



THE EU RESEARCH & INNOVATION PROGRAMME

2021 - 2027

ELISABETTA BALZI Healthy Mediterranean Sea Pilot workshop 14 September 2021

Research and Innovation

A success story

<u>CLAIM Project – Cleaning Litter by developing and Applying</u> <u>Innovative Methods in European seas</u>

Technologies will prevent litter from entering the sea at two main source points: **waste-water treatment plants** and **river mouths**

A photocatalytic nano-coated device will be developed for use in treatment plants to **clean microplastics**, harnessing the power of the sun to jump-start the degradation of nanoparticles.

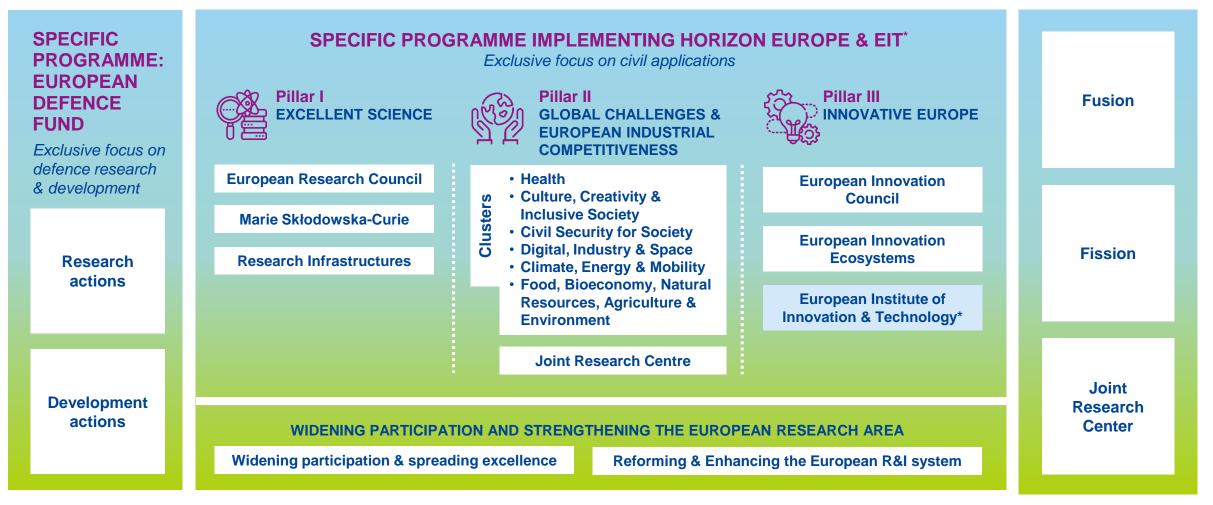
The project will also deploy a thermal treatment device for energy recovery from collected litter onboard ships and also in ports.

Check out the results of Horizon 2020 projects to tackle plastic pollution in our ocean & sea



HORIZON EUROPE

EURATOM



* The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme



HE Pillar II. Budget for clusters & for JRC

in current prices

| Cluster 1 | Health | €8.246 billion (including €1.35 billion from NGEU) |
|-----------|---|--|
| Cluster 2 | Culture, Creativity & Inclusive Societies | €2.280 billion |
| Cluster 3 | Civil Security for Society | €1.596 billion |
| Cluster 4 | Digital, Industry & Space | €15.349 billion (including €1.35 billion from NGEU) |
| Cluster 5 | Climate, Energy & Mobility | €15.123 billion (including €1.35 billion from NGEU) |
| Cluster 6 | Food, Bioeconomy, Natural Resources, Agriculture & Environment | €8.952 billion |
| | JRC (non-nuclear direct actions) | €1.970 billion |

Clusters are including a budget for Partnerships and Missions NGEU is Next Generation EU programme – Recovery Fund



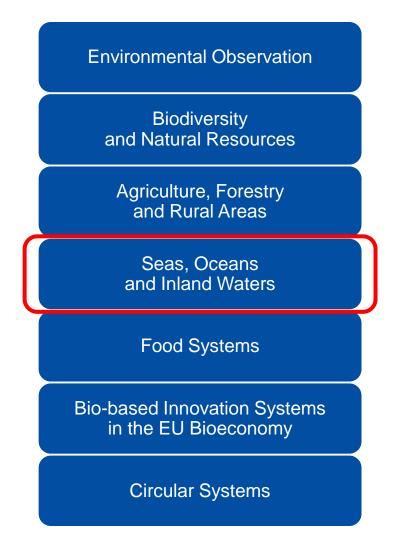
Cluster 6. Area of Intervention: Seas, Oceans and Inland Waters

- Protect, restore and sustainably manage marine, inland and coastal ecosystems and prevent pollution, in a context of an improved and responsible governance framework
- Sustainably unlock the vast and unexploited economic potential of seas, oceans and inland waters aiming at producing more safe food, bio-based ingredients and raw material without increasing pressures on them, as well as the potential of aquaculture
- Partnering approaches, including sea basin and macro-regional strategies, and for contributing to International Ocean Governance commitments



CLUSTER 6 WP2021-2022: structure

FP Intervention Areas



Work Programme. Destinations

Land, oceans and water for climate action

Biodiversity and ecosystem services

Circular economy and bioeconomy sectors

Clean environment and zero pollution

Fair, healthy and environmentally-friendly food systems from primary production to consumption

Resilient, inclusive, healthy and green rural, coastal and urban communities

Innovative governance, environmental observations and digital solutions in support of the Green Deal

https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wpcall/2021-2022/wp-9-food-bioeconomy-natural-resources-agriculture-andenvironment_horizon-2021-2022_en.pdf

https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wpcall/2021-2022/wp-12-missions_horizon-2021-2022_en.pdf

Horizon Europe website: <u>http://ec.europa.eu/horizon-europe</u>

HORIZON EUROPE MISSIONS

Mission 'Restore our Ocean and waters by 2030' -



What are missions

EU missions should:

- Be **bold and inspirational**, with wide societal relevance
- Indicate a clear direction: targeted, measurable and time-bound
- Be **ambitious but realistic** research and innovation actions
- Spark innovation across disciplines, sectors and actors
- Be based on a **bottom-up** approach of multiple solutions

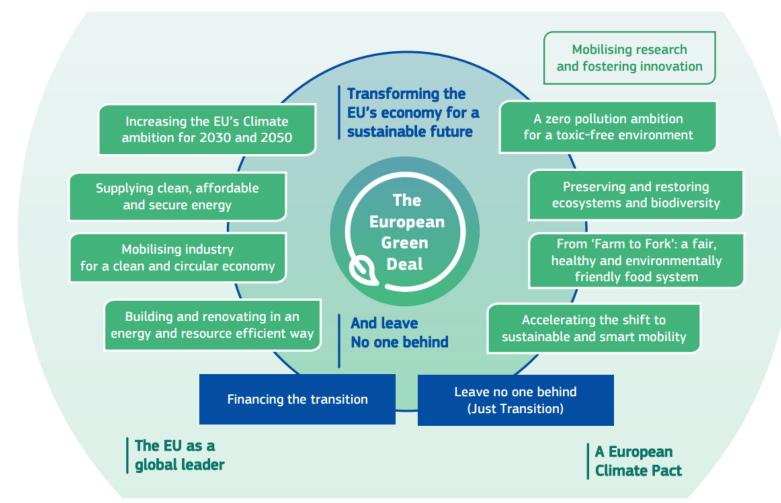






Mission Restore our Ocean and Waters

- The European Union can only fulfil its European Green Deal objectives with a healthy ocean
- Healthy ocean is only possible with a healthy water system.



Mission objectives and targets

Restore our ocean and waters by 2030

Protect and restore marine and freshwater ecosystems and biodiversity in line with EU Biodiversity Strategy

Protect a minimum of 30% of the EU's sea area and integrate ecological corridors, as part of a true Trans-European Nature Network.

Strictly protect at least 10% of the EU's sea area

At least 25,000 km of free-flowing rivers are restored

Contribute to relevant upcoming marine nature restoration targets incl. degraded seabed habitats and coastal ecosystems Prevent and eliminate pollution of our ocean, seas and waters in line with EU Action Plan towards Zero Pollution

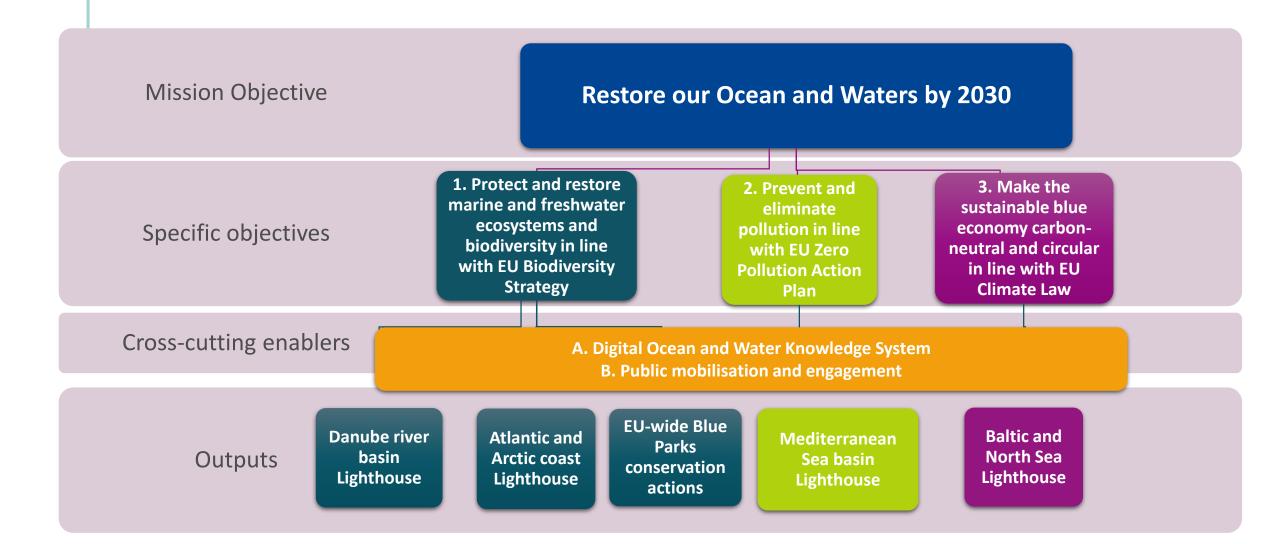
Reduce by at least 50% plastic litter at sea

Reduce by at least 30% microplastics released into the environment

Reduce by at least 50% nutrient losses, the use and risk of chemical pesticides Make the Blue Economy carbon neutral and circular in line with the European Climate Law

Eliminate greenhouse gas emissions from maritime economic activities in the EU and sequester those emissions that cannot be avoided (net zero maritime emissions)

Develop zero-carbon and lowimpact aquaculture, and promote circular, low-carbon multipurpose use of marine and water space.





Implementing the Mediterranean Sea lighthouse

Lighthouse objectives

- Connect and structure existing activities, disseminate and upscale solutions and mobilise relevant actors.
- Develop and deploy solutions to prevent, minimise, eliminate and monitor pollution in the Mediterranean Sea and its major river catchment areas
- Initial focus on plastic pollution, while agricultural pollution (nutrients) and urban/industrial pollution (chemicals), as well other sources of pollution such as pharmaceuticals and noise will subsequently be addressed

Support from Horizon Europe

- Preparatory steps towards Implementation charters
- Lighthouse technical and financial platforms and coordination activities
- Scalable breakthrough innovations to prevent and minimise marine and freshwater pollution.
- Enabling conditions including citizen assemblies: setting up, piloting and running them

Commitment from lighthouse partners

- The lighthouse partners (Member States, macroregions, regions, international partners, other stakeholders) should define, based on existing agreements, concrete measures for the basin for pollution reduction.
- Commit partners to addressing the Mission objectives including through their own programmes, instruments and initiatives

European Commission

HORIZON-MISS-2021-OCEAN-01-01 PREPARATION FOR DEPLOYMENT OF 'LIGTHOUSE DEMONSTRATOR'...



INDICATIVE BUDGET 5 mln EUR in total



DEADLINE

14 September 2021



EXPECTED OUTCOMES

Improved capacity to identify areas and solutions for effective lighthouses and scale ups, effective and timely deployment and de-risking of scale ups;

- Transformative and systemic portfolio approach to solutions addressing the challenges which the ocean, seas and waters are facing
- Increased awareness of stakeholders and citizens about the mission's objectives,
- Full and early uptake and support of the mission by the Member States and Associated countries, regions and other stakeholders and citizens.









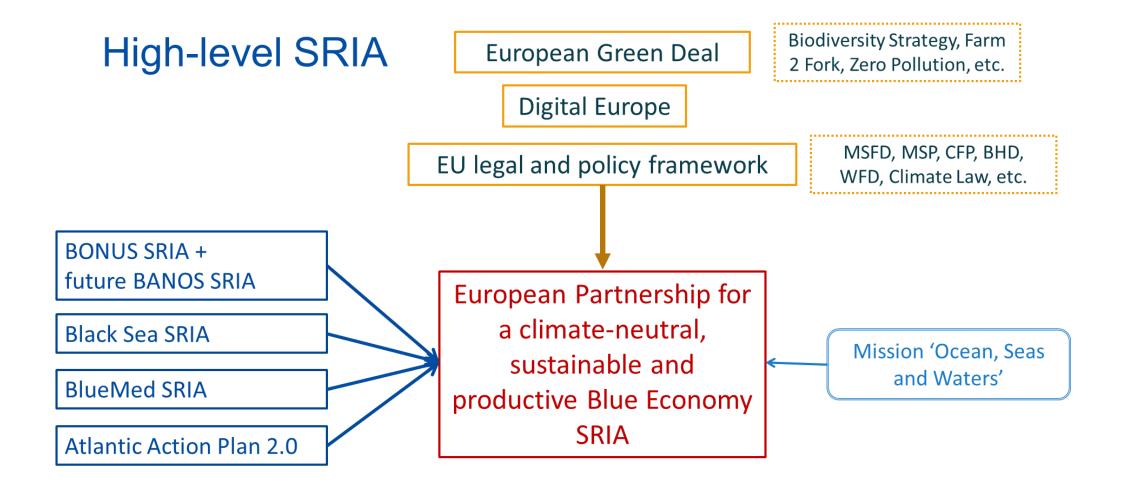
HORIZON EUROPE

European Partnership for a Climate Neutral, Sustainable and Productive Blue Economy





Sustainable Blue Economy Partnership



Sustainable Blue Economy Partnership

High-level SRIA

Rationale – SRIA thematic matrix structure – proposed pillars

| Pillar 1 | Pillar 2 | Pillar 3 | | |
|--|--------------------------------|------------------------------------|--|--|
| A blue economy in harmony with | Blue economy solutions towards | A thriving blue economy for the | | |
| nature | climate neutrality | people | | |
| Pillar 4 Integrated and responsive ocean governance | | | | |
| | | | | |
| KEY ENABLERS | | | | |
| Digitalisation | | | | |
| FAIR Data | | | | |
| Infrastructures | | | | |
| Ocean literacy | | | | |
| Social innovation | | | | |
| Sustainable finance | | | | |
| Human capacity | | | | |

Sustainable Blue Economy Partnership timeline



#HORIZONEU #EUMISSIONS

Get involved!





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MERCI EMMANUELLE!



