



DEVELOPING EUROPEAN MARITIME RESOURCES

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FOREWORD

All around the globe, governments are increasingly recognising the social and economic value of the seas: as a source of energy, materials, food and leisure, as well as a transportation corridor. However, the coastal and ocean environment that provides these resources needs careful management to ensure its long-term viability. The capability to exploit marine resources, in ways that are sustainable and cost-effective, is becoming a strategic priority for maritime nations and the EU.

The REMCAP project aims to advance this capability by expanding innovation capacity in maritime resource efficiency. It is an EU FP7 Regions of Knowledge project that brings together 14 partners from 6 Regional European clusters that are highly active in the marine resource extraction sectors. By facilitating interaction and knowledge exchange across the clusters and developing and implementing regional and joint action plans, REMCAP aims to develop the clusters' ability to highlight innovation priorities, and equally to address barriers to investment.

While REMCAP runs from December 2012 to December 2015, the benefits of the project will expand far beyond the lifecycle of the project, through long-term collaborations involving European and international clusters. Accordingly, the REMCAP project team welcomes interaction with additional maritime partners and clusters outside of the project focus area and encourages readers to visit our website (www.remcap.eu) which provides regular updates on project development and emerging opportunities. We would also encourage you to register your interest in becoming involved in the project through the website and we will keep you updated of our progress.

The REMCAP annual newsletter provides informative updates on the REMCAP project and its progression over the project lifecycle. The newsletter includes updates on key project activities, key project outputs under each of the active work packages, next steps in the REMCAP project and any additional wider project news. As the first newsletter of the project, this newsletter focuses on providing a background context and overview of the project to update readers of the objectives and current work of the REMCAP consortium. On behalf of the REMCAP project team, I would like to welcome you to this newsletter and invite you to submit any comments or further engage with the project by visiting www.remcap.eu.

Jonathan Williams, CEO at Marine South East (UK)
REMCAP Project Director

**Increasing
Innovation Capacity
in Maritime
Resource Efficiency
Across the EU**

**6
Regional
European
Clusters**

**14
Partners**

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ABOUT THE REMCAP PROJECT

REMCAP Project Goals:

The Resource Efficient Maritime Capacity Project (REMCAP) builds on an earlier Regions of Knowledge project, EMSAC (European Marine Science Applications Consortium) which made significant progress in understanding how Regional Research Driven Clusters (RRDCs) can stimulate maritime resource capacity to supply growing marine markets.

REMCAP aims to substantially increase innovation capacity in maritime resource efficiency by developing the participating clusters' ability to promote innovation that enables sustainable growth in the maritime sector. REMCAP's goal is ultimately targeted on stimulating and focusing investment decisions by businesses, the research community and public authorities throughout its lifetime (December 2012 - December 2015) and beyond.

The GOAL of REMCAP will be achieved by:

- Generating information on the market potential in maritime resource efficiency and the opportunities this presents for winning business, together with the innovation priorities that will enable access to these opportunities;
- Understanding of the current capability relevant to such innovation, including research facilities, research projects and potential for cluster activities to facilitate innovation;
- Identifying capability gaps that would impede such innovation, and defining a common action plan, as well as individual action plans for each partner region, to address these gaps; and
- Enacting inter-regional and regional measures to enable implementation of these action plans, such as building of trans-national consortia targeting specific innovation priorities.

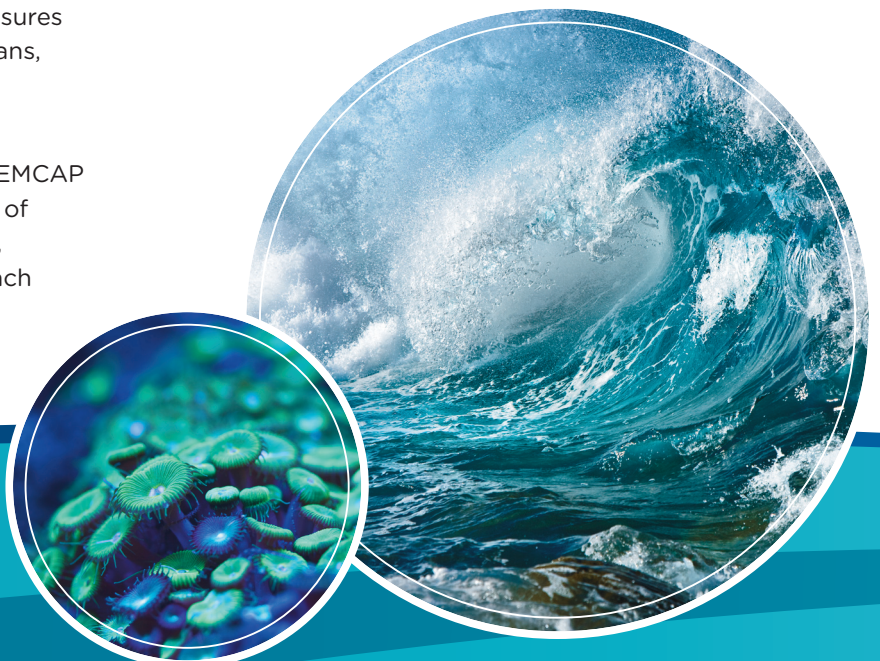
The innovation capacity generated by the REMCAP consortium will support the implementation of future research and innovation programmes, and reinforce the specialist capabilities of each cluster region.

At the end of the project, a suite of projects and investment propositions should be ready to be taken forward in order to highlight opportunities for involvement amongst European clusters.

While the project focuses on the six participating regional clusters, the project also aims to initiate international relationships with priority clusters and organisations outside of Europe to extend the reach of European clusters in maritime resource efficiency.

"Growth in the blue economy offers new and innovative ways to help steer the EU out of its current economic crisis. It can contribute to the EU's international competitiveness, resource efficiency, job creation and new sources of growth while safe guarding bio diversity and protecting the marine environment, thus preserving the services that healthy and resilient marine and coastal ecosystems provide."

European Commission (2012), Blue Growth: Opportunities for Marine and Maritime Sustainable Growth



Priority Markets:

REMCAP has identified 8 priority markets which will form the basis of its project development work based on existing and projected demand for marine extractive resources. Market maturity is a key determinant of the innovation support needed in that market and accordingly forms an important focus for REMCAP. Some of the REMCAP focus markets are well-established (e.g. fishing) while others are developing (e.g. offshore wind energy) or embryonic (e.g. wave energy). The REMCAP focus markets and maturity status of each are presented in Figure 1.

Figure 1: REMCAP Focus Markets According to Maturity Status



Source: DG Mare (2012), *Blue Growth: Scenarios & Drivers for Sustainable Growth from the Oceans, Seas and Coasts*



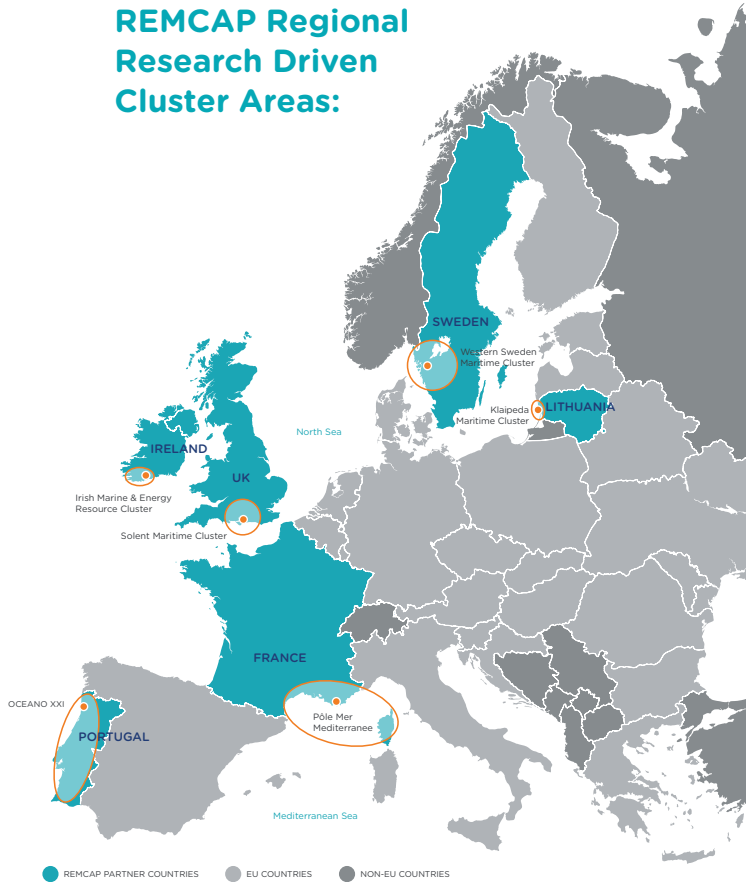
“The EU’s blue economy represents 5.4 million jobs and a gross added value of just under €500 billion per year. With appropriate measures these figures could rise to €600 billion and 7 million jobs by 2013.”

European Commission (2012), *Blue Growth: Opportunities for Marine and Maritime Sustainable Growth*

ABOUT THE REMCAP PROJECT CONSORTIUM

REMCAP is a collaborative project with a total of 14 partner organisations from six European Regional Research Driven Clusters (RRDCs).

REMCAP Regional Research Driven Cluster Areas:



The REMCAP Consortium:

To ensure that REMCAP is optimally positioned to meet its goals, the REMCAP RRDCs work through a ‘triple helix’ structure bringing together actors from:

- Business/industry who invest in innovation, creating employment;
- Academic/research community who develop knowledge & technology to drive innovation; and
- Public authorities that provide business-critical infrastructure

REMCAP is based on the principle that regional clusters can enable innovation that would not happen with firms acting on their own and that more effective organisation of clusters will enable further innovation:

The benefits of the REMCAP consortium approach include:

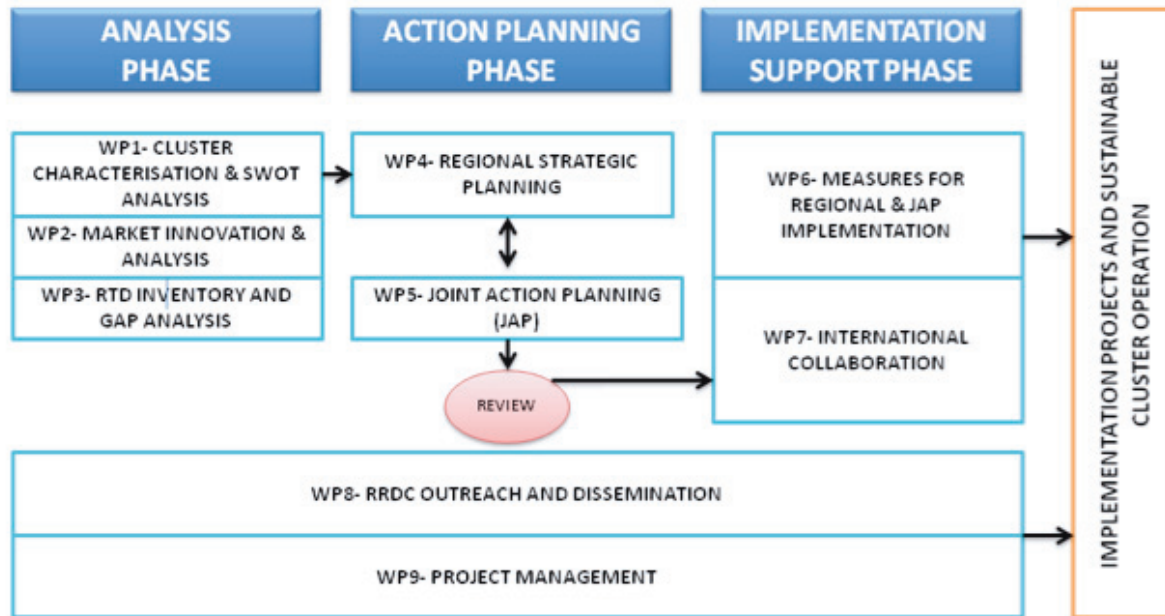
- The markets for maritime resource efficiency will require a wide range of technical and commercial expertise. The REMCAP consortium will draw upon expertise across all the participating clusters, to develop cross-border innovation capacity.
- Each cluster adopts different approaches to stimulating investment by its cluster members, depending on its structure, governance and political context. The consortium approach will allow clusters to share their strengths and successes, and to learn from each other.
- The innovation capacity generated by the REMCAP consortium will support implementation of future research and innovation programmes, and reinforce the specialist capabilities of each cluster region.

REMCAP Partners:

REMCAP Clusters	Partner Organisations
Solent Maritime Cluster, England	<ul style="list-style-type: none"> • Marine South East • University of Southampton • Portsmouth City Council
Pôle Mer Méditerranée, France	<ul style="list-style-type: none"> • Pôle Mer PACA
Irish Maritime & Energy Research Cluster (IMERC), Ireland	<ul style="list-style-type: none"> • Cork Institute of Technology • Cork Chamber of Commerce • South West Regional Authority
Klaipeda Maritime Cluster, Lithuania	<ul style="list-style-type: none"> • Baltic Valley Association • Klaipeda University • Klaipeda Science & Technology Park
OCEANO XXI, Portugal	<ul style="list-style-type: none"> • OCEANO XXI
Western Sweden Maritime Cluster, Sweden	<ul style="list-style-type: none"> • Chalmers University of Technology • Region Västra Götaland • Swedish Maritime Technology Forum

ABOUT THE REMCAP WORK PLAN

The REMCAP project is implemented through 7 work packages in three phases (the analysis phase; the action planning phase; and the implementation support phase) and supported by two horizontal work packages (WP 8: outreach and dissemination and WP9: project management) that operate throughout the duration of the project lifecycle.



Work Plan Activity Update:

Completed Work Packages:

Work Package 1: Cluster Characterisation & SWOT

The first work package of the REMCAP project, Cluster Characterisation & SWOT Analysis is now complete.

WP1 aimed to:

- describe, characterise and analyse the clusters;
- identify similarities, differences and complementing capabilities;
- understand the partners perception of their own cluster;
- stimulate-self reflection and discussion; and
- build a foundation for the succeeding work packages.

Work Package 1 produced 2 deliverables:

1. Cluster characterisation and Complementarity Report
2. Cluster SWOT Analysis Report

Copies of the resulting reports are available to download at www.remcap.eu.

Currently Active Work Packages:

Work is underway on the following work packages:

Work Package 2: Market & Innovation Analysis

The Objectives of REMCAP's second work package are:

- To analyse the present and future markets for maritime resource efficiency (products and services), identifying policy drivers and typical customers;
- To identify major innovation priorities required to satisfy these market requirements and generate market leadership.

In attaining these objectives, regulations, targets and policies and other trends which influence the drive for improved maritime resource efficiency are examined. Typical customers in each market are defined and detail provided on what their innovation needs could reasonably be over a 3 - 10 year period.

WP2 research and analysis will support the generation of influence maps which will describe the linkages between specific types of innovation, the demand for such innovative capabilities and the expected savings in resource utilisation.

Work Package 3: Project & Facilities Database & RTD Gap Analysis

The objectives of WP3 are to:

- Create a database of relevant RTD facilities and recent/ongoing RTD projects, specifically FP7 and major national programmes in the field of maritime resource efficiency
- Perform RTD gap analysis, to highlight topics where new RTD initiatives are required to exploit the markets in maritime resource efficiency

This work package will be carried out in two stages. First it will identify the resource base of RTD facilities and major centres of expertise relevant to the field of maritime resource efficiency. Second, the work package will map the RTD database onto the technology and knowledge priorities emerging from the road mapping in WP5 in order to identify RTD gaps where new RTD initiatives are required to fulfil priority requirements for innovation.

Work Package 4: Regional Strategic Planning

The objectives of Work Package 4 are:

- To create a strategy and action plan for each participating cluster, targeting additional innovative capacity that supports each region's smart specialisation objectives;
- To develop regional action plans which implement the smart specialisation strategies

This work package builds on the knowledge of cluster strengths and weaknesses (WP1) and knowledge of priority innovation challenges identified (WP2) in order to pinpoint actions which could expand the innovation capacity of each regional cluster.

The results of identifying RTD gaps (WP3) coupled with the technology road-map (WP5), will then define the priorities for investment in research, technology, innovation and skills.

By forming regional innovation action plans, this work package will create a strategy and action plan for each participating cluster, targeting additional innovation capacity that supports each region's smart specialisation objectives and develop regional action plans which implement smart specialisation strategies.

Work Package 5: Joint Action Planning

The objectives of WP 5 are:

- To develop a shared action plan which targets innovation priorities across the consortium and which addresses the needs for collective capacity building through enhanced cluster workings, highlighting opportunities for the involvement of additional European clusters, and potential for wider international co-operation
- To identify sources of financing for implementation of the action plan, including regional, national and EU (Framework and Structural funding) programmes

This work package combines the output of market priorities (WP2) and the RTD project and facilities database (WP3) to form the basis for a technology road-mapping analysis. This will identify specific innovation priorities that enable market capability, and also highlight where additional RTD facilities would be of value.

By consolidating this information within the regional strategies (WP4), the outcomes of work package 5 are to target innovation priorities across the consortium; address the needs for collective capacity building through enhanced cluster working; and to highlight opportunities for involvement of additional European clusters, and potential for wider international co-operation.

“Lack of access to finance and a shortage of suitably skilled workers have been identified as blocking growth in nearly all economic sectors. In the blue economy, EU Member States are tackling this by developing maritime clusters ... of larger industries, smaller suppliers and educational establishments that reinforce each other through their close proximity.”

European Commission (2012), Blue Growth: Opportunities for Marine and Maritime Sustainable Growth

UPCOMING EVENTS

GA2 14-15 November 2013, Porto, Portugal

The second General Assembly (GA) event of the REMCAP project will be held in Porto, Portugal. GA delegates will participate in a two day session to discuss the progress of the work packages and planning activities for the next stages of the project.

European Maritime Day Conference 19-20 May 2014, Bremen, Germany

The main theme of the European Maritime Day 2014 is "Innovation and Maritime Technologies". The conference will be held on Monday 19th May (Political Day) and Tuesday 20th May (Stakeholders Day) 2014. An exhibition is also planned for 19th - 20th May.

For further information visit:
www.emd2014.bremen.de/emd/index.html

Oceanology International 11-13 March 2014, London, UK

The extensive technical programme will include insights and case studies from industry, government and academic experts and will provide excellent educational, learning and networking opportunities for all attendees. Also planned for 2014 are new panel sessions covering topical industry issues such as: aquaculture, ballast water and Subsea Mining.

For further information visit
www.oceanologyinternational.com/en/Conferences/

BECOME INVOLVED

In addition to strengthening linkages and collaboration across the project's RRDCs, REMCAP is eager to explore opportunities for wider engagement and collaboration with other EU and international maritime actors to further maximise opportunities for innovation capacity and growth.

In order to strengthen knowledge and share the expertise and learning generated through the project, the REMCAP project team will develop a number of materials (e.g. annual newsletter, project reports, summary finding briefing papers) at key project stages to keep interested stakeholders aware of our work.

REMCAP will also host two workshops for international collaboration in the final eighteen months of the project to develop expanded working partnerships which enable the project team - and potential new partners - to capitalise on the maritime resource efficiency development and growth opportunities identified over the REMCAP project.

We are happy to keep you updated of project progress, key findings, next steps and opportunities for collaboration. Please visit our website, www.remcap.eu to register your details and areas of interest and we will ensure to keep you updated accordingly.



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