



National institute of
Oceanography & Fisheries
المعهد القومي لعلوم البحار والمصايد



blueMed

Blue Med Initiative for Mediterranean Sea

Nayerah Shaltout

Associate Professor

National Institute of Oceanography and Fisheries

blueMed

Contacts: fabio.fava@unibo.it, fedra.francocci@cnr.it

Research and Innovation
for blue jobs and growth
in the Mediterranean Area



Shaping a circular Blue Economy in the Mediterranean

27-28 June 2022 Cairo -Egypt

The Blue Economy in the Mediterranean Sea

OCEAN ASSET VALUE OF THE MEDITERRANEAN SEA - SHARED WEALTH FUND

Marine assets in the Mediterranean Sea generate much more value than we are aware of and could provide even more if well managed.

US\$5.6 tn

TOTAL SHARED WEALTH FUND ASSET BASE



MEDITERRANEAN SEA GROSS MARINE PRODUCT (GMP)

(data from 2015-2016)

Gross Marine Product (GMP) is the ocean's annual economic value.

92%

Marine & coastal tourism

2%

Fisheries & aquaculture

6%

Direct services enabled by the ocean

THE MEDITERRANEAN SEA REPRESENTS JUST

1%

OF THE TOTAL OCEAN, BUT COMPRISES

20%

OF THE GLOBAL GMP

The Mediterranean Sea represents 1% of total ocean surface but produces € 415 Bln/y, e.g., 20% global Gross Marine Product. It hosts 30% of global sea-borne trade, 450 ports/terminals, the 2nd World's largest market for cruise ships, half of the EU's fishing fleet, 400 UNESCO sites and 265 protected areas.

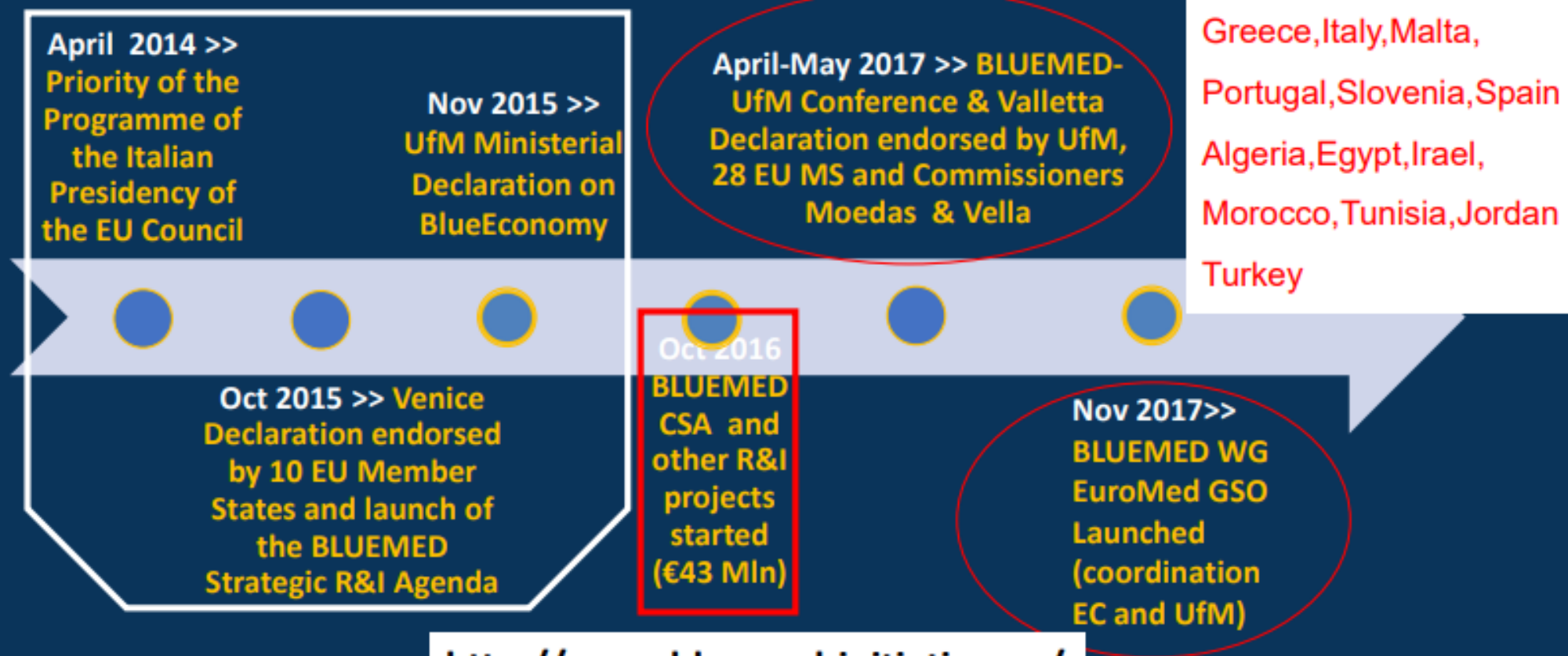
It is facing relevant environmental challenges (associated with climate change, pollution, overfishing, etc.) and it does not efficiently exploit local biodiversity, deep sea resources, renewable energy, etc.

Such challenges/opportunities cannot be addressed/implemented by any EU MS or local Country individually, but require a common/shared Vision and R&I Agenda.

The BLUEMED initiative: aims and actions

The R&I BLUEMED Initiative fosters integration of knowledge and efforts of Countries of the Mediterranean for a more sustainable blue growth in the area.

It was launched and implemented by the EU MS of the area in close cooperation with the EU commission (DG RTD, DG MARE). It was then open to all Countries of the area interested in joining it.



The BLUEMED R&I priorities

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



sustainable
food production



open data,
open science,
open innovation



effective maritime
spatial planning



greening vessels,
facilities
and services



understanding
pollution impacts,
mitigation
and remediation



building
capacities,
blue skills and
blue professionals



towards
an observing
system of systems



preparing to
climate change
adaptation
and mitigation
measures



exploring the potential of
blue biotech



strengthen
synergies among
science, industry,
policy-makers
and society



linking
tourism, tourists
and environment



promote the role of
marine renewable
energies
in the energy transition phase



from
traditional
maritime economic
to
blue growth activities

Building a broad partnership to develop and foster Mediterranean sea basin innovation ecosystem

Co-design of a portfolio of inter-country, multi-stakeholders and multilevel actions, also via joint workshops, to be jointly implemented

Info and connection details on: www.blumed-initiative.eu/ports-harbours-venice-september-14-2021/



@BlueMedEU

ECOMO
THE GREEN TECHNOLOGY

Home / Events

Program

The Blue
the 2030
transfo



BlueMed Pilot Action for a Healthy, Plastic-free Mediterranean Sea

**Unlocking the potential of Ports and Harbours
in preventing and reducing the effects of Marine Litter**

September 14, 2021 | Venice, CNR-ISMAR and online

EVENTO


OG Q



Education and Communication to support knowledge and technology transfer




Training on marine litter



Research and Innovation
for blue jobs and growth
in the Mediterranean Area

ABOUT TOOLS & ACTIONS PUBLICATIONS OUTREACH



17-Marina-di-Nicotera-Mare-Presso-Foce-Torrente-Britto - ritagliata

(image credits: Legambiente, Anna Paola Montuoro)

UNDERSTANDING AND ACTING FOR A HEALTHY PLASTIC FREE MEDITERRANEAN SEA

Building a sustainable blue economy in the basin

The BlueMed Initiative presents the e-training course on Understanding and acting for a healthy plastic free Mediterranean Sea, organized in the framework of the [Pilot Action Healthy Plastic-free Mediterranean Sea](#).

This course brings together experts working on Marine Litter and the Blue-economy in order to share knowledge, showcase best practices and suggest methods enabling more sustainable blue jobs in the framework of the circular economy strategy, taking into due consideration education for sustainable development and citizen science.



UNDERSTANDING AND ACTING FOR A HEALTHY PLASTIC FREE MEDITERRANEAN SEA

Building a sustainable blue economy in the basin

11 COMMUNITY AND CITIZEN AWARENESS, OCEAN LITERACY

July 21st, 2020 at 11:00 CEST

The citizens as active players in the marine circular economy, towards shared sustainable choices: marine tourism, food and water consumption, waste management, plastic reduction etc.

1. Intro on basic concepts of public engagement, community awareness, ocean literacy, citizen science and the RRI approach;
2. Webinar with experiences of citizens engagement in marine-based projects.

AGENDA:

11:00: Welcome address (Erasmia Kostandis, BlueMed and HCMR)
11:05: Introduction to the session and key concepts (Alba L'Astoria and Rita Giuffrè, BlueMed and CNR)
11:25: Panel: Sharing and discussing experiences of citizens' engagement in marine-based projects

Speaker	Engagement mode	Marine issues	Experience
Francesca Ronchi (SPRA, Italy)	Stakeholders engagement / RRI	Fishing/plastics	RRI-MARINA, DefishGear, ML-REPAIR, Fishing for Litter
Lucía Fraga (ICETMAR, Spain)	Ocean Literacy	Marine litter	CleanAtlantic project
Mihaela Mirea Cîndea (Mare Nostrum NGO, Romania)	Community engagement	Single use plastics	Anemone project
Macarena Maramba (ICSC, Barcelona)	Citizen science	Monitoring/global warming	Observadores del Mar / Sea Watchers
Inés Boujmi (INSTM, Tunisia) and Badr El Mahrad (Mohammed VI University of Rabat, Morocco and CIMA, Portugal)	Citizens' engagement in non-EU countries: the perspectives of the BlueMed Young Communication Ambassadors		

12:15: Questions & answers
12:25: Conclusions and session wrap up

Registration here: <https://register.gotowebinar.com/16147247/6107784076>
Info on the complete e-training: <https://www.bluedmed-initiative.eu/e-training-course/>

11 lessons, 19 experts

400+ registrants

<http://www.bluedmed-initiative.eu/e-training-course/>

BlueMed Young Ambassadors

to inspire and provide networking opportunities



INÈS BOUJMIL



BlueMed Y.C. Ambassador
In Tunisia

BADR EL MAHRAD



BlueMed Y.C. Ambassador
In Morocco

MUSTAFA GHAZAL



BlueMed Y.C. Ambassado
In Egypt

DENIZ YAPILCAN

FELLA MOUALEK

blueMed
@BlueMedEU

📢 All you ever wanted to know about the BlueMed Young Communication Ambassadors' Programme... in one doc!

👉 bluemed-initiative.eu/wp-content/upl...

@EUScienceInnov

@EU_MARE @UfMSecretariat @CNRsocial_

#BlueMedachievements #BlueMedAmbassadors

@BMahrad @InesBoujmil @FellaMoualek

@deniz_yapilcan



Badr El Mahrad
Morocco



Fella Moualek
Algeria



Inès
Boujmil
Tunisia

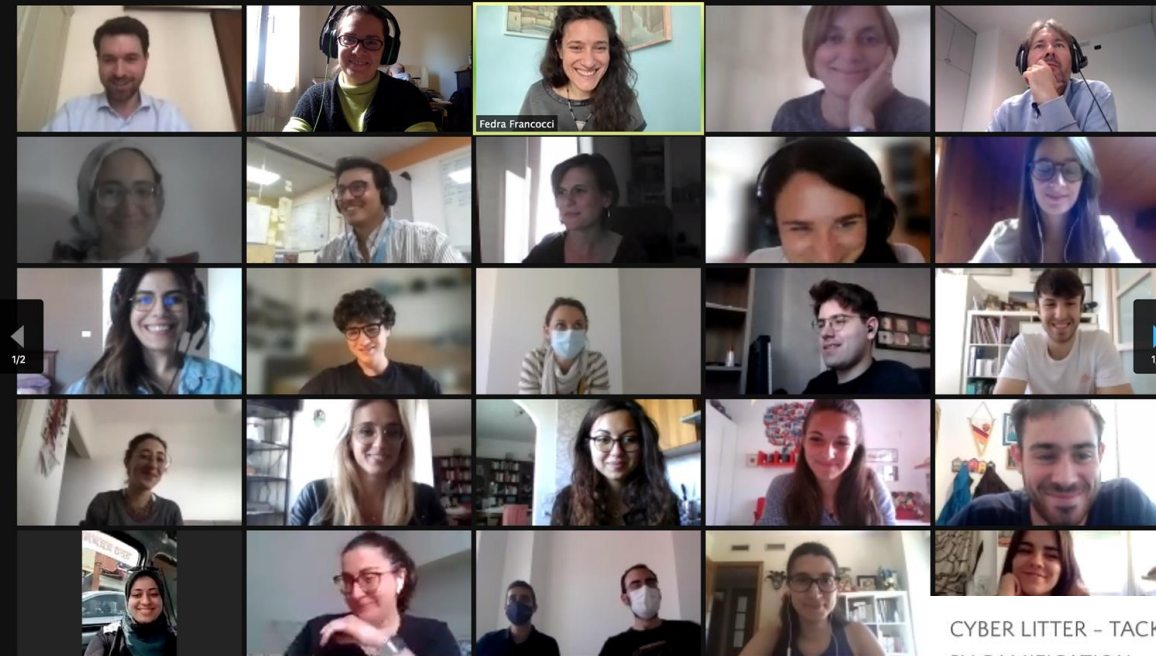


Mustafa
Ghazal
Egypt



blueMed HACKATHON

Ideas and Solutions for a Healthy Plastic Free Mediterranean Sea



Do you care about **marine pollution**? Apply now!
Registrations open until May 10th 2021

blueMed HACKATHON

Ideas and solutions for a Healthy Plastic Free Mediterranean Sea

Are you a passionate young MSc and PhD graduate in STEM disciplines,
a creative or a marine sciences young professional?

Join the BlueMed Hackathon
to contribute solving plastic pollution challenges!



CYBER LITTER – TACKLING MARINE LITTER
BY GAMIFICATION



PLANET – FISH, CONVERT & EARN



A BRIDGE PLATFORM TO ELIMINATE
PLASTIC POLLUTION



<http://www.bluemed-initiative.eu/bluemed-hackaton/>

The Mediterranean sea, a plastic trap!



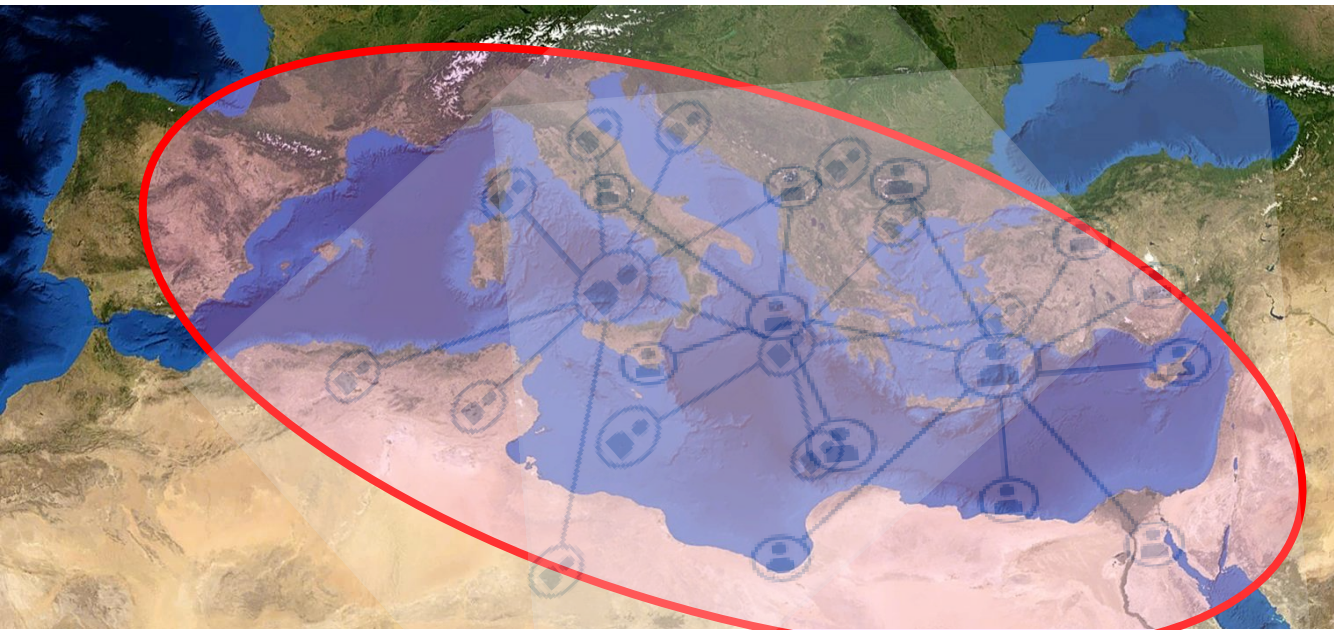
1% of the World's waters
the Med Sea is a "plastic trap"

7% of all global microplastics

Building the network and amplifying the connections **blueMed**

blueMed

Pilot Action for a plastic-free, healthy Mediterranean Sea



Algeria, Egypt, France, Greece, Israel, Italy, Malta, Morocco,
Spain, Tunisia, Turkey (Agreed to join 2018)



Mapping in all Countries **ongoing actions and initiatives** with clear technological, business, policy, educational and social impacts; 2019



Set up a joint **digital platform** to share the mapped **initiatives/projects** and the best experiences; 2020



Building a **broad partnership** to implement **joint concrete actions** to **remarkably reduce marine litter** in the Mediterranean sea, 2021-



Mapping at Country Level

1.

Monitoring and Assessment marine litter

- ✓Characterization of the impact of micro/nano plastics in the biota and ecosystem;
- ✓Smart monitoring devices and bio-indicators;
- ✓Data modelling to produce maps of concentration of macro and micro litter;
- ✓Baseline, standards and guidance for monitoring methods;
- ✓Data storage and data modelling for mapping purposes;
- ✓Lakes and Rivers monitoring for presence of micro/nano plastics and their effects.

2.

Preventing marine litter/Recycling plastics/Circular thinking

- ✓Plastic waste management and recycling;
- ✓Macro plastic removal and collection from river, watercourses and municipal wastewater streams;
- ✓Plastic collection from Lakes;
- ✓Smart manufacturing and Eco design of plastic-based products;
- ✓Development and production of biodegradable / biocompostable plastic;
- ✓Treatment plant monitoring;
- ✓Circular economy based smart app;
- ✓Plastic waste prevention.

3.

Recovery/Collection and Valorization

- ✓Development of technology for plastic removal/collection at coastal and sea level;
- ✓Fishing for Litter;
- ✓Cleaning activities by volunteers;
- ✓Testing of methods for plastic recycle towards chemical materials and energy;
- ✓Valorization of waste produced by fishing, in particular disused gears and tools

4.

Education/Training Communication

- ✓High level conference/events and summer schools
- ✓Massive Open Online Courses(MOOC)
- ✓International Master Courses
- ✓Public engagement, Citizen Science and e-learning training for general public
- ✓New media use and gamification

5.

Policies/Regulatory framework/Financing

- ✓Developing indicators for marine litter;
- ✓Developing regulatory framework for collecting plastics at sea by fishermen;
- ✓Creation of condition for plastic waste collection and recycle;
- ✓Developing standards for biobased plastics degradability at sea;
- ✓Support Mediterranean Member States towards the implementation of the Marine Strategy Framework Directive;
- ✓Promoting financial support to innovative enterprises or ideas



The BlueMed Pilot sets the scene for the Mediterranean Lighthouse

Scaling UP the BlueMed Pilot Action **capitalising** on the BlueMed Pilot National Hub

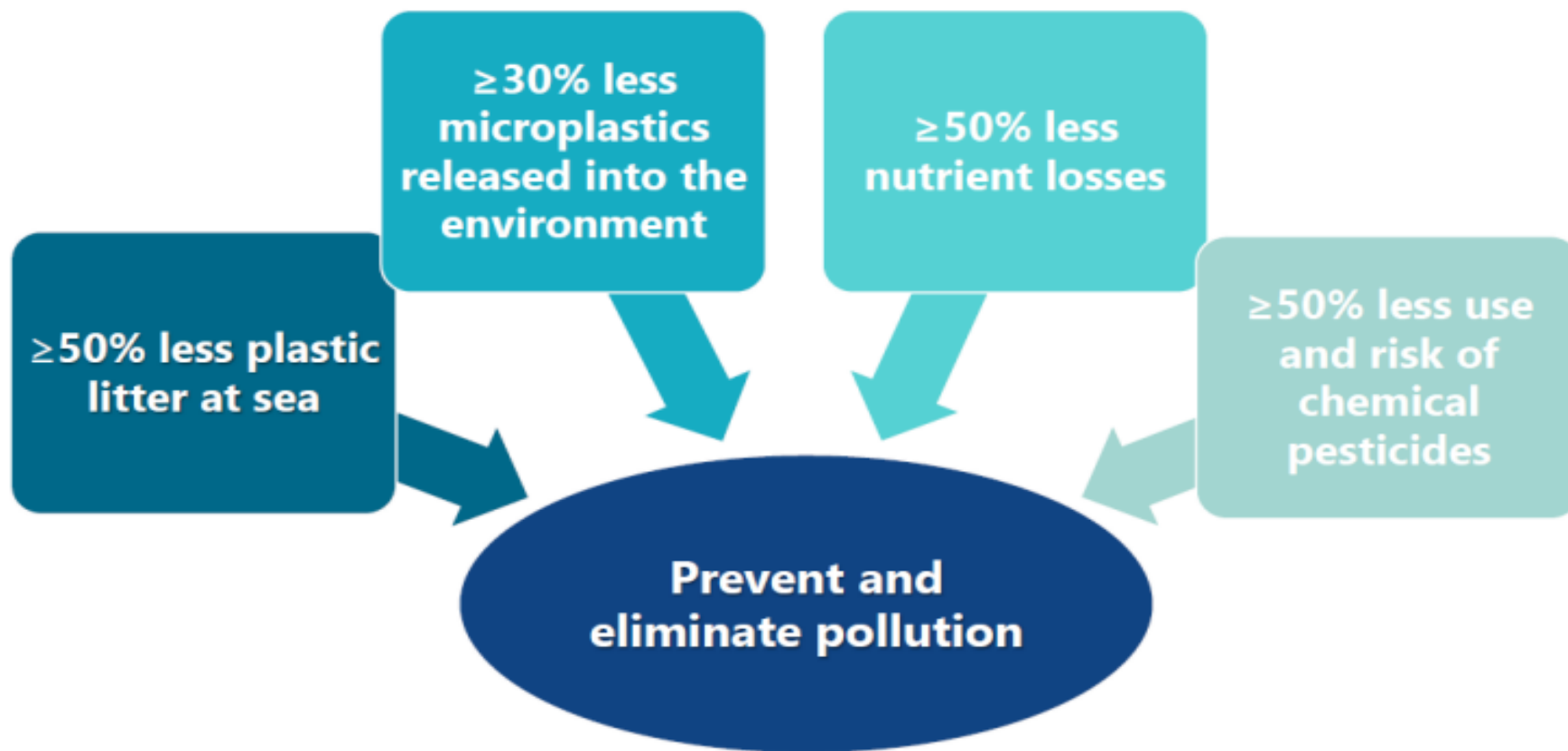
Expected Results:

- ❖ **Structuring** the connection among 12-16 National Hubs, sharing knowledge, expertise, infrastructures and co-designing a blue print for tackling Med Plastic Pollution & Circular Economy
- ❖ **Implement solutions** by involving scientists, private stakeholders, research bodies/public institutions, NGOs/citizens;
- ❖ Favour **joint actions and cooperation**



The Horizon Europe Mission Healthy Ocean, Sea and Inland Water: the action on the Mediterranean Sea

Mediterranean sea basin – Pollution lighthouse





Thank you!

www.blumed-initiative.eu

@BlueMedEU

Pilot Action for a plastic-free, Healthy Mediterranean Sea

g forces to address marine litter in the Mediterranean

The 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.



credits: Legambiente, photo by Anna Paola Montuoro

More info: <http://www.blumed-initiative.eu/pilot-action-on-a-healthy-plastic-free-mediterranean-sea/>

