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The aim of the Resource Efficient Maritime Capacity (REMCAp) project is to capitalise on the opportunities that have arisen from increasing commercial demand across marine industries. The project focused on expanding the capacity for innovation and growth across the key markets of offshore wind; ocean energy; fishing; aquaculture; algae; blue biotech; aggregates and dredging; sea bed mining and a number of critical enabling technology areas such as maritime autonomous systems, vessels and novel fuels.

The REMCAp project brought together 14 distinct partner organisations from six European Clusters in England, France, Ireland, Lithuania, Portugal and Sweden. Each cluster included actors from the commercial sector; the academic/ research community; and public authorities.

For the last three years, these project partners have worked to develop their clusters ability to promote innovation and enable sustainable growth through the REMCAp Project activities.

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REMCAp PROJECT ACHIEVEMENTS:

- Completed 6 Maritime Cluster SWOT Analysis
- Comprehensive database with 300 projects, 700 facilities
- Developed 6 unique Cluster Innovation Strategies
- Identified 8 focus markets with huge growth opportunities for European Maritime Companies
- Developed a shared action plan which targets innovation priorities that will enable blue growth
- Wide dissemination of REMCAp Outputs across Europe through local events in each partner region, international workshops and engagement with policy makers at local, national and European level.
- Participation in 8 workshops/ conferences
- 35 Maritime Clusters identified for cooperation
- Project proposals and other ideas for consortium building
- Direct interactions with EU and international clusters to discuss cooperation opportunities

FOREWORD

For the past three years, the REMCAP project has been advancing measures to expand innovation capacity in the Blue Economy. The oceans are playing an ever-increasing role within the global economy (as a source of energy, materials, food, leisure, and for transportation). Europe needs to expand its capabilities to maximise its presence in meeting these growing markets, and to ensure sustainability of our ocean resources. This presents immense challenges to the business and scientific communities, as well as to Governments.

As REMCAP approaches its end, we and our partners are taking stock of what we have achieved, and what opportunities we want to exploit after the project's completion. Our achievements, summarised in our series of project newsletters, can be described under three headings: priorities for innovation and future technology development; measures to optimise access to Blue Growth markets; and key roles of cluster organisations to achieve these advances. In terms of prioritisation, the REMCAP project has analysed how the markets for ocean resources are growing, and it has identified a number of key enabling technology areas. An extensive process of innovation road-mapping has highlighted technologies which could enable innovation across several sectors of the blue economy.

These include innovation in some of the value chains that support marine and maritime activities, such as maritime ICT and 'big data'. A powerful case for investment in these technology areas can be made, based on the extensive impact they can offer in terms of new business and employment.

Successful innovation depends not only on technology but also on market access. For this reason, REMCAP has also considered how routes to market can be facilitated. Key measures include: improved access to key facilities and RTD results that avoids duplication and strengthens credibility; wider engagement of large firms with global reach; development of collaborations with partner organisations outside Europe; access to wider range of investment finance options. Outcomes achieved in REMCAP range from development of facilities and project databases focused on activities in the blue economy, through to assessment of different financing models and deficiencies.

Cluster organisations, with their understanding of business, research and public investment priorities, have a key role to play in acting on these priorities. The six clusters participating in REMCAP include a wide range of research and engineering capabilities, spread over universities, institutes and companies. These centres of expertise need to be more fully integrated into the blue growth agenda, and cluster organisations are vital to orchestrate this wider engagement.

Looking beyond the REMCAP project, we and our partners want to use the outcomes to accelerate blue growth. Of course we cannot do it alone, and we invite all organisations who share our ambition to get in touch. Further details are available by visiting

www.remcap.eu

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



PROJECT DEVELOPMENT AND OUTPUTS

The REMCAP project has been implemented through 7 work packages in three phases:

1. The Analysis Phase
2. The Action Planning Phase
3. The Implementation Support Phase

PROJECT PHASE 1: ANALYSIS PHASE

The REMCAP project team undertook extensive analysis to determine how the consortium clusters operate, assessing their strengths and weaknesses and identifying the major growth opportunities across each cluster area.

This phase also explored how the markets for ocean resources have grown, and identified how these markets offer growth opportunities to marine and maritime industries.

This phase also saw the development of the European Marine Database, a comprehensive database of marine projects across Europe. The online database also provides a comprehensive list of important Marine Science and Technology facilities in European Member States. The database is accessible via

<http://data.remcap.eu/contenu/index.php>

More information on the outputs achieved during this phase can be seen in the second [REMCAP Newsletter](#).

PROJECT PHASE 2: ACTION PLANNING PHASE

Cluster Specific Regional Strategies

Through the project all six REMCAP Clusters created a **region/cluster specific strategy and action plan** which builds upon the recommendations elicited from the earlier

project work. The strategy identifies ways to create additional innovative capacity that supports each region's smart specialisation objectives by identifying ways to address each clusters weaknesses and support their strengths identified from an analysis of the Cluster based on **ten key success factors**.

The cluster specific strategies contribute to the development of the **regional innovation action plan** which will offer the opportunity for closer engagement and in depth understanding of how strengths from one cluster can facilitate innovation in another partner cluster.

See the [Raising Cluster Innovation Capacity](#) report on the [REMCAP website](#) for more information on how each REMCAP cluster analysed their innovation capacity requirements to develop their specific action plans.

REMCAP Project Joint Action Plan

One of the main project wide outputs of this phase is the development of a **Joint Action Plan targeting innovation priorities across the consortium that will enable blue growth**. These priorities have been identified through a road-mapping process, defining market needs and highlighting key technology areas which could collectively help to meet those needs. Thirteen technology themes were defined, where advances could be exploited in one or more markets and value chains.

Furthermore, recent and ongoing research activities and facilities were mapped onto these themes, to highlight areas which do not appear to be attracting RTD funding or investment to gain a better understanding of the investment situation. Available funding sources for research and innovation have been explored, and some measures identified to help attract these resources into the blue growth priorities.

For more information on the key technology areas that were explored as part of the project, see the second [REMCAP Newsletter](#).

PROJECT PHASE 3:
IMPLEMENTATION PHASE

Identification of Future Project
Areas and Partners

Based on the analysis and innovation road-mapping of the eight REMCAP focus markets, the REMCAP consortium identified four priority areas - **Seabed Anchoring, Novel Fuels, Aquaculture and Autonomous Systems** which are of particular interest as they have the potential to support further innovation and resource efficiency in several maritime sectors.

The REMCAP partners, led by the Western Sweden Maritime Cluster, have explored each of these topics with regards to market needs, potential demand, main technical challenges and important stakeholders.

As part of this research the Project Partners also looked at the regional capabilities among the REMCAP clusters within these priority topics in terms of research facilities, universities, major companies, etc. As part of this research each cluster has presented specific actions and local strategies that could further increase regional innovation capacity and stakeholder engagement. A variety of Interest groups are currently being established to provide a platform for interested parties to participate in future collaborative projects.

The table below highlights a list of Project Topics that could be further explored in the four priority areas.

Priority Areas	Lead Partner	Priority Project Topics
Seabed Anchoring	Marine South East	• Durable Compliant Mooring Lines • Geotechnical Pile Design Tools • Grout-Free Rock Anchors • Lightweight Installation Rigs • Sub-bottom Characterisation Tools
Novel Fuels	Swedish Maritime Technology Forum	• Methanol as fuel for small marine engines • Glycerine as alternative fuel for marine applications • LNG as marine fuel for new fishing vessels • Microalgae aquaculture for biodiesel fuel production • Multiple- fuel bunkering vessels
Aquaculture	Fórum Oceano	• Low impact mariculture • Offshore aquaculture • Algal genomics
Autonomous Systems	Cork Institute of Technology	• Marine Renewable Energy device farm monitoring • Underwater inspection & surveying • Aquaculture ecosystem monitoring • Seabed mining systems

International Impact
of the REMCAP Project

To ensure an international reach of the REMCAP Project, a number of activities have been carried out to identify and select European and International clusters, outside the REMCAP consortium to initiate cooperation by engaging them in the project activities. These contacts were developed through communication activities and by initiating project ideas to build pre-consortium.

Throughout the project, REMCAP partners have participated in **8 workshops/conferences** where contacts with EU and International clusters have been formalised. The project has identified **35 Maritime Clusters** as key strategic partners for cooperation at EU and International level in the following “high potential” sectors: Offshore wind, Fishing, Fish & Shellfish, Blue biotechnology, Aggregates and dredging and Seabed Mining. There has also been in excess of 20 direct interactions with EU and international clusters including the USA, Canada and South Korea to discuss cooperation opportunities using REMCAP knowledge developed through the project.

REMCAP DISSEMINATION EVENTS: WORKSHOPS

As part of the REMCAP Project, the REMCAP project partners organised 3 distinct workshops to disseminate information about the project, its achievements and to build a database of interested consortia to ensure that the work that has been undertaken through the project is shared with interested parties.

March 11th 2014
REMCAP workshop at Oceanology
International 2014, London

Oceanology International is the largest annual maritime Conference in Europe. A REMCAP workshop took place during the Oceanology International Conference held in London in March 2014. This workshop focused on blue growth opportunities in renewable energy markets and their value chains. The workshop introduced the project to the audience and explored possible future project collaborations that could be created as a result of some of the outcomes of the REMCAP Project.

The workshop was moderated by Mr. Jonathan Williams, CEO, Marine South East (UK) and speakers from the REMCAP partner consortium include Mr. Eoin Moynihan, NMCI (IRE) who discussed the emerging opportunities available in wave, Mr. Nerijus Blažauskas, Klaipeda University (LT) who discussed New OWE developments in the Baltics and Mr. Henrik Klintenberg from the Swedish Maritime Technology Forum (SE) who discussed offshore wind and ‘green’ support vessels.



May 28th 2015
REMCAP Workshop at Maritime Days,
Greece

On the 28th May the REMCAP project hosted a dedicated REMCAP workshop entitled, ‘Expanding Blue Growth around Ports and Facilities’ at the 2015 Maritime Days conference which was held in Athens, Greece.

The workshop focused on three key blue growth markets identified in the Commission’s Blue Growth report, and their value chains, comprising: offshore wind farms; aquaculture; and marine renewable energy. The workshop explored how ports and other major facilities can leverage investment in blue growth and examined how maritime clusters can maximise this investment by placing an emphasis on innovation and international competitiveness, building on the REMCAP project.

The workshop was moderated by Mr. Jonathan Williams, CEO, Marine South East (UK) and speakers from the REMCAP partner consortium included Mr. Eoin Moynihan, NMCI (IRE), Mr. Martin Wall, IMERC (IRE) and Mr. Frederico Ferreira, OCEANO XXI (now Fórum Oceano) (PT).

After the workshop audience members were invited to register their interest in building new project consortia which target the priority innovation topics of seabed anchoring, novel fuels, aquaculture and autonomous systems.

September 23rd 2015

REMCAP Workshop on Maritime Autonomous Systems, Cork

On 23rd September, a REMCAP workshop was held with the aim of building consortia and bringing together interested stakeholders in the Maritime Autonomous Systems (MAS) sector.

The workshop was organised by the Irish REMCAP partners in Cork – Halpin Centre for Research & Innovation at NMCI, Cork Chamber and Cork County Council, and hosted in the National Maritime College of Ireland. The workshop was chaired by Dr. Jonathan Williams from Marine South East (UK). The workshop was divided into three distinct sessions and featured presentations by REMCAP partners as well as other experts in the field.

The well-attended workshop included presentations from speakers such as Marc Shorten from the Daithí Ó Murchú Marine Research Station, and Frederico Ferreira from Fórum Oceano (PT) (also a REMCAP project partner) on the use of MAS in the aquaculture industry. Diarmuid O'Connor from Smartbay Ireland spoke on the use of MAS in the Marine Renewable Energy sector.

Andrew Parish from Sound & Sea Technology and Cormac Gebruers from the Halpin Centre spoke in the second session about the realities of using MAS in the fields of underwater surveillance and inspection, and of the opportunities existing for companies which traditionally had little involvement in the maritime sector to diversify into new markets connected to the increased use of Marine ICT and mechatronics.

The interesting presentations from the speakers resulted in an in-depth conversation amongst the panel and audience. Among the topics discussed were the difficulties for companies seeking to enter the maritime sector in accessing the knowledge and information they need. The increasing levels of automation and technology expected in the future and shaking up the traditional methods of business in the generally traditional maritime market were also debated.

The workshop was held to coincide with a separate workshop the following day organized by University College Cork and the National Maritime College of Ireland, partners on the ESA project CINMarS, which looks at increasing the synergies and opportunities between the space and maritime industries.



REMCAP PARTNERS AT WORK

Recent Promotion and Dissemination Activities undertaken by the REMCAP Project Partners

May 2015

Project Meeting, Klaipeda, Lithuania

The fifth project meeting took place at the Klaipeda Science and Technology Park from the 12th to the 14th of May. This meeting was used to finalise the action planning phase of the project and agree on the key outputs developed through this phase that should be further developed during the final implementation phase. This workshop also discussed how the implementation phase could support the regional and joint action plans and also identified how to capture the international impact of the REMCAP Project.



May 2015

REMCAP Cluster Development Meeting Håverud, Sweden

The Swedish Maritime Technology Forum hosted a local REMCAP cluster development meeting in Håverud in May. With an emphasis on alternative business models the meeting brought small-sized business companies and the public representatives together to discuss the importance of the marine environment and inland water channels in the area.

The meeting explored international best practice examples and compared these to the regional situation. Digital solutions were also demonstrated to encourage new alternative business solutions.

June 2015

The Blue Economy: Business Breakfast Hosted by Cork Chamber

On the 25th June 2015, Cork Chamber hosted a Business Breakfast in Cork featuring Dr Peter Heffernan, CEO of the Marine Institute as the guest speaker. The event attracted approximately 150 guests who were informed of the REMCAP project by the Cork Chamber President, Mr. Barrie O'Connell. REMCAP dissemination material including brochures and Newsletters were also disseminated at this event.



June 2015

Update by Cork County Council to their EU Affairs Committee

The EU affairs committee of Cork County Council were provided with an update on the REMCAP Project. This Committee consists of 15 Councillors representing all political parties in Cork. The committee meets every two months on average and they are informed of all EU matters or potential EU projects that the County Council are involved with.

REMCAP PARTNERS AT WORK

July 2015

REMCAP Dissemination at SeaFest Cork, Ireland

On the 10th of July 2015 the Irish REMCAP partners represented the REMCAP project at The SeaFest 2015 event. Held over 3 days, SeaFest 2015 brought together investors, academics, key figures and stakeholders from the private and public sector with an interest in the marine. The REMCAP Project hosted a stand at the conference where members of the Irish consortium of partners disseminated information about the REMCAP project to the attendants of the Harnessing Our Ocean Wealth Conference.

Cork Chamber President, Barrie O'Connell, presented to an audience at the "Marine Enterprise and Business" breakout session and during his presentation he spoke about the REMCAP project and its benefit for businesses operating in the Marine sector.



July 2015

Letter to Commissioner Vella

In July 2015 a number of REMCAP partner organisations attended a European Network of Maritime Clusters meeting with Karmenu Vella, European Commissioner for Environment, Maritime Affairs and Fisheries. At this meeting Commissioner Vella stated his aim to ensure that 20% of the Juncker Plan investment is targeted at the blue economy and the Commissioner also expressed a strong interest in hearing ideas about how regional clusters could be instrumental in driving investment in the blue economy.

In light of this, the REMCAP partners led by MSE, wrote to the Commissioner reinforcing the REMCAP project experience that regional clusters are best placed to engage the wide community of SMEs and other firms in blue growth. It also outlined how regional clusters can be catalysts for investment of the European Fund for Strategic Investment under the Juncker Plan. The letter also included a background page highlighting Ocean Based Sustainable Solutions to Global Challenges.

August 2015

Cluster Analysis of the Western Maritime Cluster, Sweden

An initial review of the Western Maritime Cluster was undertaken to outline the composition of the cluster in terms of public and private stakeholders; "[Den maritima näringen i Västra Götaland](#)" (published in Swedish only).

This initial report was followed by an empirical and interview based cluster study called "Organizing in the Maritime Cluster of Western Sweden" which was developed by the Department of Technology Management at Chalmers University. It looked at the organisation and collaboration activities in the cluster to develop a better understanding of the regional maritime growth and innovation opportunities.

REMCAP PARTNERS AT WORK

September 2015

SMTF Methanol Workshop, Sweden

Novel Fuels was selected as one of the joint priority topics for further development and cooperation between the clusters in the REMCAP project. Due to recent but very niche market advancement in fossil methanol, SMTF coordinated a group of national experts on the topic in order to further evaluate the status of methanol value chains and possible bio production methods. The workshop led to the onset of a methanol network. The network is open to international collaborations and knowledge exchange, please email info@smtf.se for more information.

September 2015

**Interactive Clustering Workshop Series
Cork, Ireland**

Cork County Council in partnership with Cork Institute of Technology organised an interactive Clustering Workshop Series. This workshop was held over two days on the 28th & 29th of September. There were four sessions which looked at the following topics: Cluster Analysis, Building International Collaborations, Building Economic Growth through Clusters and Cluster Organisation Development.

The event attracted attendants from the academic, public and commercial sectors and included representatives from more than 10 Irish and International clusters.

October 2015

**Implementation of RIS3 Priorities in Blue
Growth, Las Palmas de Gran Canaria**

REMCAP was presented by MSE at a workshop on 8th October 2015 hosted by the Smart Specialisation (S3) platform, held at Las Palmas on Gran Canaria. This event explored how Blue Growth opportunities could best be incorporated within regional innovation priorities. The innovation road-mapping work carried out in REMCAP was of particular interest, and will help regions to focus their priorities down to a level where businesses can fully engage. [Click here](#) for Workshop Presentations.

October 2015

**REMCAP outputs discussed at Lithuanian
Parliament Meeting**

On the 5th October there was a special meeting of the Seimas (unicameral Lithuanian parliament) of the Republic of Lithuania. The meeting was dedicated to the 25th anniversary of Klaipeda University.

During this meeting, guidelines for the development of blue growth in Lithuania were presented by the Vice Rector of Klaipeda University, Saulius Gulbinskas. During his presentation he introduced the Focus Markets identified through the REMCAP project as a key success factor identified at an EU level.

This meeting also identified the Klaipeda Marine Cluster as a key conduit in strengthening marine business, science and education sectors in Lithuania and beyond through collaboration with European clusters.

REMCAP PARTNERS AT WORK

October 2015

Project Meeting, Gothenburg, Sweden

The final REMCAP project meeting was held on the 14th and 15th of October in Chalmers Conference Centre, Gothenburg. This meeting was attended by a number of interested parties from outside the REMCAP partners and included a presentation by Olle Stenberg, CEO of Marine Biogas. This meeting focused on ensuring the future impact of the REMCAP project through consortia building opportunities and international activities.



REMCAP partners at final Project Meeting in Gothenburg, October 2015

October 2015

**SEA Europe and IndustriALL Europe, Brussels,
Belgium**

On 27th October, Rima Mickeviciene presented the achievements of Klaipeda University and the REMCAP project during the SEA Europe and IndustriALL Europe workshop. The workshop invited participants to discuss their experiences regarding the development of innovative tools and regional strategies to monitor skills needs and address the skills mismatch and gaps in the maritime technology sector.

October 2015

**Transport Means Conference 2015, Kanus,
Lithuania**

The international conference:Transport Means 2015 was held on the 22nd and 23rd of October. During this conference Rima Mickeviciene, Klaipeda University made a presentation which focused on green shipping and blue growth which was based on the results of the REMCAP project.

REMCAP A CATALYST FOR BLUE GROWTH

One of the original objectives of the REMCAP partners at the start of the project was to ensure that the outputs produced during the REMCAP project would be built upon after the end of REMCAP.

With this in mind, throughout the project the REMCAP partners have continuously looked to identify new opportunities where the outputs and achievements of REMCAP can be utilized after the lifetime of the project. To this end, identifying new projects and funding streams in addition to formalizing consortia groups interested in the priority growth areas in blue economy has been a key objective of this project.

The REMCAP project partners have achieved some success to date in developing a number of project proposals that emerged in part through the activities of the REMCAP project. In total **6 project ideas for consortium building** were prepared and drafted by REMCAP partners on topics including Geotechnics & contaminated sediments; Mooring and anchoring optimization; Maritime Autonomous Systems (MAS) for monitoring offshore wind and Marine Renewable Energy facilities; Study of novel (bio-) fuels for marine propulsion; Seabed Mining These include:



1. CINMarS (Combining Innovation Networks in Maritime & Space)

CINMarS is an ESA funded project which aims to identify and scope priority areas for joint space-maritime innovation. The CINMarS project team comprises of six partners, representing three world renowned maritime innovation clusters including two REMCAP clusters IMERC and OCEANXXI who will work with Norut, a Norwegian Cluster organisation.

Similarly to REMCAP's approach of utilising the capabilities of triple-helix maritime clusters, CINMarS will identify key opportunities for maritime businesses hoping to exploit the latest advances in space technology, as well as identify the supports required by businesses to take advantage of these opportunities.



2. Development and transfer of maritime monitoring and surveillance technology throughout the Baltic Sea Region (Project Proposal)

As a result of the REMCAP project activities the Klaipeda Maritime Cluster has developed a new project proposal which will explore the development and transfer of maritime monitoring and surveillance technology throughout the Baltic Sea Region. The consortia involved in the proposal consists of partners from Lithuania, Germany, Poland, Latvia and Estonia and the consortia aim to apply for project funding through the European Union Strategy for the Baltic Sea Region (EUSBSR) programme.



3. CLINSH Proposal to LIFE+ Programme

REMCAP coordinator MSE was introduced into this proposal by another REMCAP partner, SMTF. The project aims to advance energy efficiency and improved emissions performance of the inland waterways fleet and port infrastructure, through use of novel fuels. The proposal has been submitted and the project hopes to commence in 2016.



4. COLUMBUS

REMCAP coordinator MSE will transfer learnings from the REMCAP project to a recently awarded H2020 project. COLUMBUS will establish a "Knowledge Fellowship", a network of nine full time node-based Knowledge Transfer Fellows whose role will be to carry out Knowledge Transfer using a methodology based on needs prioritised early in the project. Working together as a team and active network, this combined critical mass will provide a multiplier effect to help achieve measurable impacts and to develop a blueprint

for future activities in this field of work, ultimately contributing to the development of a thriving and sustainable marine and maritime economy.



5. NEPTUNE (New cross sectoral value chain creation across Europe facilitated by Clusters for SME Innovation in Blue Growth) (Project Proposal)

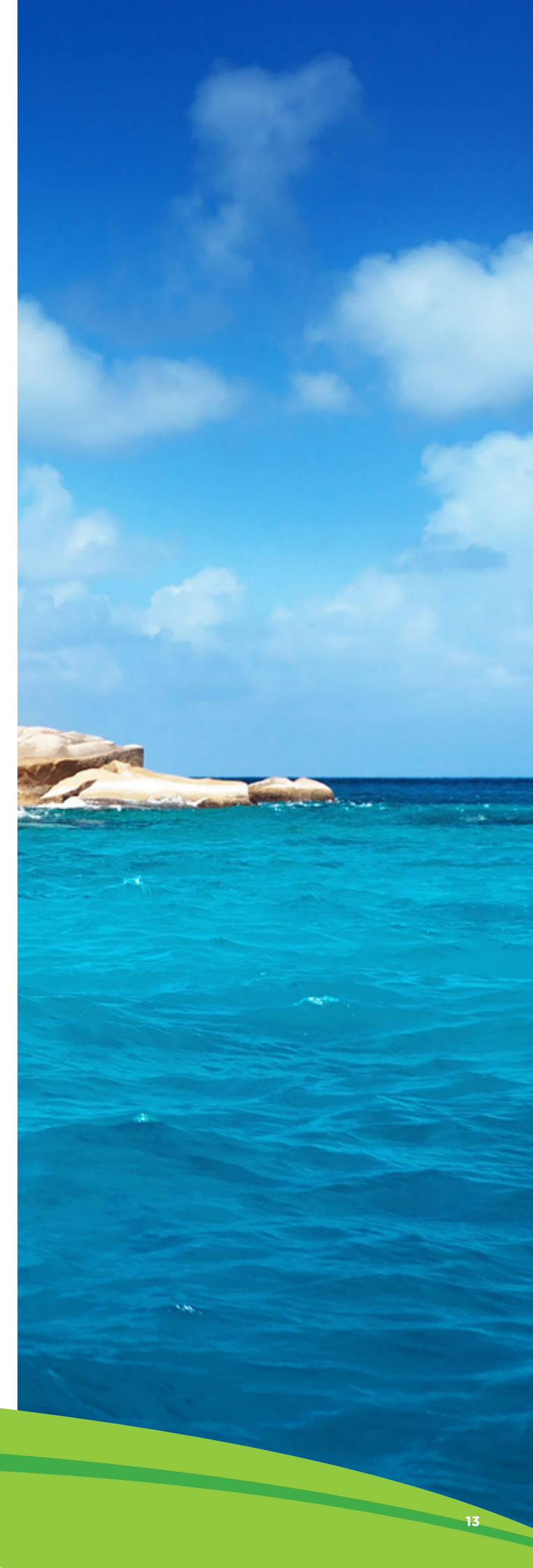
This project proposal includes Pole Mer Mediterranee as a project partner and NEPTUNE aims to develop new cross-sectoral and cross-border industrial value-chains, with a specific focus on including SMEs, to foster the development of Blue Growth industries in Europe and beyond. This will be based on the construction or reconfiguration of value chains driven by the integration of new technologies and know-how between Water, Aerospace, ICT and Agriculture industries.



6. SMART-PORTUNITIES (Smart Port Cities & Communities) (Project Proposal)

Last September eight European partners including four from REMCAP, Fórum Oceano, Marine South East - MSE, Swedish Maritime Technology Forum, SMTF and Baltic Valley Association, submitted a project proposal to the H2020-INNOSUP-2015-1, under the topic: Cluster facilitated projects for new value chains.

The main objective of the SMART-PORTUNITIES Project is to develop new cross-sectoral industrial value chains with application and exploitation in two emerging sectors: Blue Growth and Maritime Industries; and, Smart Cities and Communities across the EU, by building upon the innovation potential of SMEs, boosting industrial competitiveness and underpin future economic growth, jobs, and progress towards a resource-efficient economy.



KEY CONTACTS

PROJECT COORDINATORS

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REMCAP CLUSTERS	Partner organisations	Website
  In partnership with 	Solent Maritime Cluster, England Marine South East University of Southampton Portsmouth City Council	www.marinesoutheast.co.uk www.southampton.ac.uk www.portsmouth.gov.uk
	Pole Mer Mediterranee, France Toulon Var Technologies	www.polemermediterranee.com
  	Irish Maritime & Energy Resource Cluster (IMERC), Ireland Cork Institute of Technology Cork Chamber of Commerce Cork County Council	www.cit.ie www.corkchamber.ie www.corkcoco.ie
  	Klaipeda Maritime Cluster, Lithuania Baltic Valley Association Klaipeda University Klaipeda Science and Technology Park	www.balticvalley.lt www.ku.lt www.kmtp.lt
	Fórum Oceano, Portugal Fórum Oceano	www.forumoceano.pt
  	Western Sweden Maritime Cluster, Sweden Chalmers University of Technology Region Västra Götaland Swedish Maritime Technology Forum	www.chalmers.se www.vgregion.se www.smtf.se

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