preparation costs	Total budget	Net revenue	Total eligible budget	% total eligible budget
0 Preparation costs	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	30,000.00 €	30,000.00 €	0.00 €	30,000.00 €	5.00 %
1 Project management	66,000.00 €	9,900.00 €	9,500.00 €	15,000.00 €	0.00 €	0.00 €	100,400.00 €	0.00 €	100,400.00 €	16.73 %
2 Project communication	19,000.00 €	2,850.00 €	0.00 €	0.00 €	0.00 €	0.00 €	21,850.00 €	0.00 €	21,850.00 €	3.64 %
3 Studying	83,000.00 €	12,450.00 €	9,150.00 €	6,000.00 €	6,550.00 €	0.00 €	117,150.00 €	0.00 €	117,150.00 €	19.53 %
4 Testing	149,000.00 €	22,350.00 €	9,100.00 €	21,000.00 €	4,000.00 €	0.00 €	205,450.00 €	0.00 €	205,450.00 €	34.24 %
5 Transferring	11,000.00 €	1,650.00 €	3,500.00 €	5,500.00 €	0.00 €	0.00 €	21,650.00 €	0.00 €	21,650.00 €	3.61 %
6 Capitalising	61,000.00 €	9,150.00 €	12,650.00 €	20,000.00 €	700.00 €	0.00 €	103,500.00 €	0.00 €	103,500.00 €	17.25 %
7 Ad hoc WP	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 %
<b>Total</b>	<b>389,000.00 €</b>	<b>58,350.00 €</b>	<b>43,900.00 €</b>	<b>67,500.00 €</b>	<b>11,250.00 €</b>	<b>30,000.00 €</b>	<b>600,000.00 €</b>	<b>0.00 €</b>	<b>600,000.00 €</b>	
<b>% of the total budget</b>	<b>64.83 %</b>	<b>9.73 %</b>	<b>7.32 %</b>	<b>11.25 %</b>	<b>1.88 %</b>	<b>5.00 %</b>	<b>100.00 %</b>	<b>0.00 %</b>	<b>100.00 %</b>	<b>100.00 %</b>

## Valenciaport Foundation for Research, Promotion and Commercial Studies of the Valencian region

	Staff costs	Office and Administration	Travel and Accommodation	External Expertise and Services	Equipment	Preparation costs	Total budget	Net revenue	Total eligible budget	% total eligible budget
0 Preparation costs	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 %
1 Project management	17,050.00 €	2,557.50 €	4,000.00 €	6,000.00 €	0.00 €	0.00 €	29,607.50 €	0.00 €	29,607.50 €	24.67 %
2 Project communication	8,530.00 €	1,279.50 €	1,100.00 €	0.00 €	0.00 €	0.00 €	10,909.50 €	0.00 €	10,909.50 €	9.09 %
3 Studying	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 %
4 Testing	33,240.00 €	4,986.00 €	1,500.00 €	10,000.00 €	0.00 €	0.00 €	49,726.00 €	0.00 €	49,726.00 €	41.44 %

5 Transferring	8,520.00 €	1,278.00 €	1,000.00 €	3,000.00 €	0.00 €	0.00 €	13,798.00 €	0.00 €	13,798.00 €	11.50 %
6 Capitalising	11,700.00 €	1,755.00 €	2,504.00 €	0.00 €	0.00 €	0.00 €	15,959.00 €	0.00 €	15,959.00 €	13.30 %
7 Ad hoc WP	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 %
<b>Total</b>	<b>79,040.00 €</b>	<b>11,856.00 €</b>	<b>10,104.00 €</b>	<b>19,000.00 €</b>	<b>0.00 €</b>	<b>0.00 €</b>	<b>120,000.00 €</b>	<b>0.00 €</b>	<b>120,000.00 €</b>	
<b>% of the total budget</b>	<b>65.87 %</b>	<b>9.88 %</b>	<b>8.42 %</b>	<b>15.83 %</b>	<b>0.00 %</b>	<b>0.00 %</b>	<b>100.00 %</b>	<b>0.00 %</b>	<b>100.00 %</b>	<b>100.00 %</b>

## National Institute of Biology

	Staff costs	Office and Administration	Travel and Accommodation	External Expertise and Services	Equipment	Preparation costs	Total budget	Net revenue	Total eligible budget	% total eligible budget
0 Preparation costs	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 %
1 Project management	8,600.00 €	1,290.00 €	4,400.00 €	0.00 €	0.00 €	0.00 €	14,290.00 €	0.00 €	14,290.00 €	4.33 %
2 Project communication	8,600.00 €	1,290.00 €	1,500.00 €	3,000.00 €	0.00 €	0.00 €	14,390.00 €	0.00 €	14,390.00 €	4.36 %
3 Studying	55,900.00 €	8,385.00 €	4,500.00 €	0.00 €	0.00 €	0.00 €	68,785.00 €	0.00 €	68,785.00 €	20.84 %
4 Testing	73,100.00 €	10,965.00 €	9,000.00 €	0.00 €	105,300.00 €	0.00 €	198,365.00 €	0.00 €	198,365.00 €	60.11 %
5 Transferring	4,300.00 €	645.00 €	0.00 €	3,000.00 €	0.00 €	0.00 €	7,945.00 €	0.00 €	7,945.00 €	2.41 %
6 Capitalising	21,500.00 €	3,225.00 €	1,500.00 €	0.00 €	0.00 €	0.00 €	26,225.00 €	0.00 €	26,225.00 €	7.95 %
7 Ad hoc WP	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 %
<b>Total</b>	<b>172,000.00 €</b>	<b>25,800.00 €</b>	<b>20,900.00 €</b>	<b>6,000.00 €</b>	<b>105,300.00 €</b>	<b>0.00 €</b>	<b>330,000.00 €</b>	<b>0.00 €</b>	<b>330,000.00 €</b>	
<b>% of the total budget</b>	<b>52.12 %</b>	<b>7.82 %</b>	<b>6.33 %</b>	<b>1.82 %</b>	<b>31.91 %</b>	<b>0.00 %</b>	<b>100.00 %</b>	<b>0.00 %</b>	<b>100.00 %</b>	<b>100.00 %</b>

## University of Montenegro - Institute for marine biology

	Staff costs	Office and Administration	Travel and Accommodation	External Expertise and Services	Equipment	Preparation costs	Total budget	Net revenue	Total eligible budget	% total eligible budget

0 Preparation costs	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 %
1 Project management	3,465.00 €	519.75 €	9,000.00 €	12,500.00 €	4,500.00 €	0.00 €	29,984.75 €	0.00 €	29,984.75 €	42.84 %
2 Project communication	1,584.00 €	237.60 €	0.00 €	10,000.00 €	0.00 €	0.00 €	11,821.60 €	0.00 €	11,821.60 €	16.89 %
3 Studying	3,168.00 €	475.20 €	0.00 €	0.00 €	4,422.25 €	0.00 €	8,065.45 €	0.00 €	8,065.45 €	11.52 %
4 Testing	3,762.00 €	564.30 €	3,000.00 €	0.00 €	0.00 €	0.00 €	7,326.30 €	0.00 €	7,326.30 €	10.47 %
5 Transferring	4,356.00 €	653.40 €	0.00 €	2,100.00 €	0.00 €	0.00 €	7,109.40 €	0.00 €	7,109.40 €	10.16 %
6 Capitalising	4,950.00 €	742.50 €	0.00 €	0.00 €	0.00 €	0.00 €	5,692.50 €	0.00 €	5,692.50 €	8.13 %
7 Ad hoc WP	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 %
<b>Total</b>	<b>21,285.00 €</b>	<b>3,192.75 €</b>	<b>12,000.00 €</b>	<b>24,600.00 €</b>	<b>8,922.25 €</b>	<b>0.00 €</b>	<b>70,000.00 €</b>	<b>0.00 €</b>	<b>70,000.00 €</b>	
<b>% of the total budget</b>	<b>30.41 %</b>	<b>4.56 %</b>	<b>17.14 %</b>	<b>35.14 %</b>	<b>12.75 %</b>	<b>0.00 %</b>	<b>100.00 %</b>	<b>0.00 %</b>	<b>100.00 %</b>	<b>100.00 %</b>

## CSIC - Institute of Marine Sciences

	Staff costs	Office and Administration	Travel and Accommodation	External Expertise and Services	Equipment	Preparation costs	Total budget	Net revenue	Total eligible budget	% total eligible budget
0 Preparation costs	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 %
1 Project management	49,500.00 €	7,425.00 €	12,435.00 €	7,500.00 €	0.00 €	0.00 €	76,860.00 €	0.00 €	76,860.00 €	20.23 %
2 Project communication	54,200.00 €	8,130.00 €	4,500.00 €	0.00 €	3,200.00 €	0.00 €	70,030.00 €	0.00 €	70,030.00 €	18.43 %
3 Studying	6,600.00 €	990.00 €	0.00 €	4,000.00 €	0.00 €	0.00 €	11,590.00 €	0.00 €	11,590.00 €	3.05 %
4 Testing	179,300.00 €	26,895.00 €	0.00 €	4,000.00 €	0.00 €	0.00 €	210,195.00 €	0.00 €	210,195.00 €	55.31 %
5 Transferring	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 %
6 Capitalising	5,500.00 €	825.00 €	0.00 €	5,000.00 €	0.00 €	0.00 €	11,325.00 €	0.00 €	11,325.00 €	2.98 %
7 Ad hoc WP	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 %

<b>Total</b>	<b>295,100.00 €</b>	<b>44,265.00 €</b>	<b>16,935.00 €</b>	<b>20,500.00 €</b>	<b>3,200.00 €</b>	<b>0.00 €</b>	<b>380,000.00 €</b>	<b>0.00 €</b>	<b>380,000.00 €</b>	
<b>% of the total budget</b>	<b>77.66 %</b>	<b>11.65 %</b>	<b>4.46 %</b>	<b>5.39 %</b>	<b>0.84 %</b>	<b>0.00 %</b>	<b>100.00 %</b>	<b>0.00 %</b>	<b>100.00 %</b>	<b>100.00 %</b>

## AIX-MARSEILLE UNIVERSITY

	<b>Staff costs</b>	<b>Office and Administration</b>	<b>Travel and Accommodation</b>	<b>External Expertise and Services</b>	<b>Equipment</b>	<b>Preparation costs</b>	<b>Total budget</b>	<b>Net revenue</b>	<b>Total eligible budget</b>	<b>% total eligible budget</b>
0 Preparation costs	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 %
1 Project management	75,000.00 €	11,250.00 €	2,750.00 €	0.00 €	0.00 €	0.00 €	89,000.00 €	0.00 €	89,000.00 €	17.62 %
2 Project communication	0.00 €	0.00 €	6,000.00 €	0.00 €	0.00 €	0.00 €	6,000.00 €	0.00 €	6,000.00 €	1.19 %
3 Studying	65,000.00 €	9,750.00 €	14,000.00 €	9,000.00 €	37,250.00 €	0.00 €	135,000.00 €	0.00 €	135,000.00 €	26.73 %
4 Testing	145,000.00 €	21,750.00 €	21,150.00 €	26,000.00 €	40,100.00 €	0.00 €	254,000.00 €	0.00 €	254,000.00 €	50.30 %
5 Transferring	0.00 €	0.00 €	0.00 €	2,000.00 €	13,000.00 €	0.00 €	15,000.00 €	0.00 €	15,000.00 €	2.97 %
6 Capitalising	0.00 €	0.00 €	1,000.00 €	5,000.00 €	0.00 €	0.00 €	6,000.00 €	0.00 €	6,000.00 €	1.19 %
7 Ad hoc WP	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 %
<b>Total</b>	<b>285,000.00 €</b>	<b>42,750.00 €</b>	<b>44,900.00 €</b>	<b>42,000.00 €</b>	<b>90,350.00 €</b>	<b>0.00 €</b>	<b>505,000.00 €</b>	<b>0.00 €</b>	<b>505,000.00 €</b>	
<b>% of the total budget</b>	<b>56.44 %</b>	<b>8.47 %</b>	<b>8.89 %</b>	<b>8.32 %</b>	<b>17.89 %</b>	<b>0.00 %</b>	<b>100.00 %</b>	<b>0.00 %</b>	<b>100.00 %</b>	<b>100.00 %</b>

## University of Malta

	<b>Staff costs</b>	<b>Office and Administration</b>	<b>Travel and Accommodation</b>	<b>External Expertise and Services</b>	<b>Equipment</b>	<b>Preparation costs</b>	<b>Total budget</b>	<b>Net revenue</b>	<b>Total eligible budget</b>	<b>% total eligible budget</b>
0 Preparation costs	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 %
1 Project management	39,000.00 €	5,850.00 €	15,000.00 €	28,000.00 €	0.00 €	0.00 €	87,850.00 €	0.00 €	87,850.00 €	18.69 %
2 Project communication	9,000.00 €	1,350.00 €	0.00 €	4,800.00 €	0.00 €	0.00 €	15,150.00 €	0.00 €	15,150.00 €	3.22 %

3 Studying	60,000.00 €	9,000.00 €	0.00 €	10,000.00 €	0.00 €	0.00 €	79,000.00 €	0.00 €	79,000.00 €	16.81 %
4 Testing	62,000.00 €	9,300.00 €	0.00 €	44,500.00 €	0.00 €	0.00 €	115,800.00 €	0.00 €	115,800.00 €	24.64 %
5 Transferring	19,000.00 €	2,850.00 €	0.00 €	10,350.00 €	0.00 €	0.00 €	32,200.00 €	0.00 €	32,200.00 €	6.85 %
6 Capitalising	70,000.00 €	10,500.00 €	0.00 €	59,500.00 €	0.00 €	0.00 €	140,000.00 €	0.00 €	140,000.00 €	29.79 %
7 Ad hoc WP	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 %
<b>Total</b>	<b>259,000.00 €</b>	<b>38,850.00 €</b>	<b>15,000.00 €</b>	<b>157,150.00 €</b>	<b>0.00 €</b>	<b>0.00 €</b>	<b>470,000.00 €</b>	<b>0.00 €</b>	<b>470,000.00 €</b>	
<b>% of the total budget</b>	<b>55.11 %</b>	<b>8.27 %</b>	<b>3.19 %</b>	<b>33.44 %</b>	<b>0.00 %</b>	<b>0.00 %</b>	<b>100.00 %</b>	<b>0.00 %</b>	<b>100.00 %</b>	<b>100.00 %</b>

## INTERMODAL TRANSPORT CLUSTER

	Staff costs	Office and Administration	Travel and Accommodation	External Expertise and Services	Equipment	Preparation costs	Total budget	Net revenue	Total eligible budget	% total eligible budget
0 Preparation costs	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 %
1 Project management	20,000.00 €	3,000.00 €	5,000.00 €	3,000.00 €	0.00 €	0.00 €	31,000.00 €	0.00 €	31,000.00 €	20.67 %
2 Project communication	43,000.00 €	6,450.00 €	1,550.00 €	14,000.00 €	0.00 €	0.00 €	65,000.00 €	0.00 €	65,000.00 €	43.33 %
3 Studying	10,000.00 €	1,500.00 €	0.00 €	2,000.00 €	0.00 €	0.00 €	13,500.00 €	0.00 €	13,500.00 €	9.00 %
4 Testing	10,000.00 €	1,500.00 €	0.00 €	2,000.00 €	0.00 €	0.00 €	13,500.00 €	0.00 €	13,500.00 €	9.00 %
5 Transferring	10,000.00 €	1,500.00 €	0.00 €	2,000.00 €	0.00 €	0.00 €	13,500.00 €	0.00 €	13,500.00 €	9.00 %
6 Capitalising	10,000.00 €	1,500.00 €	0.00 €	2,000.00 €	0.00 €	0.00 €	13,500.00 €	0.00 €	13,500.00 €	9.00 %
7 Ad hoc WP	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 %
<b>Total</b>	<b>103,000.00 €</b>	<b>15,450.00 €</b>	<b>6,550.00 €</b>	<b>25,000.00 €</b>	<b>0.00 €</b>	<b>0.00 €</b>	<b>150,000.00 €</b>	<b>0.00 €</b>	<b>150,000.00 €</b>	
<b>% of the total budget</b>	<b>68.67 %</b>	<b>10.30 %</b>	<b>4.37 %</b>	<b>16.67 %</b>	<b>0.00 %</b>	<b>0.00 %</b>	<b>100.00 %</b>	<b>0.00 %</b>	<b>100.00 %</b>	<b>100.00 %</b>

Portuguese Institute of Sea and Atmosphere, I. P.

	Staff costs	Office and Administration	Travel and Accommodation	External Expertise and Services	Equipment	Preparation costs	Total budget	Net revenue	Total eligible budget	% total eligible budget
0 Preparation costs	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 %
1 Project management	5,250.00 €	787.50 €	2,500.00 €	5,500.00 €	0.00 €	0.00 €	14,037.50 €	0.00 €	14,037.50 €	9.06 %
2 Project communication	6,600.00 €	990.00 €	0.00 €	0.00 €	0.00 €	0.00 €	7,590.00 €	0.00 €	7,590.00 €	4.90 %
3 Studying	23,500.00 €	3,525.00 €	0.00 €	0.00 €	0.00 €	0.00 €	27,025.00 €	0.00 €	27,025.00 €	17.44 %
4 Testing	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 %
5 Transferring	38,500.00 €	5,775.00 €	7,500.00 €	49,512.50 €	0.00 €	0.00 €	101,287.50 €	0.00 €	101,287.50 €	65.35 %
6 Capitalising	4,400.00 €	660.00 €	0.00 €	0.00 €	0.00 €	0.00 €	5,060.00 €	0.00 €	5,060.00 €	3.26 %
7 Ad hoc WP	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 %
<b>Total</b>	<b>78,250.00 €</b>	<b>11,737.50 €</b>	<b>10,000.00 €</b>	<b>55,012.50 €</b>	<b>0.00 €</b>	<b>0.00 €</b>	<b>155,000.00 €</b>	<b>0.00 €</b>	<b>155,000.00 €</b>	
<b>% of the total budget</b>	<b>50.48 %</b>	<b>7.57 %</b>	<b>6.45 %</b>	<b>35.49 %</b>	<b>0.00 %</b>	<b>0.00 %</b>	<b>100.00 %</b>	<b>0.00 %</b>	<b>100.00 %</b>	<b>100.00 %</b>

## LaMMA Consortium - Environmental Monitoring and Modelling Laboratory for Sustainable Development-- Division of Oceanography

	Staff costs	Office and Administration	Travel and Accommodation	External Expertise and Services	Equipment	Preparation costs	Total budget	Net revenue	Total eligible budget	% total eligible budget
0 Preparation costs	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 %
1 Project management	8,200.00 €	1,230.00 €	6,000.00 €	6,000.00 €	0.00 €	0.00 €	21,430.00 €	0.00 €	21,430.00 €	6.70 %
2 Project communication	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 %
3 Studying	26,650.00 €	3,997.50 €	0.00 €	60,000.00 €	0.00 €	0.00 €	90,647.50 €	0.00 €	90,647.50 €	28.33 %
4 Testing	36,900.00 €	5,535.00 €	0.00 €	90,000.00 €	0.00 €	0.00 €	132,435.00 €	0.00 €	132,435.00 €	41.39 %
5 Transferring	14,350.00 €	2,152.50 €	0.00 €	45,000.00 €	0.00 €	0.00 €	61,502.50 €	0.00 €	61,502.50 €	19.22 %



6 Capitalising	10,250.00 €	1,537.50 €	2,197.50 €	0.00 €	0.00 €	0.00 €	13,985.00 €	0.00 €	13,985.00 €	4.37 %
7 Ad hoc WP	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 %
Total	96,350.00 €	14,452.50 €	8,197.50 €	201,000.00 €	0.00 €	0.00 €	320,000.00 €	0.00 €	320,000.00 €	
% of the total budget	30.11 %	4.52 %	2.56 %	62.81 %	0.00 %	0.00 %	100.00 %	0.00 %	100.00 %	100.00 %

## D.9 Project budget - overview per semesters

Reference period	Expenditure forecast per period of implementation (€)			
	Total eligible (€) of partners ERDF	ERDF	Total eligible (€) of partners IPA Funding	IPA Funding
Semester I (from 01/09/2019 to 29/02/2020)	300,000.00 €	255,000.00 €	12,000.00 €	10,200.00 €
Semester II (from 01/03/2020 to 31/08/2020)	590,000.00 €	501,500.00 €	9,000.00 €	7,650.00 €
Semester III (from 01/09/2020 to 28/02/2021)	600,000.00 €	510,000.00 €	15,000.00 €	12,750.00 €
Semester IV (from 01/03/2021 to 31/08/2021)	750,000.00 €	637,500.00 €	14,000.00 €	11,900.00 €
Semester V (from 01/09/2021 to 28/02/2022)	490,000.00 €	416,500.00 €	11,500.00 €	9,775.00 €
Semester VI (from 01/03/2022 to 30/06/2022)	300,000.00 €	255,000.00 €	8,500.00 €	7,225.00 €
<b>Total</b>	<b>3,030,000.00 €</b>	<b>2,575,500.00 €</b>	<b>70,000.00 €</b>	<b>59,500.00 €</b>

## **PART E - Lead Partner confirmation and signature page**

### **E.1. Lead Partner confirmation and signature page**

By signing the application form the Lead Partner on behalf of all partners, confirms that:

- ☐ the project neither in whole or in part has or will receive any other additional EU funds (except for the funds indicated in this application form) during the whole duration of the project;
- ☐ the project partners listed in the application form are committed to take part in the project's activities and financing;
- ☐ the project is in line with the relevant EU and national/regional legislation and policies of the regions and countries involved;
- ☐ the Lead Partner and the project partners will act according to the provisions of the relevant national and EU regulations, especially regarding structural funds, public procurement, state aid, equal opportunities and sustainable development, as well as the specific provisions of the programme;
- ☐ the lead partner and the project partners are aware about their obligations, rights and commitments arising from the implementation of the European Union General Data Protection Regulation (GDPR) 2016/679 entered into force on 24 May 2016 and applied since 25 May 2018;
- ☐ the project respects equal opportunities and non-discrimination and has no harmful impact on the environment;
- ☐ the information in the application form is accurate and true to the best knowledge of the Lead Partner.

This engagement would be under the condition of confirming all the above mentioned information in the partnership agreement once, the project has been approved by the Monitoring Committee of the Interreg MED Programme.

#### **Signature**

- ☐ Place and date
- ☐ Name of signing person
- ☐ Position of signing person
- ☐ Signature of Lead Partner
- ☐ Stamp of Lead Partner