

LIST OF PROJECTS - HORIZON-MISS-2023-CLIMA-01

Project Acronym Link to project information	Project Title	Project summary	EU contribution (million EUR)	Coordinating beneficiary	Countries of the participants involved in the projects
<b>HORIZON-MISS-2023-CLIMA-01-01</b>					
<a href="#">DRYAD</a>	DEMONSTRATION AND MODELLING OF NBS TO ENHANCE THE RESILIENCE OF MEDITERRANEAN AGRO-SILVO-PASTORAL ECOSYSTEMS AND LANDSCAPES (DRYAD)	Mediterranean agrosilvopastoral ecosystems (MAEs) provide environmental services and influence local communities. MAEs face severe challenges from climate impacts like droughts and wildfires, requiring local solutions and transformations for resilience. DRYAD proposal aims to develop nature-based solutions for MAEs, focusing on 5 demonstration regions and testing in 3 replicating regions, while involving stakeholders in co-creation and governance.	8.4	UNIVERSIDADE DA CORUNA	ES, NL, PT, IT, EL, FR
<a href="#">Precilience</a>	Precision climate resilience for agriculture and forestry sectors in the European boreal regions	The project will co-create impactful adaptation portfolios for changing conditions in the agriculture and forestry sectors of 11 focal regions in Denmark, Estonia, Finland, Norway and Sweden. It will demonstrate hands-on solutions with local actors under 8 themed demonstrations: a) Co-create adaptation strategies; b) Diversify agricultural production; c) Sustainable water management and recycling; d) Soil function enhancement by closer-to-nature management and improvers; f) Assess vulnerable forest types; g) Innovative forest regeneration in drought-prone sites; h) Closer-to-nature forest management; i) Use climate-considerate tree material to replant forests.	10	LUONNONVARAKESKUS	FI, DK, NO, EE, NL, SE, DE
<a href="#">TRANSFORM</a>	Transformative Rotations for Adaptation and Sustainable Future, Outcome and Resilience Mapping	TRANSFORM proposes that innovating new crop rotations – the sequences of crops that farmers use to achieve their farming goals – will deliver nature-based solutions for sustainable and resilient CC adaptation in arable and mixed farming. TRANSFORM will co-create with stakeholders tools and methods: for Regional-level Roadmaps that describe the needs for adaptation of local people in agriculture; for farmers to innovate crop rotations for their region using the Future Rotations Explorer tool; and, a Toolbox of spatio-temporal methods and tools for stakeholders to explore and evaluate the societal, economic and environmental indicators of impact of rotations.	8.5	INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT	FR, NL, ES, DK, UK, DE, IE
<b>HORIZON-MISS-2023-CLIMA-01-02</b>					
<a href="#">GENESIS</a>	Geologically Enhanced Nature-based Solutions for climate change resiliency of critical water Infrastructure	Groundwater, a vital freshwater resource for oceanic islands, is highly influenced by climate change, particularly in Macaronesia. GENESIS aims to demonstrate nature-based solutions for enhancing the climate resilience of critical water infrastructure, improving water management and mitigating climate change effects on local communities. The project seeks to create climate-resilient areas and islands by minimizing stormwater runoff, soil erosion, and enhancing water storage for other islands and vulnerable zones in the EU.	9.5	AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	ES, BE, EL, FR, PT, CV
<a href="#">NATURE-DEMO</a>	Nature-Based Solutions for Demonstrating Climate-Resilient Critical Infrastructure	NATURE-DEMO will Create an advanced digital decision support platform that will integrate climate projections, asset exposure, NbS catalogue portfolios, and advanced simulations to optimise the efficiency of selected NbS implementations to enhance resilience and deliver co-benefits. NATURE-DEMO will Validate its methodology with real-world demonstrations of optimised NbS across 5 sites in the Alpine Biogeographic region. NATURE-DEMO will Sustain its solutions beyond its timeframe by focusing on exploitation pathways that include tailored guidelines that disseminate NbS knowledge across infrastructure professions, a Task-Force available to provide technical expertise, and a financial observatory for NbS funds.	7.7	DIGINNOCENT S.R.O.	CZ, AT, CH, DE, EL, ES, MK, NL, NO, RO, SI, SK, UK
<b>HORIZON-MISS-2023-CLIMA-01-03</b>					
<a href="#">AURORA</a>	Demonstrating transformative solutions to empower climate Resilience towards improved public health status in the EU Boreal Region	AURORA project aims to enhance resilience against these health risks and contribute to Mission objectives by developing tools for monitoring, modelling, forecasting, and identifying risks in the Boreal region. A Decision Support system will provide specific recommendations and early warnings, empowering local policymakers to make evidence-based decisions for climate-resilient cities.	6.1	EXUS SOFTWARE MONOPROSOPIS ET AIRIA PERIORISMENIS EVTHISIS	EL, BE, LT, FI, LV, EE, SE, CY, DE, RO, CH
<a href="#">ISMED-CLIM</a>	Innovative Solutions across the Mediterranean for mitigation of Climate change-related health risks and enhancing health system resilience	ISMED-CLIM aims to engage stakeholders and implement adaptation solutions for mitigating health effects of climate change across the Mediterranean. The project will enhance understanding of climate change effects on non-communicable diseases and infections, and validate public health	6	UNIVERSITY OF CYPRUS	CY, EL, IT, ES, PT, UK, US, RS, BE, CH, EE
<a href="#">MOUNTADAPT</a>	Adaptation solutions to reduce climate change impact on health in the Mountain area	MOUNTADAPT will develop robust models to better understand the impact of climate change on health. The project will cover the whole chain of response to a climate induced health emergency with monitoring tools that will be directly linked to short term forecasts to communicate warnings to the relevant stakeholders. An emergency management tool (PR4) will finally support health systems to optimally organise staff in crisis time. MOUNTADAPT will provide a full guide for the implementation of its adaptation solutions, boosting their replication in new territories and will provide feedback to the Health Emergency Preparedness and Response Authority.	5.8	EUROQUALITY SAS	FR, EL, RO, BE, ES, DE, IT, AT, SI, AD
<a href="#">RiskADAPT</a>	User-driven Health risk Assessment Services and Innovative ADAPTation options against Threats from Heatwaves, Air Pollution, Wildfire Emission and Pollen	RiskADAPT's objective is to develop and implement a health risk assessment system for Mediterranean, Alpine and Continental regions. Its contents and tools will be in line with Climate-ADAPT described Urban adaptation support tool. This will support empowerment of local and regional authorities to make informed decisions in strategic planning, management and daily operational mitigation of health challenges related to climate change.	5.6	Stiftelsen NILU	NO, IT, UK, FR, NL, FI, BE, SE, EL, CH, US

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<b>HORIZON-MISS-2023-OCEAN-01-01</b>					
<a href="#">BLUE CONNECT</a>	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	SUBMARINER NETWORK FOR BLUE GROWTH EWIV	DE, BE, BG, NO, NL, ES, EE, IT, UK, PT, RO, FI, CV, HR
<b>HORIZON-MISS-2023-OCEAN-01-02</b>					
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	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	BUDAPESTI MUSZAKI ES GAZDASAGTUOMANYI EGYETEM	HU, AT, SK, IE, HR, SI, UK, IT, RS, RO, UA, BG, DE, CZ, MD
<b>HORIZON-MISS-2023-OCEAN-01-03</b>					
<a href="#">BioProtect</a>	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 (ABM-DSF) to engage stakeholders, monitor marine biodiversity, map human pressures, prioritize protection and restoration, and measure impacts, demonstrated across five sites.	8	MATIS OHF	IS, DK, FO, DE, EL, IE, NO, PT
<a href="#">PHAROS</a>	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 using a combination of newly developed innovative NBS and IMTA, 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 Ulfarms (Mission phase 2).	9.6	CONSORCIO PARA EL DISEÑO, CONSTRUCCION, EQUIPAMIENTO Y EXPLOTACION DE LA PLATAFORMA OCEANICA DE CANARIAS	ES, IT, BE, PT, IE, IS, DK, NL, FR, EL, UA, NO
<b>HORIZON-MISS-2023-OCEAN-01-04</b>					
<a href="#">EUROLakes</a>	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	WETLANDS INTERNATIONAL - EUROPEAN ASSOCIATION	NL, AT, IT, BG, DE, UK, RO
<a href="#">FERRO</a>	FOSTERING EUROPEAN LAKES RESTORATION BY NUTRIENT REMOVAL, RECOVERY, AND REUSE: INTEGRATED CATCHMENT AND IN-LAKE SCALE APPROACH	FERRO bridges the nutrient enrichment problem to the depletion of P 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	HELMHOLTZ-ZENTRUM FÜR 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	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	UNIVERSITÄT FÜR BODENKULTUR WIEN	AT, HR, CZ, EL, IT, RO, NO, ES, FR, DE, CY
<b>HORIZON-MISS-2023-OCEAN-01-05</b>					
<a href="#">H2-SEAS</a>	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	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 TRL6. REFESt solutions are easily deployable, with low CAPEX and OPEX, ready for a wide range of small fishing vessels.	4	KLAIPEDOS UNIVERSITETAS	LT, ES, SE, PL, FR, DE, IT, TR, DK, NO

<a href="#">SEAGLOW</a>	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	NORDDANMARKS EU-KONTOR	DK, NO, DE, SE, ES, BE, EE, TH
<b>HORIZON-MISS-2023-OCEAN-01-06</b>					
<a href="#">NiD4OCEAN</a>	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.	2.2	NORSK INSTITUTT FOR VANNFORSKNING	NO, ES, NL, DK, LT, PT, DE, UK
<a href="#">Sun-Bio</a>	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.	2.2	AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	ES, CY, EL, UK
<b>HORIZON-MISS-2023-OCEAN-01-08</b>					
<a href="#">ECOTWIN</a>	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	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
<a href="#">SEADITO</a>	Social-Ecological Analysis and Models for Digital Twin Ocean	SEADITO focuses on developing analytical methods and tools for EU 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	AALBORG UNIVERSITET	DK, FI, NO, LV, DE, ES, EL, HR
<a href="#">SEADOTS</a>	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	SINTEF OCEAN AS	NO, DE, SE, IS, RS, DK, BE, LU
<a href="#">SURIMI</a>	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 DTO 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	NORCE NORWEGIAN RESEARCH CENTRE AS	NO, ES, BE, EL, IT, IE, UK
<b>HORIZON-MISS-2023-OCEAN-01-09</b>					
<a href="#">IDEATION</a>	Inland watErs in the digitAI TwIn OceaN	IDEATION aims to develop a digital twin of inland waters (rivers, lakes, etc.) and integrate it with the DTO. 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	CETAQUA, CENTRO TECNOLOGICO DEL AGUA, FUNDACION PRIVADA	ES, NL, EL, CY, UK, IT, DE, BE, CH
<b>HORIZON-MISS-2023-OCEAN-01-10</b>					
<a href="#">Mr.Goodfish3.0</a>	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	CMMI CYPRUS MARINE AND MARITIME INSTITUTE	CY, FR, BE, NO, PL, BG
<a href="#">VeriFish</a>	The sustainability indicator framework to communicate responsible aquafod production and consumption patterns	VeriFish aims to develop a framework of verifiable sustainability indicators for fish and seafood products based on FAIR 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	TRUST-IT SRL	IT, EL, NO, DK, BE, UK, PL, CH, NL
<b>HORIZON-MISS-2023-OCEAN-01-11</b>					
<a href="#">PartArt4OW</a>	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	UNIVERSITA DEGLI STUDI DI TORINO	IT, CY, ES, UK
<a href="#">TIDAL ArtS</a>	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	SUBMARINER NETWORK FOR BLUE GROWTH EWIV	DE, ES, HU, IE, FI, PT, BE

**LIST OF PROJECTS - HORIZON-MISS-2023-CLIMA-OCEAN-SOIL-01**

Project Acronym Link to project information	Project Title	Project summary	EU contribution (million EUR)	Coordinating beneficiary	Countries of the participants involved in the projects
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	GOTTFRIED WILHELM LEIBNIZ UNIVERSITAET HANNOVER	DE, NL, FR, GR, AT, UK