

Technical Assistance for Turkey in Horizon 2020 Phase-II EuropeAid/139098/IH/SER/TR

### INTERNATIONAL NETWORKING EVENT

### HORIZON EUROPE MISSIONS: RESTORE OUR OCEAN AND WATERS

### Christina Deligianni, EPLO Institute for Sustainable Development February 8, 2022









EUROPEAN Public Law Organization

# Institute for Sustainable Development







#### HORIZON EUROPE - EU MISSIONS

#### What are the European Missions?

- EU Missions are a new way to bring concrete solutions to some of our greatest challenges. They have ambitious goals and will deliver tangible results by 2030.
- They will deliver impact by putting research and innovation into a new role, combined with new forms of governance and collaboration, as well as by engaging citizens.
- EU Missions are a novelty of the Horizon Europe research and innovation programme
- Each mission will operate as a portfolio of actions such as research projects, policy measures or even legislative initiatives – to achieve a measurable goal that could not be achieved through individual actions













#### Launch of implementation of European Missions

- On **29 September 2021** the European Commission adopted a Communication on European Missions
- **5 European Missions** were launched, including the Mission 'Restore our Ocean and Waters by 2030'
- Each Mission has an **Implementation Plan** with specific timeframe and budget
- Missions bring **new forms of governance** for a systemic response to societal challenges





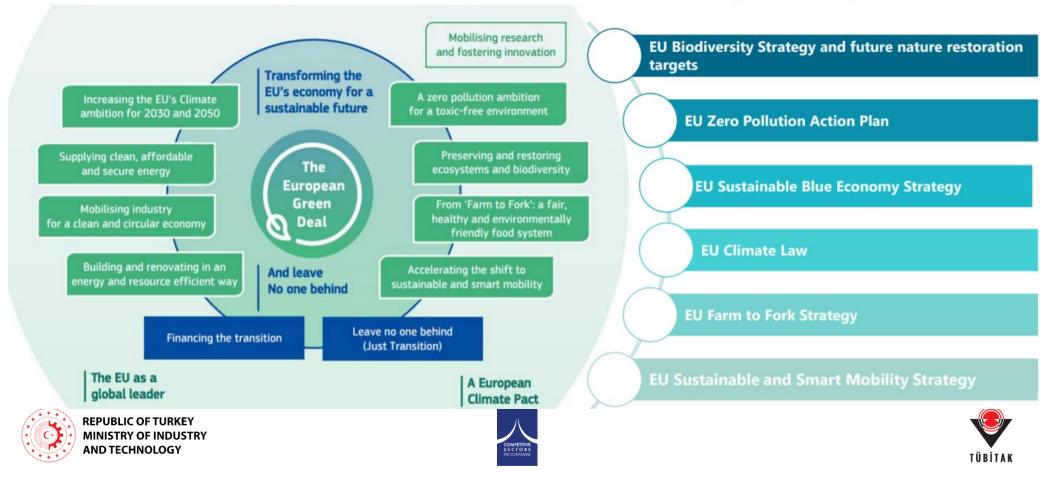


# Policy Perspectives





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







#### What is the European Union Green Deal?

The European Union's (EU) Green Deal is the EU's main new growth strategy to transition the EU economy to a sustainable economic model.

Presented in December 2019, the overarching objective of the EU Green Deal is for the EU to become the first climate neutral continent by 2050, resulting in a cleaner environment, more affordable energy, smarter transport, new jobs and an overall better quality of life.

There are a number of funding mechanisms in place to facilitate the EU Green Deal, totalling over €1 trillion. This investment will fund the delivery of the policy reform needed for the EU's economic growth and climate neutrality.













#### The importance of the Blue Economy in the European Union

The EU Blue Economy encompasses all industries and sectors related to oceans, seas and coasts, whether they are based directly in the marine environment (e.g. shipping, seafood, energy generation) or on land (e.g. ports, shipyards, coastal infrastructures).

The traditional sectors of blue economy provide 4.5 million direct jobs and generate over 650 billion euro in turnover.











#### Is there a European Union Green Deal without the Blue Economy?

As stated by the European Commission, "the European Green Deal and the Recovery Plan for Europe will define the European Economy for many years, or even decades. And the EU's Blue Economy is fundamental to both efforts".

Blue Economy is central to the European Green Deal and indispensable to meet the EU's environmental and climate objectives.

Green and Blue go hand in hand. Indeed, the ocean is the main climate regulator and provides us with oxygen, food, energy and many critical resources for our livelihoods and for biodiversity.





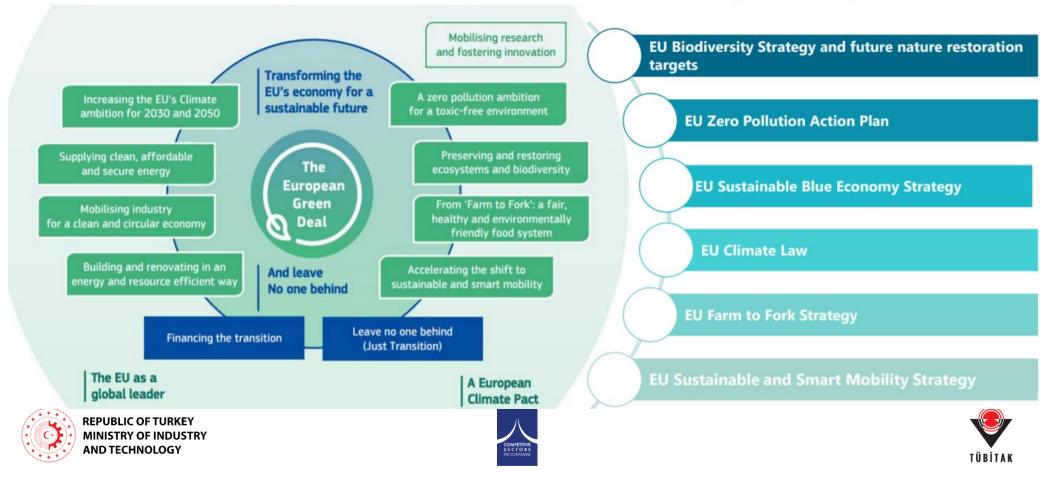








# The European Union can only fulfil its European Green Deal objectives with a healthy ocean. A healthy ocean is only possible with a healthy water system.







#### What is the EU Biodiversity Strategy for 2030?

- The European Commission has adopted the new EU Biodiversity Strategy for 2030 and an associated Action Plan
- A comprehensive, ambitious, long-term plan for protecting nature and reversing the degradation of ecosystems
- It aims to put Europe's biodiversity on a path to recovery by 2030 with benefits for people, the climate and the planet.
- It aims to build our societies' resilience to future threats such as climate change impacts, forest fires, food insecurity or disease outbreaks, including by protecting wildlife and fighting illegal wildlife trade.
- A core part of the European Green Deal, the Biodiversity Strategy will also support a green recovery following the COVID-19 pandemic.











#### **Mission opportunities**

- **Climate neutrality:** the ocean and waters are major carbon sinks and are essential for adaptation to climate change
- **Biodiversity:** the ocean and waters are home to a rich diversity of species
- Economic prosperity: the ocean is estimated to generate €2.5 trillion of goods and services per year by 2030











#### HORIZON EUROPE - Mission: Restore our Ocean and Waters by 2030 Will also contribute to the UN Decade of Ocean Science for Sustainable Development (2021-2030)

The United Nations has proclaimed a Decade of Ocean Science for Sustainable Development (2021-2030) to support efforts to reverse the cycle of decline in ocean health and gather ocean stakeholders worldwide behind a common framework that will ensure ocean science can fully support countries in creating improved conditions for sustainable development of the Ocean.

The marine realm is the largest component of the Earth's system that stabilizes climate and support life on Earth and human well-being. However, the First World Ocean Assessment released in 2016 found that much of the ocean is now seriously degraded, with changes and losses in the structure, function and benefits from marine systems.









#### **International Policy and Market Trends**

**Revive our Oceans by 2030** is also one of the Earthshots in the Earthshot Prize by the Royal Foundation of the Duke and Duchess of Cambridge







#### **CONNECTION TO THE UN SDGs:**

- SDG 14 Life below water
- SDG 6 Clean water and sanitation
- SDG 13 Climate action
- SDG 17 Forging partnerships











# Mission supports research and innovation in a system of European and national funding programmes sharing policy objectives.

- Fostering synergies between R&I funding instruments (European and national)
- Aligning R&I investments
- Ensuring access to excellence and translating research results for the benefit of the society and the economy

Applicants to calls should consider and actively seek complementarities with, and where appropriate possibilities for further funding from other R&I-relevant EU, national or regional programmes for a sustainable blue economy, notably <u>EMFF/EMFAF, LIFE, ERDF, ESF+, JTF, CEF Inland Waterways or Maritime and InvestEU, as well as private funds or financial instruments.</u>











#### **IMPLEMENTATION**

- In the first 'development and piloting' phase (2022-2024), research and innovation will lay the foundations for implementing the three Mission objectives and enabling actions, paving the way to further citizens participation and engagement. Research and innovation activities will support transformative and innovative solutions to be tested, piloted and validated. Enabling activities will generate new knowledge, observation and monitoring data
- 2025: Mid-term Review
- In the **'deployment and upscaling' phase (2026-2030),** the solutions will be further deployed, replicated and scaled up.













#### WP 2021 – Mission Ocean & Waters

#### HORIZON EUROPE FUNDING FOR OCEAN AND WATERS MISSION TILL 2023

Appr. 344 million euros

For the WP 2021 **114 million euros** 

Calls have officially opened on September 22, 2021

**DEADLINE for submission: April 12, 2022** 













#### WP 2021 – Mission Ocean & Waters

#### 3 calls addressing 3 policy objectives and specific expected impacts

- Protect and restore marine and freshwater ecosystems and biodiversity
- Prevent and eliminate pollution of our oceans, seas and waters
- Sustainable, carbon-neutral and circular Blue economy

**1 call** supporting enabling activities: digital knowledge system, public engagement, foresights and other studies

**Other actions:** Digital twin Ocean Infrastructure; Coordination activities - «lighthouses» implementation/coordination; technical assistance











## WP 2021 – Mission Ocean & Waters

Call – Protect and restore marine and fresh water ecosystems and biodiversity

Call – Prevent and eliminate pollution of our oceans, seas and waters

Call – Sustainable, carbon-neutral and circular blue economy

Call – Mission enabling activities: Digital knowledge system, public mobilisation and engagement, dynamic investment ecosystem









#### CALLS - Mission: Restore our Ocean, seas and waters by 2030



Call Identifier	Торіс
HORIZON-MISS-2021-OCEAN-02-01	European Blue Parks
HORIZON-MISS-2021-OCEAN-02-02	Danube river basin lighthouse – restoration of fresh and transitional water ecosystems
HORIZON-MISS-2021-OCEAN-02-03	Atlantic and Arctic basin lighthouse - restoration of marine and coastal ecosystems and increased climate resilience
HORIZON-MISS-2021-OCEAN-02-04	Danube river basin lighthouse – coordination activities
HORIZON-MISS-2021-OCEAN-02-05	Atlantic and Arctic basins lighthouse – coordination activities
HORIZON-MISS-2021-OCEAN-03-01	Mediterranean sea basin lighthouse - actions to prevent, minimise and remediate litter and plastic pollution
HORIZON-MISS-2021-OCEAN-03-02	Mediterranean sea basin lighthouse – coordination activities
HORIZON-MISS-2021-OCEAN-04-01	Lighthouse in the Baltic and the North Sea basins - Low impact marine aquaculture and multi-purpose use of marine space
HORIZON-MISS-2021-OCEAN-04-02	Baltic and North Sea basin lighthouse – coordination activities
HORIZON-MISS-2021-OCEAN-05-01	Underlying models for the European Digital Twin Ocean
HORIZON-MISS-2021-OCEAN-05-02	The relation of young generations with the sea and water: values, expectations, and engagement

HORIZON-MISS-2021-OCEAN-05-03

REPUBLIC OF TURKEY MINISTRY OF INDUSTRY AND TECHNOLOGY



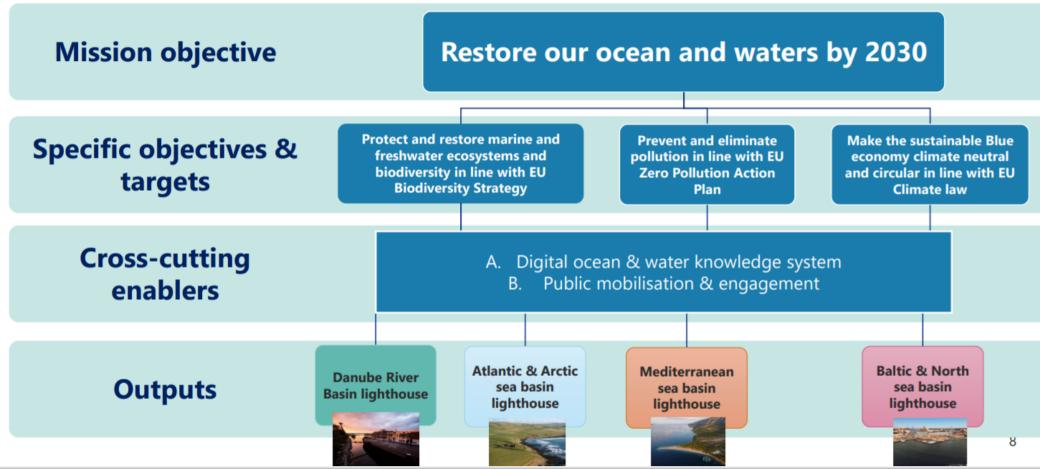
Piloting citizen science in marine and freshwater domains







### **Mission intervention logic**





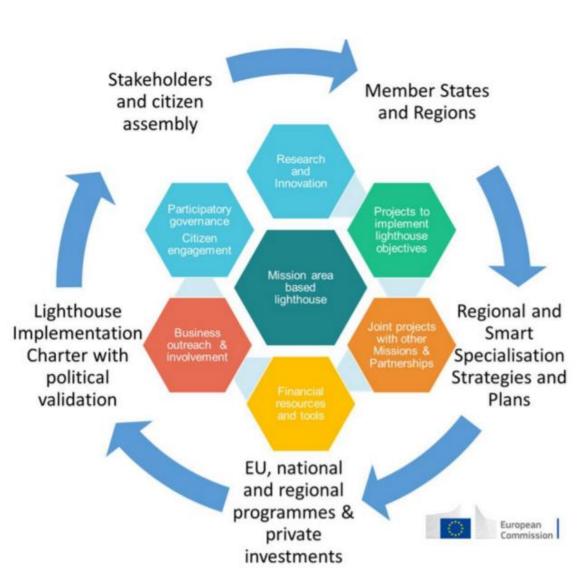


#### **MISSION Lighthouses**

- Danube river basin
- Mediterranean sea basin
- Atlantic & Arctic coast
- Baltic & North sea basin

Lighthouses => project portfolios for basins, not a demonstration project, but hubs for development and deployment of solutions, engaging citizens and stakeholders









HORIZON-MISS-2021-OCEAN-02-04 HORIZON-MISS-2021-OCEAN-02-05 HORIZON-MISS-2021-OCEAN-03-02 HORIZON-MISS-2021-OCEAN-04-02 Danube river basin lighthouse – coordination activities Atlantic & Arctic basins lighthouse – coordination activities Mediterranean sea basin lighthouse – coordination activities Baltic & North Sea basin lighthouse – coordination activities

#### AIM

- Support the roll-out & effective operation of Mission lighthouses in the different sea/river basins
- Basin scale governance support and coordination
- Dissemination of information about the Mission and outreach at basin scale



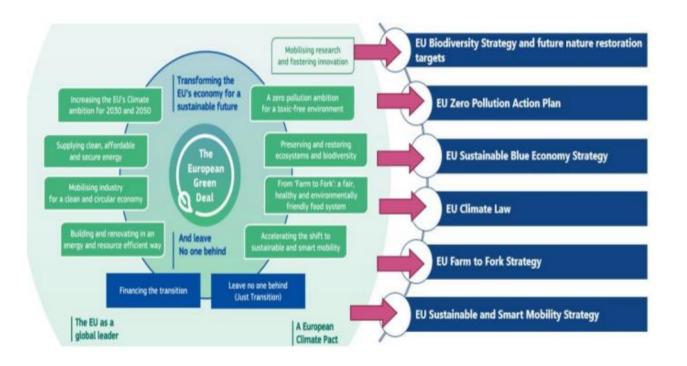








### **POLICY CONTEXT**















#### **EXPECTED OUTCOMES**

- Structuring effect to consolidate and engage a wide community of stakeholders across a river/sea basin
- Effective governance structure ensuring coherence and alignment of policies, initiatives and actions at EU, national and local/regional level
- Well-functioning basin scale innovation ecosystem attractive to investors and businesses
- Effective provision of technical services, governance and business models to guarantee a sustainable socio-economic development of each river/sea basin

#### SCOPE

- Provide support to implementation of Mission lighthouses in the following areas:
- Governance and networking support
- Communication support and services
- Monitoring and contribution to Mission implementation
- Develop basin scale innovation ecosystems
- Technical expertise and know how
- Outreach plan at basin level
- Bring together stakeholders at basin level, integrate various expertise to support the rolling out of Mission lighthouses











#### **INDICATIVE BUDGET per CSA**

Total: EUR 3 million per CSA Per project contribution: EUR 3 million Number of grants: 1 per CSA

#### IMPORTANT

Basin scale governance/support Monitoring & technical support Outreach plan, Communication Links with lighthouse IAs & Mission Implementation Platform









# Verimpact

Measure impact, drive change

verimpact.com





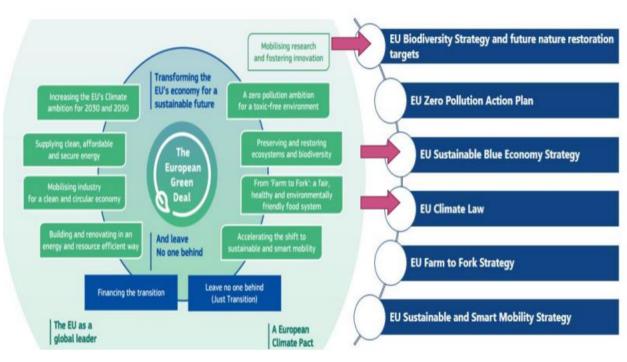
#### HORIZON-MISS-2021-OCEAN-02-01 European Blue Parks

#### AIM

• Contribute to achievement of Mission Ocean & Waters objective 1: Protection and restoration of marine ecosystems and biodiversity

• Develop and demonstrate innovative solutions for the protection, conservation and enhancement of the EU blue natural capital

### **POLICY CONTEXT**













#### HORIZON-MISS-2021-OCEAN-02-01 European Blue Parks

#### **EXPECTED OUTCOMES**

- Contribute to the achievement of the 30% target of EU marine protected areas
- Support a shift from «protected» to «strictly protected» areas to address the 10% target
- Enhanced integrity and resilience of marine ecosystems and creation of ecological corridors
- Enhanced sustainable use of marine resources
- Improved management of protected areas











#### HORIZON-MISS-2021-OCEAN-02-01 European Blue Parks

#### SCOPE

- Protection, conservation of marine ecosystems and enhancement of marine protected areas
- Focus on:
- Marine biodiversity hotspots and ecological corridors
- Activities showing potential to be scaled-up and reproduced
- Marine ecosystem services, including to mitigate/adapt to climate change
- Citizen engagement measures

#### INDICATIVE BUDGET

Total: 17 EUR million Per project contribution: EUR 8.5 million Number of grants: 2

#### IMPORTANT

Networking and joint activities with other projects (H2020; HE; LIFE, etc.) expected, such as joint publications, workshops, exchanges of best practices



REPUBLIC OF TURKEY MINISTRY OF INDUSTRY AND TECHNOLOGY









#### Danube river basin lighthouse – restoration of fresh and transitional water ecosystems

#### AIM

- Demonstrate on a large scale the implementation of Mission objective 1 for fresh waters/transitional waters, with a view to scale up
- Implement Mission lighthouse in the Danube river basin aimed at restoration and protection of freshwaters and transitional waters ecosystems and biodiversity











#### Danube river basin lighthouse – restoration of fresh and transitional water ecosystems

#### **EXPECTED OUTCOMES**

- Restoration of at least 25,000 km of free flowing rivers ٠
- Reduction of artificial river flow barriers/improved river ecosystem connectivity, ٠ enhanced water quality, management of riparian zones and optimised sediment flow to Black sea
- Increased populations of freshwater species ٠
- Increased protection of communities and ecosystems from extreme events ٠
- Increased local revenue from restored ecosystems ٠













#### Danube river basin lighthouse – restoration of fresh and transitional water ecosystems

#### SCOPE

• Show an effective and economically profitable way to freshwater ecosystem restoration and their sustainable use in the Danube river basin, including sustainable management of sediments and reduction of impact of river flow barriers

• Demonstration of active and passive restoration solutions, combining measures to increase ecosystem connectivity and ecological flow, improvement of protection of communities against floods using nature-based solutions, mitigation of the impact of droughts on freshwater ecosystems and biodiversity using nature-based solutions













#### Danube river basin lighthouse – restoration of fresh and transitional water ecosystems

#### **INDICATIVE BUDGET**

Total: EUR 17 million Per project contribution: EUR 8.5 million Number of grants: 2

#### IMPORTANT

Additional eligibility conditions apply Entails the possibility to give third party grants to associated regions Scale up emphasis/impact-driven Nature-based solutions Support local economy & social/ economic transitions













# HORIZON-MISS-2021-OCEAN-02-03 Atlantic and Arctic basin lighthouse - restoration of marine and coastal ecosystems and increased climate resilience

#### AIM

• Demonstrate on a large scale the implementation of Mission objective 1 for marine and coastal ecosystems, with the view to scale up

• Implement Mission lighthouse in the Atlantic and Arctic sea basin aimed at restoration and protection of coastal and marine ecosystems and biodiversity and on mitigation and adaptation to impacts of changing climate system













#### HORIZON-MISS-2021-OCEAN-02-03

# Atlantic and Arctic basin lighthouse - restoration of marine and coastal ecosystems and increased climate resilience

- Blueprints for making communities climate-proof & extreme weather resistant at basin scale
- Technological, logistical, social and economic innovations for restoration of marine, coastal and river ecosystems
- Contribute to better informed citizens and decision-makers, for better governance











# HORIZON-MISS-2021-OCEAN-02-03 Atlantic and Arctic basin lighthouse - restoration of marine and coastal ecosystems and increased climate resilience

#### AIM

• Demonstrate on a large scale the implementation of Mission objective 1 for marine and coastal ecosystems, with the view to scale up

• Implement Mission lighthouse in the Atlantic and Arctic sea basin aimed at restoration and protection of coastal and marine ecosystems and biodiversity and on mitigation and adaptation to impacts of changing climate system













#### HORIZON-MISS-2021-OCEAN-02-03

# Atlantic and Arctic basin lighthouse - restoration of marine and coastal ecosystems and increased climate resilience

#### SCOPE

• Demonstration of marine and coastal ecosystem restoration at a large scale through:

- Reduction of pressures
- Application of ecosystem-based management, nature-based and building with nature measures boosting climate change resilience
- Other locally adapted measures and combinations of above measures.
- Restoration using nature-based solutions boosting coastal resilience, such as oyster reefs, kelp forests, wetlands and salt marshes
- Explore different pressures and climate change adaptation needs in a systemic way.











#### HORIZON-MISS-2021-OCEAN-02-03

Atlantic and Arctic basin lighthouse - restoration of marine and coastal ecosystems and increased climate resilience

#### **INDICATIVE BUDGET**

Total: EUR 17 million Per project contribution: EUR 8.5 million Number of grants: 2

lumber of grants:

#### IMPORTANT

Additional eligibility conditions apply Third party grants/Associated regions Scale up emphasis/impact-driven Nature-based solutions JRC participation Climate change adaptation & mitigation Support local economy & social/ economic transitions











#### AIM

• Demonstrate on a large scale the implementation of Mission objective 2, with the view to scale up

• Contribute to the implementation of the Mission lighthouse in the Mediterranean sea basin aimed at prevention, minimisation and remediation of various forms of pollution, including plastic litter and microplastics













- Reduced pollution from litter, plastic and microplastic, in the Mediterranean sea basin
- Reduce beach litter to less than 20 items per 100 meters of coastline
- Accelerated uptake of innovative solutions to prevent and minimize litter, plastic and
- microplastic pollution
- Effective monitoring of marine litter quantities
- Support MSFD/WFD implementation
- Empowered citizens taking action against pollution













#### SCOPE

• Demonstration of scalable breakthrough innovations (technological, business, social and governance) to prevent and minimize marine and freshwater pollution from litter, plastics and microplastics

- Following the zero Pollution hierarchy, measures may include e.g.:
- Upstream litter prevention
- Substitutes and less polluting substances/materials
- Circular design of fishing gear
- Solutions for identifying, tracking and recovery of accidental container loss/fishing gear loss
- Collection, sorting, recycling and re-use of waste, waste water treatment and port reception facilities











#### **INDICATIVE BUDGET**

Total: EUR 16 million Per project contribution: EUR 8 million Number of grants: 2

#### IMPORTANT

Additional eligibility conditions apply Third party grants/Associated regions Scale up emphasis/impact-driven Support local economy & social/ economic transitions













# HORIZON-MISS-2021-OCEAN-04-01 Lighthouse in the Baltic and the North Sea basins - Low impact marine aquaculture and multi-purpose use of marine space

AIM

 Show the way to profitable and sustainable seafood farming away from the densely populated coasts, with focus on low trophic level species, no dependence on fossil fuels and sharing space with other offshore economic activities (in accordance with Mission objective 3 as regards low impact and sustainable marine aquaculture and multipurpose use of marine space)

• Implement Mission lighthouse in the Baltic and North sea basins in order to make the Blue economy sustainable, circular and carbon neutral











#### HORIZON-MISS-2021-OCEAN-04-01

Lighthouse in the Baltic and the North Sea basins - Low impact marine aquaculture and multi-purpose use of marine space

#### **POLICY CONTEXT**

- European Green Deal
- Farm to Fork Strategy for a fair
- EU Bioeconomy
- Sustainable Blue Economy Strategy
- Guidelines for sustainable and competitive EU aquaculture
- Marine Strategy Framework Directive
- Maritime Spatial Planning Directive

- Optimal and carbon neutral use of marine space
- Increase in sustainable & environmentally sound aquaculture production, in particular algae and low-trophic species
- Safety of farmed seafood and consumer trust
- Data-based systems for market wide monitoring
- More renewable energy along the aquaculture value chain
- Enhanced knowledge to minimise the carbon footprint and environmental impact of aquaculture
- Advance professional skills and competences of those working and being trained to work within the blue economy





#### HORIZON-MISS-2021-OCEAN-04-01

Lighthouse in the Baltic and the North Sea basins - Low impact marine aquaculture and multi-purpose

#### SCOPE

Test and demonstrate novel aquaculture

methods and techniques

• Provide options for creating artificial reefs in or near the wind energy and aquaculture

premises

• Work on approaches for efficient and costeffective monitoring of both the inputs and the outputs of the aquaculture industry

• Carry out demonstration activities in 3 different countries of the Baltic and North Sea

• Identify areas and locations where the solutions are replicable and draw up an action plan and roadmap to replicate and scale up the actions.

#### **INDICATIVE BUDGET**

Total: EUR 16 million Per project contribution: EUR 8 million Number of grants: 2

#### **IMPORTANT**

Case studies both in Baltic and the North Sea At least one case study on seaweeds and one on molluscs in wind farms Scale up emphasis/impact-driven Multi stakeholder engagement Additional eligibility conditions apply





#### HORIZON-MISS-2021-OCEAN-05-01 Underlying models for the European Digital Twin Ocean

#### AIM

- Prepare the next generation of EU digital ocean models (Twin Ocean) complementary to the Copernicus marine service.
- Integrated into the architecture of the European Digital Twin Ocean's public infrastructure (linked action), to ensure access to required input and validation data (e.g. from EMODnet, EuroGOOS etc.), high performance and distributed cloud computing facilities.
- Support the development of the Mission lighthouses and aligned with developments of Destination Earth under the Digital Europe programme.











# HORIZON-MISS-2021-OCEAN-05-01 Underlying models for the European Digital Twin Ocean

#### **EU Digital Twin Ocean Vision**

- To make ocean knowledge readily available to citizens, entrepreneurs, scientists and policy-makers
- To provide an innovative set of user-driven and interactive tools, fostered by digital transition,
- To empowering all to collectively share the responsibility of marine and coastal habitats and act on their restoration, to support a sustainable blue economy and to mitigate and adapt to climate change.











#### HORIZON-MISS-2021-OCEAN-05-01 Underlying models for the European Digital Twin Ocean EXPECTED OUTCOMES

- A suite of models, including at least a high-resolution global ocean circulation model and coastal models at the landsea interface ready for configuration and simulation;
- Interoperable standards and APIs so that the twin models can be interfaced with Copernicus models (coupling, forcing,
- boundary conditions, ...) or external models (hybrid twins) and run in conjunction;
- Enhanced on-demand ocean forecasting and ocean climate prediction capacities;
- Scientific toolboxes to be used in a (co-)working virtual environment;

- Improved capability to support EU legislation on the marine environment;
- Capacity to support the three priorities of the Mission (biodiversity, zero pollution, zero carbon) and supporting the lighthouses;
- A sustainable and integrated set of models and services that contribute to and benefit from developments in the Digital Europe Programme, contributing to Destination Earth;
- Significant contribution to the UN Decade of Ocean Science for Sustainable Development.





#### HORIZON-MISS-2021-OCEAN-05-01 Underlying models for the European Digital Twin Ocean

#### SCOPE

1. Ocean twin: reference models suite for the European DTO including: a global HR
model with data assimilation schemes;
configurable coastal models of the local
scale. Ensure that models can be coupled
with biogeochemistry, marine ecosystem
models and other integrated models etc.
2. Developer's toolkit: scientific software
library; virtual development environment;
tools to retrieve data and products to
produce indicators.

• 3. Use: demonstrate and validate what-if scenario in line with Mission priorities and complexity of lighthouses.

#### **INDICATIVE BUDGET**

Total: EUR 7 million

Per project contribution: EUR 7 million

#### **IMPORTANT**

Additional eligibility conditions apply

JRC participation

Use of Copernicus and/or Galileo/EGNOS

4 linked actions to the Grant

Proposal should favour access to public-oriented models and algorithms free of licensing restrictions





#### HORIZON-MISS-2021-OCEAN-05-02

#### The relation of young generations with the sea and water: values, expectations, and engagement

#### AIM

- Provide insights on the relation of young generations with the sea and waters
- Contribute to shape transformative marine/maritime policies, steer future initiatives and addressed expectations of young generations

- New evidence for future policies, strategies and initiatives
- Contribute to Year of Youth, UN Decade of Ocean Science













#### HORIZON-MISS-2021-OCEAN-05-02

#### The relation of young generations with the sea and water: values, expectations, and

engagement

#### SCOPE

• Foresight study on cultural and emotional relations of young generations with the sea and freshwaters

• Focus on:

• Emerging socio-economic, cultural and emotional values, needs and expectations of next generations

• Implications for future strategies, policies and initiatives

• Gender and geographical issues, socioeconomic differences and inequalities expected to be considered

#### **INDICATIVE BUDGET**

Total: 1 EUR million Per project contribution: EUR 1 million Number of grants: 1





#### HORIZON-MISS-2021-OCEAN-05-03 Piloting citizen science in marine and freshwater domains

AIM

- Implementation of Mission enabler 2: public mobilisation and engagement
- Promotion and scale up of citizen science actions, in particular with an involvement of young people













#### HORIZON-MISS-2021-OCEAN-05-03 Piloting citizen science in marine and freshwater domains

- Upscaling and continuation of citizen science initiatives targeting in particular young ٠ people in MS/AC
- Increased citizen awareness about challenges to ocean and waters ٠
- Mobilised and empowered citizens to take action ٠
- Promoted digital applications and testing kits for citizens ٠
- Promoted data collection and participatory research involving citizens ٠
- Standardized protocols and testing procedures for citizen reporting ٠













#### HORIZON-MISS-2021-OCEAN-05-03 Piloting citizen science in marine and freshwater domains

#### SCOPE

- Identify and pilot best practices in citizen science and help upscaling them across MS/AC, develop standardised protocols and testing procedures for citizen reporting and programmes to demonstrate their application
- Connect citizens and local communities with ocean, sea and waters, create strong emotional connection between society and aquatic ecosystems
- Empower citizens, in particular young people to take action, promote citizen stewardship of water and social innovation
- Education and training activities & citizens science campaigns, draw on art, media and culture

#### **INDICATIVE BUDGET**

Total: EUR 1 million Per project contribution: EUR 1 million Number of grants: 1

#### **IMPORTANT**

Youth empowerment Links with DTO/ Emodnet Links with European Solidarity Corps Social innovation





# www.blueeconomy.gr

# The Green-Blue Recovery and the UN Ocean Decade February 22, 2022



Endorsed by the UNESCO Ocean Decade



2021 United Nations Decade of Ocean Science for Sustainable Development DELPHI ECONOMIC FURUM



Organizers

Institute for Sustainable Development



Q&A Time to ask your questions!









# Teşekkür ederim!

# Thank you!



