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D.3.1.1.

Methodology for the implementation of Studying phase activities

WP n°: 3

Task n°: 3.1: Coordination of Studying phase

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/ PMM-TVT, UAEGEAN, UAIG

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Executive Summary

This document presents the Methodology for the implementation of Studying phase activities and has been conducted in the framework of the project "PRoMoting security and safeTy by crEating a MED clUster on Maritime Surveillance – PROteuS". The Work Package leader of the Studying phase is the Maritime Institute of Eastern Mediterranean (Mar.In.E.M.) that will be responsible for the coordination of the foreseen activities and the provision of the guidelines which will be followed by the consortium.

The scope of the document is to define the steps and the processes that have to be applied by the involved partners aiming at achieving qualitative results through the elaboration of the “Studying” deliverables. The process to be followed will be constantly updated based on the progress of the tasks. The final goal of the Methodology is to complete the Activities efficiently and set a solid base for the implementation of the pilot phase, which will be based on the results of the Studying phase.

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1. Scope of Work Package 3

Work Package 3 “Studying” is led by Maritime Institute of Eastern Mediterranean (PP2 - Mar.In.E.M.). The scope of the Studying phase of PROTEUS is the mapping of current state situation as far as Maritime Surveillance is concerned in the participating countries (Italy, Spain, Portugal, France, Greece and Cyprus). This process will result in the preparation of Methodologies that will act as innovative tools for the setting up and the creation, at first stage, of the national nodes and, at second stage, of the MED cluster on Maritime Surveillance (MS). More specifically, the logical framework of the Studying phase is the following:

- Activity 3.2 includes Mapping of Maritime Surveillance sectors per country that will host the national nodes during the Testing phase, focusing on priorities, involved actors, common challenges and gaps, best practices, existing clusters and regulatory framework.
- Activity 3.3 refers to Collection of existing MS technologies and applications and identification of market and business opportunities and linkages with relative industries.
- Activity 3.4 involves in Elaboration of a Methodology focusing on the design and development of the nodes that will constitute the national antennas of the MED level cluster.
- Activity 3.5 carries the Implementation of a Methodology focusing on the operation of the MED level cluster and having as priority the increase of the share of transnational activities

The ultimate goal of the aforementioned activities is the preparation of a common strategy that could be applied to the national nodes aiming at boosting their operation on Maritime Surveillance industry and the development of an action plan for the enhancement of MS in MED area focusing on predefined targets and factors.

The consortium will take advantage of the available sources coming from relevant projects, the European Commission, the European Maritime Safety Agency etc., in order to achieve qualitative and updated results.

Following the successful elaboration of Studying phase, the interested target groups will have a more concrete map of the national priorities of each country linked to Maritime Surveillance and the consortium will have the necessary tools to start the procedures of pilot testing phase.

1.1. Target Groups

The results of Studying phase will provide all valuable input to the Testing phase and will be accordingly used by the consortium aiming at addressing in the most effective way the needs of the National Nodes and MED MS Cluster members. The outputs of the WP will have an impact in the following target groups:

Regional & National Authorities:

The power of a government agency or its administrators to prepare and implement laws and government policies applicable to a specific political subdivision or geographical area within the country or the region.

SMEs:

Micro, small and medium-sized enterprises are defined according to their staff headcount and turnover or annual balance-sheet total.

- A medium-sized enterprise is defined as an enterprise which employs fewer than 250 persons and whose annual turnover does not exceed EUR 50 million or whose annual balance-sheet total does not exceed EUR 43 million.
- A small enterprise is defined as an enterprise which employs fewer than 50 persons and whose annual turnover and/or annual balance sheet total does not exceed EUR 10 million.

Large Firms:

Greater than or equal to 250 employees, regardless of revenue, or, if the number of employees is unknown, then revenue of greater than or equal to £22.8m/\$22.8m will be taken as an indicator that it is a large business.

Research/Technology Transfer (R&TT) Institutions:

Institutions which support the economic growth through the development and transfer of new technologies to the industrial community.

Intermediary Organizations:

Organizations that play a fundamental role in encouraging, promoting, and facilitating business-to-business linkages and mentor-protégé partnerships. These can include both non-profit and for-profit organizations: chambers of commerce; trade associations; local, civic, and community groups; state and local governments; academic institutions; and private corporations.

Specifically the outputs of each activity will have an impact in the following target groups:

Activity 3.2: Regional Authorities, SMEs, Large Firms, Business Support Organizations and Research/Technology Transfer (R&TT) Institutions

Activity 3.3: SMEs, Large Firms and R&TT Institutions

Activity 3.4: SMEs, Large Firms, Business Support Organizations, R&TT Institutions, National and Regional Authorities

Activity 3.5: National and Regional Authorities, Business intermediary Organization

Undoubtedly, all activities have multiple receivers due to the fact that Maritime Surveillance constitutes a sector affecting many different target groups, however the above mentioned are the main targets.

1.2. Main Output of Work package 3

PROteuS project has defined specific outputs that are clearly link to MED Programme's Priorities and its indicators. Each output corresponds to project's deliverables and the scope is to cover the following prerequisites:

- be in accordance with the selected target groups needs
- be specific, realistic and durable
- be applicable and replicable by other organizations/regions/countries outside of the current partnership (transferability)

Work package 3 describes the elaboration of two Methodologies; one focusing on the setting up of National Nodes and one for their interaction through the MED MS Cluster as defined in Deliverable 3.4.1 and Deliverable 3.4.2 accordingly. Also, WP3 describes the design of a mechanism defined in Deliverable 3.5.1 that will act as a model presenting all the guidelines and tools to be applied, enhancing innovation capacities of the involved SMEs and their transnational cooperation. Hence, the main output of this package is the supportive mechanisms and tools which aim at enhancing innovation capacities related to MS sector.

Mar.In.E.M. will be the leader for the coordination of Studying phase which consists of the elaboration of a Methodology providing a set of guidelines referring to the foreseen tasks, roles, tools and timeplan. The Methodology will be elaborated within the first 2 months of the project; however it will be constantly updated till the end of Module 1 to assure the smooth implementation of the related activities.

The details regarding the WP's output are depicted in the table below:

Table 1: WP's output

OUTPUT	Description	Number	Linked Deliverables/ Activities	Delivery Dates	Programme output indicator
WP 3					
Supportive mechanisms and tools aiming at enhancing innovation capacities related to MS sector	Elaboration of one Methodology focusing on the setting up of National Nodes and one for their interaction through the MED MS Cluster, as well as design of a mechanism that will act as a model presenting all the guidelines and tools to be applied, enhancing innovation capacities of the involved SMEs and their transnational cooperation.	3	3.4.1: National Nodes' Methodology	30/9/2017	Number of operational instruments to favour innovation of SMEs
			3.4.2: MED MS Cluster Methodology	31/10/2017	
			3.5.1: Common mechanism enhancing the operation of MED MS Cluster	31/12/2017	

2. Methodology for the implementation of Studying Phase

Through the quadruple helix analysis an approach that involves Academic, Government, Industry and Citizens all of which will cooperate in order to achieve knowledge and technology transfer focusing in MED area, the partnership will try to address the priority of achieving effective data exchange. The scope of the Methodology is to set the guidelines that will be followed by the partnership during the implementation period of Work Package 3 (15 months period).

The Work Package leader in strict cooperation with the Lead Applicant, aiming at achieving qualitative results as well as a smooth and efficient implementation of the foreseen activities through the constant communication and day to day guidance to the involved partners. Mar.In.E.M. together with the LP will organize Skype meetings whenever it is necessary and will also exchange e-mails especially with the responsible partner of each deliverable to assure that all involved partners are aware of their responsibilities and the approved time plan.

Opportune information will be shared with the other WP leaders, in view to facilitate the transfer of knowledge for the finalization of the project.

2.1. Deliverables' milestones and implementation steps

The partners that are leading a deliverable will also be responsible for the coordination of the involved partners. The flow of information exchange is depicted in the below table.

The procedure that needs to be followed by Consortium Partners for the successful implementation of each deliverable is described in this paragraph. At first stage, and fifteen days before the deliverable's starting date, Skype meeting must be held for an exchange of ideas regarding task and issues that will be included in the deliverable. Responsible Partner for the deliverable has a duty to organize the Skype meeting and invite the following partners: Activity Leader, WP Leader and Lead Partner. Thereupon and ten days before the deliverable starts, PP must prepare the structure of the deliverable based on Projects template and ToC and send this to partners which attended the Skype conference. Within 3 working days, receivers of the structure must revert to PP with their comments. PP must take into consideration the comments and make changes where applicable. Also, three days prior deliverable's starting date, second Skype meeting must take place with the same attendees; this is for final comments and approval.

In a second stage, PP has to assign responsibilities and distribute it to the involved partners on the deliverable's starting date. As a second step, involved partners, Activity Leader, WP Leader and LP should revert to Responsible Partner (PP) with their comments on ToC within five working days. The final version with amendments will be sent by PP to involved partners, Activity leader, WP leader and LP within three working days for final approval. If no comments received, step 7 can be skipped.

Finally, and twenty days before the deliverable's ending date, the first draft of the deliverable/ contributions must be distributed from the involved partners to the PP, Activity Leader, WP Leader and LP. Within five working days PP, Activity Leader, WP Leader and LP should send their comments, clarifications and modifications to the involved partners. At that moment, involved partners need to update the version of deliverable and send it back for final approve to PP, Activity Leader, WP Leader and LP within seven working days. Three days before deliverable's ending date, PP shares the final version to all partners. Deliverable's ending date is the date when all partners approve the deliverable.

Table 2: Flow of information

Step	Partner	Task	Sent to	Time-plan
1	Responsible Partner for the Deliverable (PP)	Skype conference (exchange ideas regarding task and issues that will be included in the Deliverable)	Activity Leader, WP Leader, LP	15 working days before deliverable's starting date
2	PP	Prepare structure based on Projects template, ToC. Possible exchange of plans / documents	Activity Leader, WP Leader, LP	10 working days before deliverable's starting date
3	Activity Leader, WP Leader, LP	Revert with comments	PP	7 working days before deliverable's starting date
4	PP	Amend comments, Skype conference for final comments and approval	Activity Leader, WP Leader, LP	3 working days before deliverable's starting date
5	PP	Assign responsibilities to the involved partners	Involved Partners	Deliverable's starting date
6	Involved Partners	Comments on ToC and responsibilities	PP	5 working days after deliverable's starting date
7	PP	Final ToC and responsibilities	Involved Partners, Activity Leader, WP Leader, LP	3 working days after Step 6

8	Involved Partners	First draft of deliverable/ contribution	PP, Activity Leader, WP leader, LP	20 working days before deliverable's ending date
9	PP, Activity Leader, WP leader, LP	Comments/ Clarifications/ Modifications	Involved Partners	15 working days before deliverable's ending date
10	Involved Partners	Updated version of deliverable/ contribution	PP, Activity Leader, WP leader, LP	8 working days before deliverable's ending date
11	PP	Share with all the partnership the final version	Partnership	3 days before Deliverable's ending date
12	Partnership	Approval of the deliverable	Partnership	Deliverable's ending date

3. Description of Actions for the Activities and Deliverables

In the tables below you can find the responsible partner for each Activity in Work package 3 the activities' starting and ending month, participating partners and finally an indicative Description of Action. In addition, for each Deliverable, the WP Leader has defined an indicative Table of Contents (ToC) and a list of issues that have to be clarified and taken into consideration before and during the elaboration of the Deliverable, after the finalization of each deliverable the tables will be updated indicating the final version of the deliverable.

Table 3: Activity 3.1

Coordination of Studying Phase	Starting month	01/11/2016	Ending month	31/01/2018
Responsible Partner	Maritime Institute of Eastern Mediterranean (Mar.In.E.M.)			
Participating Partners	CCIAA DL, CCSEV, FEPORTS, Mar.In.E.M., Liguria Ricerche S.p.A., PPA, TVT / PMM-TVT, UAEGEAN, UAlg			
Description	MARINEM will be the leader for the coordination of Studying phase which consists of the elaboration of a Methodology providing a set of guidelines referring to the foreseen tasks, roles, tools and time plan. The Methodology will be elaborated within the first 2 months of the project; however it will be constantly updated till the end of Module 1 to assure the smooth implementation of the related activities.			

Table 4: Deliverable 3.1.1

Deliverable Title	Type of Deliverable	Target Value	Deliverable Deadline	Indicative Budget
Methodology for the implementation of studying phase activities	Method	1 Unit Produced	31/12/2016	30,319.50€
Responsible Partner	Maritime Institute of Eastern Mediterranean (Mar.In.E.M.)			
Contribution Partners	CCIAA DL, CCSEV, FEPORTS, Mar.In.E.M., Liguria Ricerche S.p.A., PPA, TVT / PMM-TVT, UAEGEAN, UAlg			
Description	The Methodology will offer the guidelines for the elaboration of Studying activities, clarifying the roles, tasks, major deadlines and expected results. It will constitute the manual for the successful completion of the first project phase.			

Final table of contents (In the first draft of the deliverable the ToC was indicative and offered a draft format to the Deliverable PP that could be further enriched and shared with the involved partners- the scope was to highlight the sections that have to be referred and analyzed in the deliverable in order to ensure that it will offer the foreseen input to the following tasks)

- Executive Summary
- Scope of Work Package 3
 - Target Groups
 - Main Output of Work package 3
- Methodology for the implementation of Studying phase
 - Deliverables' milestones and implementation steps
- Description of Actions for the Activities and Deliverables
- Deliverables' Flow and Connection
- Qualitative Indicators
- Delivery Diagram of Work Package 3
- Connection between Work Package 3 and Work Package 4
- ANNEXES

Tasks and issues to be defined and synergies with past projects' deliverables (this section presents the main issues that have to be defined before and during the elaboration of the deliverable by Mar.In.E.M. and the involved partners- synergies will be initially proposed by the WP Leader and further filed in by the involved partners according to their experience)

Synergies with past project deliverable:

FIREMED project – CP3 Methodology

Tasks and Issues to be defined in the D.3.1.1:

- Sectors of Maritime Surveillance to be addressed through the project's tasks
- Roles of partners per deliverable
- Time-plan of information flow – Days per action

Table 5: Activity 3.2

Mapping of Current state situation	Starting month	01/11/2016	Ending month	30/04/2017
Responsible Partner	CHAMBER OF COMMERCE, INDUSTRY, CRAFTS AND AGRICULTURE OF VENICE ROVIGO DELTA LAGUNARE (CCIAA DL)			
Participating Partners	CCIAA DL, CCSEV, FEPORTS, Mar.In.E.M., Liguria Ricerche S.p.A., PPA, TVT / PMM-TVT, UAEGEAN, UAlg			
Description	<p>The Activity is dedicated to the regional and national analysis of the existing situation regarding MS in the participating areas. The initial phase includes the identification of the specific MS sectors (environment, port control, piracy, defense etc.), main actors, common challenges and threats regarding MS in the countries that will host the nodes in the Testing phase. In addition, the PPs will define the characteristics, members, operations of a cluster and will identify best practices in the focus sector of the project. The tasks will be completed with the elaboration of a benchmarking report taking into consideration clusters at international level, and the analysis of the Policy framework that is applied in MS sectors.</p>			

Table 6: Deliverable 3.2.1

Deliverable Title	Type of Deliverable	Target Value	Deliverable Deadline	Indicative Budget
Regional reports on Mapping of maritime surveillance sectors, challenges and involved actors	Report	5 Unit Produced	28/02/2017	49,387.50€
Responsible Partner	CHAMBER OF COMMERCE, INDUSTRY, CRAFTS AND AGRICULTURE OF VENICE ROVIGO DELTA LAGUNARE(CCIAA DL)			
Responsible Nodes' Coordinators	<ul style="list-style-type: none"> • CHAMBER OF COMMERCE, INDUSTRY, CRAFTS AND AGRICULTURE OF VENICE ROVIGO DELTA – LAGUNARE • Official Chamber of Commerce, Industry and Shipping of Seville • Toulon Var Technologies • PIRAEUS PORT AUTHORITY SA • University of Algarve 			
Description	Each Node will elaborate one national report mapping the most important maritime surveillance sectors that will be addressed in the framework of the Nodes' operation.			

Final table of contents (In the first draft of the deliverable the ToC was indicative and offered a draft format to the Deliverable PP that could be further enriched and shared with the involved partners- the scope was to highlight the sections that have to be referred and analyzed in the deliverable in order to ensure that it will offer the foreseen input to the following tasks)

- Introduction
- Short Description of the area of reference
- Mapping of Challenges & Opportunities connected with Maritime Surveillance Activities
 - Megatrends
 - Trends / Challenges & Opportunities on MS
- Identification of Maritime Surveillance Sectors
 - Sectors Overview
 - Main technological products and services
 - Research projects dealing with MS sectors in the area
- Identification of Maritime Surveillance Actors
 - Transnational, National and Regional MS Actors
 - Further MS actors
- SWOT analysis
- Conclusions

Tasks and issues to be defined and synergies with past projects' deliverables (this section presents the main issues that have to be defined before and during the elaboration of the deliverable by the Deliverable PP and the involved partners- synergies will be initially proposed by the WP Leader and further filed in by the involved partners according to their experience)

Tasks and Issues to be defined in the D.3.2.1:

- Area of reference for each report (national?); data
- Megatrends/Trends(social, technological, demographic, political, economic) to be taken into consideration in each area consistent with MS sectors/topics
- Criteria to select the MS sectors. **Current situation:** number of SMEs operating? Volume of incomes? Volume of public and private investments addressed? Number of employees? **Future situation/potential:** Capacities to meet Trends/Megatrends identified? Patents and know-how/licences applied? Potential markets of reference?)
- Challenges to be considered and consistent with the MS sectors;
- SWOT analysis of the MS sector for each area
- Criteria to identify Actors consistent with MS topics and data to be collected (link to financial instruments; link to Authorities connected with MS topics; link to clusters/services)
- Identification of Public institution/Policy makers

Synergies with past project deliverable:

CORINTHOS project (MED) – D.2.1.1 B Regional/ National Mapping of existing maritime clusters

Table 7: Deliverable 3.2.2

Deliverable Title	Type of Deliverable	Target Value	Deliverable Deadline	Indicative Budget
Identification of common challenges and opportunities for synergies in MED area	Report	1 Unit Produced	31/03/2017	42,959.50€
Responsible Partner	University of the Aegean – Research Unit (UAEGEAN)			
Contribution Partners	CCIAA DL, CCSEV, FEPORTS, Mar.In.E.M., Liguria Ricerche S.p.A., PPA, TVT / PMM-TVT, UAEGEAN, UAIG			
Description	Outputs of the previous analysis will result in an integrated report summarizing common challenges, gaps and opportunities for cooperation and synergies with other countries, as well as the effectiveness of the ongoing systems and best practices.			

Final table of contents (In the first draft of the deliverable the ToC was indicative and offered a draft format to the Deliverable PP that could be further enriched and shared with the involved partners- the scope was to highlight the sections that have to be referred and analyzed in the deliverable in order to ensure that it will offer the foreseen input to the following tasks)

- INTRODUCTION
- IDENTIFICATION AND ANALYSIS OF THE SECTORS OF MARITIME SURVEILLANCE (MS)
 - MAIN SECTORS AT EU LEVEL
 - FRANCE
 - GREECE
 - ITALY
 - SPAIN

- PORTUGAL
- CHAPTER’S KEY POINTS
- IDENTIFICATION OF THE INVOLVED STAKEHOLDERS
 - EU LEVEL
 - FRANCE
 - GREECE
 - ITALY
 - SPAIN
 - PORTUGAL
 - CHAPTER’S KEY POINTS
- IDENTIFICATION OF CHALLENGES, THREATS AND WEAKNESSES PER COUNTRY OF REFERENCE
- GAP ANALYSIS: CLUSTERS, BEST PRACTICES & INITIATIVES RELATED TO MS
 - EU LEVEL
 - FRANCE
 - GREECE
 - ITALY
 - SPAIN
 - PORTUGAL
 - CHAPTER’S KEY POINTS
- COMPARATIVE ANALYSIS OF THE ONGOING SYSTEMS AND THE BEST PRACTICES
 - COMPARATIVE ANALYSIS
 - KEY POINTS OF COMPARATIVE ANALYSIS
- OPPORTUNITIES FOR SYNERGIES IN MED AREA
 - OPPORTUNITIES & STRENGTHS OF EACH COUNTRY RELATED TO MS
 - RECOMMENDATIONS BASED ON DEL 3.1.1
 - FINAL CONCLUSIONS & PROPOSED SYNERGIES

Tasks and issues to be defined and synergies with past projects’ deliverables (this section presents the main issues that have to be defined before and during the elaboration of the deliverable by the Deliverable PP and the involved partners- synergies will be initially proposed by the WP Leader and further filed in by the involved partners according to their experience)

Issues and tasks to be defined in the D.3.2.2:

The Deliverable constitutes a comparative analysis report based on the 5 Regional state of the art reports on maritime surveillance sectors, that will be addressed in the framework of the Nodes' operation. (Del. 3.2.1.).

Synergies with past project deliverable:

CORINTHOS project (MED) – D.2.1.1.C. “Comparative transnational analysis of maritime clusters in MED area”

Table 8: Deliverable 3.2.3

Deliverable Title	Type of Deliverable	Target Value	Deliverable Deadline	Indicative Budget
Prerequisites for the operation of a MS cluster	Report	1 Unit Produced	28/02/2017	17,227.00€

Responsible Partner	Toulon Var Technologies (TVT / PMM-TVT)
Contribution Partners	Mar.In.E.M., FEPORTS and CCSEV
Description	This report will summarize the characteristics of a cluster, its operation, the proposed members, the services etc, and its role in the development of Maritime Surveillance market.

Final table of contents (In the first draft of the deliverable the ToC was indicative and offered a draft format to the Deliverable PP that could be further enriched and shared with the involved partners- the scope was to highlight the sections that have to be referred and analyzed in the deliverable in order to ensure that it will offer the foreseen input to the following tasks)

- PROTEUS at a glance
- Cluster: The basics
 - Concept and definition
 - Cluster components
 - Cluster objectives
 - Key success factors
 - Main activities
 - Funding mechanisms
 - Advantages and key characteristics
 - Evaluation of the performance
- Maritime Surveillance: The Mediterranean Context
 - Overall context
 - Country level context
- Recommendations for the establishment of the Mediterranean MS Cluster

Tasks and issues to be defined and synergies with past projects’ deliverables (this section presents the main issues that have to be defined before and during the elaboration of the deliverable by the Deliverable PP and the involved partners- synergies will be initially proposed by the WP Leader and further filed in by the involved partners according to their experience)

Issues and tasks to be defined in the D.3.2.3:

This deliverable will provide the key elements to constitute a transnational Maritime Surveillance Cluster in the Mediterranean.

This report will summarize the key characteristics of a cluster, its operation, the proposed members, the services to be provided and the role in the development of Maritime Surveillance sectors in the Mediterranean.

Synergies with past project deliverable:

Local contexts from the participating countries where the nodes will be established will be presented and summarized based on the information analysed from the five regional reports covering Greece, France Italy, Portugal and Spain - D.3.2.1. Regional reports on Mapping of Maritime surveillance sectors, challenges and involved actors.

This deliverable will also enrich the D.3.4.2 MED MS Cluster Methodology.

Table 9: Deliverable 3.2.4

Deliverable Title	Type of Deliverable	Target Value	Deliverable Deadline	Indicative Budget
Collection of maritime clusters best practices/ case studies/ failures at international level	Report	1 Unit Produced	31/03/2017	27,808.00€
Responsible Partner	Maritime Institute of Eastern Mediterranean (Mar.In.E.M.)			
Contribution Partners	FEPORTS and UAEGEAN			
Description	Study on the current state situation as far as maritime clusters that operate on Maritime Surveillance are concerned and best practices/case studies at international level that could act as paradigms for the design of the project's Nodes and Cluster.			

Final table of contents (In the first draft of the deliverable the ToC was indicative and offered a draft format to the Deliverable PP that could be further enriched and shared with the involved partners- the scope was to highlight the sections that have to be referred and analyzed in the deliverable in order to ensure that it will offer the foreseen input to the following tasks)

- Introduction
- MED - EU area
 - FRANCE
 - ITALY
 - MALTA
 - GREECE
 - PORTUGAL
 - SPAIN
 - CROATIA
- EU non-MED area
 - BELGIUM
 - BULGARIA
 - FRANCE (non MED areas)
 - DENMARK
 - FINLAND
 - NORWAY
 - ICELAND
 - IRELAND
 - GERMANY
 - LUXEMBOURG
 - POLAND
 - SWEDEN
 - NETHERLANDS
 - UNITED KINGDOM
- Non EU area
 - AUSTRALIA
 - UNITED STATES of AMERICA (CALIFORNIA)

- Conclusions
- References

Tasks and issues to be defined and synergies with past projects’ deliverables (this section presents the main issues that have to be defined before and during the elaboration of the deliverable by the Deliverable PP and the involved partners- synergies will be initially proposed by the WP Leader and further filed in by the involved partners according to their experience)

Issues and tasks to be defined in the D.3.2.4:

The Deliverable will investigate and map the current state situation as far as maritime clusters that operate on Maritime Surveillance are concerned and identify the best practices/ case studies at international level that could act as paradigms for the design of the PROteuS Nodes and Cluster.

Synergies with past project deliverable:

The deliverable has no connection with past deliverables but it will set the basis for the elaboration of the next deliverable, namely the Del. 3.2.5 “Benchmarking analysis of MED and international best practices/ case studies / clusters”

Table 10: Deliverable 3.2.5

Deliverable Title	Type of Deliverable	Target Value	Deliverable Deadline	Indicative Budget
Benchmarking analysis of MED and International best practices/ case studies/ clusters	Report	1 Unit Produced	30/04/2017	29,348.00€
Responsible Partner	FUNDACIÓN INSTITUTO PORTUARIO DE ESTUDIOS Y COOPERACIÓN DE LA COMUNIDAD VALENCIANA (FEPORTS)			
Contribution Partners	Mar.In.E.M. and UAEGEAN			
Description	Report with conclusions from mapping on prerequisites/conditions for successful maritime clusters in terms of MS, policy/governance, SMEs competitiveness, infrastructure, environment in line with Blue Growth policy and benchmarking.			

Final table of contents (In the first draft of the deliverable the ToC was indicative and offered a draft format to the Deliverable PP that could be further enriched and shared with the involved partners- the scope was to highlight the sections that have to be referred and analyzed in the deliverable in order to ensure that it will offer the foreseen input to the following tasks)

- Introduction
- Analysis of existing information
 - Analysis of regional reports
 - Analysis of indicators
- Presentation of existing clusters

- MED - EU area
- EU non-MED area
- Analysis of best practices
 - Analysis of MED clusters
 - Analysis of non-MED clusters
- Conclusions

Tasks and issues to be defined and synergies with past projects’ deliverables (this section presents the main issues that have to be defined before and during the elaboration of the deliverable by the Deliverable PP and the involved partners- synergies will be initially proposed by the WP Leader and further filed in by the involved partners according to their experience)

Issues and tasks to be defined in the D.3.2.5:

This Deliverable will analyze the functioning of other clusters in order to learn lessons for the implementation of Project’s MS MED cluster. The report must define which elements are the ones that we must analyze in a cluster according to their importance. In order to define these criteria, we will analyze proprietary information from the PROteuS project and information from previous projects that have fed into it.

Synergies with past project deliverable:

The mapping of existing cluster arose through Deliverable 3.2.4 and the quality indicator for the selection of best practices in order to conduct the analysis came out of Deliverable 3.2.3

Table 11: Deliverable 3.2.6

Deliverable Title	Type of Deliverable	Target Value	Deliverable Deadline	Indicative Budget
Policy Framework of Maritime Surveillance in MED Area	Report	1 Unit Produced	30/04/2017	21,302.50€
Responsible Partner	Liguria Ricerche S.p.A.			
Contribution Partners	Mar.In.E.M. and FEPORTS			
Description	Report presenting the Policy and Legislative framework/ collection of Directives and Laws that are applied in MED area for Maritime Surveillance aspects and relevant sectors.			

Final table of contents (In the first draft of the deliverable the ToC was indicative and offered a draft format to the Deliverable PP that could be further enriched and shared with the involved partners- the scope was to highlight the sections that have to be referred and analyzed in the deliverable in order to ensure that it will offer the foreseen input to the following tasks)

- The Maritime Surveillance in the framework of the Integrated Maritime Policy and of the Maritime Security Strategy of the European Union
 - Definition of the Maritime Surveillance in the EU framework
 - Description of the main objectives of the EU Maritime Surveillance

- The evolution of the Maritime Surveillance and its relations with the Integrated Maritime Policy and the Maritime Security Strategy of the European Union
- The European Union relevant legislation
- The relevant sectors for the Maritime Surveillance and the actors at European level
 - The Maritime Surveillance sectors in the European policies
 - The Council
 - The Commission
 - The European Maritime Safety Agency – EMSA
 - The European Defence Agency – EDA
 - The European Border and Coast Guard Agency – FRONTEX
 - The Joint Research Centre's Blue Hub
- The most relevant initiatives of the European Union in the field of the Maritime Surveillance for the implementation of PROTEUS project in the last decades
 - The SafeSeaNet system
 - The CleanSeaNet system
 - The THETIS information system
 - The Common Information Sharing Environment – CISE
 - The Common Emergency Communication and Information System – CECIS
 - The Data Exchange Highway – DEH
 - The Fisheries Language for Universal eXchange – FLUX
 - The Maritime Surveillance network – MARSUR
 - The European Border Surveillance System – EUROSUR
 - The Secure Information Exchange Network Application (SIENA)
- The Maritime Surveillance and the challenges for the MED area
 - Overview of the Maritime Surveillance in the MED area
 - Overview of the Maritime Surveillance about PROTEUS national nodes
- Conclusions
- References

Tasks and issues to be defined and synergies with past projects' deliverables (this section presents the main issues that have to be defined before and during the elaboration of the deliverable by the Deliverable PP and the involved partners- synergies will be initially proposed by the WP Leader and further filed in by the involved partners according to their experience)

Issues and tasks to be defined in the D.3.2.6:

The deliverable will focus on the development and the implementation of the Maritime Surveillance sector in the framework of the Integrated Maritime Policy, with the main purpose to strengthen Maritime Safety and Security across the European Union.

In addition the deliverable will analyse the European Union relevant legislations about the main objectives of European Maritime Safety and Security Strategy, enhancing law development both at International, European and National level.

Moreover, the deliverable could include the most relevant Systems which are used to implement the different sectors of the Maritime Surveillance, not only at European level, but also at National level, in order to describe their applications in the MED area and in the PROTEUS National Nodes.

Table 12: Activity 3.3

Technology and Market Analysis	Starting month	01/05/2017	Ending month	31/07/2017
Responsible Partner	PIRAEUS PORT AUTHORITY SA (PPA)			
Participating Partners	CCIAA DL, CCSEV, FEPORTS, Mar.In.E.M., Liguria Ricerche S.p.A., PPA, TVT / PMM-TVT, UAEGEAN, UAlg			
Description	The Activity will focus on the available technologies, applications and market aspects, concerning the main sectors of Maritime Surveillance, as they will be defined in the previous activity. During the 1st phase the PPs will select the most important and promising technologies(products, services) that are applied in sectors like maritime security and safety, people and goods trafficking, environmental monitoring, ports, fisheries controls, border controls etc. The next step will be the analysis of the market and the examination of business opportunities that could create linkages among Maritime Surveillance and other industries. The final step of the activity will be the development of a detailed database including all relevant information.			

Table 13: Deliverable 3.3.1

Deliverable Title	Type of Deliverable	Target Value	Deliverable Deadline	Indicative Budget
Mapping of existing technologies and applications on integrated maritime surveillance per sector	Data collection	1 Unit Produced	30/06/2017	44,346.00€
Responsible Partner	FUNDACIÓN INSTITUTO PORTUARIO DE ESTUDIOS Y COOPERACIÓN DE LA COMUNIDAD VALENCIANA (FEPORT)			
Contribution Partners	CCIAA DL, CCSEV, FEPORTS, Mar.In.E.M., Liguria Ricerche S.p.A., PPA, TVT / PMM-TVT, UAEGEAN, UAlg			
Description	Collection of all available technologies that are applied in Maritime Surveillance per category of application, covering MED area and outstanding technologies coming from other countries.			

Final table of contents (In the first draft of the deliverable the ToC was indicative and offered a draft format to the Deliverable PP that could be further enriched and shared with the involved partners- the scope was to highlight the sections that have to be referred and analyzed in the deliverable in order to ensure that it will offer the foreseen input to the following tasks)

- Project context

- Introduction
- Methodology
- Results
- Services
- Equipment
- Vehicles
- Systems
- Integrable
- Stand alone tools
- Technologies outside project area
 - Equipment
 - Vehicles
 - Systems
 - Integrable components
- Conclusions

Tasks and issues to be defined and synergies with past projects’ deliverables (this section presents the main issues that have to be defined before and during the elaboration of the deliverable by the Deliverable PP and the involved partners- synergies will be initially proposed by the WP Leader and further filed in by the involved partners according to their experience)

Tasks and Issues to be defined in the D.3.3.1

- Prior steps - MS sectors selected for the project
- FEPORTS responsible for the deliverable implementation but partners coming from each area should contribute to the collection according to the availability of data
- Collection limited to desktop research?
- Estimation of adequate number of technologies that should be collected whole project/per country/per sector
- Criteria for choosing technologies and international outstanding technologies to be included in PROteuS portfolio of technologies (technology readiness level, domains of applications/sectors/ type of collaboration sought etc)
- Specification of inputs needed for the deliverable 3.3.2 (technologies’ data to highlight shortages or business opportunities) and the Database (3.3.3)

Table 14: Deliverable 3.3.2

Deliverable Title	Type of Deliverable	Target Value	Deliverable Deadline	Indicative Budget
Identification of the market/ business opportunities	Data collection	1 Unit Produced	31/07/2017	24,307.00€
Responsible Partner	PIRAEUS PORT AUTHORITY SA (PPA)			
Contribution Partners	CCIAA DL, CCSEV, TVT / PMM-TVT, UAIG			
Description	Study on the market and business opportunities that are linked to MS and the development of the respective industry in MED area, aiming at			

the enhancement of maritime safety and security.

Final table of contents (In the first draft of the deliverable the ToC was indicative and offered a draft format to the Deliverable PP that could be further enriched and shared with the involved partners- the scope was to highlight the sections that have to be referred and analyzed in the deliverable in order to ensure that it will offer the foreseen input to the following tasks)

- Executive Summary
- Developments in Maritime Surveillance Industry – Overview of the market
- Graphic depiction of Business Opportunities Identification Methodology
- Technological Applications
- Business Opportunities Identification & Assessment
- Technology Exploitation - Commercialization Routes
- Conclusions
- References
- Annex 1 - Filled in Questionnaires
- Annex 2 – Matrix Table

Tasks and issues to be defined and synergies with past projects’ deliverables (this section presents the main issues that have to be defined before and during the elaboration of the deliverable by the Deliverable PP and the involved partners- synergies will be initially proposed by the WP Leader and further filed in by the involved partners according to their experience)

Tasks and Issues to be defined in the D.3.3.2

- Analysis of the identified technologies and applications as they will be mapped in the del 3.3.1
- During del 3.3.1 the involved partners should highlight possible opportunities that will be further analyzed in 3.3.2
- PPA is the responsible for the deliverable implementation but the involved partners should contribute to the identification of market and business opportunities based on their expertise
- Business and market opportunities will cover only MED area, or will the analysis be elaborated at EU level?
- Estimation of adequate number of opportunities that should be identified in the whole project/per country/per sector
 - Criteria for the definition of business/market opportunities

Table 15: Deliverable 3.3.3

Deliverable Title	Type of Deliverable	Target Value	Deliverable Deadline	Indicative Budget
Database with MS technologies	Data collection	1 Unit Produced	31/07/2017	9,922.00€
Responsible Partner	PIRAEUS PORT AUTHORITY SA (PPA)			

Contribution Partners	TVT / PMM-TVT
Description	Database collecting the existing technologies, applications, products and services, categorized by sector. This information will be integrated in the MS platform and will be constantly updated during the project's life, offering up-to-dated information.

Final table of contents (In the first draft of the deliverable the ToC was indicative and offered a draft format to the Deliverable PP that could be further enriched and shared with the involved partners- the scope was to highlight the sections that have to be referred and analyzed in the deliverable in order to ensure that it will offer the foreseen input to the following tasks)

Detailed analysis of existing technologies sorted by:

- Title of Technology
- Type
- Brief Description
- Country of Origin
- Source of Information
- MS sector
 - Border Control
 - Fisheries Control
 - Defence
 - Maritime Safety & Security
 - Customs
 - Marine Environment Monitoring
 - General Law Enforcement
- Stage of Development
- TRL
- Competitive Advantages
- Domains of Applications
- Application Group
- Targeted Countries
- Keywords
- Type of Collaboration Sought
- Owner
- Responsible PP

Tasks and issues to be defined and synergies with past projects' deliverables (this section presents the main issues that have to be defined before and during the elaboration of the deliverable by the Deliverable PP and the involved partners- synergies will be initially proposed by the WP Leader and further filed in by the involved partners according to their experience)

Tasks and Issues to be defined in the D.3.3.3

- Type of file this deliverable will constitute (manageable, user friendly, possibility of filtering information, no size limitation, transferability to Platform, etc)

- Decision on information/data that need to be kept for each technology
- Development of a template for the info to be collected
- Frequency of updates and confidentiality issues
- Minimum number of technologies per country/per sector/ whole project

Synergies with past project deliverable:

Mapping technologies as described in Deliverable 3.3.1

Table 16: Activity 3.4

Maritime surveillance Network	Starting month	01/07/2017	Ending month	30/11/2017
Responsible Partner	University of the Aegean – Research Unit (UAEGEAN)			
Participating Partners	CCIAA DL, CCSEV, FEPORTS, Mar.In.E.M., Liguria Ricerche S.p.A., PPA, TVT / PMM-TVT, UAEGEAN, UAlg			
Description	The outputs of the previous mapping activities will offer the necessary input to proceed with the elaboration of two Methodological tools, one addressing the development of the National Nodes and one for the launching of the MED MS Cluster, fostering the internationalization approach of the project. The application of the implemented Methodologies will be tested during the pilot activities of the following phase. The evaluation of the developed Methodologies will take place in the framework of the 1 st Scientific Committee meeting (along with the 4th project Meeting, which will be attended by the ASPs and the PPs and hosted by the UoA.			

Table 17: Deliverable 3.4.1

Deliverable Title	Type of Deliverable	Target Value	Deliverable Deadline	Indicative Budget
National Nodes' Methodology	Tool	1 Unit Produced	30/09/2017	29,519.00€
Responsible Partner	University of the Aegean – Research Unit (UAEGEAN)			
Contribution Partners	CCIAA DL, PPA, CCSEV, TVT / PMM-TVT, UAlg, Liguria Ricerche S.p.A.			
Description	This tool will constitute the core methodological framework that will define the guidelines for the design, launching and operation of the national nodes that will be developed and tested during the Testing phase of the project.			

Final table of contents (In the first draft of the deliverable the ToC was indicative and offered a draft format to the Deliverable PP that could be further enriched and shared with the involved partners- the scope was to highlight the sections that have to be referred and

analyzed in the deliverable in order to ensure that it will offer the foreseen input to the following tasks)

- Introduction
- Mapping of Current State Situation of MS
 - Identified Key MS Sectors
 - Identified Common Threats & Challenges
 - Identified Best Practices and Initiatives
 - Identified Key Stakeholders
 - Identified common challenges and opportunities for synergies in MED area
- Main Enabling Features of the National Nodes
 - Vision
 - Strategy and Competitive Advantages
- National Nodes Structure & Communication Channels
 - National Node Type
 - Proposed Structure Scheme
 - Formalization
 - Communication Roles, Flow and Monitoring Tools
- Activities and Responsibilities
 - Identifying and Finalising Key features of the NN
 - Building the NN
 - Identify and Approaching potential TC members
 - Selecting the Thematic Committee Members
 - Engaging Thematic Committee Members
 - Roles and Responsibilities of the members
 - Decision-making processes
- Synergies with Related Clusters and on-going Projects
 - Identified on-going projects & clusters related to Blue Economy / Growth for synergies
 - Harmonization process
- Performance Indicators for the operation of the National Node
- Development of National Nodes' Action Plan
 - Dissemination Activities
 - Sustainability
 - Follow Up Activities
- References

Tasks and issues to be defined and synergies with past projects' deliverables (this section presents the main issues that have to be defined before and during the elaboration of the deliverable by the Deliverable PP and the involved partners- synergies will be initially proposed by the WP Leader and further filed in by the involved partners according to their experience)

Tasks and Issues to be defined in the D.3.4.1

- Definition of realistic targets per partner regarding the type of members and the number per category
- Identification of sectors of interest that present synergies with Maritime Surveillance and can provide the Nodes with business members

- Engagement of members – tools/ agreements
- Definition of the Nodes’ manager, contact persons and involved persons
- Covered area per Node
- Legal form of the Nodes – formal or informal

Table 18: Deliverable 3.4.2

Deliverable Title	Type of Deliverable	Target Value	Deliverable Deadline	Indicative Budget
MED MS Cluster Methodology	Method	1 Unit Produced	31/10/2017	29,519.00€
Responsible Partner	CHAMBER OF COMMERCE, INDUSTRY, CRAFTS AND AGRICULTURE OF VENICE ROVIGO DELTA LAGUNARE(CCIAA DL)			
Contribution Partners	UAEGEAN, PPA, CCSEV, TVT / PMM-TVT, UAIG			
Description	This methodology will aim at defining the guidelines for the operation of the national nodes at transnational level through specific activities and processes that will be pilot tested in the following project phase.			

Final table of contents (In the first draft of the deliverable the ToC was indicative and offered a draft format to the Deliverable PP that could be further enriched and shared with the involved partners- the scope was to highlight the sections that have to be referred and analyzed in the deliverable in order to ensure that it will offer the foreseen input to the following tasks)

- Introduction
- Structure of the MED MS Cluster
 - MED MS Cluster Framework
 - MED MS Cluster’s objective, Added Value & Vision
 - Structure & Governance Scheme of the MED MS Cluster
 - The potential members that have to be reached to achieve the critical mass
 - Communication approach between members
- MED MS Cluster’s Support Services
 - Main Activities
 - Support Services in the context of PROteuS project
 - Cluster Model of operation
- Benefits & Responsibilities of the MED MS Cluster’s members
 - Benefits of MED MS Cluster’s members
 - Responsibilities of Cluster’s Members
- Performance indicators of the MED MS Cluster
 - Critical success factors
 - Define the performance indicators
- Sustainability Factors
 - Funding Schemes
 - Marketing & Advertising Activities
 - Evaluation of performance indicators and proceed to changes if necessary
 - Follow up activities

- References
- Appendix
- Preliminary stages for the establishment of MED MS CLUSTER
 - STAGE 1: Building the MED MS Cluster
 - STAGE 2: Define Responsibilities & Communication strategy

Tasks and issues to be defined and synergies with past projects’ deliverables (this section presents the main issues that have to be defined before and during the elaboration of the deliverable by the Deliverable PP and the involved partners- synergies will be initially proposed by the WP Leader and further filed in by the involved partners according to their experience)

Tasks and Issues to be defined in the D.3.4.2

- Definition of the MED MS Cluster’s manager, contact persons and involved persons
- Definition of MED MS Clusters Manager - coordinator
- Definition of realistic targets per partner regarding the Cluster’s activities
- Communication scheme and tools for the efficient operation of the Cluster
- Engagement of members – tools/ agreements
- Covered areas
- Legal form of the Cluster – formal or informal

Table 19: Deliverable 3.4.3

Deliverable Title	Type of Deliverable	Target Value	Deliverable Deadline	Indicative Budget
Scientific Evaluation of Nodes' and Cluster Methodology	Tool	1 Unit Produced	30/11/2017	28,251.00€
Responsible Partner	FUNDACIÓN INSTITUTO PORTUARIO DE ESTUDIOS Y COOPERACIÓN DE LA COMUNIDAD VALENCIANA (FEPORTS)			
Participation Partners	All partners including ASPs			
Description	The finalization and evaluation of the Nodes’ and MED Cluster’s methodologies will take place in the 1st Scientific Committee meeting (co-organized with the 3rd project meeting, hosted by FEPORTS). It will be attended by the ASPs and the PPs.			

Final table of contents (In the first draft of the deliverable the ToC was indicative and offered a draft format to the Deliverable PP that could be further enriched and shared with the involved partners- the scope was to highlight the sections that have to be referred and analyzed in the deliverable in order to ensure that it will offer the foreseen input to the following tasks)

- Index

- Minutes of 25th October
- Annexes
 - Slides can be downloaded from the following address:
<https://www.dropbox.com/home/PROTEUS/WP3/D3.4.3/Meeting%20Presentations>

Tasks and issues to be defined and synergies with past projects’ deliverables (this section presents the main issues that have to be defined before and during the elaboration of the deliverable by the Deliverable PP and the involved partners- synergies will be initially proposed by the WP Leader and further filed in by the involved partners according to their experience)

Tasks and Issues to be defined in the D.3.4.3

- Engagement of Associated Partners
- Elaboration of a checklist to assure the efficient and successful organization of the meeting
- Co organization along with the project meeting – hosted by FEPORTS
- Design of a strict timeplan for the organization of the meeting
- Preparation of forms/ tools to be shared with the ASPs and facilitate the evaluation of the Methodologies
- Preparatory activities for the presentation of the Methodologies to the ASPs by the responsible partners
- Follow up actions (after the meeting) to ensure the engagement of the ASPs and the update of the Methodologies

Table 20: Activity 3.5

Development of Common Approaches and Roadmap	Starting month	01/08/2017	Ending month	31/01/2018
Responsible Partner	Liguria Ricerche S.p.A.			
Participating Partners	CCIAA DL, CCSEV, FEPORTS, Mar.In.E.M., Liguria Ricerche S.p.A., PPA, TVT / PMM-TVT, UAEGEAN, UAlg			
Description	The final Activity of Studying phase will result in the elaboration of a common mechanism that will serve as an innovative tool addressed to Cluster members and having as objective to foster their innovative capacity through their incorporation to the network. In addition, the consortium will elaborate a targeted Roadmap, presenting the strategy to be followed in order to address transnationality within the operation of the designed Cluster.			

Table 21: Deliverable 3.5.1

Deliverable Title	Type of Deliverable	Target Value	Deliverable Deadline	Indicative Budget
Common mechanism enhancing the operation	Tool	1 Unit	31/12/2017	41,886.00€

of MED MS Cluster		Produced		
Responsible Partner	Liguria Ricerche S.p.A.			
Contribution Partners	CCIAA DL, CCSEV, FEPORTS, Mar.In.E.M., Liguria Ricerche S.p.A., PPA, TVT / PMM-TVT, UAEGEAN, UAlg			
Description	Elaboration of a strategy that will act like a mechanism or a model presenting all the guidelines and tools that will be applied in the operation of the national nodes and the MED Maritime Surveillance Cluster.			

Final table of contents (In the first draft of the deliverable the ToC was indicative and offered a draft format to the Deliverable PP that could be further enriched and shared with the involved partners- the scope was to highlight the sections that have to be referred and analyzed in the deliverable in order to ensure that it will offer the foreseen input to the following tasks)

- THE CONTEXT: PROTEUS FRAMEWORK
 - PROTEUS AREA OF REFERENCE
 - THE DEFINITIONS OF NATIONAL NODES AND MED MS CLUSTER
 - PREREQUISITE FOR THE OPERATION OF THE MED MS CLUSTER
 - CLUSTERS MAPPED AT NODE LEVEL
 - PUBLIC AND PRIVATE ACTORS AND TECHNOLOGIES MAPPED AT PARTNERS' NATIONAL NODE LEVEL
- GUIDELINES FOR ENHANCING THE OPERATION OF THE NATIONAL NODES AND THE MED MS CLUSTER
 - THE SCOPE OF PROTEUS NODES
 - THE MARITIME SURVEILLANCE SECTORS OF PROTEUS NODES
 - THE PUBLIC AND PRIVATE ACTORS
 - CYCLE LIFE AND OPERATION OF THE NODE. GOVERNANCE OF THE NODE
 - CLUSTER STRUCTURE AND OPERATION
- CONCLUSION
- BIBLIOGRAPHY

Tasks and issues to be defined and synergies with past projects' deliverables (this section presents the main issues that have to be defined before and during the elaboration of the deliverable by the Deliverable PP and the involved partners- synergies will be initially proposed by the WP Leader and further filed in by the involved partners according to their experience)

The deliverable will provide an operational tool in order to make as feasible as possible the operation of the PROteuS National Nodes and MED MS Cluster.

The report will have to focus on the operation of the Nodes and MED MS Cluster, to increase the Partners' awareness towards the need of considering the feasibility of the possible suggested solutions to be adopted for their National Node before the end of the WP 3 of Studying.

Finally the deliverable should focus on PROteuS services for the stakeholders, the National Node scope and MS sectors background, the Node actors, the lifecycle and operation of the Nodes, the governance of the Node and, finally, the Cluster structure and operation.

Table 22: Deliverable 3.5.2

Deliverable Title	Type of Deliverable	Target Value	Deliverable Deadline	Indicative Budget
Transnational Cooperation Roadmap	Tool	1 Unit Produced	31/01/2018	39,977.00€
Responsible Partner	Liguria Ricerche S.p.A.			
Contribution Partners	CCIAA DL, CCSEV, FEPORTS, Mar.In.E.M., Liguria Ricerche S.p.A., PPA, TVT / PMM-TVT, UAEGEAN, UAlg			
Description	Roadmap based on the previous findings aiming at enhancing transnational cooperation in the framework of the operation of Nodes and MED MS Cluster.			

Final table of contents (In the first draft of the deliverable the ToC was indicative and offered a draft format to the Deliverable PP that could be further enriched and shared with the involved partners- the scope was to highlight the sections that have to be referred and analyzed in the deliverable in order to ensure that it will offer the foreseen input to the following tasks)

- THE CONTEXT: PROTEUS FRAMEWORK OVERVIEW
 - INTRODUCTION TO THE ROADMAP
 - THE MAIN CHALLENGES OF THE MARITIME SURVEILLANCE SECTORS FOR PROTEUS PROJECT AT THE END OF THE WORK PACKAGE OF STUDYING
 - CONSIDERATIONS ON THE NATIONAL NODES AND THE MED MS CLUSTER
- PROTEUS ROADMAP FOR THE DESIGN AND THE LAUNCHING OF THE NATIONAL NODES AND THE MED MS CLUSTER
 - OVERVIEW OF PROTEUS NODES
- PROTEUS ROADMAP ON THE TRANSNATIONAL COOPERATION OF THE NODES AND MS MED CLUSTER IN THE FRAMEWORK OF PROTEUS WORK PACKAGE OF TESTING
 - PROTEUS ROADMAP ON THE TRANSNATIONAL COOPERATION OF THE NODES AND MED MS CLUSTER
- CONCLUSIONS

Tasks and issues to be defined and synergies with past projects' deliverables (this section presents the main issues that have to be defined before and during the elaboration of the deliverable by the Deliverable PP and the involved partners- synergies will be initially proposed by the WP Leader and further filed in by the involved partners according to their experience)

The deliverable will focus on the elaboration of the project Roadmap with the aim to enhance transnational cooperation in the framework of the operation of the National Nodes and the MED MS Cluster.

4. Deliverables' flow and connection

The flow and the connections among the Work Package's Activities and foreseen Deliverables are shown in the following diagrams:

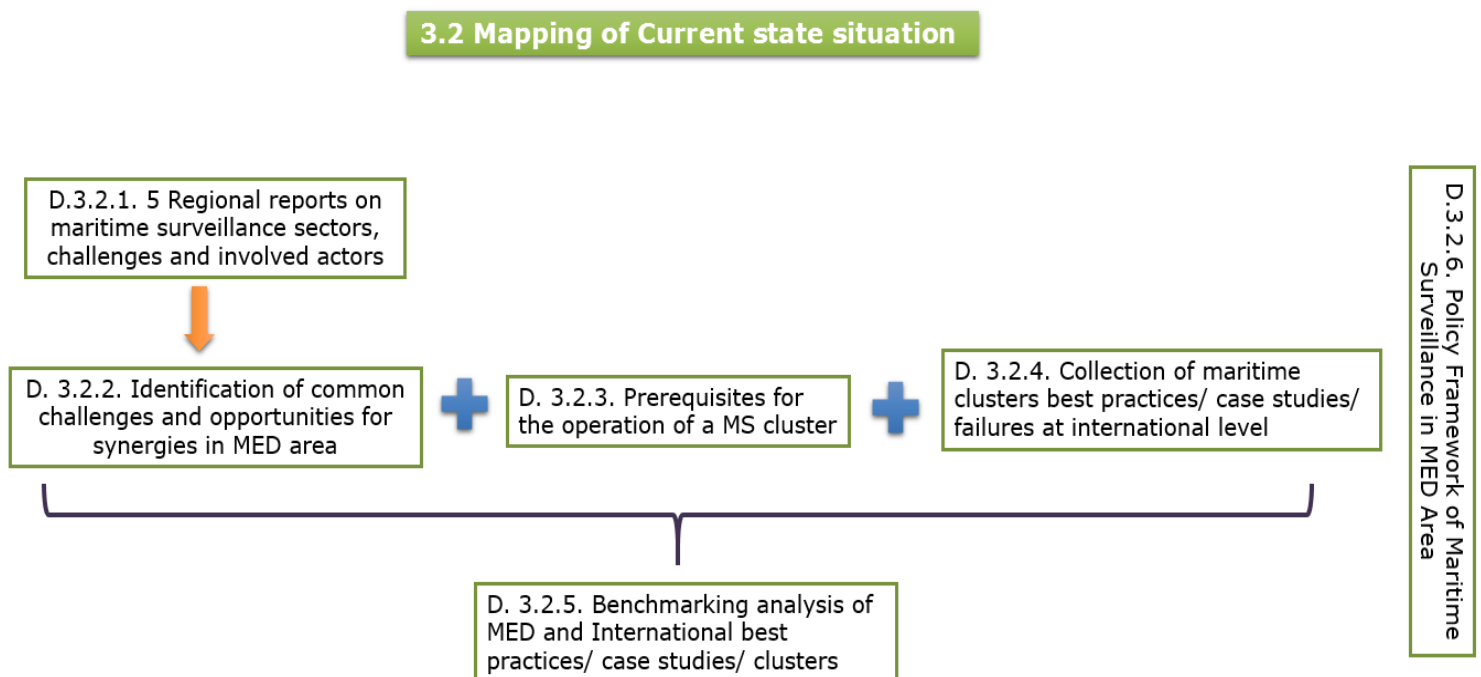


Figure 1: Flow and connection among Activity 3.2 deliverables

D.3.2.1

Inputs from PROteuS deliverables: None. 5 Stand-Alone Reports.

Outputs: Involved partners will elaborate one regional report each (5 in total elaborated by the partners that will host the national nodes of PROteuS) aiming at identifying the important MS sectors in their areas (ie. Port control, piracy, pollution and trafficking monitoring, border control, defence, fisheries controls etc.), and defining the most common prominent ones that the project will focus during its implementation.

Synergies with future PROteuS deliverables: D.3.2.2, D.3.2.5, D.3.2.6, D.3.3.1.

D.3.2.2

Inputs from PROteuS deliverables: D.3.2.1 but not limited to it.

Outputs: This deliverable will try to analyse and compare those outputs, in order to identify common challenges and opportunities in the participating countries for the sectors addressed, and specify existing cross-country and cross-sectoral synergies.

Synergies with future PROteuS deliverables: D.3.2.5

D.3.2.3

Inputs from PROteuS deliverables: None. Stand Alone Report.

Outputs: The deliverable will elaborate on the preconditions for the successful operation of a maritime surveillance cluster. This report will be exploited in a latter activity with the aim to provide inputs for the elaboration of the methodologies for the set-up of the nodes and the MED MS cluster as well as the common mechanism and roadmap that will define actions and models for the operation of the PROteuS cluster and each national node separately.

Synergies with future PROteuS deliverables: D.3.2.5, D.3.2.6, D.3.4.1, D.3.4.2, D.3.4.3, D.3.5.1, D.3.5.2.

D.3.2.4

Inputs from PROteuS deliverables: None. Stand Alone State-of-the-art Report.

Outputs: The scientific and policy partners of the project will collect information at international level concerning maritime clusters (not limited to MS clusters), case studies and best practices/failures, based on desktop research, with the aim to provide insights to be considered during the design of the operation of the MS Cluster.

Synergies with future PROteuS deliverables: D.3.2.5, D.3.4.1, D.3.4.2.

D.3.2.5

Inputs from PROteuS deliverables: D.3.2.1, D.3.2.2, D.3.2.3, D.3.2.4

Outputs: The scientific partners of the project will analyse the existing information of the so-far implemented PROteuS deliverables and will elaborate a benchmarking report at MED and international level. The deliverable will analyse findings from regional reports, will take into account challenges and synergies, and will compare the state of the art report with the prerequisites for the successful operation of a cluster, in order to conclude the best practices to be exploited for the design and operation of the PROteuS Cluster. Those best practices identified will be considered also during the implementation of the common mechanism and roadmap, which will define actions and models for the operation of the PROteuS cluster and each national node separately.

Synergies with future PROteuS deliverables: D.3.4.1, D.3.4.2, D.3.5.1, D.3.5.2.

D.3.2.6

Inputs from PROteuS deliverables: D.3.2.1, D.3.2.3, but not limited to them.

Outputs: The responsible “policy” partner of the project will elaborate a report to present the policy framework applied to partner areas and MED area in general, for the maritime surveillance sectors selected for PROteuS. Those policies and legislations identified, will be considered also during the implementation of the common mechanism and roadmap that will define actions and models for the operation of the PROteuS cluster and each national node separately.

Synergies with future PROteuS deliverables: D.3.5.1, D.3.5.2.

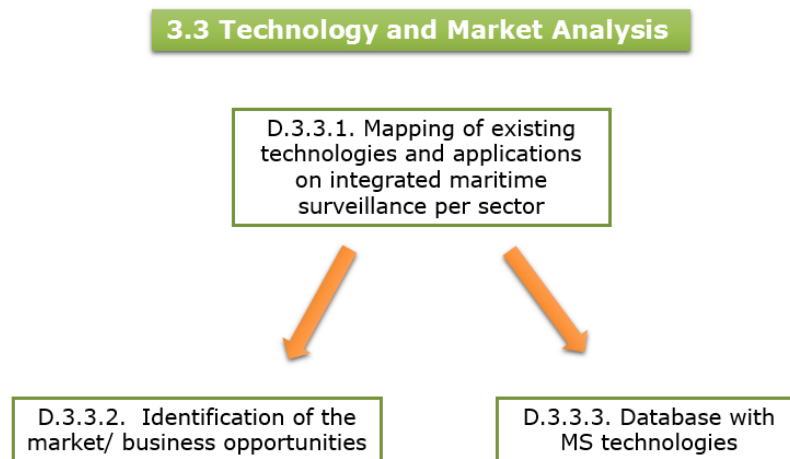


Figure 2: Flow and connection among Activity 3.3 deliverables

D.3.3.1

Inputs from PROteuS deliverables: D.3.2.1. Stand-Alone Data Collection Report.

Outputs: The responsible scientific partner, with the assistance of all PPs, will collect information about technologies/applications/systems applied in MED area as well as relevant outstanding technologies coming from other countries regarding the MS sectors selected. Desktop research. This information will be included in the database (e.g. excel file) and incorporated into the MS Platform.

Synergies with future PROteuS deliverables: D.3.3.2, D.3.3.3, D.4.1.2.

D.3.3.2

Inputs from PROteuS deliverables: D.3.3.1, but not limited to it.

Outputs: The mapping will probably highlight countries that are facing shortages in technologies for some MS sectors and surpluses in other sectors. Each country profile will be assessed and compared within this deliverable, in order to identify the gaps that exist in some countries and provide recommendations to those, so as to create market/business opportunities, deriving from the knowledge obtained from other countries' competitive advantages/opportunities.

Synergies with future PROteuS deliverables: Pilot Actions (Activity 4.3).

D.3.3.3

Inputs from PROteuS deliverables: D.3.3.1. Pilot Actions

Outputs: This deliverable will constitute an easily manageable and friendly user file (e.g. excel file) that will serve as the means to store information regarding the technologies identified during the mapping phase and will be constantly updated with technologies deriving from the node's members emerging during the pilot actions. The type of the deliverable is "data collection" and this information will be transferred (minus possible confidential info) to the online Platform of the project in order to be accessible by the cluster's members.

Synergies with future PROteuS deliverables: D.4.1.2.

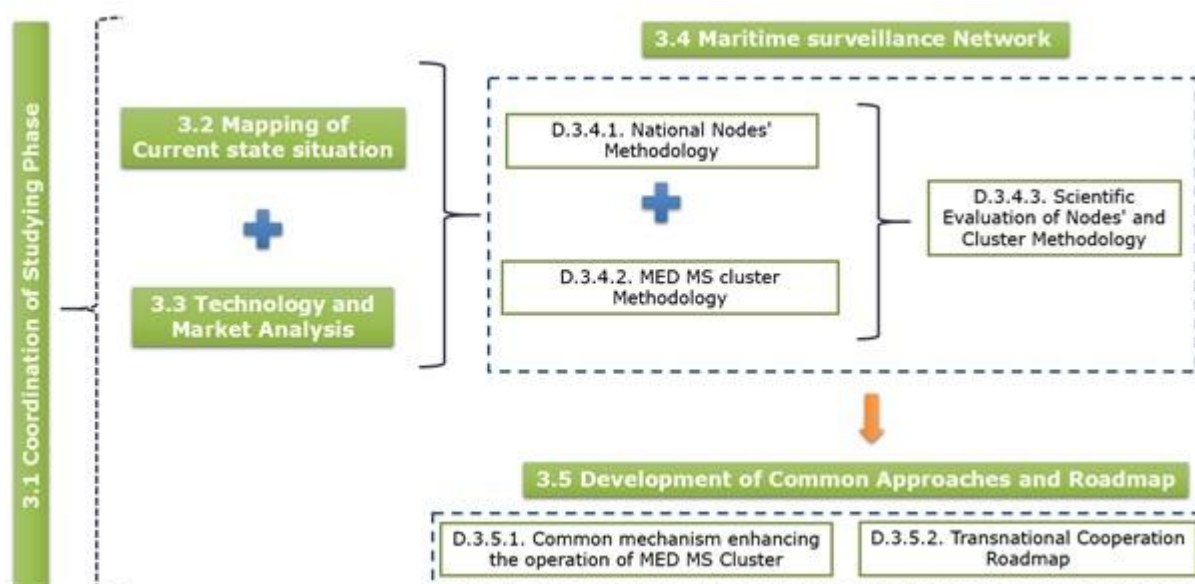


Figure 1: Flow among Activity 3.4, 3.5 deliverables and connection with Activities 3.1, 3.2 and 3.3

D.3.4.1

Inputs from PROteuS deliverables: D.3.2.3, D.3.2.4, D.3.2.5, but not limited to them.

Outputs: The deliverable will take into account previous findings regarding best practices, failures, existing legislations, prerequisites in order to design the methodology for the set-up of the national nodes.

Synergies with future PROteuS deliverables: D.3.4.2, D.3.4.3, D.3.5.1, D.3.5.2, D.4.1.4 and Pilot Activities.

D.3.4.2

Inputs from PROteuS deliverables: D.3.2.3, D.3.2.4, D.3.2.5, D.3.4.1, but not limited to them.

Outputs: The deliverable will take into account previous findings regarding best practices, failures, existing legislations, prerequisites and the methodology for the operation of each node, in order to design the methodology for the set-up of the MED MD cluster.

Synergies with future PROteuS deliverables: D.3.4.3, D.3.5.1, D.3.5.2, and Pilot Activities.

D.3.4.3

Inputs from PROteuS deliverables: D.3.4.1, D.3.4.2, but not limited to them.

Outputs: The deliverable will evaluate and validate the elaborated Nodes' and MED Cluster's methodologies during the 1st Scientific Committee Meeting (attended by ASPs).

Synergies with future PROteuS deliverables: None. Will only provide inputs for the finalization of D.3.4.1, D.3.4.2.

D.3.5.1

Inputs from PROteuS deliverables: D.3.2.3, D.3.2.5, D.3.2.6, D.3.4.1, D.3.4.2, but not limited to them.

Outputs: The deliverable will take into account previous deliverables to create a strategy and propose tools and guidelines to be applied to the management of the National Nodes, so as to ensure their smooth operation and enhance the operation of their overall entity (MED Cluster).

Synergies with future PROteuS deliverables: D.3.5.2, D.4.1.4, D.4.2.1 and Transferability Activities.

D.3.5.2

Inputs from PROteuS deliverables: D.3.2.3, D.3.2.5, D.3.2.6, D.3.4.1, D.3.4.2, but not limited to them.

Outputs: The deliverable will take into account previous deliverables so as to create a transnational roadmap to be applied to the management of the MED Cluster, so as to ensure its efficient operation and provide recommendations about the transnational cooperation between the MED Cluster and other Clusters, Networks and Organizations belonging in the same or different sectors.

Synergies with future PROteuS deliverables: D.4.2.1 and Transferability Activities.

5. Qualitative Indicators

Quality in a project needs to be objectively measured without ignoring the need for subjective assessment. The critical need for quality control ensures that all final deliverables meet the expectations of the project. Quality control includes the checking, measuring, and auditing of the tasks of the project. Quality assurance also includes the auditing and reviews necessary to prove that the quality control processes are working. These quality checks prove the compliance of the project with the agreed specifications.

The quality monitoring of the WP needs to be harmonize with the quality and monitoring methodology adopted for the whole project by the LP.

Within the framework of the 1st Call for Modular Projects of INTERREG MED, Modular projects are expected to create Synergies with the horizontal thematic projects, as well as links with the Priority Axis 4 (governance approach of the Programme priority - Enhancing Mediterranean governance).

PROteuS project, during its implementation timeframe, will take into account many aspects in order to ensure the quality of management, processes, deliverables, timeplan (deadlines) and budget spending (reflecting financial commitment).

Indicators for WP3 Deliverables Implementation:

- The deliverable has been implemented following the methodology elaborated for the studying phase (Scale 1-5)
- The deliverable has exploited synergies with past projects' deliverables as mentioned in the AF (YES/NO)
- The deliverable ensures the achievement of the output that was assigned to it – if applicable (YES/NO)
- The deliverable has covered all aspects defined in its table of contents proposed by the responsible partner (Scale 1-5).
- The deliverable indeed can provide input to future deliverables, as foreseen in the project design (Scale 1-5)

6. Delivery Diagram of Work Package 3

			2016		2017												2018
			NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN
			M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15
WP3	STUDYING	RESPONSIBLE PARTNER															
Activity 3.1	Coordination of Studying Phase	Mar.In.E.M.															
Deliverable 3.1.1	Methodology for the implementation of Studying phase activities	Mar.In.E.M.															
Activity 3.2	Mapping of Current state situation	CCIAA DL															
Deliverable 3.2.1	Regional reports on Mapping of maritime surveillance sectors, challenges and involved actors	CCIAA DL															
Deliverable 3.2.2	Identification of common challenges and opportunities for synergies in MED area	UAEGEAN															
Deliverable 3.2.3	Prerequisites for the operation of a MS cluster	TVT / PMM-TVT															
Deliverable 3.2.4	Collection of maritime clusters best practices/ case studies/ failures at international level	Mar.In.E.M.															
Deliverable 3.2.5	Benchmarking analysis of MED and International best practices/ case studies/ clusters	FEPORIS															
Deliverable 3.2.6	Policy Framework of Maritime Surveillance in MED Area	Liguria Ricerche S.p.A.															
Activity 3.3	Technology and Market Analysis	PPA															
Deliverable 3.3.1	Mapping of existing technologies and applications on integrated maritime surveillance per sector	FEPORIS															
Deliverable 3.3.2	Identification of the market/ business opportunities	PPA															
Deliverable 3.3.3	Database with MS technologies	PPA															
Activity 3.4	Maritime surveillance Network	UAEGEAN															
Deliverable 3.4.1	National Nodes' Methodology	UAEGEAN															
Deliverable 3.4.2	MED MS Cluster Methodology	CCIAA DL															
Deliverable 3.4.3	Scientific Evaluation of Nodes' and Cluster Methodology	FEPORIS															
Activity 3.5	Development of Common Approaches and Roadmap	Liguria Ricerche S.p.A.															
Deliverable 3.5.1	Common mechanism enhancing the operation of MED MS Cluster	Liguria Ricerche S.p.A.															
Deliverable 3.5.2	Transnational Cooperation Roadmap	Liguria Ricerche S.p.A.															

7. Connection between Work Package 3 and Work Package 4

The project structure has been designed in such a way that all former activities are contributing or leading to the execution of the following ones. In the case of PROteuS and specifically about the WP3, all findings of this stage can and should be exploited within the Testing phase of the project. As basic connection between both WPs could be stated the identification of key actors of the MS sector in the Regions of the partners that will host the local nodes, which may serve as the initial pool of candidate members for the selection of the final members of the local nodes. In addition, within the WP3 the general frame for the set up and operation of both the cluster as an overall entity as well as the local nodes as individual networks, has been defined. These findings and results should be taken into account during the actual establishment of the national nodes and the services' delivery. Finally, a catalogue with technologies applicable to the MS sector have been identified and should be exploited in the pilot phase at least for the "offer and demand matching service" that constitutes the deliverable 4.5.2, and a matrix of the basic needs of each region has been elaborated, within 3.3.2, to provide information to each node to guide the technology providers towards specific directions in technology transfer and development.

Below a short description of the main linkages between the activities & deliverables of WP3 and WP4 is provided:

- Deliverable 4.1.2, as initially foreseen in the Application Form of PROteuS the platform must be designed in such a way that it will utilize all the findings and results of the Studying Phase of the project. The deliverables under the activity "3.3 Technology and Market Analysis" should also provide insights about the sectors/ types/ information needed about each technological offer to be hosted on the platform on later stages. Specifically the Deliverable 3.3.3. Database, has been designed and implemented in such a way that if needed it can be easily transferable to the platform
- Deliverable 4.1.4 & 4.2.1, concerns the launching of the National Nodes which runs in parallel with the definition of the cluster members. As anticipated, each National Node will take into account the findings of the Deliverable 3.2.1 with regards to the actors identified, in order to engage them to the operation of the local cluster, by priority to any other additional actor. Furthermore, this deliverable is strongly linked to the deliverable 3.4.1 in relation to the definition of how the national node should be set up, the profile and number per type of members needed, the criteria for the selection of the members, directions for their engagement and finally guidelines for the launching event itself
- Deliverables 4.3.1 & 4.3.2, are significantly related to the deliverable 3.3.1 where technologies were mapped through desktop research. At this stage technologies should be "extracted" directly from the members of the national nodes, however the

methodology followed, the template used, the problems faced in this former deliverable should be taken into account when preparing and executing this activity

- Deliverable 4.3.3, this deliverable should take into account the market and business opportunities defined in the deliverable 3.3.2 and build upon them on the basis of the identified technologies of the PROteuS national nodes. The implementation of this task should be initiated taking into account the approach in 3.3.2 and should develop specific market opportunities for each member of the cluster
- Activity 4.4, should be designed taking into account the work done on the deliverables 3.4.2, 3.5.1 and 3.5.2 since those have set the frame for the overall operation of the cluster and consequently of the nodes and are defining common operation mechanisms and roadmaps. The specific guidelines for the implementation of the events and the services delivery will be developed within the same WP, however the general frame of coordination of the nodes has been already set up and should be exploited at this stage.
- Deliverable 4.5.2, should exploit the pool of technologies identified within the deliverable 3.3.1 in order to facilitate the matching between market pull & technology push

ANNEX I – Partners’ Roles and Involvement

				CCIAA DL	UAEGEAN	MARINEM	FEPORIS	CCSEV	TVT / PMM- TVT	PPA	Ualg	LIGURIA
ACTIVITIES	DELIVERABLES	Type of deliverable	Number	IT	GR	CY	ES	ES	FR	GR	PT	IT
WP 3: Studying - Mar.In.E.M.												
3.1 Coordination of Studying Phase (Coordinating the WP)	D.3.1.1. Methodology for the implementation of Studying phase activities`	Method	1 Methodology	O	O	X	O	O	O	O	O	O
3.2 Mapping of Current state situation (Studying field)	D.3.2.1. Regional reports on Mapping of maritime surveillance sectors, challenges and involved actors	Report	5 Regional State of the Art reports	X				O	O	O	O	
	D. 3.2.2. Identification of common challenges and opportunities for synergies in MED area	Report	1 Comparative Analysis report	O	X	O	O	O	O	O	O	O
	D. 3.2.3. Prerequisites for the operation of a cluster	Report	1 report			O	O	O	X			
	D. 3.2.4. Collection of maritime clusters best practices/ case studies/ failures at international level	Report	1 State of the Art report		O	X	O					
	D. 3.2.5. Benchmarking analysis of MED and International best practices/ case studies/ clusters	Report	1 Benchmarking report		O	O	X					
	D.3.2.6. Policy Framework of Maritime Surveillance in MED Area	Report	1 State of the Art report			O	O					X
3.3 Technology and Market Analysis (Compiling and Organising information and data)	D.3.3.1. Mapping of existing technologies and applications on integrated maritime surveillance per sector	Data collection	1 Thematic Data Collection	O	O	O	X	O	O	O	O	O
	D.3.3.2. Identification of the market/ business opportunities	Data collection	1 Report	O				O	O	X	O	
	D.3.3.3. Database with MS technologies	Data collection	1 Database						O	X		
3.4 Maritime surveillance Network (Providing tools, methods and services)	3.4.1. National Nodes' Methodology	Tool	1 Methodology	O	X			O	O	O	O	O
	3.4.2. MED MS Cluster Methodology	Tool	1 Methodology	X	O			O	O	O	O	O
	3.4.3. Scientific Evaluation of Nodes' and Cluster Methodology	Tool	1 proceedings' report	O	O	O	X	O	O	O	O	O
3.5 Common Strategy/ Action Plan (Developing common approaches and strategies)	3.5.1. Common mechanism enhancing the operation of MED MS Cluster	Method	1 Model	O	O	O	O	O	O	O	O	X
	3.5.2. Transnational Cooperation Roadmap	Method	1 Action Plan	O	O	O	O	O	O	O	O	X

X: PP is the leader of the activity and/or component

O: PP is participating in the activity