







DiadSea

Transnational cooperation to improve the management and conservation of diadromous fish at sea

EAPA_0011/2022

Stakeholders' session

Midterm meeting, 15 October 2025





DiadSea - Transnational cooperation to improve the management and conservation of diadromous fish at sea (EAPA_0011/2022)

Partnership:

- 9 Beneficiary partners (Lead Partner University of Évora)
- 28 Associated partners

Dates: November 2023 to October 2026

Total Budget:

3,4 M €





























Associated Partners



















APPRMM - Associação de Profissionais de Pesca do Rio Minho e do Mar





























CANÁRIAS



PAYS DE LA LOIRE

NORTHERN AND WESTERN

EASTERN AND MIDLAND

Associated partners





Fraternité









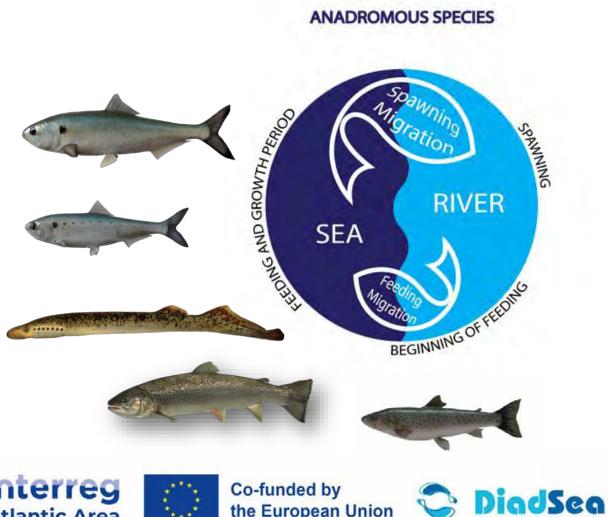








Diadromous species across the Atlantic Area targeted in DiadSea



CATADROMOUS SPECIES











Problematic and main objectives

☐ Knowledge gaps and fewer management and conservation actions directed to diadromous fish in the marine environment.

□ Diadromous fish occur along the Atlantic Area (AA) but there is a **lack of joint solutions to** mitigate common threats exacerbated by climate change.

□ DiadSea aims to foster a **transnational cooperation in the AA**, to enhance the sustainable management and conservation of diadromous fish in marine habitat.











WP1: Biological data collation

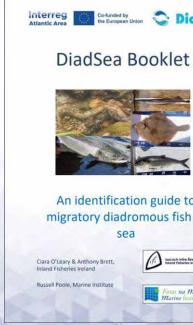


DiadSea Project:

Transnational cooperation to improve the management and conservation of diadromous fish at sea (EAPA_0011/2022)



Ciara O'Leary **Anthony Brett** Inland Fisheries Ireland





An identification guide to migratory diadromous fish at

Ciara O'Leary & Anthony Brett



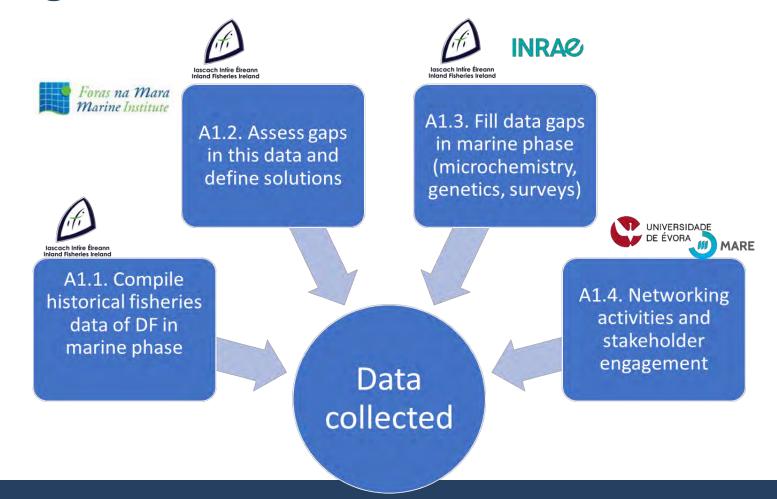








WP 1: Biological data collation









Target Species:

- Atlantic salmon
- Sea trout
- European eel
- Thin-lipped mullet
- Golden-grey mullet
- Flounder
- Allis shad
- Twaite shad
- Sea lamprey
- River lamprey
- Smelt



























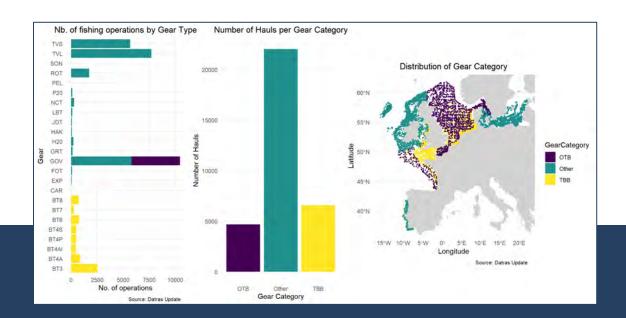
Task 1.1: Compilation of historical fisheries data [Complete]

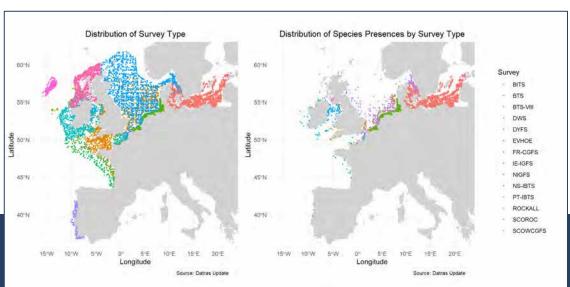
Aim of task:

- Collate and interrogate existing fisheries dependent and independent data from across the Atlantic Area (AA) (Led by IFI).
- Create a database to visualise the collated data (led by INRAE)

Outcome of collation:

- 42 data sets were collated that accounts for 468,085 fishing hauls.
- INRAE created database to visualise the collated datasets







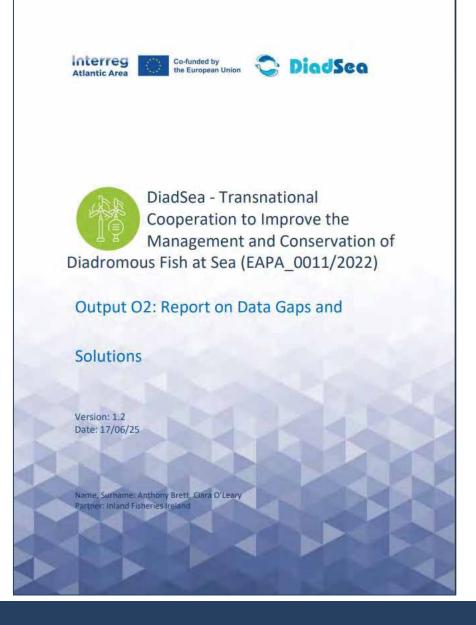


Task 1.2: Assess gaps in this data and define solutions [Complete]

O2: Data gaps report

Main results:

- Shared observations (across all countries):
 - Lack of available data sources (DF spp)
 - Misidentification of species
 - Lack of 'true' presence data
 - Predominance of bycatch data available







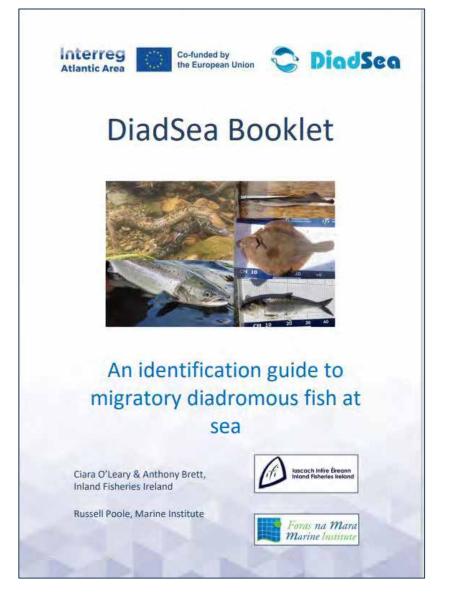
Task 1.2: Assess gaps in this data and define solutions

D3: Identification booklet (Collaboration with MI)

 DF species are underreported and regarded as bycatch in some countries – due to lack of economic importance amongst other reasons

Aims:

- To aid in accurate Diadromous Fish (DF) identification at sea
- Increase presence reporting at sea









ID Booklet:

Translated to:

- Spanish
- French
- Portuguese











5 Atlantic Salmon (Salmo salar)



Identifiable features:

- Post-smolts and adults steel-blue or silver in colour at sea/ freshly returned to freshwater
- . Colour gradually changes to dark brown after returning to freshwater
- · Streamlined shape with pointed head
- Upper jaw does not extend beyond the rear of the eye
- . Few, if any black spots found below the lateral line
- . Concave/forked tail with a slim tail wrist
- Easy to pick up by tail
- Juvenile 'Smolts' typically leave freshwater from March late May
- 'Multi-sea winter' adult fish typically return to freshwater in spring and 'grilse' from June onwards to spawn over the winter months. Post spawning adults known as 'Kelts' are encountered in freshwater during their downstream migration from winter to early spring.

Table 1. Salmon freshwater/marine presence calendar.

				Sa	lmon	(Adu	lt)				_	
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Marine phase			Marine or Freshwater				Freshwater phase					

This project is co-financed by the Interreg Atlantic Area Programme through the European Regional Development Fund.









15

16 Direct visible comparisons:

Salmon vs Sea trout



Salmon (left): Upper jaw does not extend further than the rear of the eye.

Sea trout (right): Upper jaw extends further than the rear of the eye.

European eel vs Sea lamprey:



Eel (left): Clearly developed jaw.

Sea lamprey (right): No jaw present, oral sucker disc present instead

European eel vs Conger eel:

Conger upper jaw extends beyond lower jaw. European eel lower jaw extends beyond upper jaw.

Conger dorsal fin begins just behind pectoral fin, further back on a European eel.

This project is co-financed by the Interreg Atlantic Area Programme through the European Regional Development Fund.







Task 1.3: Fill the data gaps

Aim:

To fill the data gaps using fishery independent and dependant surveys





Fishery Independent:

- eDNA surveying
- Genetic analysis of shad and sea trout
- Microchemistry analysis of shad and sea trout

Fishery Dependant:

- Angler interviews and bycatch survey
- Fish market and Harbour visits
- Online angler surveys





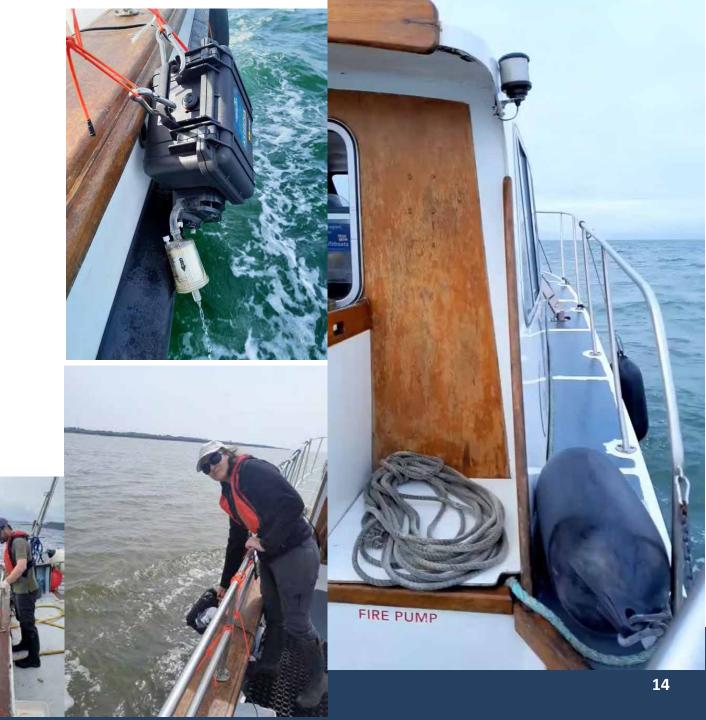






eDNA sampling:

- 4 sampling sessions in Ireland and France (respectively)
- Divided into 2 * Spring & 2 * Summer sessions
- SOP created under task 1.2
- 2 peristaltic pumps filtering water for 45 minutes per site
- Main aims:
 - Detect diadromous species
 - Assess difference in species assemblages between:
 - Location
 - o Season
 - Country
- Portugal sampling (Scheduled in Dec Jan)
 - Focus on Sea Lamprey and Shads









Preliminary results for Spring sampling: Ireland







and 2)

Youghal:

6 spp detected

- Anguilla sp. (sites 1 and 2)
- Alosa sp. (sites 1 and 2)
- Chelon ramada (site 2)
- Salmo sp. (sites 1 and 2)
- Lampetra sp. (site 2)
- Petromyzontidae (site 2)

Waterford:

8 spp detected

- Anguilla sp. (sites 1 and 2)
- Alosa sp. (sites 1 and 2)
- Chelon ramada (sites 1 and 2) Petromyzontidae (site 2)
- Osmerus eperleanus (sites 1

- Salmo salar (site 1),
- Salmo sp. (sites 1 and 2)
- Lampetra sp. (site 1)







Preliminary results for Spring sampling: France

Mont–Saint-Michel Bay:

3 spp detected

- Anguilla sp. (site 1)
- Chelon ramada (sites 1 and 2)
- Salmo sp. (sites 1 and 2)

Gironde Estuary:

2 spp detected

- Alosa sp. (sites 1 and 2)
- Chelon ramada (sites 1 and 2)













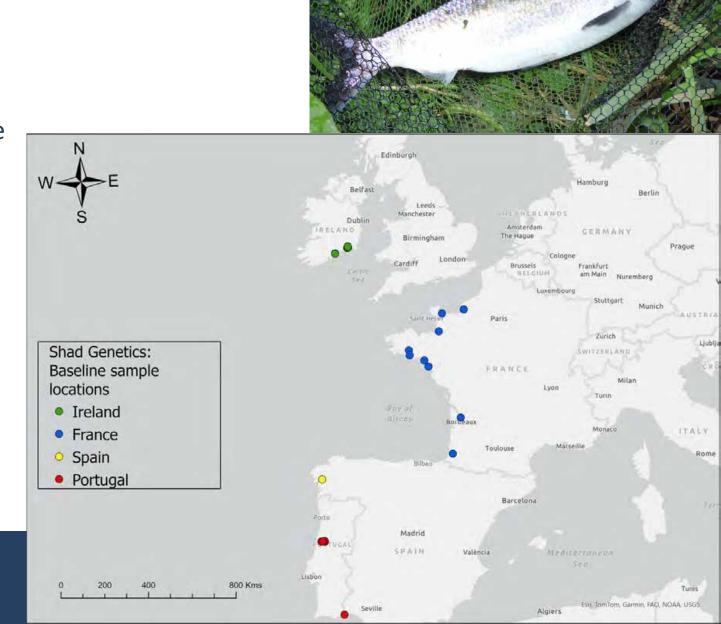
1.3 Genetic analysis: Shad

Aims:

- To build on DiadES data by sampling marine caught Shad
- Create genetic database
- Assess area of origin for marine shad in the Atlantic Area

Update:

- Samples have been collected and sent to INRAE (France)
- Samples are being processed









1.3 Genetic analysis: Sea trout

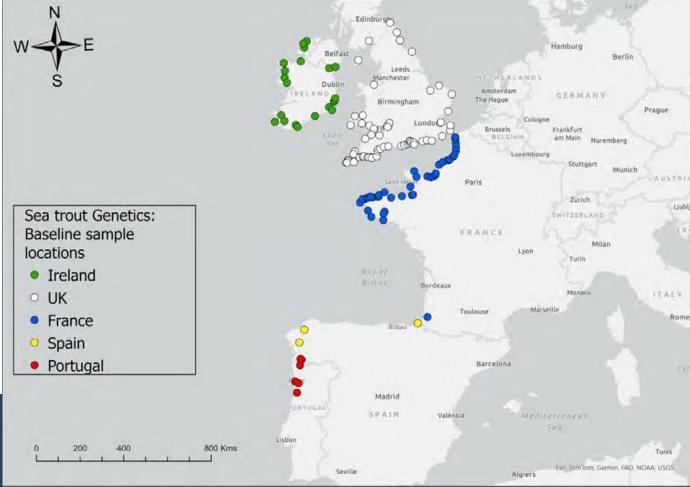
Aims:

- Create genetic database Sea trout
- Identify genetic area of origin for sea trout adults

Update:

- University College Cork contracted to undertake the genetic analysis
- Samples have been collected and sent to University College Cork (Ireland) and INRAE (France)
 - Aligning analysis with SAMARCH project
- Samples are being processed









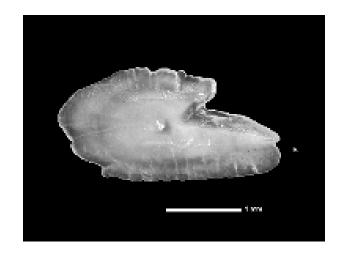
1.3 Microchemistry analysis: Shad and Sea trout

Aims:

- Use Shad otoliths to build on work undertaken in DiadES (identify marine habitat use at sea)
- Use Sea Trout otoliths to investigate natal origin across the Atlantic area
 - Samples will be referenced against previously created baselines

Updates:

- Majority of samples have been sent to INRAE
- Remaining samples being prepared for shipping
- Samples are being prepared for analysis



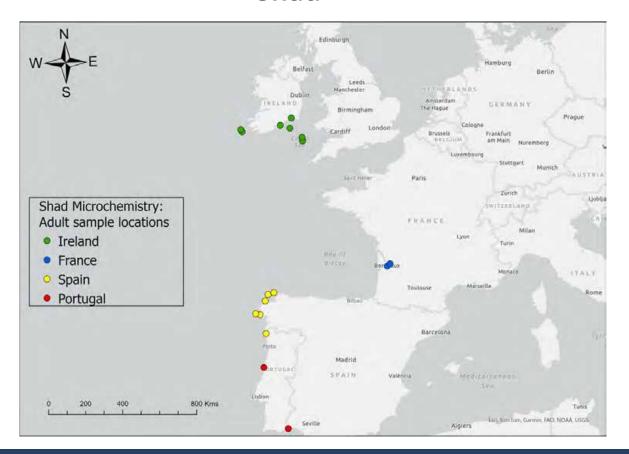




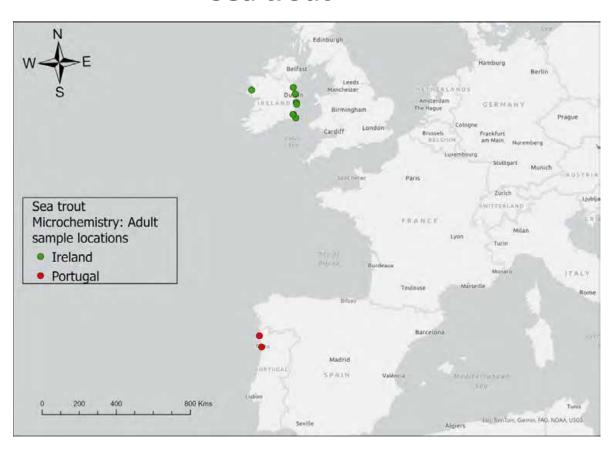


Adult marine sample locations:

Shad



Sea trout











1.3 Fishery dependant surveys:

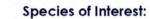
- Fish market/ auction visits
- Harbour visits
- Distribution of ID booklets
- Angler surveys
- Online surveys (Ireland)
 - Angling experience (Shad and Sea Trout)
 - Diadromous bycatch



















WP1 Update:





Thank you for listening!

Contact details:

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Ciara O'Leary **Anthony Brett**

WP1 Collaborators and contributors to WP1:

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- Russell Poole
- Sara Jane Moore
- Clair Moore
- Dave Stokes
- Dave Currie
- Clarisse Boulenger

Sophie Launey

- Francoise Daverat
- Gaspard Dubost
- Laurent Beaulaton
- Patrick Lambert
- Anaïs Janc
- Géraldine Lassalle
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- Alexandre Carpentier
- Fernando Cobo
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- Barbara Serra Pereira
- Rory Feeney







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WP2

Innovative Methods to fill Gaps in Data-poor Species







WP2 objectives

This WP will focus on assessing novel methodological approaches targeting data poor DF to obtain information on the marine life stage of their life cycles.

Start date	End date	Duration	Partners involved in WP2
November 2023	October 2026	36 months	FCUL (lead), UÉvora, IPMA, MNHN, INRAE, MI, USC













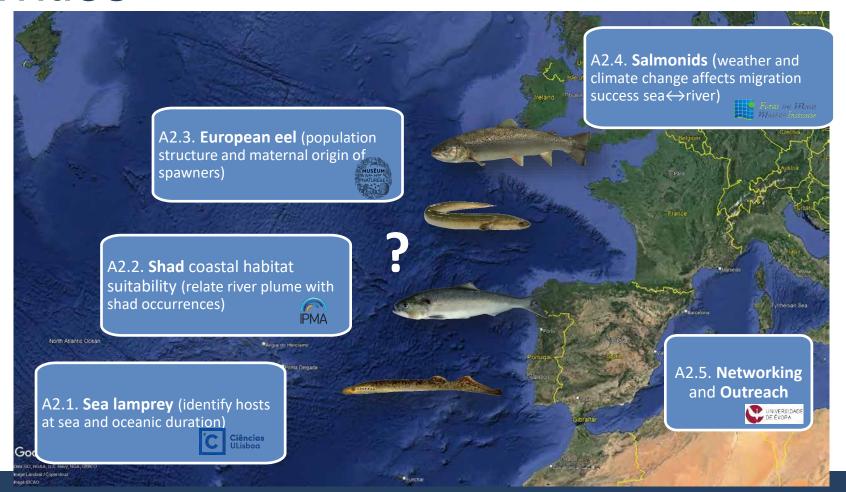








WP2 activities









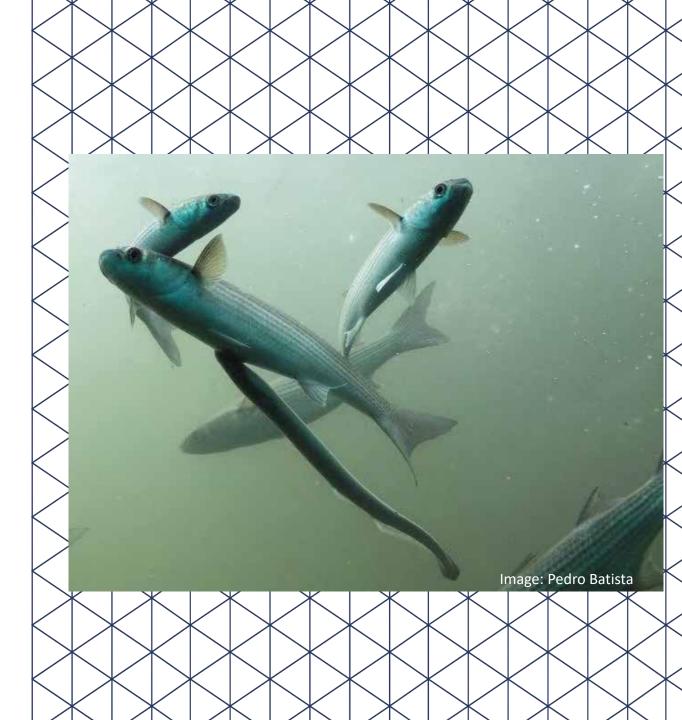


A2.1. Unravelling Sea lamprey ecology at sea with DNA metabarcoding and tagging













A2.1 - Unravelling **Sea lamprey** ecology at sea with DNA metabarcoding and tagging (FCUL; Uévora; USC)

The <u>aim</u> is to obtain information (main hosts and oceanic phase duration) on the sea lamprey parasitic phase at sea.

The activity is focused on Portugal and Spain, and the following two tasks are being implemented:

Identification of hosts with DNA metabarcoding gut contents analysis of lampreys;

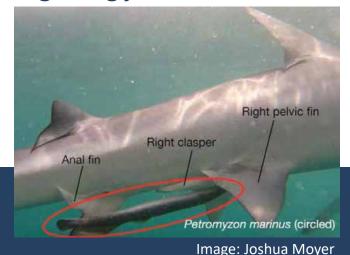
• PIT tagging downstream migrating juveniles to assess the duration of the parasitic phase at sea

(rivers Mondego, Vouga, Ulla);

• ~50% concluded:

o210 gut samples!

o512 juveniles tagged!









A2.1 Outputs and Deliverables

- No output/deliverable produced yet but on schedule!
 - Deliverable 8 Short progress report on sea lamprey ecology data collection to be presented in November 2025;
 - Output 5 Advisory report with recommendations for sea lamprey management to be completed by October 2026;
 - Deliverable 6 Open access scientific publications identification of sea lamprey hosts at sea to be submitted by the end of 2026.









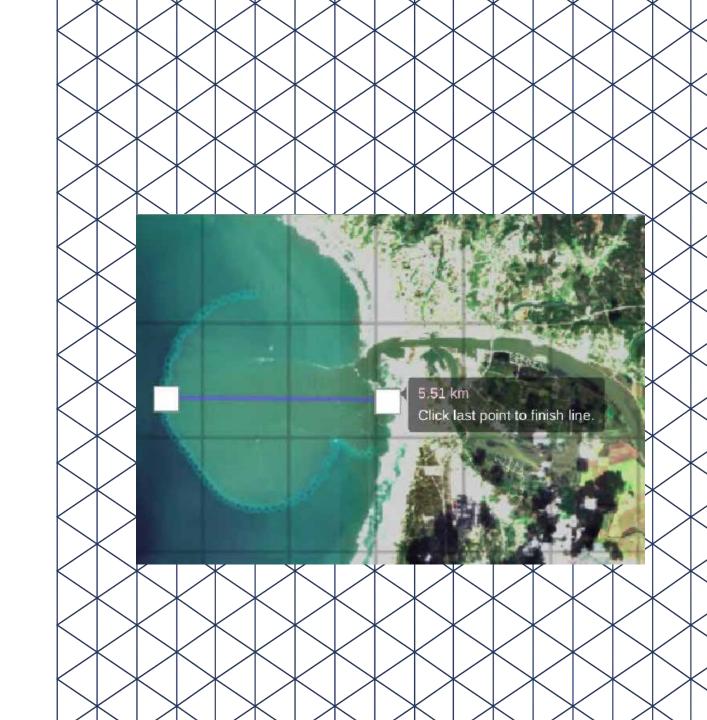
A2.2. Mapping shad coastal habitat suitability in the NW Iberian Peninsula with innovative environmental variables















A2.2 - Mapping shad coastal habitat suitability in the NW Iberian Peninsula with innovative environmental variables (IPMA; Uévora; FCUL; USC)

The <u>aim</u> is to use innovative environmental variables (turbid plumes estimated from remote sensing data, model outputs and field observations – shad capture data) to describe the fine-scale coastal distribution of allis shad;

The following four tasks ongoing:

- Characterize the spatio-temporal dynamics of the Mondego river (Portugal) plume (satellite images);
- Describe the vertical profile of the Mondego river plume in the coastal area with oceanographic data collected during routine fishing operations (in situ sensors);
- Assess the influence of the river plume in the habitat preferences and spatial distribution of shads at sea;
- Estimate the temporal variation (seasonal and interannual) in coastal habitat suitability for shads (modelling);
- ~60% concluded
 - An additional season to collect information is being prepared







Activity A2.2: Outputs and Deliverables

- No output/deliverable produced yet but on schedule!
 - Output 6: Seasonal climatological maps of NW Iberia coastal habitat suitability for shad Maps produced during 2026
 - Deliverable 6: Statistical relationship between shad presence/absence and plume describing variables Scientific publication on shad habitat suitability to be produced in 2026
 - Project Deliverable 9: Establish contact, present and discuss activity and results with colleagues from PT and ES during the International Minho Symposia of 2023 and 2025 (2023 event already delivered, remaining in Nov 2025, as planned)







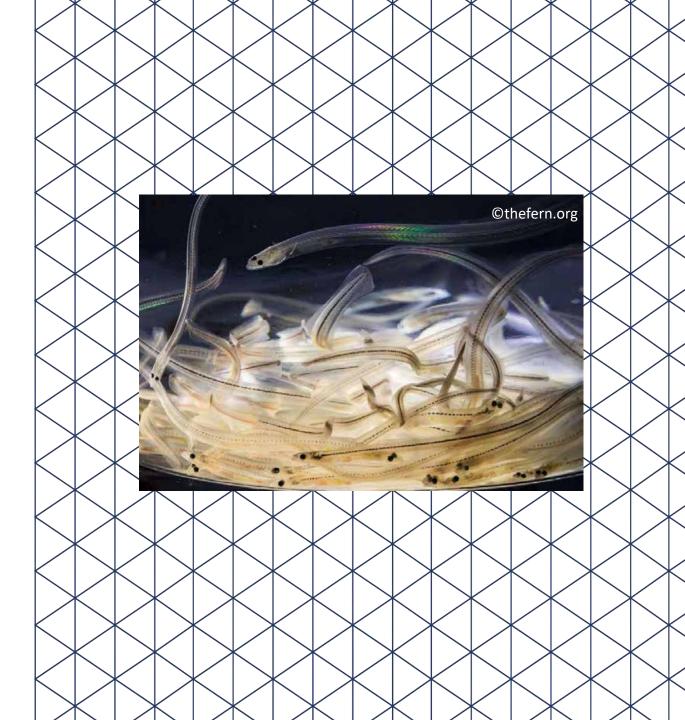
A2.3. Progressing on marine migration larvae of European eel, maternal origin of spawners and the panmixia hypothesis

















A2.3 - Progressing on marine migration larvae of European eel, maternal origin of spawners and the panmixia hypothesis (MNHN; INRAE)

The <u>aim</u> is to assess the maternal origin and oceanographic migration routes of glass eels captured along the AA, and to identify the degree of population organization of the European eel;

The following two tasks are ongoing:

- Inferring the maternal habitat origin of European eels from otolith microchemistry;
- Genetic population structure of the European eel: panmixing or not, what is the degree of population or sub-population organization?
- ~60% concluded
 - o~300 otoliths from glass eels collected for microchemical analysis
 - o1200 individual genetic sequencing completed ongoing data analysis;









Activity A2.3: Outputs and Deliverables

- No output/deliverable produced yet but on schedule!
 - Output 7 Advisory report with recommendations about habitat and sub-population management targets for glass eels – delivered during 2026
 - o **Deliverable 6** Open-access scientific publications The deliverables for this activity are three scientific publications with baseline information for recommendations to European eel population management (to be submitted by the end of 2026):
 - Paper 1 will provide new insights on the migration routes of European larvae;
 - Paper 2 will explore the question of the maternal origin of glass eels caught along the Atlantic Arc;
 - Paper 3 will progress in understanding the genetic structure of the eel population thus challenging the Panmixia hypothesis.





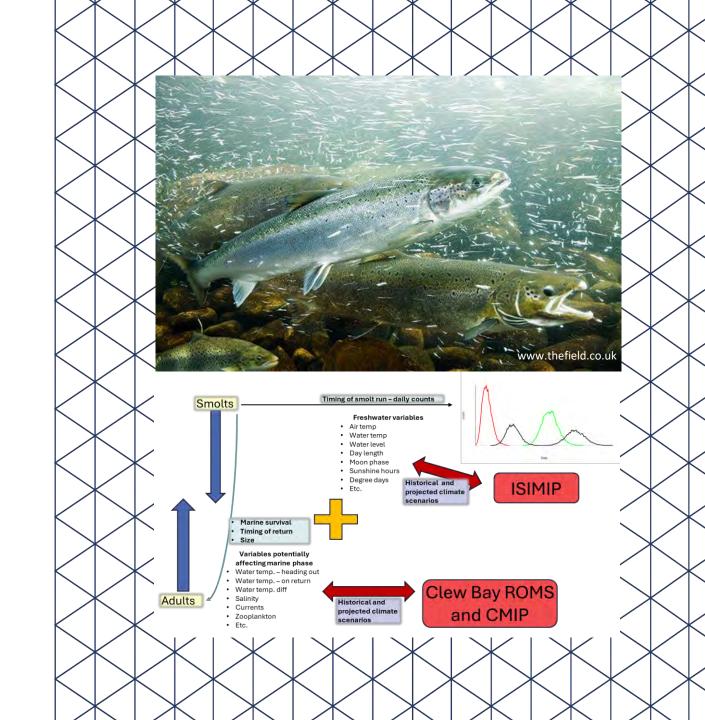




A2.4. Dynamic Salmonid Ocean Climate Modelling



INRAe







A2.4 - Dynamic Salmonid Ocean Climate Modelling (MI; INRAE)

The <u>aim</u> is to examine how local weather and the changing global climate may influence the annual success of migrating sea trout and Atlantic salmon, particularly during the transition phase from freshwater to the sea and back.

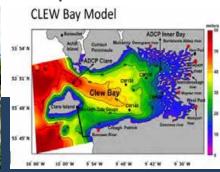
The following two tasks are ongoing:

• Freshwater - examine the long-term census datasets collected for salmon and sea trout leaving and returning to the Burrishoole River (Ireland) along with the environmental conditions and 2 French rivers as a comparison;

• Marine - hydrographic model for the Clew Bay area (Ireland) to examine sea conditions pre- and

during the smolt run and post-smolt periods

• ~40-50% concluded;

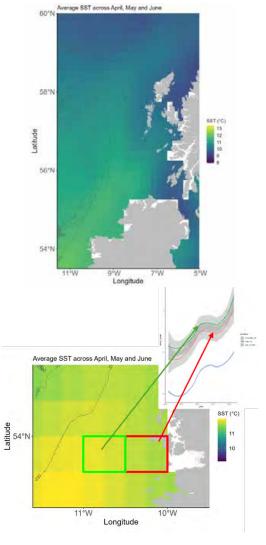






Activity A2.4: Outputs and Deliverables

- No output/deliverable produced yet but on schedule!
 - Output 8 Forecast model of fish dynamics and ocean climate change for sea trout and Atlantic salmon.
 - Deliverable 10 Analysis reports and projections composed by:
 - Report on variability of salmon and sea trout migrations to and from the sea;
 - o Report on factors influencing DF performance in the sea;
 - Report on forecast projections on the possible future for salmon and sea trout under different ocean/climate scenarios.







A2.5 - Networking activities and stakeholder's support engagement (Uévora + all partners)

- This activity <u>aims</u> to engage external entities and to share and transfer knowledge coming from the pilot action activities;
- Output 4 Thematic digital poster infographics targeting DF stakeholders (e.g., commercial and recreational fishers, general public including the younger);
- Deliverable 7 Report on communication and network actions.









WP2

Thank you for your attention!

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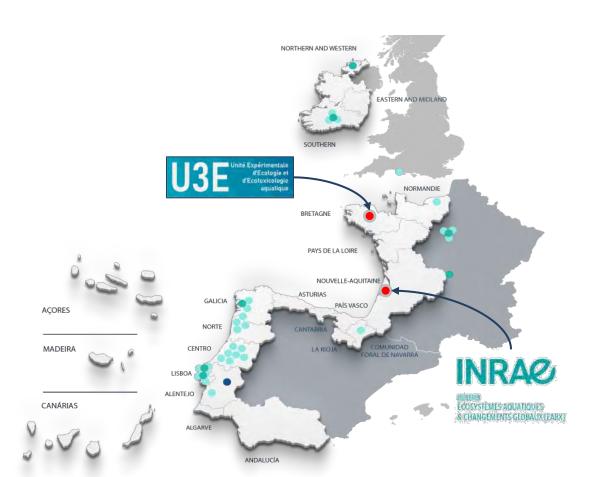
WP3: Assessment of priority areas for conservation



Gaspard Dubost, Clarisse Boulenger, Laurent Beaulaton, Sophie Elliott, Patrick Lambert, Anaïs Janc, Géraldine Lassalle









INRAE - National Research Institute for Agriculture, Food and Environment:

- U3E : Experimental Unit for Aquatic Ecology & Ecotoxicology (Rennes)
- EABX : Aquatic Ecosystems and global changes (Cestas)

Partners involved:































- →Anticipate distribution range shifts of DF due to climate and oceanographic changes
- 3.1 Diadromous species marine distribution models for baseline and future climate change scenarios
- 3.2 Identification of areas with higher turnover for diadromous species in marine areas under climate change scenarios
- 3.3 Vulnerability and opportunities assessment for the species of interest
- 3.4 Identification of important areas to ensure longitudinal (sea-river interface) and latitudinal connectivity through time
- 3.5 Improving the Interactive Web Atlas with current and future distributions of diadromous species at sea.





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Data from WP1: Biological data collation



- Scientific Surveys, Fisheries dependant data & Landing data
- Availability of Length, Gear & Absence Data
- Spatial & Temporal Scale & Range

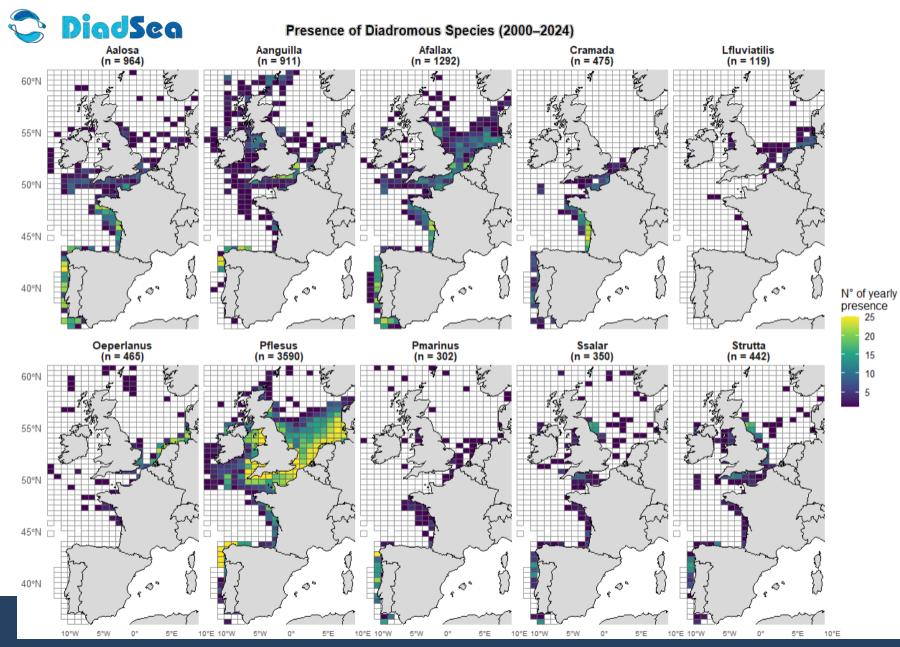






Compiled Database

- 2000-2024
- ICES Rectangles Scale
- Annual Precision







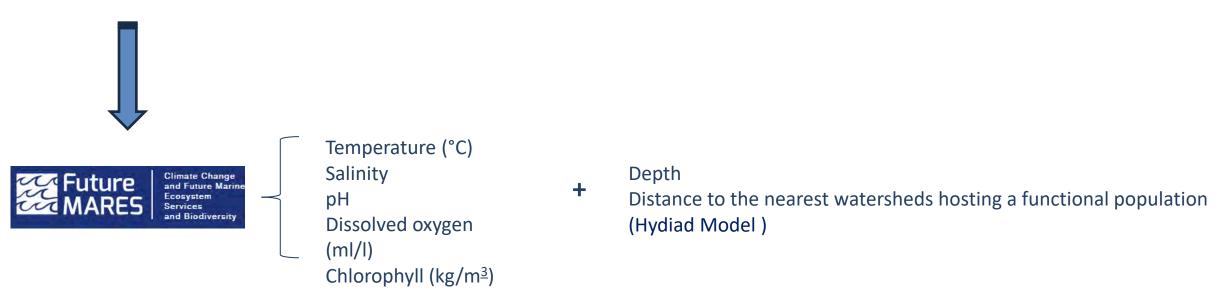


Marine Variable





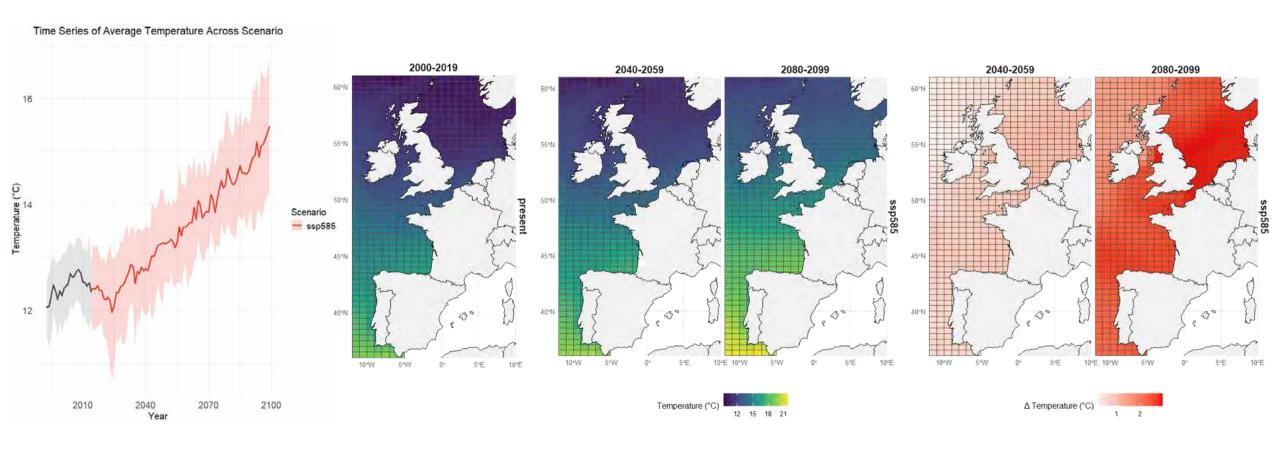
- Spatial coverage of the study area
- Temporal coverage of the present, middle and end of the 21st century
- Integration of SSP (Shared Socio-economic Pathways) climate scenarios 2-4.5 (Middle of the road) & 5-8.5 (Fossil-fueled development)

















Minimum distance to nearest viable population for Aalosa

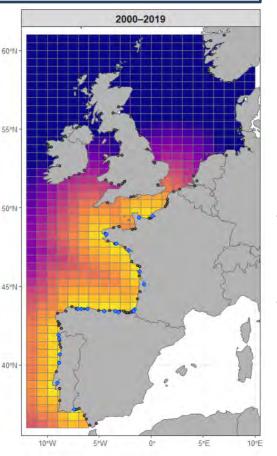
A. alosa

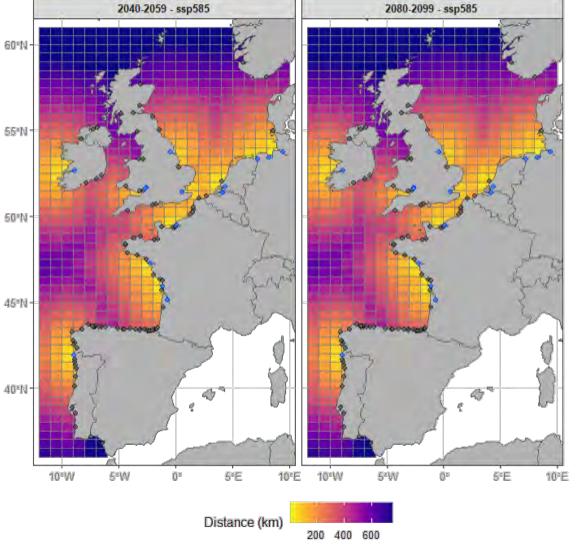
Blue = viable population; Black = not viable

Distance to nearest watershed hosting a functional population

Habitat Suitability Index (HSI) From HyDiaD Model





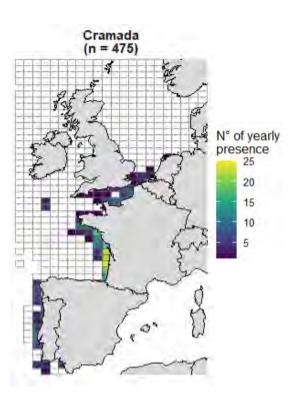




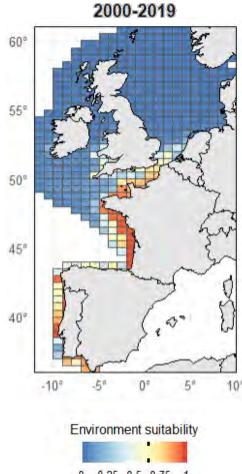


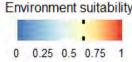






+ Temperature + Salinity + Chlorophyll + Depth =







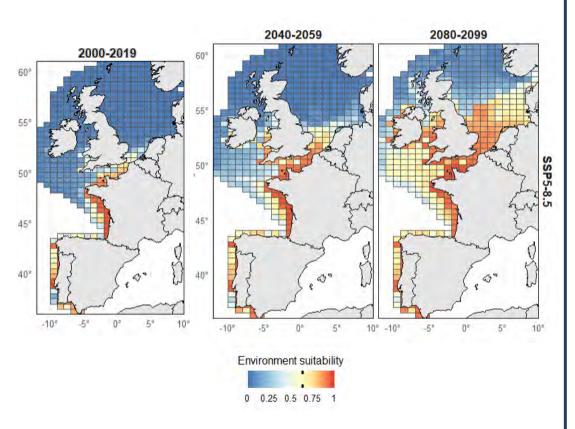


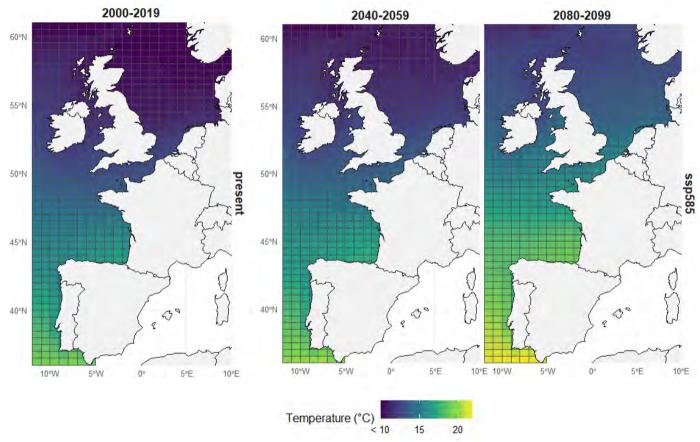


Activities 3.1



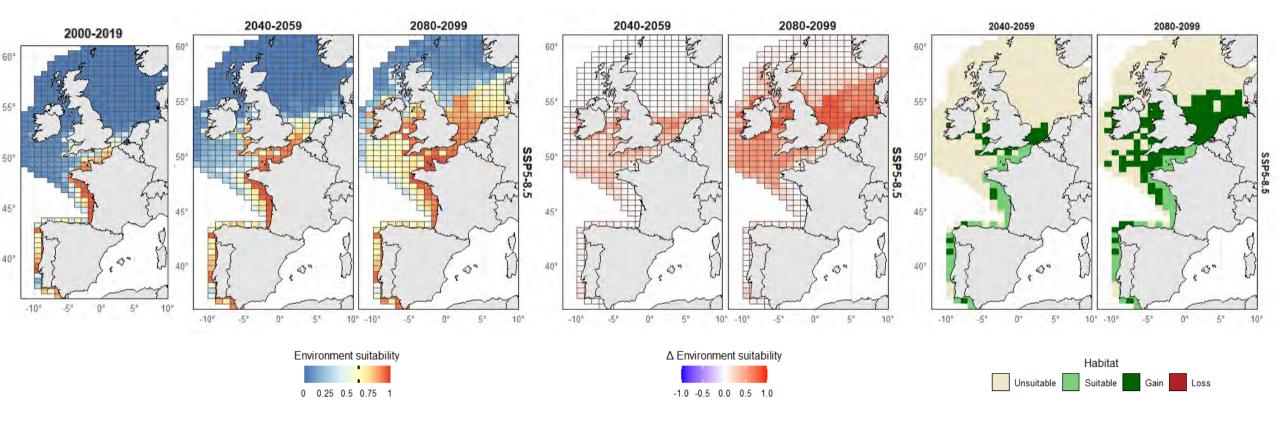






TindSea Activities 3.1



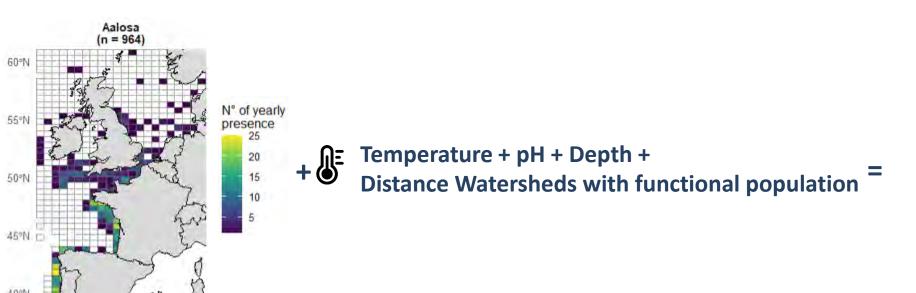


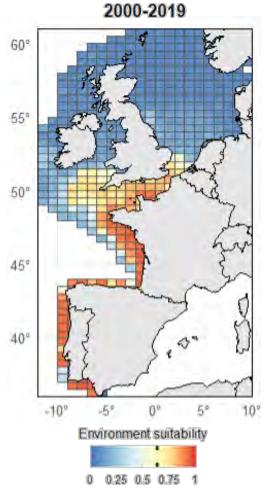














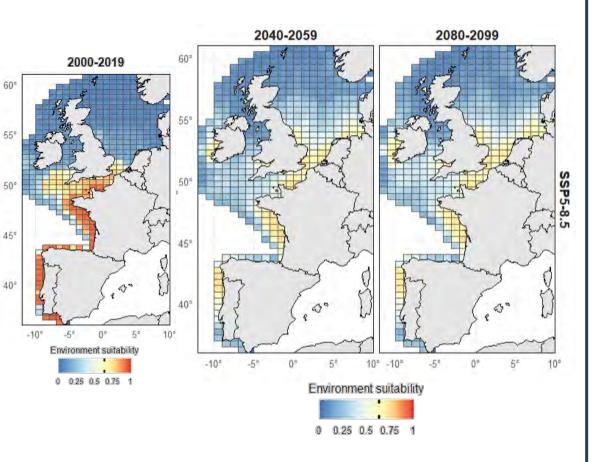


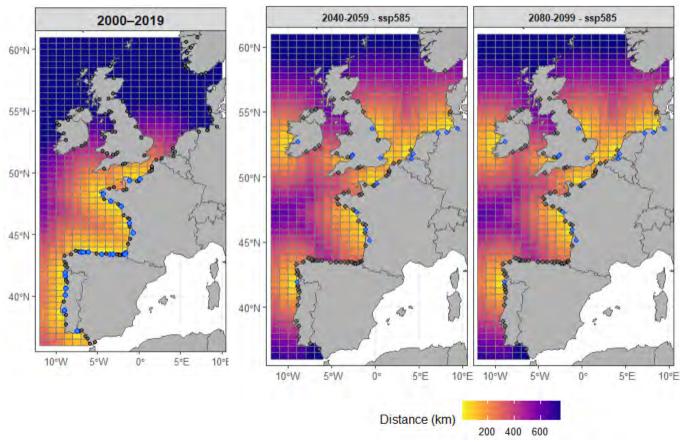


Activities 3.1







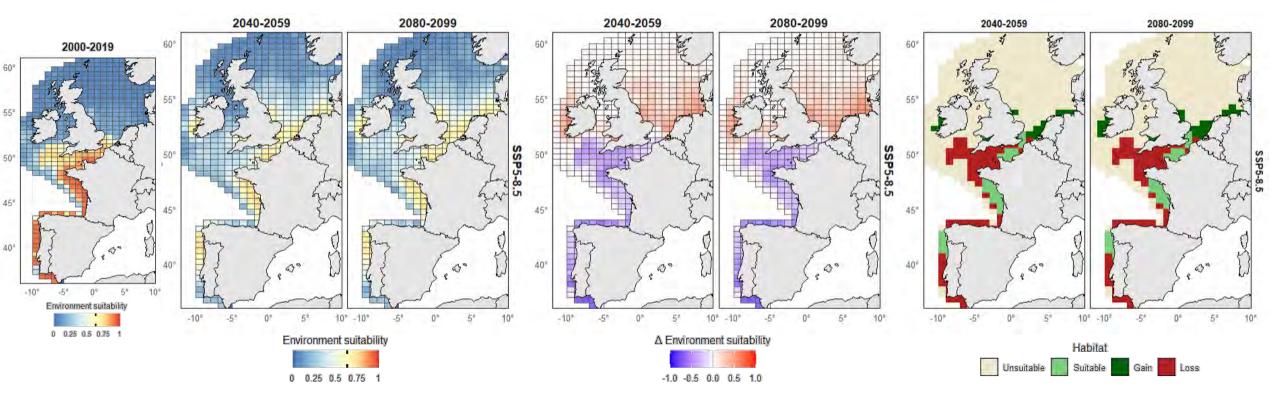
















Next Steps





Analysing the ecological relevance of the results

Identification of:

- Areas with higher turnover
- **Areas** critical for ensuring **longitudinal** (sea-river interface) and **latitudinal connectivity** under climate change scenarios
- Species vulnerability and opportunity assessments







WP3: Assessment of priority areas for conservation



Thank you for your attention

Gaspard Dubost, Clarisse Boulenger, Laurent Beaulaton, Sophie Elliott, Patrick Lambert, Anaïs Janc, Géraldine Lassalle





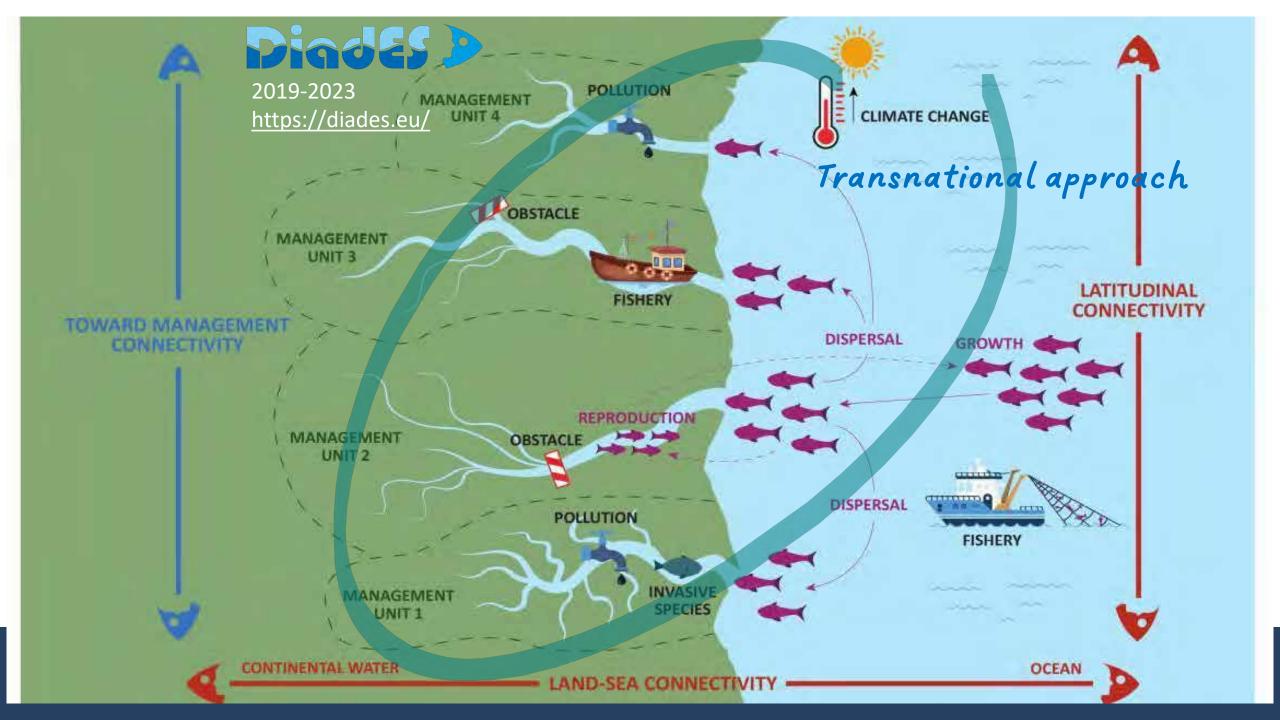


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WP4 - Transnational management of diadromous fishes











WP4 - Transnational management of diadromous fishes

Focus on transnational approaches for the management of diadromous fishes, under climate change, to efficiently mitigate threats, which are common throughout DF distribution range in the Atlantic Area.









































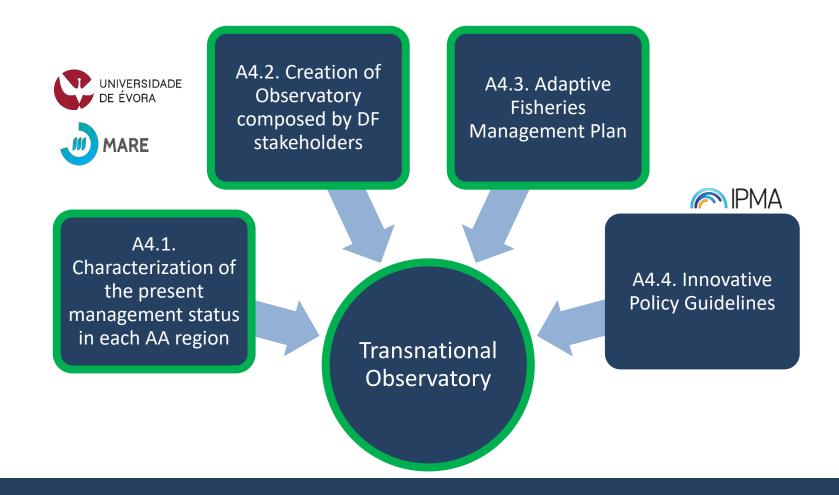








WP4 Transnational management of diadromous fishes









Report on the current legislation and practices in the management of diadromous fish in the Atlantic Area

Global

A non-binding international legal framework that influences national frameworks (CBD, CITES, CMS...

European

Regulatory/normative framework (e.g., MSFD, WFD, CFP) and more specific ones (e.g., eel regulation)

National

General guidelines on fisheries/aquaculture, national implementation of the eel regulation, absence of National Restoration Plans

Regional

Territorialized public policies, basin = legislation







A4.1. Characterization of the present management status in each AA region









DiadSea - Transnational Cooperation to Improve the Management and Conservation of Diadromous Fish at Sea (EAPA_0011/2022)

Deliverable D14

Report of the Current Legislation and Common Management Practices in the AA Region







Transnational Observatory

Objectives

- Shared international platform for cooperation in managing and conserving DF species between rivers and the sea
- Promote an integrated and coordinated European approach to the ecological and socio-economic sustainability of DF
- Facilitate information exchange
- Identify emerging threats and trends

A4.2. National Work
Group with DF
stakeholders

A4.3. Elected
National
Representatives
from 4 Countries

Transnational Observatory







Launch Transnational Observatory

27 representatives from main **stakeholders** of DF management from the member states

- Fishermen
- Managers
- Scientists
- Intermediaries
- Journalists
- Local authorities



Faculty of Sciences of the University of Lisbon (FCUL) on the 25th of June 2025







Transnational Observatory

- Platform for **information exchange** among international stakeholders;
- Assessment of common challenges and differences between countries;
- Identification of major marine threats and future fisheries trends;
- Support for coordination and joint strategies for sustainable management.









Activity 4.4. Creation of innovative policy guidelines to strengthen DF management in AA

Objectives

Compile and synthesize co-produced knowledge gathered from Observatory meetings and previous project activities to inform policy

Integrate transnational, multi-scale and participatory approaches to develop innovative guidelines that consider climate change scenarios













Focus

- Integration of climate change considerations
- Co-management and stakeholder involvement
- Legislative and financial support needed
- Social and cultural values of diadromous fish

What is the current situation in each AA region?

How to implement joint strategies to optimise management and foster cross-border cooperation?









Activity 4.4. Creation of innovative policy guidelines to strengthen DF management in AA

DiadSea - Transnational Cooperation to Improve the Management and Conservation of Diadromous Fish at Sea (EAPA_0011/2022)

4.4 Policy guidelines to strengthen DF management in AA

Draft
Date 08/10/2025









Joana Boavida-Portugal, Elisabeth Julien, Inês Oliveira, Ana Filipa Belo, Catarina Mateus, Pedro R. Almeida









WP5 - Tools for Capacitation and Capitalization towards DF Sustainability.

Rufino Vieira, Alberto Gutiérrez, Sandra Barca, Fernando Cobo (USC)





WP5 Objectives

This WP focuses on ensuring the delivery of long-term benefits for DF species management and conservation through the implementation of a capitalization strategy involving all partners (beneficiaries and associates) as well as other stakeholders.

The strategy is based on two main outcomes: the creation of an integrated seal/label of origin system and the development of a card game and a comic book addressing DF issues in Europe.



























WP5 Overview

ACTIVITY	LEADER
5.1 Creation of a transnational and integrated label/seal of origin system.	UÉvora
5.2 Production of a card game and a comic book on DF problematic in Europe.	LOGRAMI
5.3 Networking activities and stakeholder's support engagement.	USC







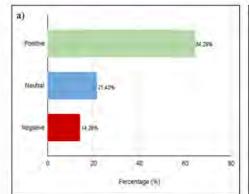




A5.1) Creation of a transnational and integrated label of origin system

<u>Label of origin</u> [In progress] 379 shads have been marked. A survey shows overall good opinion from 14 stakeholders.





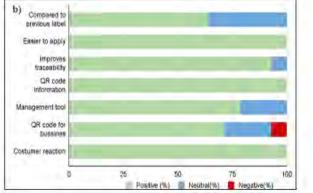


Figure 7. Stakeholder evaluation of the label of origin system. (a) Overall stakeholder sentiment toward the label. (b) Perceptions regarding specific features such as ease of application, traceability, and QR code utility. The majority of responses were positive, particularly for attributes related to usability and transparency, while commercial integration of the QR code received more mixed feedback.













A5.2) Production of game tools and a comic book on diadromous species problematic in

Europe

<u>Comic book</u> [In progress] Outreach for young generations. Expected to be ready (in color) in English, French, Spanish, and Portuguese by late 2025.























DiadSea Thisp: Occare LGRAMI

A5.2) Production of game tools and a comic book on diadromous species problematic

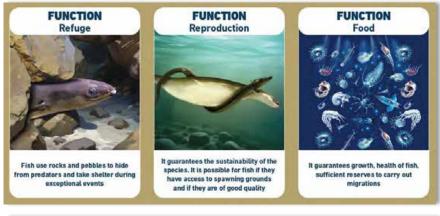
in Europe

Card game [Finished]

- 4 types of cards: species, function, trump, and trap (55 in total).
- Objective: To create 3 vital functions for these species while mitigating their problems.
- For 2 people, around 15 minutes.













A migratory form of brown treut. Goes to sea to feed and grow in coastal waters . Returns to lay eggs in its native river after 1 to 3 years at sea



Breeds at sea and grows in rivers and estuaries. They live in schools and feed on detritus, micro-algae and small organisms.































A5.3) Networking activities and stakeholder's support engagement

 We have had face-to-face meetings with fishermen associations from 25 towns, mainly involving biologists, managers and fishermen, asking them to provide information about diadromous fish and their knowledge, and offering them outreach activities.





















- Outreach activities to the general public.
- To carry out a survey about fishermen knowledge on diadromous fish (in progress).
- Script for a short outreach **video** on diadromous fish at sea (in progress).



















Next steps

A5.3. Transference to stakeholders:

- To deliver cards to NGOs, fishermen, local government agents (Galicia, Asturias, Cantabria, Basque Country and Navarra), and other stakeholders.
- To promote the celebration of World Fish Migration Day in May 2026.
- To organize a **discussion forum** on DF in congresses (*e.g.* Symposia on Minho Basin, Galician Association of Water Researchers, etc.).
- To give lectures (both online and face-to-face) in secondary schools.
- Label of origin to be implemented in other species and areas.













Thank you for your attention

Rufino Vieira-Lanero, Alberto Gutiérrez-Barral, Sandra Barca-Bravo, Fernando Cobo, USC.







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UN Ocean Decade Endorses DiadSea Project for Sustainable Fisheries

DiadSea has been officially endorsed by the UN Ocean Decade.

This important recognition comes under the programme "Fisheries Strategies for Changing Oceans and Resilient Ecosystems by 2030 - FishSCORE 2030".







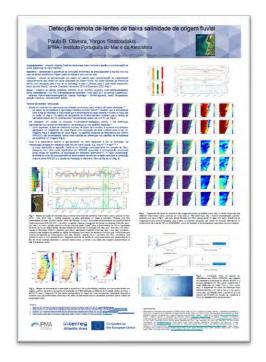


☐ Participation in the several symposia and meetings.









Catarina Mateus

#DiadSea at the XI River Minho Symposium. @ipma_pt partner presents foreseen activities. @AtlanticArea @univdeevora @MARE_centre



▲ Joana Portugal and 3 others

3:50 PM · Nov 17, 2023 · 413 Views





- ☐ Floor game developed by UÉvora/MARE
- ☐ Card game developed by Logrami.
- ☐ Comic Book developed by FCUL.















☐ Media publications about the project DiadSea, or where the project is mentioned.













A Comunidade Intermunicipal da Região de Coimbra (CIMRC) aprovou hoje uma posição

em que recomenda a interdição da pesca de lampreia a nível nacional e uma

intensificação da fiscalização, face à escassez deste peixe nos rios portugueses.





DiadSea





