

EU MISSIONS

RESTORE OUR OCEAN & WATERS

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#EUmissions #HorizonEU #MissionOcean





What are EU Missions?

The European Commission launched **five new EU Missions in September 2021** – including the Mission "Restore our Ocean and Waters by 2030"

European Missions are **new broad mobilisation initiatives** to face the greatest challenges of our time

Rooted in the Horizon Europe research and innovation programme, **Missions go beyond R&I** and the existing instruments, cutting across policies, programmes and different levels of governance

They will develop and demonstrate innovative **technological, social, business and governance solutions,** and promote new forms of governance, allowing everyone to play an active role







Mission EU policy priority

"Every problem is an opportunity for innovation. But we need a clear and ambitious objective. We need a mission, like the European Green Deal.

That is why we have launched the 'Mission to Restore our Ocean and Waters by 2030'. With EUR 0.5 billion in funding from the world's largest research and development programme, Horizon Europe, and other instruments."

EC President Ursula von der Leyen, 11 Feb 2022 https://ec.europa.eu/commission/presscorner/detai l/en/SPEECH_22_962



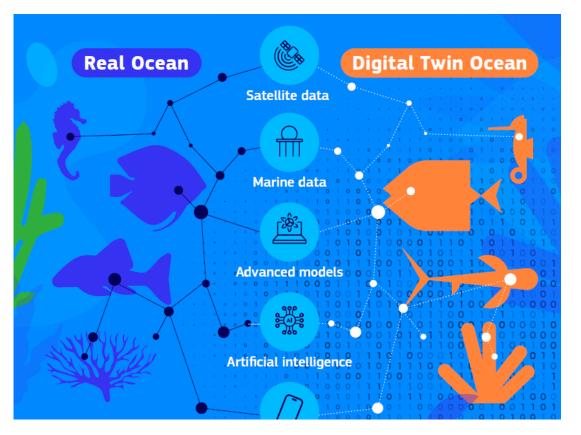






Enabler 1: Digital Ocean and Waters Knowledge System







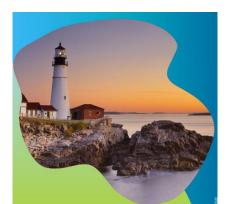


Co-creation and co-design



Mission lighthouses:

sites to pilot, demonstrate, develop and deploy the Mission activities across EU seas and river basins





The Baltic-North Sea lighthouse

Objective: making the blue economy carbon-neutral and circular

Targets:

- Eliminate greenhouse gas emissions from maritime economic activities in the EU and sequester those emissions that cannot be avoided (i.e. net zero maritime emissions).
- Develop zero-carbon and low-impact aquaculture, and promote circular, low-carbon multi-purpose use of marine and water space



The Danube lighthouse and the Atlantic-Arctic lighthosue

Objective: protecting and restoring marine and freshwater ecosystems and biodiversity

Targets:

- Protect a minimum of 30% of the EU's sea area and integrate ecological corridors, as part of a true TransEuropean Nature Network.
- Strictly protect at least 10% of the EU's sea area.
- Restore at least 25,000 km of freeflowing rivers.
- Contribute nature restoration targets, including degraded seabed habitats and coastal ecosystems

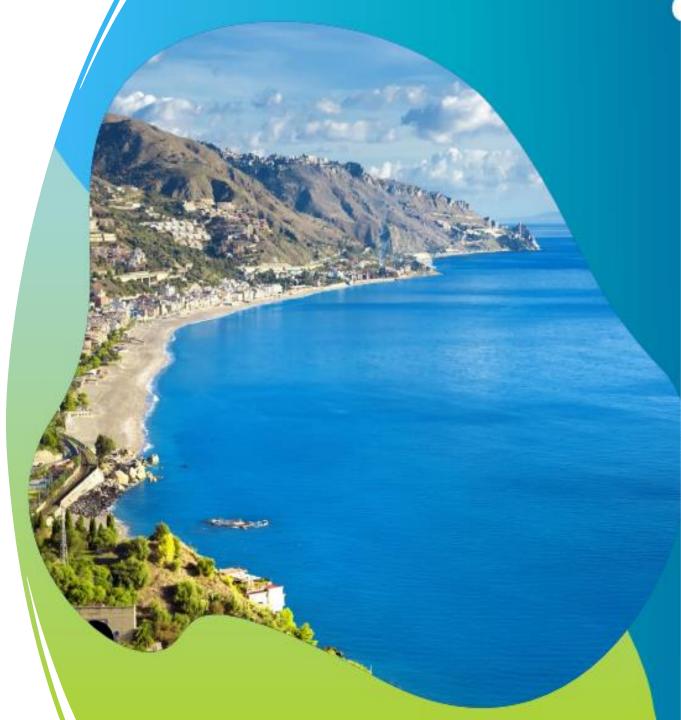


The Mediterranean lighthouse

<u>Objective</u>: preventing and eliminating pollution of our ocean, seas and waters

Targets:

- 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







Synergies – Teaming up beyond EC / HE level

Across different EU Programmes Horizon Europe, EMFAF, Life, Inter-Reg, InvestEU

With Member States and Regions National and regional programmes / initiatives, partnerships

With International partners / initiatives UN Decade Ocean Sciences, UfM, Alliances (e.g. AAORA)

With public & private sectors, and investors Universities, Joint Undertakings, EIB, EBRD, philanthropy

With citizens and youth Citizens initiatives, EU4Ocean, Youth ocean Ambassadors





A synergy info pack by CORDIS





Mission Charter Become part of the Mission community!







The Mission Charter is meant to **mobilise** all stakeholders to achieve the goals of the Mission, strengthening **cooperation**, aligning **efforts** and achieving **critical mass** for the transformational **change** needed to restore our oceans and waters by 2030.

The Charter for the Mission "Restore our Ocean and Waters by 2030" (europa.eu) EUSurvey - Survey (europa.eu)





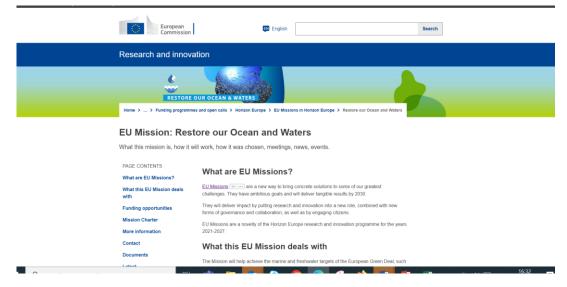
Why adhere to the Charter

- ✓ Send a clear signal on the importance to protect our ocean and waters
- ✓ Be involved in major Mission events increasing the visibility of your actions and become a Mission Actor
- Multiply your opportunities for networking and exchanges of experiences to improve knowledge and to disseminate
- Be part of a community of practice involving entire EU sea/river basins thus contributing to create impact and achieve the Mission goals
- ✓ Benefit from Mission services and tools to empower citizens and young people to take action, by engaging in ocean literacy and education
- ✓ Benefit from a dynamic investment ecosystem and advisory services





How to adhere to the Charter



Restore our Ocean and Waters (europa.eu)

Mission Charter

We are calling on Member States, regions and a wide range of stakeholders to endorse the <u>Charter</u> $\langle EN | \bullet \bullet \bullet \bullet \rangle$ and pledge actions that will contribute to the successful implementation of the Mission and its lighthouses.

Please click below to endorse the Charter and pledge actions

Endorse the Charter

Action pledges submitted so far: interactive map

More information

- mission-oriented policy for Horizon Europe (EN | •••
- Horizon Europe (EN | ••••)
- co-design session on oceans mission at Research and Innovation Days (video) [
- EU Missions info days 2022 (EN | ••••)

Contact

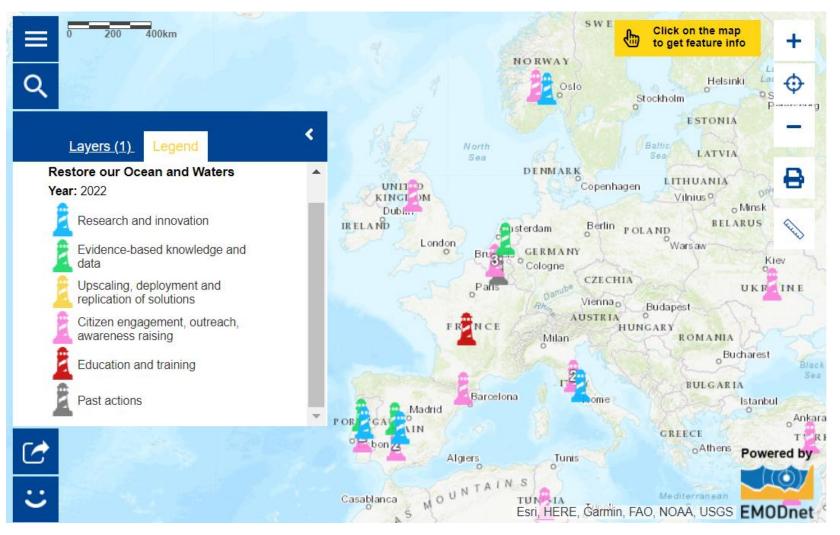
RTD-HORIZON-EUROPE-MISSION-OCEANS@ec.europa.eu

Adhere to the Charter by filling in the form on EUSurvey





Your action on Mission Atlas



Mission Actions - EU Mission Restore • X our Ocean and Waters (3 of 3)



Title of the action: Mission Ocean and waters work programme 2021, Horizon Europe Short description: The Mission Ocean and waters work programme includes calls for R&I proposals addressing the Mission objectives and enablers. Name of organisation: European Commission Budget: 114,3 Million Euro End date of action: 12/04/2022





Mission Charter Our offer





Your benefits as Mission Actor

- Visibility and promotion of your actions as a Mission Actor
- Opportunities for networking and sharing best practices



Access to literacy and education tools



Access to **Mission implementation Platform advisory services** (access to knowledge, projects portfolio, information on investment and funding opportunities)





Access to **support from Lighthouse CSA's / Facility** (to develop science and transition roadmaps, skills training)





Award services to communities of actors



Awards (through services) for blue champions

- ✓ **Support** to establish own **transition agendas** to achieve Mission's objectives
- ✓ Visibility via Mission lighthouse channels
- ✓ **Networking** (ecosystems enablers network, national/regional hubs, Stakeholders Forum)
- ✓ Organisation of events
- ✓ Access to advisory services





What has been implemented so far? EC actions in 2021-2022

1. HORIZON EUROPE

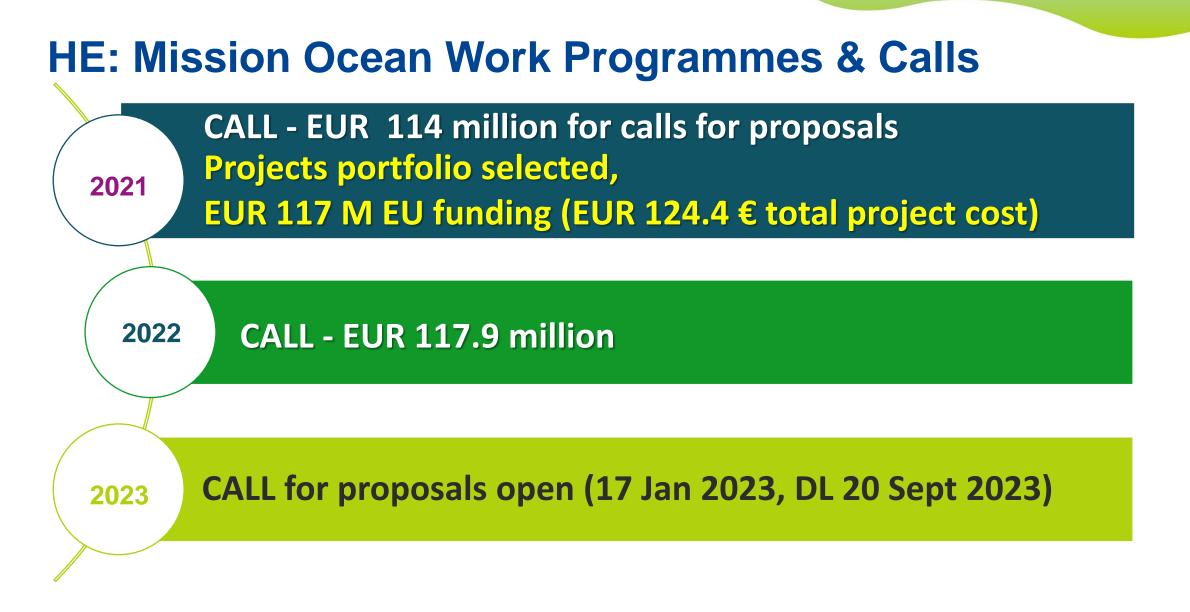
Work Programmes, Calls, Projects



Mission Ocean and Waters: ca 350 M€ for R&I projects in 2021-2023











HE: Mission Calls & Projects 2021-2022

Objective 1 PROTECT AND RESTORE

Marine and freshwaters

Blue Parks:

2 IAs: MPA management, degraded ecosystems

Danube lighthouse

- CSA

- IAs: restoration of river connectivity, wetlands

Atlantic & Arctic lighthouse:

- CSA

- 2 IAs : coastal restoration, climate resilience/adaptation of coastal areas (joint topic with Mission Climate) Objective 2 PREVENT AND ELIMINATE POLLUTION IN OCEAN AND WATERS

Mediterranean lighthouse

-CSA

2 IAs :

 prevention, reduction and elimination of plastic & litter, prevention;

- reduction and elimination of chemical pollution

Cross-basin topics:

- plastic free European rivers,
- low environmental impact fishing gear

Objective 3 MAKE THE BLUE ECONOMY CARBON-NEUTRAL AND CIRCULAR

Baltic & North Sea lighthouse

- CSA

2 IAs:

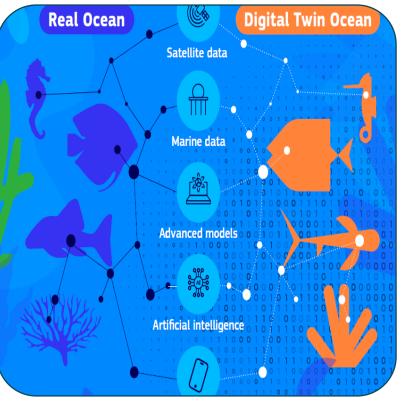
- sustainable aquaculture and multi-use of marine space

- bringing algae-based products on the market)





Delivering on ENABLER 1: DIGITAL OCEAN and WATERS KNOWLEDGE SYSTEM



Building the EU DTO: EUR 30 million investments in WP 2021-23

2021

- Underlying models for the European Digital Twin Ocean (IA, 7 M€)
- EU Public Infrastructure for the European Digital Twin Ocean (GIB, **3 M€**)

2022

- Integration of biodiversity monitoring data into the DTO (IA, **10 M€**)
- European DNA library of marine and freshwater species (CSA, 2 M€)

> A Blue Economy Observatory launched by JRC





Delivering on ENABLER 2: CITIZENS MOBILISATION AND ENGAGEMENT



2021: Relation of young generations with the sea and water: values, expectations, and engagement (RIA, **EUR 1 million**) + Piloting citizen science in marine and freshwater domains (CSA, **EUR 1 million**) + Europeanisation of Plastic Pirates Citizen Science Initiative (IBA, **EUR 2 million**)

2022: Student and school activities for the promotion of education on 'blue' sustainability and the protection of marine and freshwater ecosystems (CSA, **EUR 3 million**, grants to third parties) + Towards local community-driven business models: regenerative ocean farming (CSA, **EUR 3 M**/3 grants)

EUMISSIONS RESTORE OUR OCEAN & WATERS

2. Lighthouses

MOBILISATION OF MS/AC, REGIONS AND STAKEHOLDERS
Several MS and regions committed to the Mission
Participatory Workshops

- KICK-OFF EVENTS FOR EACH LIGHTHOUSE
 - Mediterranean, Marseille, June 2022
 - Atlantic-Arctic, Cork, Nov. 2022
 - Danube: R&I Days Sept 2022 & April 2023
 - Baltic & North Sea: April 2023

• LAUNCH OF COORDINATION AND SUPPORT ACTIONS

One for each lighthouse Sea / river basins

One overarching

For each event, the Mission is tailor-made for specific actors and communities (e.g. ports, regions) or sea / river basins







Key actors





3. Policy buy-in

- EC Proposal for a Nature Restoration Law, June 2022 (COM(2022)304)
- EC COM: Outermost Regions (COM(2022)198), new EU Arctic Policy (JOIN(2021) 27 Oct 2021), Sustainable Blue Economy (COM(2021)240), Zero Pollution Action Pan (COM(2021)400)
- CoR and EESC Opinions on the Missions, Feb Apr 2022
- UfM Ministerial Declaration, Conference for Research and Innovation, June 2022
- G7 Science Ministers Communiqué, June 2022
- EU commitments at UN Conference, June 2022
- All Atlantic Research and Innovation Alliance Declaration, July 2022

4. Further support & other Programmes



- Mission Implementation Platform Launched December 2022
- Studies (baseline for lighthouses, monitoring, modelling) - Published
- Synergies with other EU programmes →





EMFAF Programme





Synergies with other EU funds

Digital transition: DTO is supported by **Copernicus** Marine and **EMODnet**, the European Marine Research Infrastructures and is implemented in coordination with the Destination Earth initiative. Copernicus: in-kind contribution for Ocean and water monitoring, forecast, climate services, satellite observation. (EUR 2.43 billion 2021-2027, agreed in the Implementation Plan); EMODNet/EMFAF: contribution to Digital Twin Ocean – Mission knowledge system (EUR 50 million 2021-2027)





Synergies with other EU funds



BlueInvest: Innovation projects led by SMEs (start-up or scale-up) related to the Mission can benefit from Technical Assistance for Investment Readiness from the BlueInvest platform, and are eligible for funding under InvestEU (EUR **500 million** from InvestEU/EIB/EMFAF, which is expected to mobilise around 1 billion of additional private funding, under 'InvestEU Blue Economy')



Discussions with the **LIFE programme** have started on how LIFE projects will be linked to the Mission



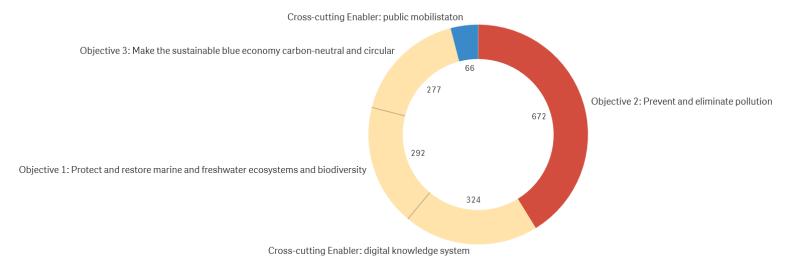
5. EU projects portfolio analysis

1400 EU PROJECTS ACROSS DIFFERENT **EU** PROGRAMMES CONTRIBUTE TO THIS **MISSION**

A portfolio of projects from the following EU programmes: FP7, H2020, LIFE, Interreg, CEF, EMFF

Available through the Mission Implementation Platform

Projects by thematic priority







Some Tips for Successful Horizon Mission Ocean Calls





Highlight Novelty & Impact

- Propose cutting-edge approaches to demonstrate innovation elements of your proposal
- Scalability and Replication in other regions and geographies
- Relevance to other EU Mission objectives (interdisciplinarity)
- Provide concrete examples, best practices, case studies of similar projects
- Focus on potential multiplier effects, i.e. fostering innovation, knowledge sharing and transfer, etc.





Interdisciplinarity in your Proposal



Interdisciplinarity through team members (including team members from the Humanities and Social Sciences)



Integration of knowledge from various fields to create a holistic, integrated and well-thought-out project proposal



A clear and coherent project narrative that incorporates and synthesizes a diversity of perspectives, views and insights





Map and Engage Your Stakeholders

- Your Stakeholders to be Mapped and Engaged
 - Public authorities and policy-makers
 - The private sector (businesses, investors, the industry).
 - Research entities and the academia
 - The Civil Society
- Ensure, diversity, equity inclusion (DEI) in representation
- Review your Stakeholder Mapping at intervals





Communication & Dissemination

- Effective communication strategies:
 - Raise awareness and understanding among key stakeholders and the general public, not only of the project, but of the Mission and the Mission Charter
 - Facilitate knowledge sharing, learning, capacity building in the blue economy across geographies
 - Enhance the visibility, credibility and reputation of the project





Budget Concerns

- All Missions are ambitious with many objectives and targets till 2030
- However, budgeting and resource allocation should be realistic with clear budget lines for activities and resources
- Potential risks, disruptions and uncertainties should be considered and a plan to overcome them should be in place





What can you do to help us achieve the Mission objectives?





Leading actions for the creation of lighthouse communities

YOU can contribute to enhance and upscale the creation of "**lighthouse communities**" across the four lighthouses by 2023 by becoming a **Mission actor.** Lighthouse communities are those who can deliver impact on the Mission objectives and targets.

For example: a group of ports, islands, regions, cities, fleets, industries, philanthropists and investors, universities and researchers, EU national research funding organisations, civic organisations, etc.





EXAMPLES of actions by PORTS to achieve the Mission objectives



Energy transition measures (renewable energies, waves/solar/winde)



Circularity and **pollution reduction** measures (sustainable waste management, storage and reuse of waste and discards, incl. from fisheries and algae)



Ecological transition measures: support blue reforestation in areas neighbouring ports (e.g. *Poseidonia Oceanica*)



Incentivise carbon neutral supply chain and carbon capture technologies, emissions reduction solutions (e.g. quays electrification)



Decarbonisation of ships and of port operations





EXAMPLES of actions by ISLANDS to achieve the Mission objectives



Accelerate **energy transition** and self-sustainability in the islands (renewable energy, solar, waves, wind, geothermal...)



Protect and regenerate sea areas / beds (blue reforestation, Poseidonia, Marine Protected Areas and Blue parks...)



Implement **circular economy** plans and fight pollution (recycling discards and waste, from fisheries, beached residues...)



Measures to boost **coastal resilience** (sea-level rise, extreme events) and **self-sustainability** (water, sustainable desalinisation..)





EXAMPLES of actions by REGIONS/CITIES to achieve the Mission objectives



Test and implement **nature-based solutions** to restore sea areas (blue reforestation) and boost coastal resilience



Depollute rivers and seas (collection, sorting, recycling of chemical/organic waste)



Enable **fishers** to collect plastic from the sea to be re-used for multiple purposes



Develop **digital knowledge system** to enable fish value chain data collection, storage and sharing with the fisheries community



Empower local community towards a sustainable responsibility





Thank you!

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