



CENTRE FOR
ENVIRONMENTAL AND
MARINE STUDIES

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2001-2021



universidade
de aveiro



Ciências
ULisboa



We focus on...

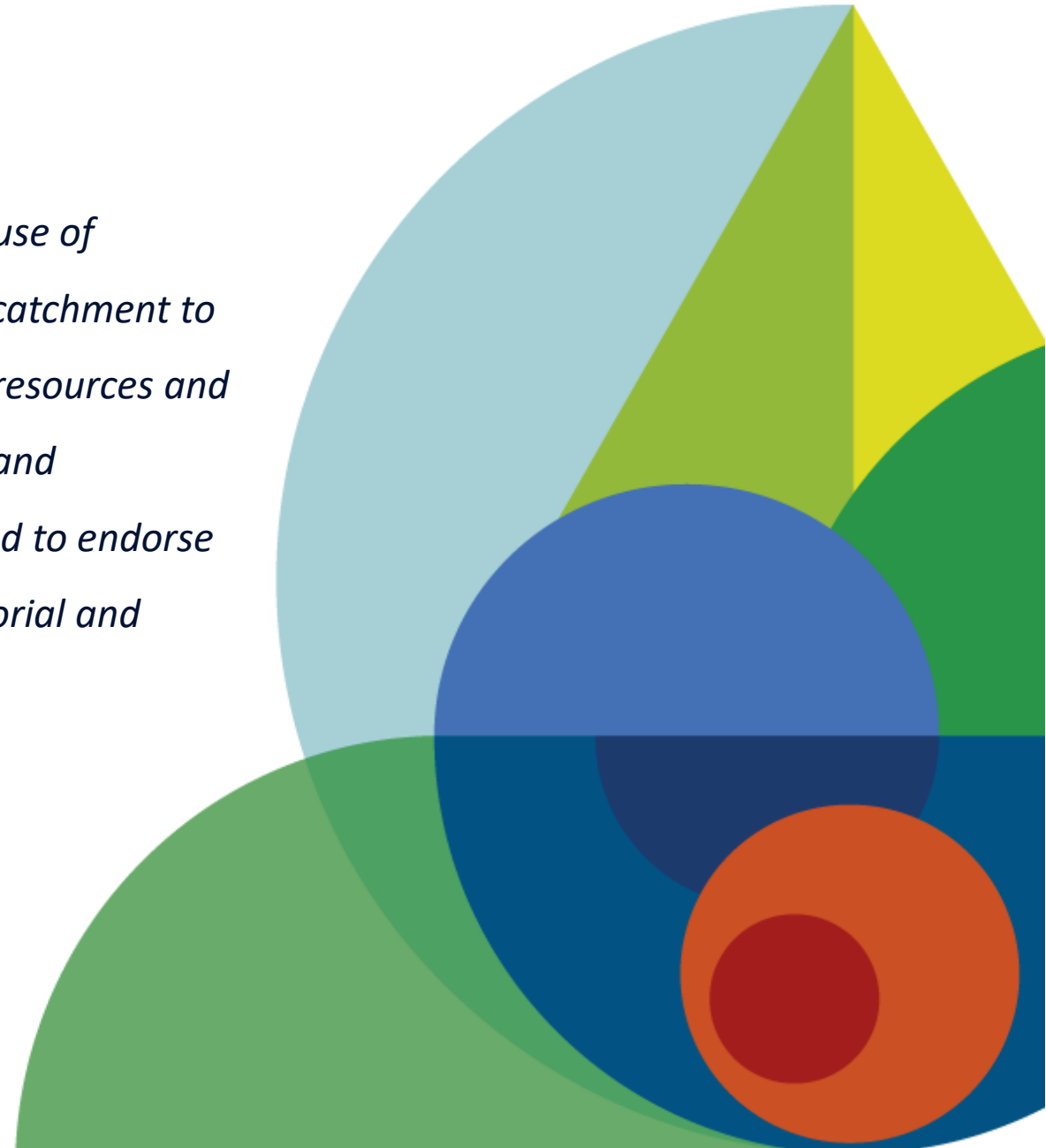
...promoting a more efficient use of terrestrial and aquatic (from catchment to the deep sea) environmental resources and a more competitive, resilient and sustainable economy, designed to endorse job creation and assure territorial and social cohesion.



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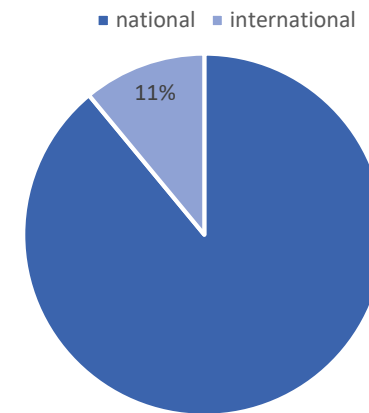
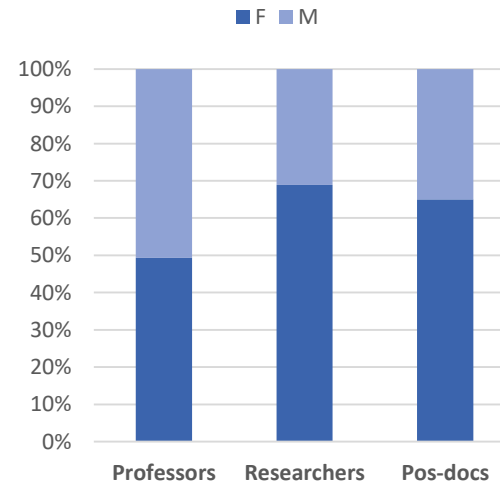
Who we are

245 INTEGRATED MEMBERS

- 5 Departments of the University of Aveiro (224 PhD)
- Faculty of Sciences of the University of Lisbon (16 PhD)
- School of Agriculture of the University of Lisbon (1 PhD)
- National Health Institute Dr Ricardo Jorge (2 PhD)
- Porto School of Engineering (1 PhD)
- University of Coimbra (1 PhD)

PhD students: 200

Technical and management staff: 11 (7 PhD's)

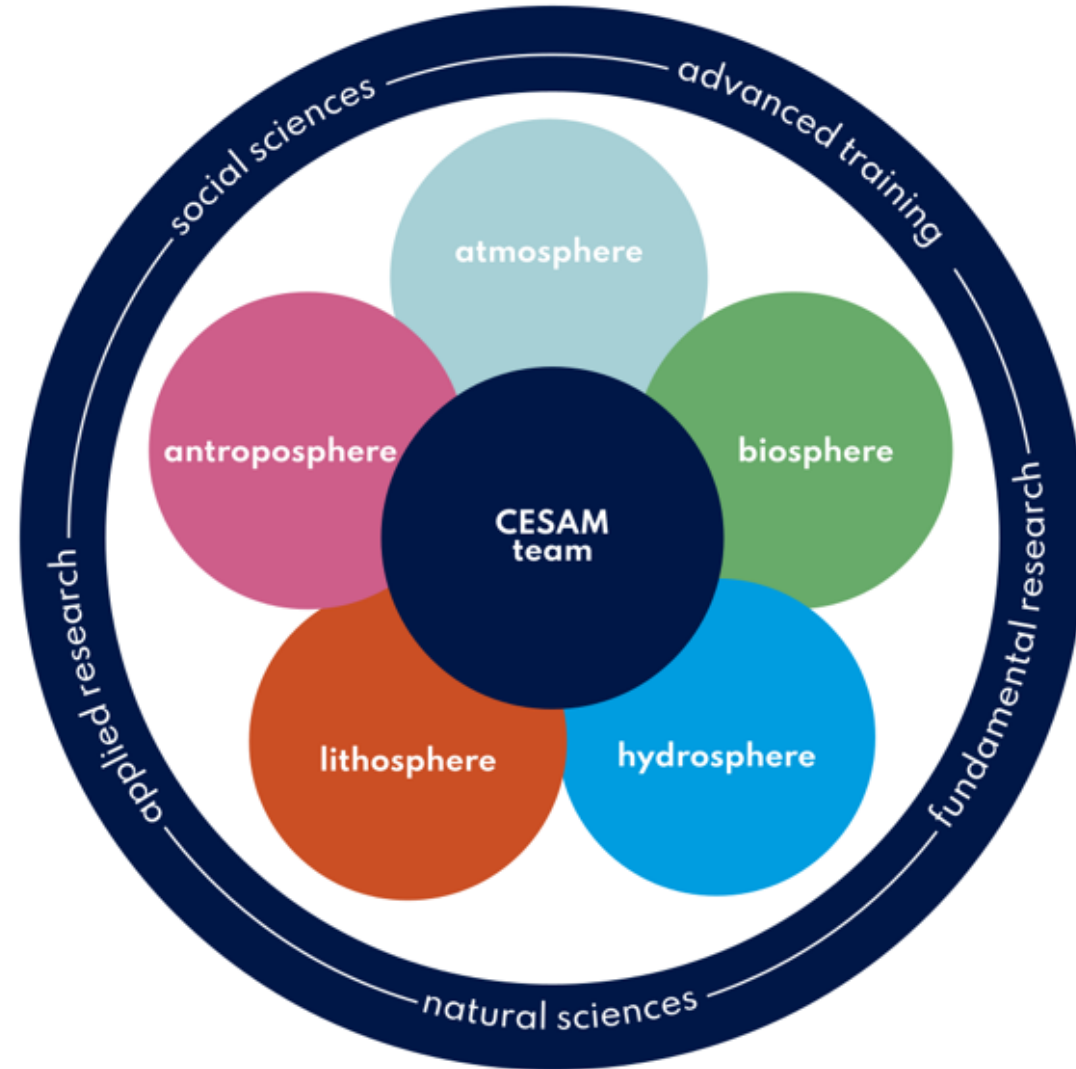


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CESAM has a multidisciplinary team



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Our mission



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- Environmental research continuum from catchment to deep-sea and related risks, including climate change

- Ecosystem-based management approach for green and blue Sustainable Development

- Transdisciplinary-based knowledge supporting environmental policies and Society

- Inclusive environment and advanced training programmes towards R&I for smart specialization

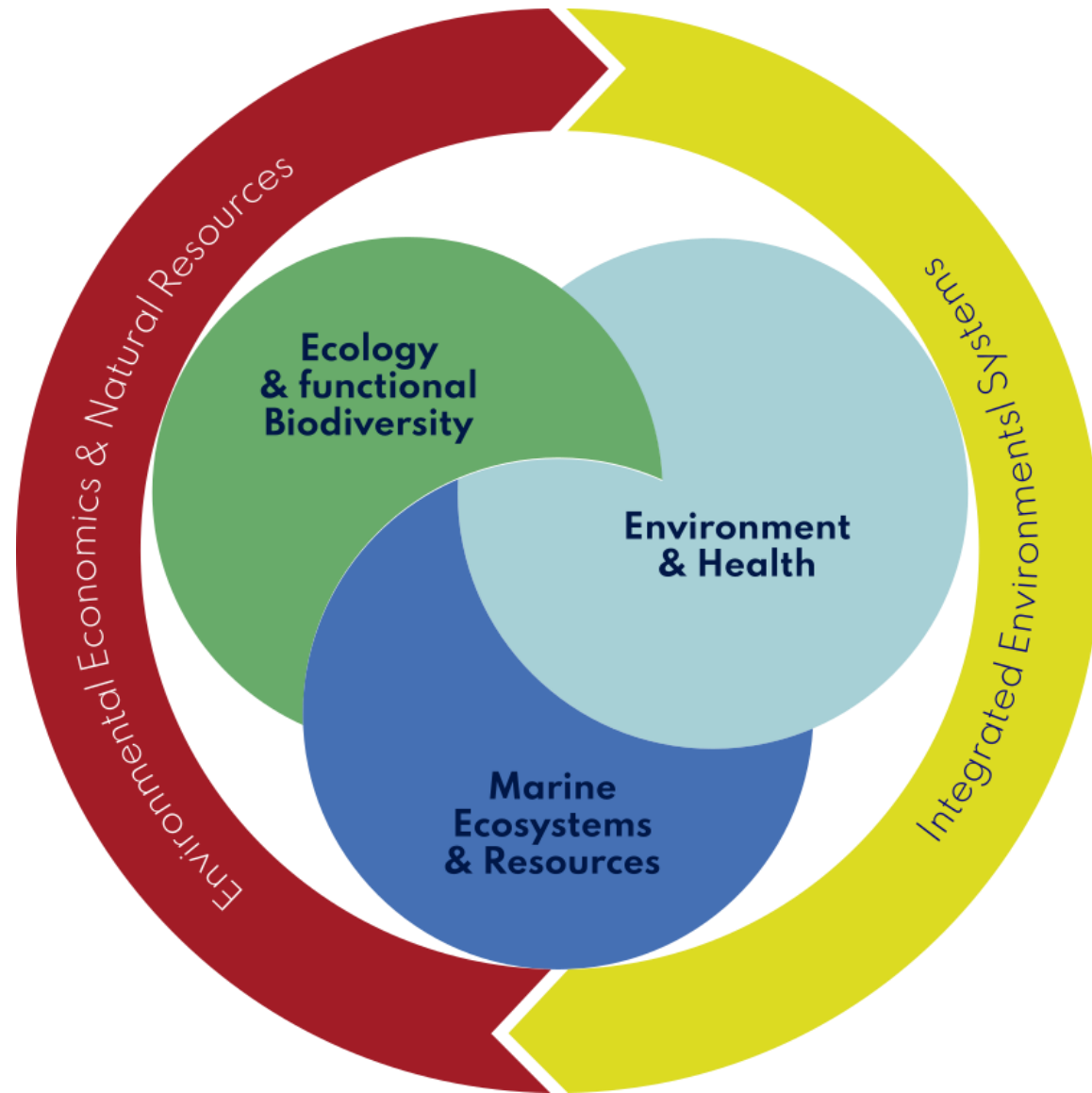
CESAM follows a multi-actor and multi-sectoral approach framed in 4 multidisciplinary strategic thematic lines providing science-based knowledge and fostering science-policy nexus



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CESAM's 4 strategic thematic lines



- Biodiversity
- Ecosystem structure, functions and services
- Anthropogenic activity and climate change impacts
- Natural resources management
- Environmental risk assessment

- Water, air, soil and health
- Urban environmental health
- Emerging environmental health threats
- Innovative health solutions
- Ecosystem services and human well-being

- Sustainable use of marine resources
- Fisheries, aquaculture, food security
- Bioprospecting for bioactive compounds
- Oceans health
- Maritime spatial planning

- Nature based solutions
- Climate change adaptation
- Resource efficiency and transition to a low carbon economy
- Resilience to systemic risks
- Inclusive circular economy



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CESAM's Research Groups



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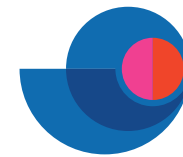
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Adaptation Biology
& Ecological Processes (ABEP)



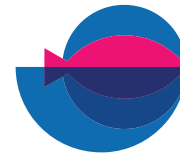
Atmospheric
Processes & Modelling (APM)



Physical Oceanography
& Marine Geology (POMG)



Analytical Sensors & Applied
Eco-Chemistry (ASAEC)



Coastal and Deep-Ocean Ecology
& Conservation (CDEC)



Resources Circularity Assessment &
Technology (RCAT)



Biogeochemical Processes
& Pollutants (BPP)



Environmental Changes,
Hazards & Conservation
(EHC)



Socio-Ecological Systems Analysis,
Management & Planning (SES)



Aquatic Toxicology
& Risk Assessment (ATRA)

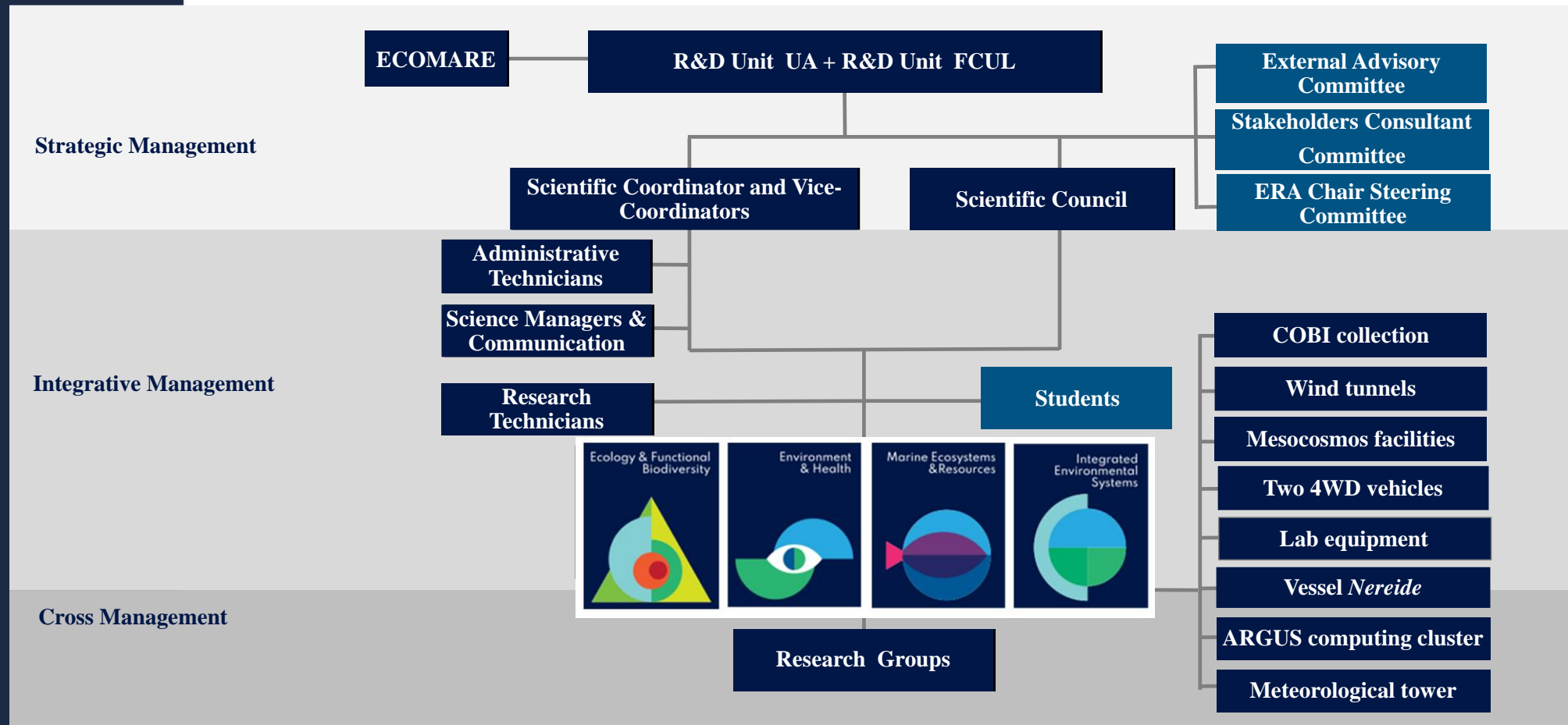


Marine Biotechnology
& Aquaculture (MBA)



Stress Biology (SB)

CESAM's governance model



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Research Infrastructures



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Marine resources



GENIALG - GENetic diversity exploitation for Innovative Macro-ALGal biorefinery
Horizon 2020 Research and Innovation Programme



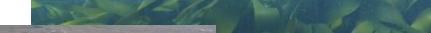
ValorMar - Integral Valorization of Marine Resources: Potential, Technological Innovation and New Applications
Programas Mobilizadores – PI: SONAE SA



COCKLES - Co-Operation for Restoring Cockle Shelfisheries and its Ecosystem Services in the Atlantic Area
Interreg Atlantic Area



COACH - COoperative approACH applied to conservation and management of cockles
Oceanário de Lisboa e Fundação Oceano Azul



Marine conservation

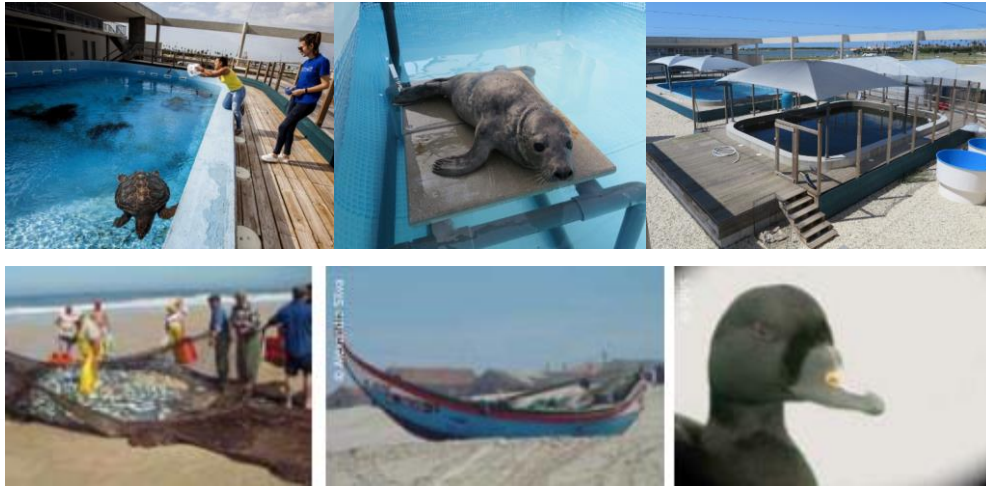


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2021-2030 Década das Nações Unidas da Ciência dos Oceanos para o Desenvolvimento Sustentável

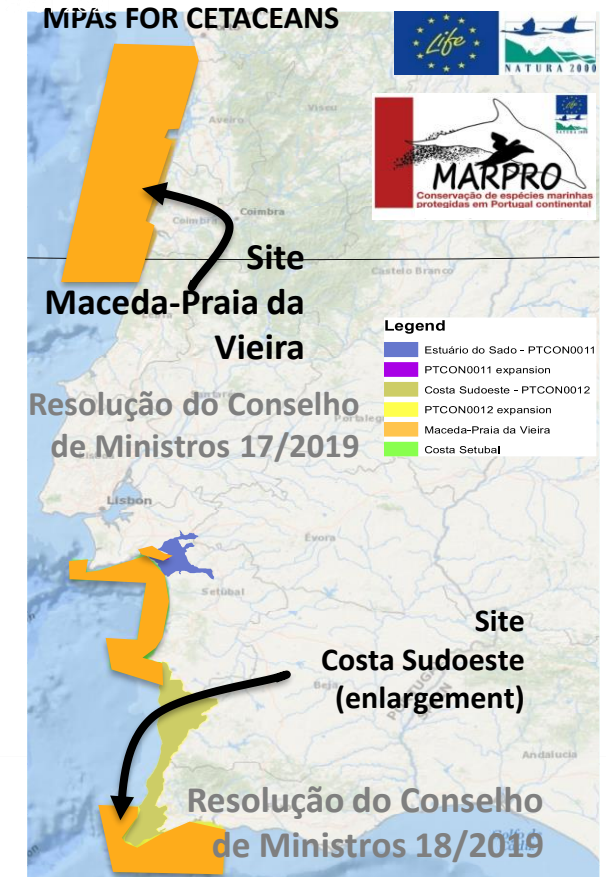
ECOMARE - SOS Marine Animals DGPM



Legislation on Marine protected areas for cetaceans and their management plans.

Management plan of the Natura 2000 Site Maceda-Praia da Vieira and Site Costa Sudoeste

Inclusion of the marine area between Maceda and Praia da Vieira (PTCON0063) in the list of National Natural 2000 Sites.



COOPERMINHO



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Concluído o projeto COOPERMINHO – Contribuição para a Gestão e Valorização de Produtos da Pesca do Rio Minho



Cooperminho

15 junho 2021

Ao longo dos últimos quatro anos, o Aquamuseu do Rio do Minho implementou o projeto piloto COOPERMINHO – Contribuição para a Gestão e Valorização de Produtos da Pesca do Rio Minho, financiado pelo Programa Operacional MAR 2020, com o objetivo de dotar a região do Vale do Minho com um modelo de organização na cadeia de comercialização dos recursos da pesca. A lampreia e o sável foram as espécies selecionadas para este projeto-piloto.

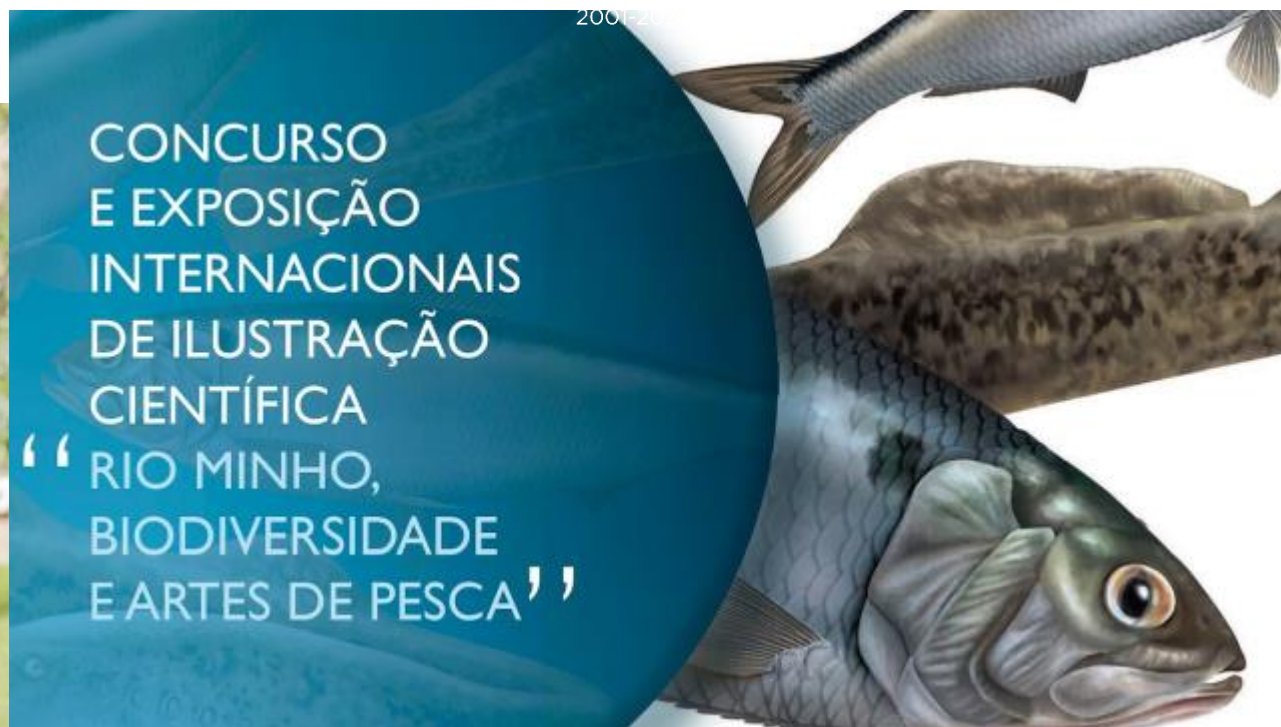
Em resultado de uma candidatura aprovada, com um investimento total de 523 mil euros, comparticipada pelo FEADER de 392 mil euros, o projeto permitiu, por um lado, garantir a proveniência do pescado ao consumidor e, paralelamente, acrescentar valor ao produto; e por outro lado, conferir uma maior consciencialização pública sobre a importância da garantia da origem em relação à sustentabilidade do recurso e à possível exportação do referido modelo a outras áreas geográficas com características semelhantes.

Das atividades realizadas, destaque para a comunicação e formação protagonizada pela Universidade de Aveiro, a elaboração de estudos de perceção do consumidor realizados pela Universidade do Porto, o acompanhamento técnico-científico do CIIMAR, a criação de uma plataforma de rastreabilidade e a criação da identidade do projeto.




24 março 2021

"Rio Minho-suas naturezas e gentes" é um livro publicado no âmbito do projeto COOPERMINHO, que tem por objetivo valorizar os produtos da pesca do rio Minho, divulgando o património natural e cultural associado ao rio Minho, com recurso à ilustração científica.



Ethnozoological knowledge of traditional fishing villages about the anadromous sea lamprey (*Petromyzon marinus*) in the Minho river, Portugal

[Heitor Oliveira Braga](#) , [Mário Jorge Pereira](#), [Fernando Morgado](#), [Amadeu M. V. M. Soares](#) & [Ulisses Miranda Azeiteiro](#)

Journal of Ethnobiology and Ethnomedicine **15**, Article number: 71 (2019) | [Cite this article](#)

1884 Accesses | **9** Citations | **1** Altmetric | [Metrics](#)



ELSEVIER




Ocean & Coastal Management

Volume 198, 1 December 2020, 105345



Capacity-building paper

The role of local ecological knowledge for the conservation and sustainable fisheries of the sea lamprey (*Petromyzon marinus* Linnaeus, 1758) in the Iberian Peninsula

[Heitor Oliveira Braga](#) ^{a, b} , [Mário Jorge Pereira](#) ^a , [Joelson Musiello-Fernandes](#) ^c , [Fernando Morgado](#) ^a , [Amadeu M.V.M. Soares](#) ^a , [Ulisses Miranda Azeiteiro](#) ^a 

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<https://doi.org/10.1016/j.ocecoaman.2020.105345>

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Aquaculture & Fisheries



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AquaMMIn - Development and validation of a modular integrated multitrophic aquaculture system for marine and brackish water species

Mar2020



NutriMo - Development and implementation of community-based aquaculture projects in developing countries in Africa

FCT - AKDN



FISHAQU - Knowledge Exchange in sustainable Fisheries management and Aquaculture in the Mediterranean region

Erasmus+ Programme



Marine pollution



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NetTag - Tagging fishing gears and enhancing on board best-practices to promote waste free fisheries

EASME - Executive Agency for SMEs



ECO-R-Pharmplast - Ecotoxicity of realistic combinations of pharmaceutical drugs and

Programa Operacional da Competitividade e Internacionalização

MARSENSE - Electrochemical biosensor for monitoring organic contaminants in marine environment

Programa Operacional Regional do Centro

MicroPlasTox - Microplastics in the marine environment: estimation and assessment of their ecotoxicological effects

Programa Operacional da Competitividade e Internacionalização

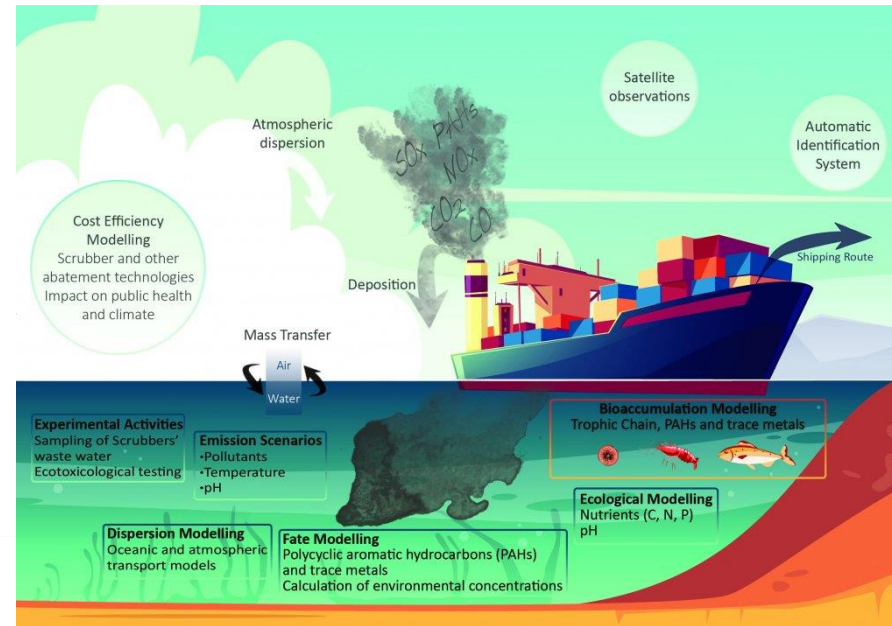
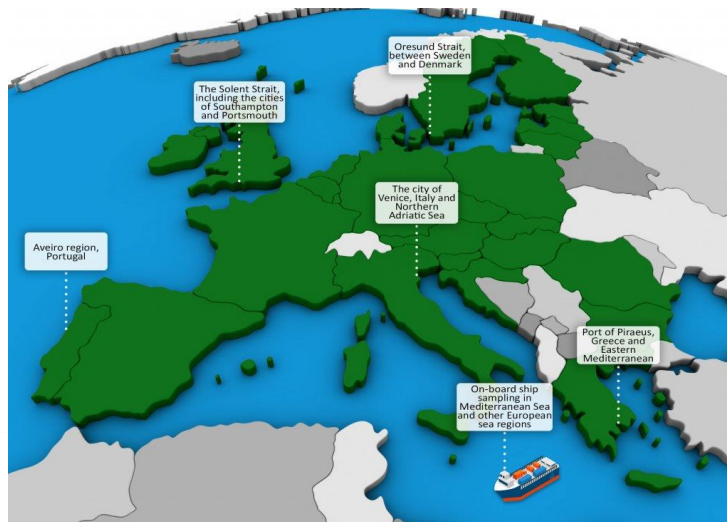


Shipping Emissions - Air Quality



EMERGE - Evaluation, control and Mitigation of the EnviRonmental impacts of shippingG Emissions

H2020



Oceanography & modelling



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MarRisk - Adaptação Costeira às alterações climáticas: conhecer os riscos e aumentar a resiliência

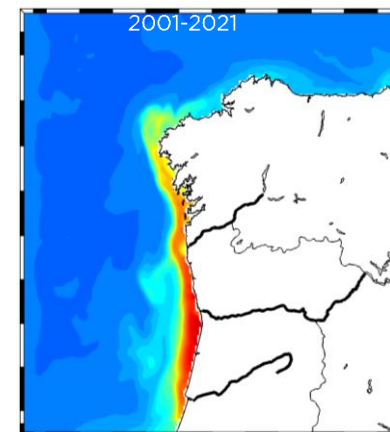
POCTEP



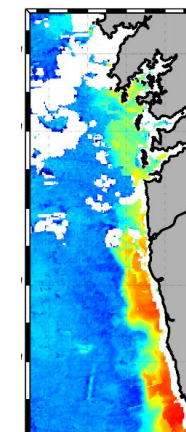
HabWave-From benthic resting stages to HAB events: understanding the role of physical-biological coupling of NW Portugal

FCT

Coastal studies

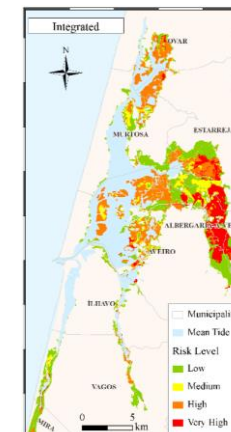


Chl-a concentration



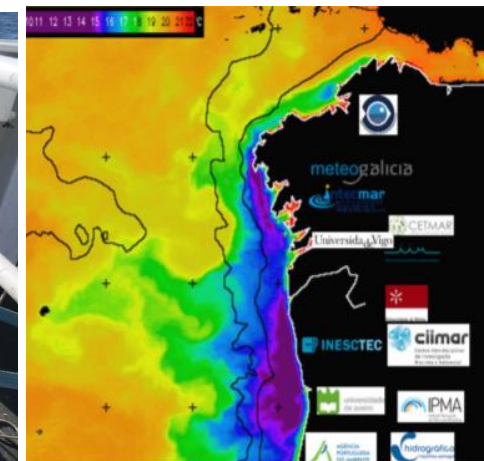
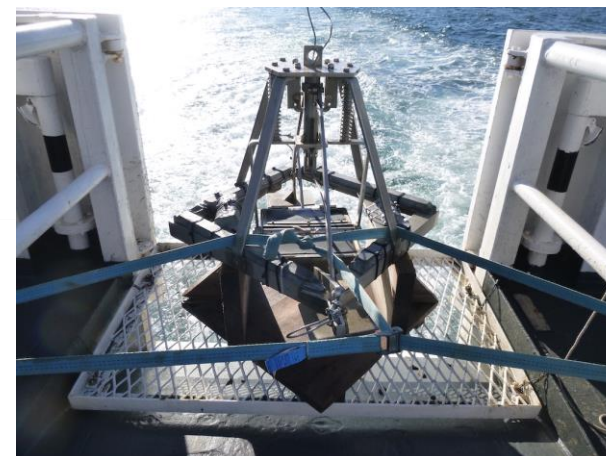
Remote sensing

Estuarine



Ria de Aveiro flooding

RAIA Marine and coastal observatory of Iberian Margin



Deep-sea



MiningImpact2 - Environmental impacts and risks of deep-sea mining

Projectos IC&DT



REDEEM - Resilience of anthozoan corals to deep-sea mining, an holobiontic approach

Programa Operacional da Competitividade e Internacionalização



HACON - Hot vents in an ice-covered ocean: the role of the Arctic as a connectivity pathway between ocean basins

FRINATEK call in the FRIPRO programme of the Research Council of Norway



Schematic of a real-time mining monitoring concept, utilizing an autonomous vehicle for seafloor and plume mapping



PRORIFT- Rifting processes and lithospheric structure at the continent-ocean transition in the South China Sea and the West Iberia margin

FCT

Advanced Training



PhD Programmes

- PhD in Marine Science, Technology and Sea Management (Do*Mar)
- PhD in Biology and Ecology of Global Changes



Portugal Regional Training Centre

Participation in the **Portugal Regional Training Centre recently** - Ocean Teacher Global Academy Call of UNESCO (IOC-UNESCO).

- 17 national institutions
- Advanced training courses on a broad range of topics in marine science
- Main target audience: Portuguese Speaking Countries
- UA will be the hosting institution for the first 2-year period.



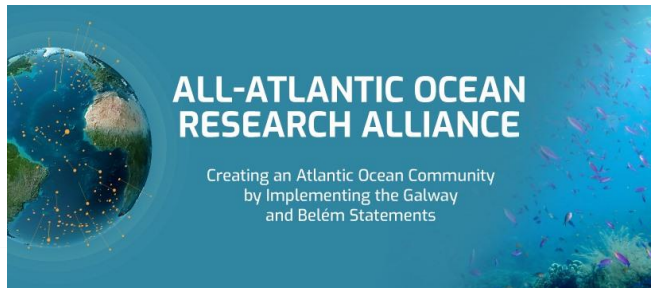
International Cooperation



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Thank you!



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AVEIRO

- ECOMARE
 - Meteorological tower
 - CESAM building
 - COBI
 - ARGUS
 - Research boat NEREIDE
 - Ria de Aveiro a natural lab
- UA Departments
Environment,
Biology, Chemistry,
Geosciences, Physics

Cofinanciado por:

