

LIST OF PROJECTS contributing to EU Mission 'Restore our Ocean and Waters by 2030' CALLS FOR PROPOSALS 2023

Project Acronym Link to project information	Project Title	Project summary	EU contribution (million EUR)	EU contribution (detailed amount)	Coordinating beneficiary	Countries of the participants involved in the projects
European Blue Parks – Protection and restoration of marine habitats (call HORIZON-MISS-2023-OCEAN-01-01)						
BLUE CONNECT	Strict protection, restoration and co-management of Marine Protected Areas to ensure effective ecosystem conservation and improved connectivity of Blue Corridors	The BLUE CONNECT project aims to protect and restore marine habitats and ecosystems, working towards EU and global protection targets by 2030. By collaborating with stakeholders across 12 demonstration sites, the project aims to develop a systematic approach to marine conservation planning and management.	8.8 million	8,788,060.00 €	SUBMARINER NETWORK FOR BLUE GROWTH EWIV	DE, BE, BG, NO, NL, ES, EE, IT, UK, PT, RO, FI, CV, HR
Danube river basin lighthouse – Demonstration of effective and sustainable management of sediments in the Danube river-Black sea system (call HORIZON-MISS-2023-OCEAN-01-02)						
SUNDANSE	innovative sediment management framework for a SustainNable DANube black SEA system	The SUNDANSE project focuses on addressing environmental issues related to the uniqueness of the Danube River. It aims to understand and tackle the effects of human interventions, climate change, and extensive river regulation on the natural balance of sediment in the river. The project will perform a conceptual Driver-Pressure-State-Impact-Response analysis, create maps for observing critical sedimentation and erosion points, and conduct innovative measurements using cutting-edge equipment for microplastic and toxicity analysis.	8.5 million	8,497,157.50 €	UNIVERSITATEA DUNAREA DE JOS DIN GALATI	RO, FR, BE, IL, RS, EE, UA, AT, IE, BG
INNO SED	INNOvative SEDiment management in the Danube River Basin	The INNO SED project addresses sediment mismanagement challenges in the Danube River Basin (DRB) by establishing the Danube Sediment 'Lighthouse' Knowledge Centre. The project aims to introduce innovative methods for monitoring and modelling sediment quantity and quality, provide innovative sediment management practices, showcase co-created innovative measures, and empower the public with knowledge transfer methodologies.	8.6 million	8,553,750.88 €	BUDAPESTI MUSZAKI ES GAZDASAGTUDOMANYI EGYETEM	HU, AT, SK, IE, HR, SI, UK, IT, RS, RO, UA, BG, DE, CZ, MD
Atlantic and Arctic sea basin lighthouse – Addressing climate change and human activities threats to marine biodiversity (call HORIZON-MISS-2023-OCEAN-01-03)						
BioProtect	ADVANCING AREA-BASED MANAGEMENT TOOLS TO ACCELERATE THE PROTECTION AND RESTORATION OF MARINE BIODIVERSITY ACROSS THE EUROPEAN SEA BASINS	BioProtect offers innovative, replicable, and scalable ecosystem-based solutions for biodiversity protection and restoration in European seas. The project addresses ecosystem degradation and biodiversity loss due to human activities and climate change, addressing essential human life and society services. BioProtect implements an area-based management decision support framework to engage stakeholders, monitor marine biodiversity, map human pressures, prioritise protection and restoration, and measure impacts, demonstrated across five sites.	8 million	8,023,357.50 €	MATIS OHF	IS, DK, FO, DE, EL, IE, NO, PT
PHAROS	Lighthouse for Atlantic and Arctic Basin	PHAROS will be the logical stepping stone bridging Mission Phase 1 'development and piloting' and the second 'deployment and upscaling' phase from 2026-2030. It will have three demos in the Atlantic tailored to the local context, resulting in multiple biodiversity and ecosystem restoration benefits (Mission Phase 1). These demos will also leverage key Mission projects including Ocean Citizen, Climarest, and Ultfarms (Mission phase 2).	9.6 million	9,559,337.50 €	CONSORCIO PARA EL DISENO, CONSTRUCCION, EQUIPAMIENTO Y EXPLOTACION DE LA PLATAFORMA OCEANICA DE CANARIAS	ES, IT, BE, PT, IE, IS, DK, NL, FR, EL, UA, NO
European natural lakes: demonstration of integrated approaches for protection and restoration of natural lake ecosystems and their biodiversity (call HORIZON-MISS-2023-OCEAN-01-04)						
EUROLakes	Integrated protection and Restoration approaches for natUral Lake EcoSytems	EUROLakes project promotes a holistic, science-based approach for safeguarding and restoring European natural lakes and ecosystems. The project utilizes the 4 Returns Framework for Landscape Restoration, focusing on sustainability, social benefits, natural restoration, and financial gains. It implements a holistic approach through five key elements, demonstrating integrated protection and restoration solutions in three specific areas and enhancing local capacity in Denmark, Ireland, and Moldova.	4.1 million	4,066,018.75 €	WETLANDS INTERNATIONAL - EUROPEAN ASSOCIATION	NL, AT, IT, BG, DE, UK, RO
FERRO	FOSTERING EUROPEAN LAKES RESTORATION BY NUTRIENT REMOVAL, RECOVERY, AND REUSE: INTEGRATED CATCHMENT AND IN-LAKE SCALE APPROACH	FERRO bridges the nutrient enrichment problem to create a sustainable solution to both challenges by circular management. It will develop a next-generation lake restoration approach by combining targeted restoration techniques with nutrient recovery and recycling to achieve multi-benefits: improved ecological status of lakes, support a circular economy, climate adaptation, support food production, promote biodiversity, and boost ecosystem services provision.	4 million	3,998,450.25 €	HELMHOLTZ-ZENTRUM FUR UMWELTFORSCHUNG GMBH - UFZ	DE, DK, FI, CZ, SE, BG
FutureLakes	Integrating Innovations for the Protection and Restoration of European Lakes	The overarching objective of FutureLakes is to demonstrate innovative solutions needed to transform lake restoration, integrated into lake management. FutureLakes aims to deliver an integrated framework for lake protection and restoration that demonstrates a range of technical solutions that include innovations in Nature-based Solutions, Circular Blue Economy Solutions and Biodiversity-focused Solutions. Demonstrating integration of these solutions in operational lake management in six large European lakes (Demo Basins) which will deliver a Blueprint for lake protection and restoration.	4.2 million	4,206,754.00 €	NORSK INSTITUTT FOR VANNFORSKNING	NO, DK, EL, FR, FI, IT, NL, UK, PL
ProCleanLakes	Integrated emerging approaches for joint protection and restoration of Natural Lakes in the spirit of European life heritage support (ProCleanLakes)	ProCleanLakes targets to combat the combined impact of various disruptive factors that generate continuous pressure on the lake's ecosystem status and facilitate the accumulation of emerging, non-regulated, chemical contaminants and nutrient enrichment. The project will design and demonstrate the feasibility of integrated nature-based emerging approaches for joint protection and restoration of European Natural Lakes and their biodiversity, considering scenarios which imply the presence of various pressures that affect the aquatic ecosystems' status.	4 million	3,968,226.00 €	UNIVERSITÄT FUER BODENKULTUR WIEN	AT, HR, CZ, EL, IT, RO, NO, ES, FR, DE, CY
Lighthouse in the Baltic and the North Sea basins - Lighthouse in the Baltic and the North Sea basins - Green and energy-efficient small-scale fishing fleets (call HORIZON-MISS-2023-OCEAN-01-05)						

H2-SEAS	Coastal Fishing Vessels Powered by Zero Emission Hydrogen Fuel Cell	The initiative proposes a novel, fully-integrated hydrogen-electric fishing vessel to accelerate a sustainable and accessible transition to clean and efficient power for small-scale fishing fleets. Based on hydrogen fuel cell technology, the prototype will demonstrate increased energy efficiency and an environmentally friendly solution for the marine environment: zero emissions and low sound pollution. The project will be implemented by the design, construction, and operational demonstration of a hydrogen-electric fishing vessel, to test and validate its resilience in the harsh marine environment.	2.9 million	2,874,272.50 €	RIGAS TEHNISKA UNIVERSITATE	LV, FR, EE
REFEST	Retrofitting of fishing fleets with low payback time and easy to deploy solutions for footprint and GHG emissions reduction	REFEST focuses on scalable, low-cost technologies for fuel consumption and GHG emission reduction in traditional fishing vessels. The project targets a 40% reduction in fuel consumption and GHG emissions compared to original designs, aiming for Technology Readiness Level 6 (TRL6). REFESt solutions are easily deployable, with low capital expenditures (CAPEX) and operational expenditures (OPEX), ready for a wide range of small fishing vessels.	4 million	3,999,185.26 €	KLAIPEDOS UNIVERSITETAS	LT, ES, SE, PL, FR, DE, IT, TR, DK, NO
SEAGLOW	Sustainable Energy Applications for Green and Low-impact Operation of small-scale fishing boats in the Baltic and North Sea basins	SEAGLOW project focuses on reducing fossil fuel consumption and GHG emissions in small fishing boats in North and Baltic Sea basins It will compare and improve various technologies through industrial partners and data collection from applied cases. Technologies include hybrid electric drivetrains, methanol engines, polymer-based coatings, and low-cost sensors to influence sailing behavior, tested on 8.5-11.5 ton vessels in Denmark, Estonia, Norway, and Sweden.	4.5 million	4,546,644.39 €	NORDDANMARKS EU-KONTOR	DK, NO, DE, SE, ES, BE, EE, TH
Cross-basin topic - Innovative nature-inclusive concepts to reconcile offshore renewables with ocean protection (call HORIZON-MISS-2023-OCEAN-01-06)						
NiD4OCEAN	Nature-inclusive Designs For Reconciling Offshore Renewables With Ocean Protection	NiD4OCEAN focuses on nature-inclusive designs (NiDs) and nature-based solutions (NBS) for offshore renewables. It aims to accelerate implementation for carbon neutrality, biodiversity restoration, and sustainable blue economy. The project targets three ecoregions, develops innovation challenges, and offers decision-support tools and policy recommendations.	2.25 million	2,249,998.82 €	NORSK INSTITUTT FOR VANNFORSKNING	NO, ES, NL, DK, LT, PT, DE, UK
Sun-Bio	SUSTAINABLE AND NATURE INCLUSIVE OFFSHORE ENERGY WITH THE PARALLEL BIODIVERSITY FLOURISHING, PROTECTION AND MONITORING	SUNBIO brings together a significant variety of disciplines, aiming at exploiting them to form a set of 'technology enablers' that will facilitate the delivery of the envisioned services through a holistic framework, comprising Underwater Engineering, Mathematics and Analytics, Computer Science, Archaeology, Chemistry, further decomposed in: (i) Naval engineering and design; (ii) trustworthy data analytics and relevant intelligence (ML/AI frameworks); (iii) Chemical measurement and spectroscopic methods for sensing, (iv) Navigation principles and compliance, (v) Communication and remote operation.	2.25 million	2,249,525.00 €	AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	ES, CY, EL, UK
Integration of socio-ecological models into the Digital Twin Ocean (call HORIZON-MISS-2023-OCEAN-01-08)						
ECOTWIN	Emulating complex causal socio-ecological models in digital twins of ocean	ECOTWIN focuses on understanding and assessing complex interactions in marine socio-ecological systems. It delivers graph theoretic solutions through a multi-actor approach for the European Digital Twin Ocean. The project validates four novel socio-ecological models in four use cases across the North Sea, Celtic Sea, Thracian Sea, and Waterford Harbour.	3.3 million	3,297,881.25 €	THE PROVOST, FELLOWS, FOUNDATION SCHOLARS & THE OTHER MEMBERS OF BOARD, OF THE COLLEGE OF THE HOLY & UNDIVIDED TRINITY OF QUEEN ELIZABETH NEAR DUBLIN	IE, DE, EL, UK, BE
SEADITO	Social-Ecological Analysis and Models for Digital Twin Ocean	SEADITO focuses on developing analytical methods and tools for EU Digital Twin Ocean (DTO), including social-ecological models. It aims to increase transdisciplinary abilities of these models for Ecosystem-based Management. The project includes case studies in the Baltic Sea, North Sea, Mediterranean, and Pan-European areas to test components and services.	3.5 million	3,467,338.75 €	AALBORG UNIVERSITET	DK, FI, NO, LV, DE, ES, EL, HR
SEADOTs	Social-Ecological ocean management Applications with Digital Ocean Twins	SEADOTs aims to advance holistic, just, and sustainable ocean management with predictive social-ecological aspects in DOTs. It combines digital twins of the ocean with human activities and socio-ecological, socio-economic data. The project addresses current challenges and developments in the North Sea, Southern North Sea, and Baltic Sea for political decision-making, marine spatial planning, and adaptive management.	3.3 million	3,299,870.00 €	SINTEF OCEAN AS	NO, DE, SE, IS, RS, DK, BE, LU
SURIMI	Integration of innovative and reliable socio-ecological models and user-driven solutions into the Digital Twin Ocean, to facilitate what-if scenarios and decision support, under a co-creation approach	SURIMI aims to develop social-ecological models and user-friendly solutions integrated into Digital Twin Ocean for policy analysis rooted in management strategy evaluation principles. The project will create the SURIMI toolbox with open-source models, harmonized data, and user-centric decision support tools using NLP AI. SURIMI will engage a wide community of stakeholders and contribute to the EU Mission Ocean Restore our Ocean, improving management of human activities and supporting policy implementation.	3.4 million	3,377,382.50 €	NORCE NORWEGIAN RESEARCH CENTRE AS	NO, ES, BE, EL, IT, IE, UK
Roadmap towards the integration of inland waters into the Digital Twin Ocean (call HORIZON-MISS-2023-OCEAN-01-09)						
IDEATION	InlanD watErS in the digital Twin Ocean	IDEATION aims to develop a digital twin of inland waters (rivers, lakes, etc.) and integrate it with the Digital Twin Ocean. The project will involve stakeholders via Water-oriented Living Labs approach and engage them through Multi-Stakeholder Forums. IDEATION will create an open knowledge inventory, reference architecture, and roadmap for integrating inland waters into the Digital Twin Ocean.	2.1 million	2,077,515.00 €	CETAQUA, CENTRO TECNOLÓGICO DEL AGUA, FUNDACION PRIVADA	ES, NL, EL, CY, UK, IT, DE, BE, CH
Actions for the implementation of the Mission Restore our ocean and waters by 2030 (call HORIZON-MISS-2023-OCEAN- 10)						

Mr.Goodfish3.0	Mr.Goodfish3.0: Co-creating solutions for sustainable seafood consumption	Mr.Goodfish3.0 aims to upgrade an existing app promoting sustainable seafood consumption and involve stakeholders in an EU-wide awareness campaign. The app will be part of an ecosystem co-created with stakeholders in pilot and replication sites across Europe, offering personalized decision trees and other features. The campaign will involve social and traditional media, educational activities, and engage with European initiatives while upscaling the labelling process for sustainable seafood providers.	2 million	1,999,877.50 €	CMMI CYPRUS MARINE AND MARITIME INSTITUTE	CY, FR, BE, NO, PL, BG
VeriFish	The sustainability indicator framework to communicate responsible aquafood production and consumption patterns	VeriFish aims to develop a framework of verifiable sustainability indicators for fish and seafood products based on data from EU repositories. The project will design and disseminate media products to help various stakeholders make informed consumption choices. The framework will be open access, and end-user engagement campaigns will target younger generations, retailers, and food influencers.	2 million	1,999,998.75 €	TRUST-IT SRL	IT, EL, NO, DK, BE, UK, PL, CH, NL
Actions for the implementation of the Mission Restore our ocean and waters by 2030 (call HORIZON-MISS-2023-OCEAN-11)						
PartArt4OW	Participatory Art for Society Engagement with Ocean and Water	PartArt4OW focuses on participatory art and creative processes on the belief that participation can bring about a deeper engagement of people with the problem of ocean and water health by performing arts themselves. Strengthen emotional attachment to oceans and water through participatory art. It develops transdisciplinary network for ocean and water protection and restoration and supports policymakers in implementing sustainable ocean and water policies.	2 million	1,999,375.00 €	UNIVERSITA DEGLI STUDI DI TORINO	IT, CY, ES, UK
TIDAL Arts	TIDAL Arts: Transforming and Inspiring Aquatic Landscapes through Art and Sciences	TIDAL Arts puts forward an interdisciplinary and interspecies approach that involves scientists (as knowledge holders), citizens (as end users and co-creators of the public space), artists and creatives (as those who can look at the current challenges from a unique perspective and engage the public through symbolic and performative work).	2 million	1,999,982.50 €	SUBMARINER NETWORK FOR BLUE GROWTH EWIV	DE, ES, HU, IE, FI, PT, BE
Mission Climate adaptation, Mission Ocean & waters and Mission Soil Deal for Europe – Joint demonstration of an integrated approach to increasing landscape water retention capacity at regional scale (call HORIZON-MISS-2023-CLIMA-OCEAN-SOIL-01)						
SpongeWorks	Co-creating and Upscaling Sponge Landscapes by Working with Natural Water Retention and Sustainable Management	SpongeWorks aims to demonstrate practical, effective, economically feasible and inclusive approaches and solutions towards enhancing the sponge functioning of interconnected groundwater, soil and surface water systems at regional scale. It applies an integrative multi-actor approach to demonstrate the effectiveness of multifunctional sponge measures for improved water and soil management for enhancing water retention in three large demonstrators in the Pinios (GR), Lèze (FR) and Vecht (NL/DE) river basins. In each demonstrator, SpongeWorks evaluates existing sponge measures, draws lessons-learned and best practices, and implements new sponge measures.	15.3 million	15,298,266.25 €	GOTTFRIED WILHELM LEIBNIZ UNIVERSITAET HANNOVER	DE, NL, FR, GR, AT, UK
Mission Climate adaptation, Mission Ocean & waters and Mission Soil Deal for Europe – Joint demonstration of an integrated approach to increasing landscape water retention capacity at regional scale (call HORIZON-MISS-2023-OCEAN-SOIL-01)						
Path4Med	Demonstrating innovative pathways addressing water and soil pollution in the Mediterranean Agro-Hydro-System	Path4Med is a multi-participatory and multidisciplinary project that will pave clear pathways towards zero water and soil pollution in the agro-hydro-system of the Mediterranean sea basin and other European seas through an innovative triple bottom line approach achieving economic, social, and environmental sustainability to ensure human well-being and ecosystems functioning. Path4Med will advance and consolidate agricultural management technologies and solutions within an inclusive and open participatory environment.	8.1 million	8,059,322.75 €	GEOPONIKO PANEPISTIMION ATHINON	DK, CH, CY, CZ, FR, EL, IT, ES, PT, PL, UA, NO, AL, DE, TR, NL
SEACURE	Innovative solutions to prevent, reduce and remediate nutrient pollution along the land-river-sea system in the Mediterranean basin	The project SEACURE will aim at demonstrating, scaling up and replicating effective innovations for the systemic prevention and reduction of nutrient pollution in the Mediterranean Sea basin, in line with the innovation ecosystem framework provided by the ongoing Mediterranean Lighthouse projects (as BlueMissionMed) and in close cooperation with related activities implemented by regional soil health living labs in the area.	7.9 million	7,937,485.13 €	FUNDACIO UNIVERSITARIA BALMES	ES, BE, IT, EL, AT,