

**LIST OF PROJECTS - EU MISSION 'Restore our Ocean and Waters by 2030' - CALL FOR PROPOSALS 2021**

Project Acronym and link to Cordis database	Project Title	Project summary	EU contribution (million €)	Start date	End date	Coordinating beneficiary	Countries of the participants involved in the projects
<b>Projects to protect and restore our ocean and waters</b>							
<a href="#">BLUE4ALL</a>	Blueprint demonstration for co-created effective, efficient and resilient networks of MPAs	BLUE4all aims to achieve effective, efficient and resilient management of Marine Protected Areas (MPAs) and networks of MPAs. It will mobilise stakeholders from BLUE4ALL's 25 information sites and Living Labs to draw up lessons learned relative to how challenges were tackled in existing MAPs across the Mediterranean Sea, the Baltic Sea and the North-East Atlantic regions. The objective is to build robust and replicable social, governance, ecological and environmental tools that will be generalised into a Blueprint Platform for the co-creation of effective, efficient and resilient (networks of) MPAs. In addition, knowledge transfer and interaction with stakeholders and society-at-large at local to regional scales will lead to the development of a platform for MPA networking to interact with communities of practice boosting the BLUE4ALL legacy to its ultimate goal to restore our oceans and waters.	8,4	01-01-23	31-12-26	INSTITUT ROYAL DES SCIENCES NATURELLES DE BELGIQUE (BE)	Belgium, Italy, Germany, Denmark, Finland, Ireland, Estonia, Croatia, Finland, The Netherlands, France, Sweden, Switzerland
<a href="#">OCEAN CITIZEN</a>	Marine forest coastal restoration: an underwater gardening socio-ecological plan	OCEAN CITIZEN represents a novel restoration approach based on strong ecological and societal interconnections. It comes from the idea that an advanced restoration programme needs to conjoin ecological perspectives together with societal commitment and clear economic benefits for local communities. Restoration is experienced in 3 sites, representing different marine ecosystems and different environments (subtropical, tropical and cold temperate). The project targets the restoration of the most neglected marine biome, encompassing the various types of marine forest organisms (seagrasses, seaweeds, sponges, corals, gorgonians, etc.). The full involvement of citizens and local stakeholders with a complete business plan is also at the core of the project. Overall, the programme paves the way to the new profession of "gardeners of the sea", applying eco-engineering approaches to fisheries and aquaculture while enhancing carbon sequestration of marine habitats.	10,6	01-01-23	31-12-26	Universita' del Salento (IT)	Denmark, France, Germany, Ireland, Italy, Israel, Norway, Spain, United Kingdom
<a href="#">DANUBE4all</a>	RESTORATION OF THE DANUBE RIVER BASIN WATERS FOR ECOSYSTEMS AND PEOPLE FROM MOUNTAINS TO COAST	The overall aim of DANUBE4all is the development of a comprehensive Restoration Action Plan for the Danube river basin lighthouse developed in an unprecedented co-creation process with stakeholders, integrating citizens' interests to support the Mission "Restore our ocean and waters by 2030". Based on solid scientific knowledge and new findings, the Action Plan will promote the improvement of ecological status, biodiversity and ecosystem connectivity. The project will test and demonstrate nature-based solutions to enhance the free-flowing status of rivers and floodplains, to reduce flood and drought risks and support the continuity of habitats. DANUBE4all will implement innovative demonstration activities at three sites in the Upper, Middle Danube and the Danube Delta.	8,5	01-01-23	31-12-27	UNIVERSITAET FUER BODENKULTUR WIEN (AT)	Austria, Bulgaria, Croatia, Germany, Hungary, Ireland, Italy, The Netherlands, Romania, Serbia, Slovakia, Slovenia, Ukraine, United Kingdom
<a href="#">DALIA</a>	Danube Region Water Lighthouse Action	DALIA (Danube Region Water Lighthouse Action) is comprised of 22 expert organisations – including universities, authorities, SMEs and NGOs – from 8 different Danube EU and Associated countries accumulating an outstanding set of knowledge, covering not only the basin geographically but all different fields of expertise necessary to deal with the multidisciplinary issues from source to sea. It will deliver a tool to support decision-making for freshwater ecosystem protection and ecosystem connectivity, and improve the protection of local communities and ecosystems from extreme events and pollution threats, in line with the implementation of the Water Framework Directive.	8,5	01-01-23	31-12-26	ORSZAGOS VIZUGYI FOIGAZGATOSAG (HU)	Bulgaria, Czechia, Germany, Hungary, Ireland, Romania, Serbia, Slovakia, Switzerland
<a href="#">CLIMAREST</a>	Coastal Climate Resilience and Marine Restoration Tools for the Arctic Atlantic basin	The CLIMAREST project - Coastal Climate Resilience and Marine Restoration Tools for the Arctic Atlantic basin - integrates multiple expertise into a holistic approach, to develop a toolbox designed to establish guidelines for ecosystem restoration and to enhance climate resilience in coastal communities. The concept is to develop, test and optimise a modular toolbox that integrates expert knowledge, scientific information, multilevel stakeholder and community involvement, ecosystem service improvement analysis, cost-benefit analysis, priority of actions, and custom designed protocols for restoring and monitoring multiple coastal habitats. The toolbox framework will have common and specific tools that will be tested, optimised and demonstrated in five different ecosystems, across a latitudinal gradient of the Arctic-Atlantic basin, ranging from the high-Arctic Svalbard (79° N) in the North to the Madeira archipelago (33° N) in the South.	8,5	01-12-22	30-11-25	SINTEF (NO)	Belgium, Denmark, France, Ireland, Italy, Norway, Portugal, Spain
<a href="#">A-Agora</a>	Blueprint for Atlantic-Arctic Agora on cross-sectoral cooperation for restoration of marine and coastal ecosystems and increased climate resilience through transformative innovation	A-Agora focuses on nature-based solutions to boost resilience to climate change and mitigate its impacts in coastal areas. Coastal communities particularly vulnerable to the risks of sea level rise are primarily targeted for marine ecosystem restoration as they urgently need to adapt to ensure their population and infrastructure are safe, climate-proof and weather-resilient. The project will develop nature-based solutions at three replicable demonstrators (Demo-PT in Portugal, Demo-IE in Ireland, Demo-NO in Norway), which can also be upscaled. The project seeks improved public engagement and enhanced decision-making processes and will foster synergies between researchers and users, decision-makers and local communities, industry and SMEs. The ultimate goal of A-Agora is to demonstrate that restoration of aquatic ecosystems is possible at a large scale through reduction of pressures, evidence-based management, and effective nature-based solutions including blue reforestation to boost coastal resilience to climate change impacts.	8,4	01-12-22	31-05-26	Universidade de Aveiro (PT)	Belgium, Finland, France, Germany, Ireland, Norway, Portugal, Romania, United Kingdom
<b>Projects to fight pollution</b>							
<a href="#">REMEDIES</a>	Co-creating strong uptake of REMEDIES for the future of our oceans through deploying plastic litter valorisation and prevention pathways	The project is built around the three main pillars of monitoring plastic litter, its collection and valorisation, as well as the prevention of the distribution of non-degradable plastics. One of the core element of the project is the participation of citizens affected by plastic pollution directly on the shorelines. Four breakthrough innovations will be employed per pillar (monitoring, collection, prevention). Solutions will then be tested in 8 demonstration sites in 8 Mediterranean countries with the aim to scale them up in 33 more sites and possibly launched across the whole Mediterranean. In parallel open calls to third parties will be launched to attract more solutions for implementation following our same methodology. All-in-all, the goal is to map out 170 km2 for plastic litter, reach circa 100,000 citizens, collect around 400 tons of plastic waste, and build up plastic prevention pathways through scaling and replication for an equivalent of 3,700 tons of plastic.	8	15-12-22	14-12-26	KEMIJSKI INSTITUT (SI)	Albania, Belgium, Croatia, France, Germany, Greece, Ireland, Italy, Morocco, Serbia, Slovenia, Spain
<a href="#">SeaClear2.0</a>	Scalable Full-cycle Marine Litter Remediation in the Mediterranean:	SeaClear2.0 will develop a holistic approach to address the full cycle of marine litter. The project aims to prevent and reduce marine litter pollution, particularly plastics and microplastics, in the Mediterranean. This will be achieved via community activation and citizen empowerment, scaling up the project's innovative teams of autonomous, intelligent robots for effective monitoring and collection of marine seafloor and surface litter, and the valorisation of the collected litter. The project also aims to Good Environmental Status by providing evidence for new legislation and the implementation of existing rules. SeaClear2.0 impact ranges from the reduction of upstream and beach litter via public awareness and citizen activation; through effective litter monitoring using both robotic mapping and public reporting in a gamified app; to direct collection of at least 57% of existing litter in the areas covered by the robot teams.	8	01-01-23	31-12-26	TECHNISCHE UNIVERSITEIT DELFT (NL)	Croatia, Cyprus, France, Germany, Israel, Italy, The Netherlands, Romania, Spain

Projects to support a sustainable blue economy							
<a href="#">OLAMUR</a>	Offshore Low-trophic Aquaculture in Multi-Use Scenario Realisation	The main objective of OLAMUR is to bring together multi-use low-trophic aquaculture (MU-LTA) related key sectors, to demonstrate sustainable commercial solutions for both the North and the Baltic Sea. OLAMUR will establish three pilot demonstration sites where seaweed and blue mussels will be grown within windfarms or in the vicinity of a trout farm. The wind farm pilot sites are located in the German exclusive economic zone (EEZ) of the North Sea north of Helgoland, in the Danish EEZ of the Baltic Sea at Kriegers Flak and the third pilot demonstration site will be next to a trout farm in the Estonian Sea near the Port of Veere. All data, information, products and standards for establishing, operating and evaluating will be monitored, simulated, stored and customised as an "OLAMUR digital MU-LTA farm service". This will provide a solid basis for MU-LTA upscaling.	8,2	01-01-23	31-12-26	HAVFORSKNINGSINSTITUTT ET (NO)	Belgium, Denmark, Estonia, Germany, Italy, Lithuania, Norway, Sweden
<a href="#">ULTFARMS</a>	circUlar Low Trophic offshore Aquaculture in wind farms and Restoration of Marine Space	ULTFARMS aims to move beyond the current application of Low-Trophic Aquaculture (LTA) systems with novel engineering, technical, ecological and biological processes to optimise production in harsh offshore conditions, low-salinities, and their integration within Offshore Wind Farms (OWFs). Co-development and co-management by research and industry realises novel designs and operations unique to offshore in six Low-Trophic Aquaculture Pilots (LTAPs) in as many OWF locations across the North and Baltic Seas. New cultivation structures, grow-out systems, and both nature restoration and eco-friendly design measures are advanced through the proposed work. ULTFARMS will offer services to aquaculture producers for monitoring and minimizing diseases and alien species, managing inputs, optimising sustainable production and demand management including risk analysis. Furthermore, through the inclusion of 5 Associate Regions (ARs) throughout the lifetime of the project, lessons learnt and innovations developed will be shared through comprehensive communication and dissemination activities.	9,6	01-01-23	30-06-26	STICHTING DELTARES (NL)	Belgium, Denmark, Faroe Islands, Germany, Ireland, The Netherlands, Portugal, Spain, Sweden
Projects to develop the European Digital Twin Ocean							
<a href="#">EDITO-Model Lab</a>	Underlying models for the European Digital Twin Ocean - EDITO-Model Lab	EDITO-Model Lab will prepare the next generation of ocean models, complementary to Copernicus Marine Service to be integrated into the EU public infrastructure of the European Digital Twin Ocean (EDITO) that will ensure access to required input and validation data, and to high-performance and distributed computing facilities. It will be consolidated under developments of Destination Earth (DestinE). As an interactive and user driven initiative, EDITO-Model Lab will deliver a Virtual Ocean Model Lab through a core model suite including global high-resolution models and coastal configurations, downstream user toolkits and a developer's toolkit for a sustainable ocean.	7	01-01-23	31-12-25	MERCATOR OCEAN (FR)	Denmark, France, Germany, Italy, The Netherlands, Norway, Portugal, Spain, United Kingdom
<a href="#">EDITO-Infra</a>	EU Public Infrastructure for the European Digital Twin Ocean	EDITO-Infra aims to build the EU Public Infrastructure backbone for the first European DTO by upgrading, combining and integrating key service components the Copernicus Marine Service (CMS) and the European Marine Observation and Data Network (EMODnet) into a single digital framework that can be scaled up to an overarching knowledge system integrated with the DestinE initiative. It will provide the foundation for the development of the EU DTO initiative, hosting the deployment of future DTO projects (like ILIAD), of new generation of Ocean models and of the Mission lighthouses projects. EDITO-Infra will provide public access and use to the widest possible range of open ocean observation datasets, data products, hosting for new sources of data, modelling capacities on Cloud, GPU or HPC, and a co-working environment.	3	01-10-22	30-09-24	MERCATOR OCEAN (FR)	Belgium
Projects to involve citizens, key allies of the Mission							
<a href="#">FLOW</a>	Future Lives with Oceans and Waters	FLOW aims to provide insights to support future policy via young generations involvement. The project's innovative design brings together diverse young people from all across Europe with an excellent, interdisciplinary research team, and enables their co-ownership, co-implementation and co-responsibility in actions to restore our ocean and waters. The research is built along a chain of direct cooperation with young people via the FLOW Youth advisory board, the European network of youth-focused NGOs, experiential futures workshops with young people from seven regions across Europe and youth-stakeholder. The project will bring together policy-makers, researchers and other relevant stakeholders together, with the youth, and engaging them in cocreation.	1	01-01-23	31-12-24	Radboud University (NL)	Belgium, Germany, Norway,
<a href="#">OTTERS</a>	Social Transformation for Water Stewardship through Scaling Up Citizen Science	OTTERS aims to promote and scale up successful citizen science initiatives in the marine and freshwater domains. The project aims to achieve this goal through the acceleration of the co-creation of standards in data collection, semantics, data quality, and data management making sure to abide by all ethical and legal standards, as well as promoting and scaling up successful water-related citizen science initiatives by clustering them under co-designed Spring-to-Sea campaigns to foster agency and increase ocean literacy. Citizen-generated data will be connected to other EU-funded projects and portals, including the European Marine Observation and Data Network (EMODnet) and Digital Twins of the Ocean (ILIAD).	0,9	01-01-23	30-06-25	AMERICAN UNIVERSITY OF ARMENIA FOUNDATION (AM)	Germany, Greece, Israel, Italy, The Netherlands, Portugal, Ukraine, United Kingdom
<a href="#">PlasticPiratesEU</a>	UPSCALING THE PLASTIC PIRATES CITIZEN SCIENCE INITIATIVE	PlasticPiratesEU aims to will upscale the successful citizen science initiative "Plastic Pirates – Go Europe!" to interested EU Member States and Horizon Europe Associated Countries. In doing so, the action aims to raise awareness among citizens and, in particular, young citizens, in larger parts of Europe on the impact and benefits that research and innovation can have on their daily lives, to increase the capacity to collect, organise and verify data on plastic waste pollution stemming from and in European rivers, coastlines and seas, and to test, replicate and refine best practice models for linking excellent science and citizen engagement in order to reach the Mission Ocean's objective of restoring our ocean, seas and waters while supporting the monitoring of EU policy objectives.	1,9	01-06-22	30-11-24	DEUTSCHES ZENTRUM FÜR LUFT - UND RAUMFAHRT EV (DE)	Germany
Coordination support action for each of the lighthouses of the Mission							
<a href="#">EcoDaLi</a>	ECOsysteM-based governance with DANube lighthouse Living Lab for sustainable Innovation processes	EcoDaLi is the coordination hub that will support the implementation of the EU Mission Restore our Ocean and Waters by 2030 in the Danube. The main objective of EcoDaLi is to centralise Danube governance structures in terms of innovative solutions for improved ecological restoration, protection and preservation of the Danube basin and its Delta by fostering a stronger innovation ecosystem within a well-connected Practices Living Lab System, supported by a digital Portal, completely linked to the Mission Implementation Platform.	2,7	01-01-23	30-06-26	STEINBEIS 2I GMBH (DE)	Austria, Bulgaria, Croatia, France, Georgia, Germany, Greece, Hungary, Romania, Serbia, United Kingdom
<a href="#">BlueMissionAA</a>	Building a coordination hub to support the Mission implementation in the Atlantic and Arctic basin	BlueMissionAA is the coordination hub that will support the implementation of the EU Mission Restore our Ocean and Waters by 2030 in the Atlantic and Arctic basins. It will focus on restoration of marine and coastal ecosystems and increased climate resilience. BlueMission AA will have a structuring effect to consolidate and mobilise a wide community of relevant stakeholders and EU citizens towards the achievement of Mission objectives at basin level.	3	01-11-22	31-10-25	ASSOCIACAO PARA O DESENVOLVIMENTO DO ATLANTIC INTERNATIONAL RESEARCH CENTRE (PT)	Denmark, France, Germany, Ireland, Italy, Norway, Portugal, Spain
<a href="#">BlueMissionMed</a>	Lighthouse coordinating and supporting the innovation ecosystem for a Healthy, Pollution free Mediterranean Sea	BlueMissionMed is the coordination hub that will support the implementation of the EU Mission Restore our Ocean and Waters by 2030 in the Mediterranean. The objective is to deploy transformative innovative technological, social, business and governance solutions for ensuring a 30-50% reduction of pollution of the basin hydrosphere by 2030. It will be an interactive multi-actors digital platform able to offer to all Mediterranean Countries/Regions and stakeholders to access the necessary knowledge and tools. The goal is to ultimately promote basin-wide cooperation, commitment and deployment of solutions addressing the Mission objectives.	3	01-01-23	31-12-25	Consiglio Nazionale delle Ricerche (IT)	France, Greece, Italy, Malta, Spain, Tunisia, Türkiye

<a href="#">BlueMissionBAN OS</a>	BlueMissionBANOS – supporting the Mission Ocean Lighthouse in the Baltic and North Sea basins	BlueMissionBANOS is the coordination hub that will support the implementation of the EU Mission Restore our Ocean and Waters by 2030 in the Baltic and North Sea basins. It has the ambition to act as an efficient facilitator and knowledge broker as to inspire, engage, and support stakeholders from politics, industry, science and the public. It aims to accelerate the deployment of solutions through five innovation and demonstration cycles as well as develop a consistent monitoring framework to assess Mission performance.	3	01-12-22	30-11-25	Alberto Terenzi SUBMARINER Network for Blue Growth EEIG	Belgium, Denmark, Estonia, France, Finland, Germany, Latvia, The Netherlands, Norway, Poland, Sweden
<b>Coordination support action for the Mission in general</b>							
<a href="#">PREP4BLUE</a>	Preparing the Research & Innovation Core for Mission Ocean, Seas & Waters	PREP4BLUE's overarching objective is to facilitate a successful first phase (2022-2025) of the Mission, by developing the co-creation and co-implementation R&I modalities required to achieve the Mission objectives and preparing the ground for inspiring and engaging citizens and stakeholders. The project is designed to deliver a series of tools, guidelines, methodologies and recommendations tested through pilots, which will interlink, leverage and optimise activities among the projects funded under the Mission. The project will contribute to preparedness and engagement of all relevant stakeholders to empower them to play an active role in the Mission.	5	01-06-22	31-05-25	INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER (FR)	Belgium, Denmark, France, Germany, Ireland, Italy, Norway, Spain