



EUROPEAN UNION



EU
MISSIONS

RESTORE OUR OCEAN AND WATERS



Overview of EU funded projects on MPAs and Marine Ecosystems

Blue Parks Community Workshop

Effective management of marine protected areas

07/03/2024

Alberto Zocchi

CINEA.C.C1 - Horizon Europe Climate

CINEA.C.C1.2 - Climate mitigation and ecosystems



CINEA - the Climate, Infrastructure and Environment Executive Agency started its operations on 1 April 2021

CINEA in a nutshell

Horizon 2020 legacy
Horizon Europe
LIFE
EMFF

> **58 billion** for the period 2021-2027

> **500 staff** by 2027

from **2800+** projects managed in **October 2021** to > **4500 projects** by 2027

- **Policy feedback** as an essential part of funding activities
- **Expertise** at the service of **beneficiaries** in managing the complete lifecycle of projects
- Exploitation of **synergies** and dynamic ways to work **across programmes**



CINEA's role implementing the Mission's Work Programme:

- Running the Evaluation of proposals and calls for tenders
- Preparing Grant Agreements and contracts
- Monitoring the actions
- Supporting the Mission Managers and the Mission boards in analysing the outcome of projects/ policies with a view to achieving the mission goals

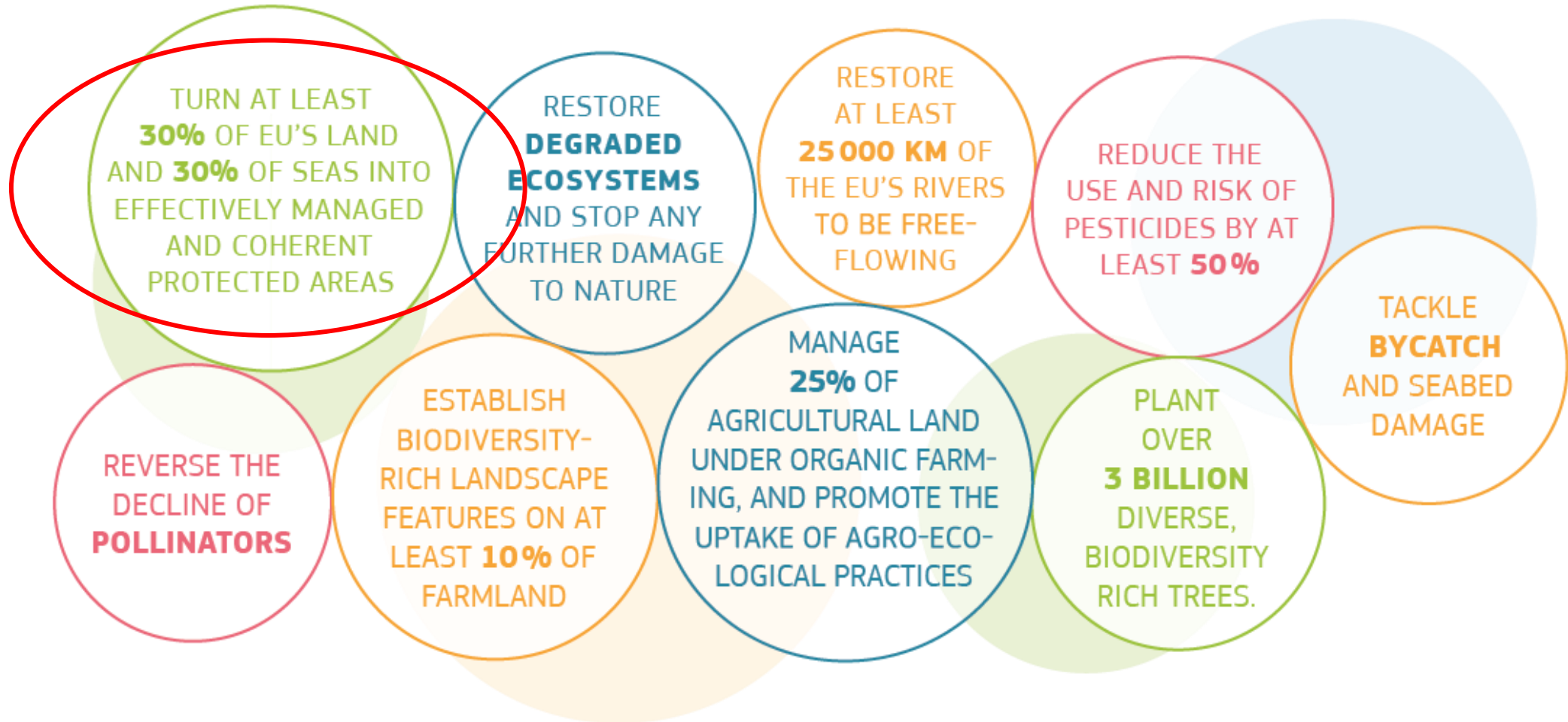


Policy context

- The **2030 Agenda for Sustainable Development**
- From Aichi to the Kunming-Montreal **Global Biodiversity Framework**
- The **European Green Deal**:
 - EU Biodiversity strategy 2030,
 - ~~Zero Pollution~~ action plan
 - **Farm to fork** strategy
 - Renewed **sustainable finance** strategy
 - ... and more!
 - **Climate adaptation** Strategy
 - European **Climate Law**
 - **Blue Economy** strategy



Some of the key targets





Horizon Europe R&I Missions

Linking EU's research and innovation to major societal needs; with strong visibility and impact

A mission is a portfolio of actions across disciplines intended to achieve a **bold and inspirational and measurable goal** within a set timeframe, with **impact** for society and policy making as well as relevance for a significant part of the European population and wide range of European citizens.

Horizon Europe defines 5 missions areas:

Adaptation to
Climate Change



Cancer



Climate-neutral
and Smart Cities



Restore our
Ocean and Waters



Soil Deal
for Europe





Mission objectives and targets

Restore our Ocean and Waters by 2030

PROTECT AND RESTORE MARINE AND FRESHWATERS ECOSYSTEMS AND BIODIVERSITY

- Protect at least 30% and strictly protect 10% EU's sea areas
- Restore 25.000 km free flowing rivers
- Marine nature restoration targets (incl. degraded seabeds, coastal ecosystems)

PREVENT AND ELIMINATE POLLUTION OF OUR OCEANS, SEAS AND WATERS

- Reduce by at least 50% plastic litter
- Reduce by at least 30% microplastics
- Reduce by at least 50% nutrient losses, chemical pesticides

MAKE THE BLUE ECONOMY CARBON- NEUTRAL AND CIRCULAR

- Net zero maritime emissions
- Zero carbon aquaculture,
- Low carbon multipurpose use of marine space

ENABLERS

Digital Ocean and Waters Knowledge system

Public mobilization and engagement



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Mission lighthouses:

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



Baltic & North sea basin



MAKE THE BLUE ECONOMY CARBON-NEUTRAL AND CIRCULAR

Mediterranean sea basin



PREVENT AND ELIMINATE POLLUTION OF OUR OCEAN, SEAS AND WATERS

Danube river basin



PROTECT AND RESTORE MARINE AND FRESHWATERS ECOSYSTEMS AND BIODIVERSITY

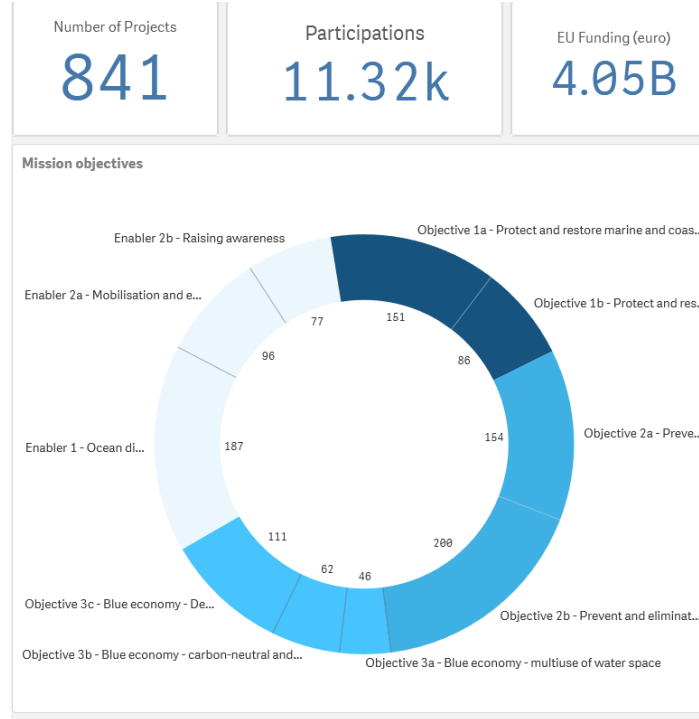
Atlantic & Arctic coast



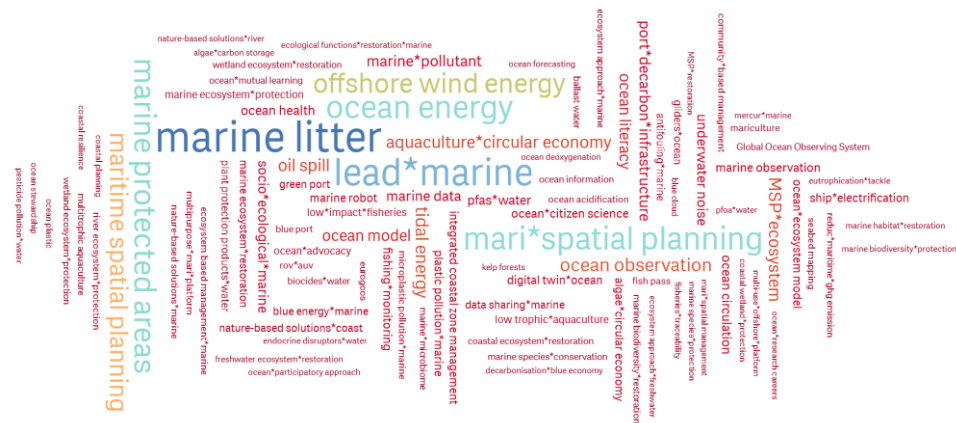


Portfolio analysis

- ✓ Portfolio analysis of **841 projects** from **20 EU Programmes** from 2014-23.
- ✓ **Expert report** published on 1 June 2023
- ✓ **Interactive Dashboard**



https://research-and-innovation.ec.europa.eu/news/all-research-and-innovation-news/new-report-analysing-contribution-over-800-eu-funded-projects-mission-restore-our-ocean-and-waters-2023-06-01_en



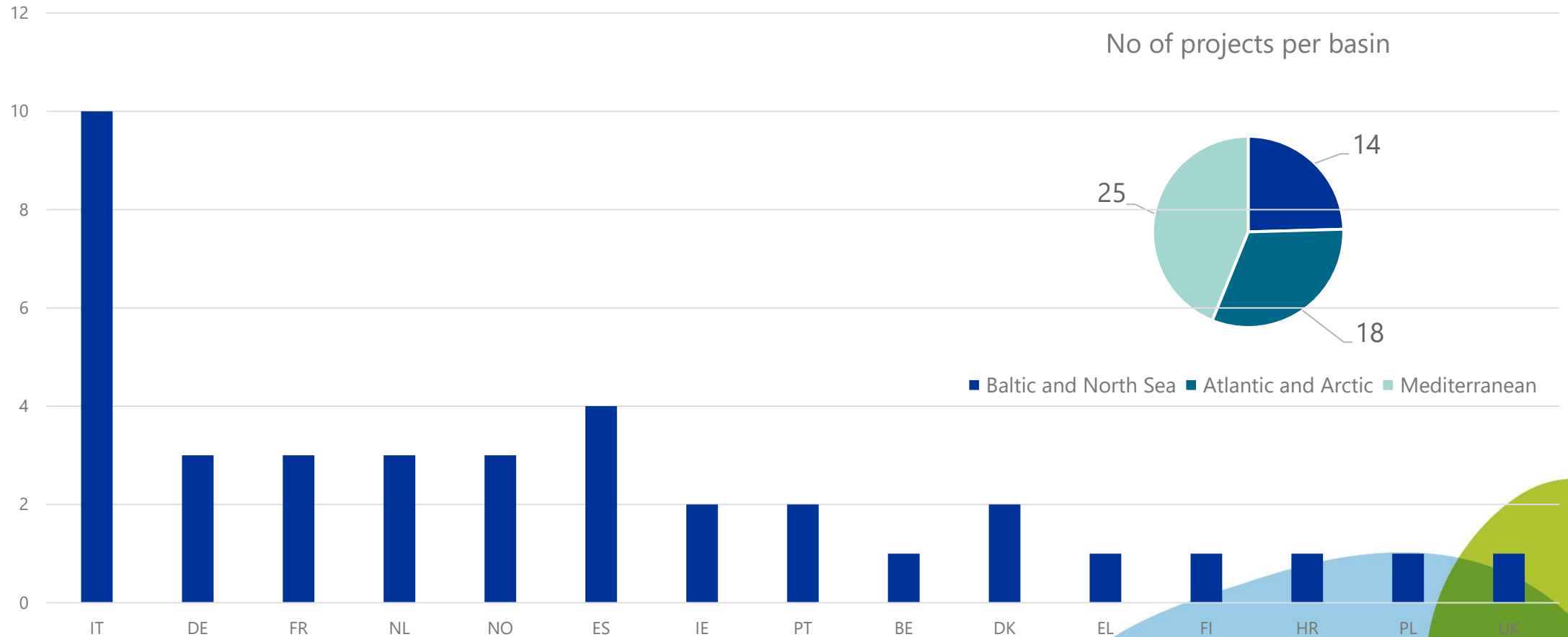


Ongoing Mission Ocean Marine Projects Overview

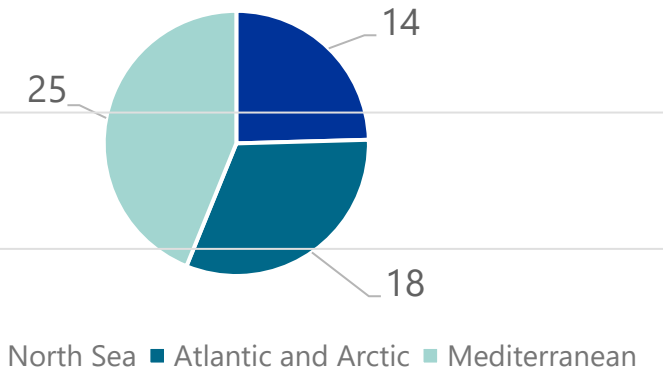
	Horizon	LIFE	EMFAF	Total
No of projects	22 + 1 CSA	17	1	41
Total budget	190.005.793	127.648.903	3.123.394	317.654.696
EU funding	178.491.620	62.915.144	2.469.145	286.477.604
Maritime Spatial Planning/MPAs network total budget	(4) 18.260.575	(5) 63.746.196	(1) 3.123.394	82.006.771
Management - Restoration - Conservation	(12)98.025.735	(12) 63.902.707	(0)	161.928.442
Marine Biodiversity and ecosystem services	(4) 2.771.690	(0)	(0)	52.771.690
Observing and mapping biodiversity and ecosystems	(2) 17.947.793	(0)	(0)	17.947.793



No projects per coordinating country



No of projects per basin





Maritime Spatial Planning / MPAs networks (1)

Acronym	Title	COO country	Funding instrument	Budget EUR	Summary	Website
eMSP NBSR	Emerging ecosystem-based Maritime Spatial Planning topics in North and Baltic Seas Region	NL	EMFF	3.123.394	Develop approaches for MSP implementation in the North and Baltic Sea Region and beyond, guiding through the implementation phase of Maritime Spatial Plans and taking on board the ambitions under the EU Green Deal and other related EU initiatives	https://www.emspproject.eu/
MSP4BIO	Improved Science-Based Maritime Spatial Planning to Safeguard and Restore Biodiversity in a coherent European MPA network	DE	Horizon Europe	3.490.501	Develop and demonstrate ways in which knowledge-based MSP becomes a vehicle and a tool for the protection and recovery of ecosystems	https://msp4bio.eu/
MPA Europe	Marine Protected Areas Europe	NO	Horizon Europe	2.682.228	Map the optimal locations for Marine Protected Areas (MPA) in European seas using measures covering the range of biodiversity from species to ecosystems, including habitats	mpa-europe.eu
MarinePlan	Improved transdisciplinary science for effective ecosystem-based maritime spatial planning and conservation in European Seas (MarinePlan)	DE	Horizon Europe	3.587.828	Align MSP and marine protected area (MPA) designation processes	marineplan: MarinePlan
PROTECT BALTIC	Enabling comprehensive effective and efficient protection and restoration measures for a resilient Baltic Sea ecosystem	FI	Horizon Europe	8.500.018	Blue print for a data driven, regionally agreed protection framework to improve governance and transboundary cooperation	PROTECT BALTIC Preserve, revive, thrive



Maritime Spatial Planning / MPAs networks (2)

Acronym	Title	COO country	Funding instrument	Budget EUR	Summary	Website
MPA-LIFE-IRELAND	MPA-LIFE-IRELAND	IE	LIFE	25.268.511	Achieve and maintain Good Environmental Status in Irelands Marine Area by expanding and improving Ireland’s network of MPAs well-managed, monitored and enforced MPAs	Not yet available
LIFE-MareNatura	Conservation of priority species of marine megafauna in Greece and Italy	EL	LIFE	10.707.188	Mitigation of threats for 9 of the most threatened EU priority species of seabirds, marine turtles and marine mammals in the Mediterranean, including proposing suitable hotspots for inclusion in the Greek N2K network	LIFE MareNatura Project - MEDASSET
LIFE Mobile Marine Species	LIFE Mobile Marine Species	FR	LIFE	21.833.466	Improve the conservation of 5 elasmobranchs, 4 marine mammals, 12 seabirds and 2 sea turtles species addressing mortality in fishing gear (bycatch, post-catch mortality, ghost fishing), loss of functional habitats (including IAS) and disturbance	Not yet available
LIFE CONCEPTU MARIS	CONservation of CEtaceans and Pelagic sea TURtles in Med: Managing Actions for their Recovery In Sustainability	IT	LIFE	4.015.644	Improve the conservation status of species of cetaceans and pelagic sea turtles in the Mediaterranean, including identifying important offshore marine sites	https://www.lifeconceptu.eu/en/
LIFE Artina	LIFE Artina - seabird conservation network in the Adriatic	HR	LIFE	1.921.387	Designate marine Special Protection Areas in Croatia	https://www.lifeartina.eu/en/homepage/



Management / Restoration / Conservation (1)

Acronym	Title	COO country	Funding instrument	Budget EUR	Summary	Website
FutureMARES	Climate Change and Future Marine Ecosystem Services and Biodiversity	NL	Horizon 2020	8.555.905	Relations between climate change, marine biodiversity and ecosystem services	HOME FutureMARES
MaCoBios	Marine Coastal Ecosystems Biodiversity and Services in a Changing World	UK	Horizon 2020	6.980.657	Fill knowledge gaps on inter-relations between climate change, biodiversity and ecosystem services, and to ensure an effective transfer of knowledge to relevant stakeholders	Home » MacoBios
Marine SABRES	Marine Systems Approaches for Biodiversity Resilience and Ecosystem Sustainability	IE	Horizon Europe	8.755.388	Co-design as Simple Social Ecological Systems approach (the Simple SES) to rapidly enable and upscale EBM across Europe and abroad	Marine Sabres EU-funded Marine Research
MARHAB	Improving marine habitat status by considering ecosystem dynamics	NO	Horizon Europe	4.197.180	Conservation of marine habitats in the Kattegat-Skagerrak region	Not yet available
OCEAN CITIZEN	Marine forest coastal restoration: an underwater gardening socio-ecological plan	IT	Horizon Europe	11.183.070	Novel restoration approach in subtropical, tropical and cold temperate ecosystems for Marine Forest (MF) organisms including Multitrophic Aquaculture and Smart Enhanced Reefs	Home - OceanCitizen



Management / Restoration / Conservation (2)

Acronym	Title	COO country	Funding instrument	Budget EUR	Summary	Website
Blue4ALL	Blueprint demonstration for co-created effective, efficient and resilient networks of MPAs	BE	Horizon Europe	8.018.806	Align top-down regulatory demands about European networks of MPAs with bottom-up societal expectations as a guarantee for achieving effective, efficient and resilient management	https://www.blue4all.eu/about
???	???		Horizon Europe	8.000.000	Including identification of new MPAs to complete the network and of connection areas.	
???	???		Horizon Europe	8.000.000		
???	???		Horizon Europe	8.000.000		
A-AAgora	Blueprint for Atlantic-Arctic Agora on cross-sectoral cooperation for restoration of marine and coastal ecosystems and increased climate resilience through transformative innovation	PT	Horizon Europe	8.400.000	Develop the implementable Nature based Solutions through innovative governance structures and technological architecture. It targets to boost resilience to climate change and mitigating its impacts in coastal areas.	https://a-aagora.eu/



Management / Restoration / Conservation (3)

Acronym	Title	COO country	Funding instrument	Budget EUR	Summary	Website
CLIMAREST	Coastal Climate Resilience and Marine Restoration Tools for the Arctic Atlantic basin	NO	Horizon Europe	8.500.000	Toolbox designed to establish guidelines for ecosystem restoration and to enhance climate resilience in coastal communities	Climarest
EFFECTIVE	Enhancing social well-being and economic prosperity by reinforcing the EFFECTIVENESS of protection and restoration management in Mediterranean MPAs	ES	Horizon Europe	9.434.729	Knowledge base and guidance to Ecosystem-Based management for the protection and restoration management in the Mediterranean	Home - EFFECTIVE (effective-euproject.eu)
LIFE SEA.NET	Urgent actions for the implementation of marine Natura 2000 Network	IT	LIFE	3.666.667	Improve the governance and management of marine Natura 2000 site	https://www.lifeconceptu.eu/en/
LIFE Delfi	Dolphin Experience: Lowering Fishing Interactions	IT	LIFE	4.867.500	Reduction of dolphin mortality caused by fishing activities	https://lifedelfi.eu/
LIFE A-MAR NATURA2000	Knowing and loving the Natura 2000 marine sites to protect them	IT	LIFE	1.896.284	Reduce impacts and pressures in Natura 2000 sites in Italy (288 sites) and Spain (272) behaviour of local stakeholders	https://lifeamarnatura2000.eu/en/
LIFE Marha	LIFE IP Marine Habitats	FR	LIFE	22.295.164	Achieve favourable conservation status for marine habitats (Annex I Habitats Directive) in France. Management, pressure mitigation, stakeholders involvement. 48 757 820 EUR of complementary funding	https://www.life-marha.fr/



Management / Restoration / Conservation (4)

Acronym	Title	COO country	Funding instrument	Budget EUR	Summary	Website
LIFE NatuReef	Nature-based reef solution for coastal protection and marine biodiversity enhancement	IT	LIFE	3.183.057	Restoration of native oyster and sabellaria reefs building Base Limestone Reefs (BLS), in the northern Adriatic coast to restore biodiversity and protect coastal habitats from sediment erosion and flooding caused by storm surges.	LIFE NatuReef (unibo.it)
REEForest	Restoration of Cystoseira macroalgal FORESTS to enhance biodiversity along Mediterranean rocky REEFs	IT	LIFE	2.294.471	Reverse the degradation of the endangered Cystoseira Habitat 1170 by implementing active restoration and setting up monitoring plans in 4 marine protected areas (Italy: Sinis Peninsula, Cilento National Park, Bergeggi Island; Greece: Gyaros island)	REEForest
LIFE-TRANSFER	Seagrass transplantation for transitional Ecosystem Recovery	IT	LIFE	4.214.120	Recolonisation of aquatic phanerogams in the 8 sites by transplanting small sods and rhizomes of species previously present in each area: <i>Zostera marina</i> (eelgrass), <i>Zostera noltii</i> (dwarf eelgrass), <i>Ruppia cirrhosa</i> (spiral ditchgrass) and the seagrass <i>Cymodocea nodosa</i> , The aim is to promote the natural propagation capacity of these plants through seed production and dispersion.	www.lifetransfer.eu
LIFE PINNA	Conservation and re-stocking of the Pinna nobilis in the western Mediterranean and Adriatic sea	IT	LIFE	2.965.885	The LIFE PINNA project's objective is to conserve fan mussels in the Western Mediterranean and the Adriatic Sea. It aims to achieve this by applying specific conservation and repopulation actions in pilot areas, that are transferable to other regions.	www.lifepinna.eu



Management / Restoration / Conservation (5)

Acronym	Title	COO country	Funding instrument	Budget EUR	Summary	Website
LIFE PINNARCA	Protection and restoration of <i>Pinna nobilis</i> populations as a response to the catastrophic pandemic started in 2016	ES	LIFE	2,249,322	Prevent the extinction of the Mediterranean fan mussel (<i>Pinna nobilis</i>) in the short-to-medium term. The project will carry out urgent measures within the framework of an international collaborative consortium of experts to enable the application of coherent trans-boundary measures.	www.lifepinnarca.com
LIFE DREAM	Deep REef restoration And litter removal in the Mediterranean sea	IT	LIFE	5.307.437	Improve knowledge in the Mediterranean Sea on the distribution of deep reefs; identify multiple stressors threatening deep reefs and areas of conflict between conservation measures and human activities. Extend the Italian Natura 2000 network to the deep sea. Active restoration through the deployment of eco-friendly 3D-printed modular artificial reef structures.	www.life-dream.eu
LIFE ECOREST	Ecological restoration of human-impacted benthic marine ecosystems through active strategies and participatory approach	ES	LIFE	3.638.829	Contribute to reversing the poor conservation status of benthic habitats of the Catalan continental margin that are impacted by fishing activities	www.life-ecorest.eu
COASTal LIFE	Restoration of coastal habitat zones	DK	LIFE	13.212.122	Re-establish the original coastal habitats in parts of 4 Natura 2000 sites, to expand protected habitats and create larger ecological corridors and natural areas	www.coastallife.dk



Marine biodiversity / Ecosystem Services

Acronym	Title	COO country	Funding instrument	Budget EUR	Summary	Website
BIOCEAN5D	MARINE BIODIVERSITY ASSESSMENT AND PREDICTION ACROSS SPATIAL, TEMPORAL AND HUMAN SCALES	DE	Horizon Europe	15.449.902	To build a unique suite of technologies, protocols, and models allowing holistic re-exploration of marine biodiversity, from viruses to mammals, from genomes to holobionts, across multiple spatial and temporal scales	BIOcean5D Studying marine biodiversity
MARBEFES	MARine Biodiversity and Ecosystem Functioning leading to Ecosystem Services	PL	Horizon Europe	15.107.312	Determine the links between the biodiversity and functioning of coastal and marine ecosystems and the resulting ecosystem services and societal goods and benefits	https://www.marbefes.eu/
GES4SEAS	Achieving Good Environmental Status for maintaining ecosystem Services, by ASsessing integrated impacts of cumulative pressures	ES	Horizon Europe	9.998.656	Inform and guide marine governance in minimizing human pressures and their impacts on marine biodiversity and ecosystem functioning, while maintaining the sustainable delivery of ecosystem services	Homepage - GES4SEAS
ACTNOW	Advancing understanding of Cumulative Impacts on European marine biodiversity, ecosystem functions and services for human wellbeing	NL	Horizon Europe	12.215.820	Understanding and forecasting of the cumulative impacts of climate change and interacting drivers on marine systems	ACTNOW EU Marine Research Project (actnow-project.eu)



Observing and mapping biodiversity and ecosystems

Acronym	Title	COO country	Funding instrument	Budget EUR	Summary	Website
OBAMA-NEXT	OBSERVING AND MAPPING MARINE ECOSYSTEMS – NEXT GENERATION TOOLS	DK	Horizon Europe	9.333.704	Toolbox for generating accurate, precise and relevant information characterising marine ecosystems and their biodiversity	https://obama-next.eu/
MARCO-BOLO	MARine COastal BiODiversity Long-term Observations	FR	Horizon Europe	8.614.089	Structure and strengthen European coastal and marine biodiversity observation capabilities, linking them to global efforts to understand and restore ocean health, hence ensuring that outputs respond to explicit stakeholder needs from policy, planning and industry	https://marcobolo-project.eu/



Coordination and Support Action

Acronym	Title	COO country	Funding instrument	Budget EUR	Summary	Website
BlueMissionAA	Building a coordination hub to support the Mission implementation in the Atlantic and Arctic basin	PT	Horizon Europe	3.000.000	Coordination hub that will support the implementation of the EU Mission Restore our Ocean and Waters by 2030 in the Atlantic and Arctic basins	BlueMissionAA –



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Thank you!