



A Plastic-free healthy Mediterranean Sea: the BLUEMED R&I Pilot

The Horizon funded Coordination and Support Action and its role in sustaining the Pilot Rimini, Ecomondo, 7 November 2019



BlueMed Coordination and Support Action

1 Oct 2016-30 Sep 2020

2,998 K€, EC (H2020 WP-2014-2016 SC2-BG-13)



















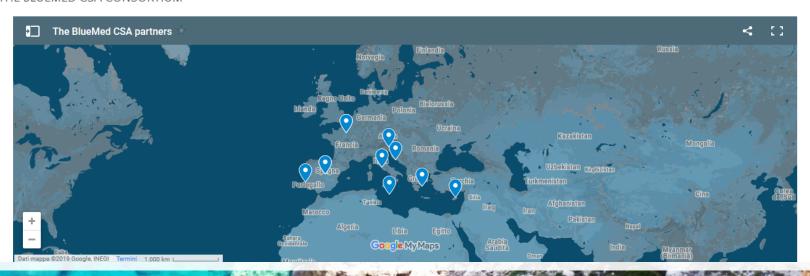








THE BLUEMED CSA CONSORTIUM



May 2014	9	BLUEMED Initiative set-up in the framework of the EU Blue Growth Strategy	
December 2014	þ	BLUEMED Vision Document endorsed at the Competitiveness Council	
October 2015	þ	Venice declaration launching the BLUEMED SRIA	
November 2015	þ	Union for Mediterranean Declaration on the blue economy adopted, non-EU countries invited to join the BLUEMED Initiative	
October 2016	þ	BLUEMED Coordination and Support Action begins to support the BLUEMED Initiative	
April 2017	0	BLUEMED high-level conference "A Basin of Research and Innovation for sustainable growth". First update of the BLUEMED SRIA	
May 2017	þ	Valletta Declaration on strengthening Euro-Mediterranean cooperation through Research and Innovation	
February 2018	þ	Group of Senior Officials BLUEMED Working Group established as initiative's steering body	
October 2018	0	Launch of the pilot action for a healthy plastic-free Mediterranean Sea	
July 2019	0	Research Infrastructures Roadmap, Data Policies and Accessibility Plan and Blue Careers Plan	
September 2020	0	Implementation Plan	





Pilot Action for a plastic-free, healthy Mediterranean Sea

Joining forces to address marine litter in the Mediterranean

The BlueMed Pilot Action consists in mapping and assessing the actions on place regarding marine plastic pollution in the EU and non EU countries of the Mediterranean in order to share of good practices, R&I actions but also demonstration, communication and education activities.



Why a Pilot Action on plastic litter in the Mediterranean?



About 8 million tons of plastic litter enter the ocean every year.

threatening marine wildlife and ecosystems, affecting indirectly the human health and the sea based economies.

Plastic pollution represents a **transboundary problem** and thus it requires global coordination and long-term multiple approaches to develop shared solutions.

Currently, Mediterranean is now one of the more plastic polluted seas at world scale, with record levels of microplastics. With only 1% of the world's waters, Mediterranean Sea concentrates 7% of all global microplastics, earning the "plastic trap" appellative.

Which actions to take forward?

Reduce	Prevent littering
the generation	and leakage of plastics
of plastic waste	into environment
Collect and use plastic already in the environment	Overarching actions

A multiperspective approach

Business creation

Sustainable Tourism

Social inn

Gove

Innovation in material and products

Education

urism & Assessment/Monitoring
Social innovation/digital technologies

Governance Citizen science Waste management Step 0 → Agreement at Basin level and launch



Step 1 → Mapping of the best R&I practices/
experiences and identifying possible synergies at country level



Step $2 \rightarrow$ Identification of the type of actions to be taken forward



Step 3 → Shared decision on the process, establishing dedicated hubs at national level





Bluemed

Research and innovation initiative for blue jobs and growth in the Mediterranean area

Strategic research and innovation agenda

4 pillars, 13 priority goals

- Key enabling **knowledge** for the Med (ecosystems, dynamics, pollution, coastal areas...)
- Key **sectoral enablers** in the Med (tourism, clusters, MSP, bioresources, ...)
- Enabling **technology** and capacity creation for the Med (transport, observing systems, off-shore platforms, cultural heritage)
- Cross-cutting enablers for blue jobs and blue growth (open science, skills, ...)



13 priority goals were selected by countries of the Basin from the BlueMed Strategic Research and Innovation Agenda: their implementation will foster sutainable, non-conflicting Blue Growth in the Mediterranean.





sustainable food production



open data, open science, open innovation



greening vessels, facilities and services



pollution impacts, mitigation and remediation



capacities,
blue skills and
blue professionals



an observing system of systems



climate change adaptation and mitigation measures



exploring the potential of blue biotech



synergies among science, industry, policy-makers and society



tourism, tourists and environment



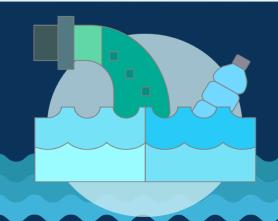
promote the role of

marine renewable
energies
in the energy transition phase



traditional maritime economic blue growth activities

Cross-feed the BlueMed Implementation Plan



understanding

pollution impacts, mitigation and remediation



Implementation Plan Outline

Part I - From vision to actions



Part II - Mapping and discussing implementation options and potentials

- How the SRIA can be deployed at regional / subregional and sectoral levels:
 - Recent and ongoing relevant projects
 - Programmes and initiatives of relevance, including research and data infrastructures
 - Target sectors and groups
 - Funding options and agencies

Part III - Activities to promote SRIA Implementation

- What can be done in the short-term to promote the implementation of the SRIA:
 - Networking, engagement, alignment, lobbying
 - Training and capacity building
 - Start-up and pilot actions
 - Communication and outreach

Activities to Promote SRIA Implementation



(impact actions)

Key relevant ongoing action

✓ Support to the development of the BLUEMED Pilot Action "Towards Plastic-free, Healthy Mediterranean Sea"

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Examples of activities [Champion countries must choose those activities that suit best the priority addressed]	Content and objective [Champion countries describe in more detail the content and specific objective of a given activity]	How and timeframe [Champion countries explain how the activity can be carried out and timeframe within the IP [2020-2023]]	
Networking and engagement of economic sectors and national Blue	Participation in the Maritime Clusters Participation in the Research	How: thematic workshops for stakeholders	
Growth communities	organizations (e.g. JERICO)	When: at least one per year	
170	GSO BLUEMED Working Group Alignment and coordination with	How: meetings	
Alignment and coordination	coherent EUSAIR initiatives Alignment and coordination with coherent UNESCO/IOC Initiatives Alignment and coordination with UNEP/MAP initiative dedicated to ecotoxicology and marine pollution	When: at least one each 6 months	
Promotion and possibly implementation of actions coordinated and jointly undertaken by different countries, with a "variable"	Research organizations	How: Development of strategies and plans for pollution monitoring, data exchange, mitigation and remediation of impacts	
geometry" approach		When: to be assessed	
Identifies priorities for prevention and remediation action plan	Addressing key GAPs and developing a framework that looks also at land-sea interaction. Focus on policy aspects.	How: Working groups When: at least one each 6 months	
	Blue Labs	How: calls	
Start-Up actions	EU funding calls Research organizations	When: each year	
Assessment and promotion of the capitalisation and valorisation under the BLUEMED umbrella of	GSO BLUEMED Working Group EU Advisory Groups	How: to be defined One ongoing action is the BLUEMED Pilot: Towards Plastic-free, Healthy Mediterranean Sea	
ongoing and future projects	Research organizations	When: to be assessed	
Lobbying actions	1000	How:	

So far >> preparatory background work

Session on A litter-free Med Sea: Utopia or Reality? @ the Malta Presidency BlueMed event in Sliema, April 2017 Panel discussion on **Building on the knowledge**we have and recognizing the knowledge gaps
we need to bridge to attain a healthy
Mediterranean Sea free of litter and plastics
@ the meeting with projects' coordinators,
Kalkara, Malta, January 2019





BLUEMED – A basin of research and innovation for sustainable growth

18 - 19 April, 2017 The Victoria Hotel, Sliema, Malta

The present >> support and participation to the dedicated workshops at Med level and technical assistance to the national hubs

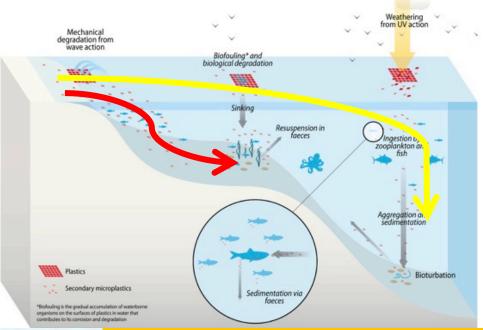
Mapping of best practices and relevant initiatives						
Title of the action	General objective	Action to be undertaken	Potential National Partners			
Country i/ Proposition n						
Country i/ Proposition m						
Country j / Proposition n						

The plastic problem: at once evident but elusive (a three-slide digression on commonly overlooked aspects)



Small rivers, flash high density flows carry plastic straight into the deep

Natural processes affecting the distribution and fate of plastics











Litter interacts with living forms (sessile and not) **Shelter**

Entanglemen



Substrate







Spawning areas?

The future >> e-training course on marine litter

Draft outline

Introduction to Plastics and Microplastics

Plastics in the Sea

Impact of plastics on marine ecosystems

Research and Maniton in Protocols

Use of new technologies for observation (drope remote sensing, sensors) (as in University of the

ion and roos (as in CLAIM, GoJelly, ...) Cutting edge technology of

Alternatives and R

Fisheries and Aquagut purputs, Issues, Actions)

Inputs, issues, Actions)

Shipp og (Inputs, Issues, Actions)

Cosmetics Industry (Inputs, Issues, Actions)

Governance Challenges - EU Policy and Action Plans

Constant promotion and communication

- Presentation at relevant international meetings: Sustainable Black Sea High-level Conference (Bucharest, Romania, May 2018), EurOCEAN Conference (Paris, France, June 2019), International Conference on Microplastic Pollution in the Mediterranean Sea (Capri, Italy, September 2019), etc...;
- Action plan of the BlueMed Young Communication Ambassadors;
- Production of ad hoc gadgets.

BlueMed plogging bag

"plogging"= jogging picking up litter

- 1. go jogging on the beach;
- 2. use the bag to collect the litter you find on your way;
- 3. bring the litter back home and throw it in the correct recycling bin;
- 4. wash the bag if needed;
- 5. start againg from point 1. ©

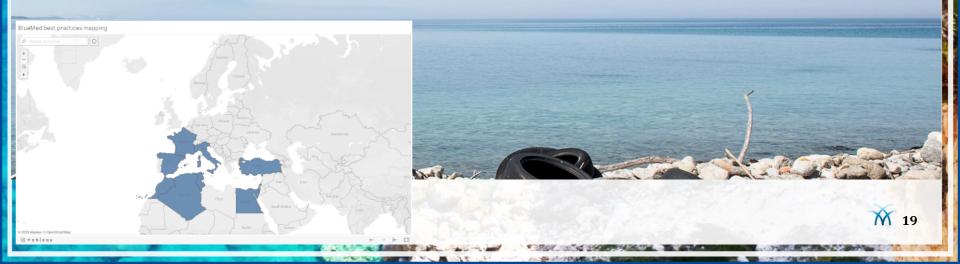






Dedicated webpage @ <u>www.bluemed-initiative.eu/pilot-action-on-a-healthy-plastic-free-mediterranean-sea/</u>

The BlueMed Pilot action, launched in 2018, consists in mapping and assessing the actions on place regarding marine plastic pollution in the EU and non EU countries of the Mediterranean area to promote the circulation of good practices, R&I actions but also demonstration, communication and educations actions specifically addressed to face the challenges posed by marine litter in the Mediterranean Sea as a whole.



Support actions for further uptake at national, EU, Med and global level





Union for the Mediterranean Union pour la Méditerranée الإتحاد من أجل المتوسط











