

Market Advisory Council – 6 June 2025

Fish-X Project

Providing a European Fisheries Data Space
Through a Consultative Approach

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WWF EPO

| EU-project no.: 101060879

<https://fish-x.eu>



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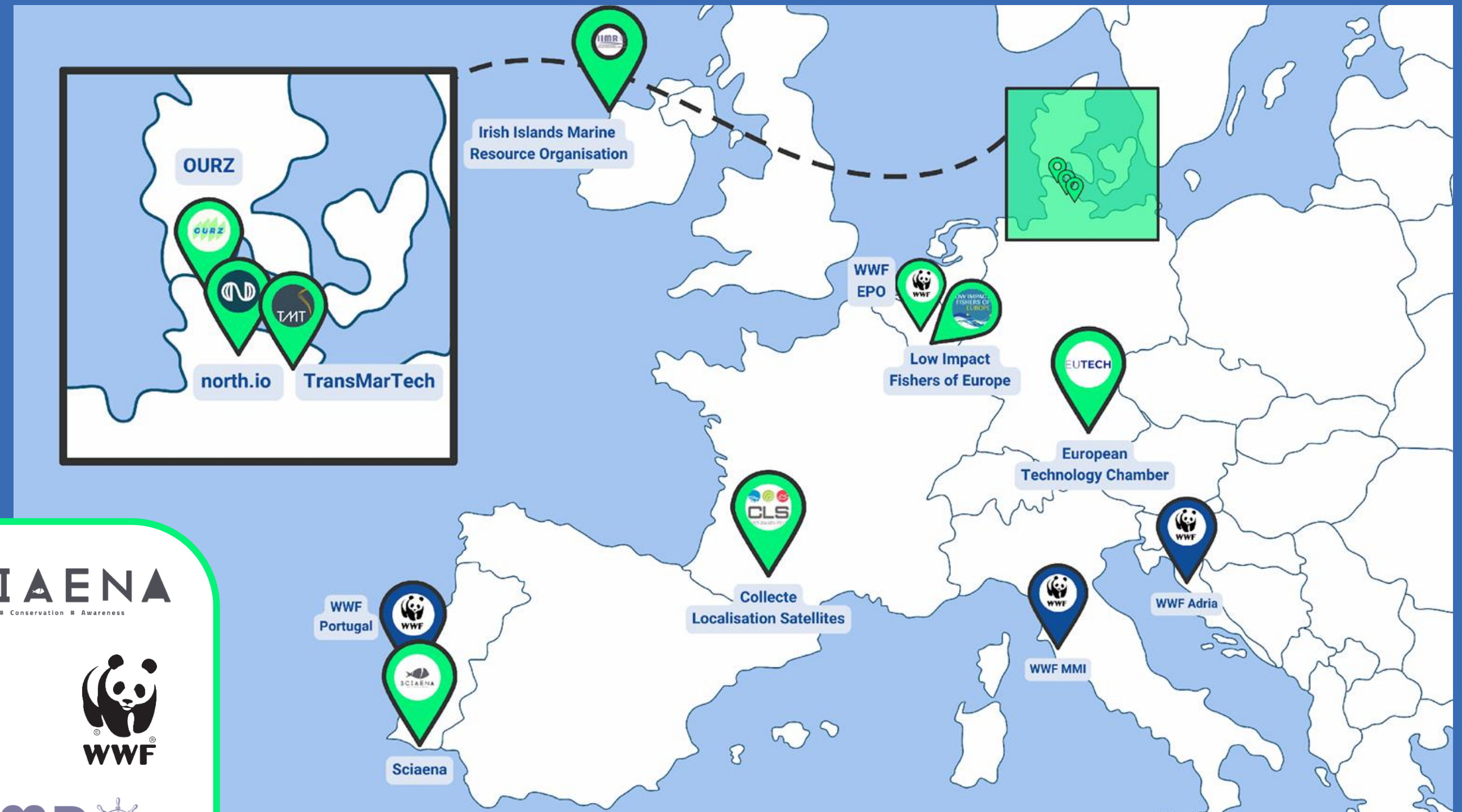
Fish-X at a glance



June 2022 – May 2025
(36 months)



€6 Million
EU-Funding: €4.5 Million



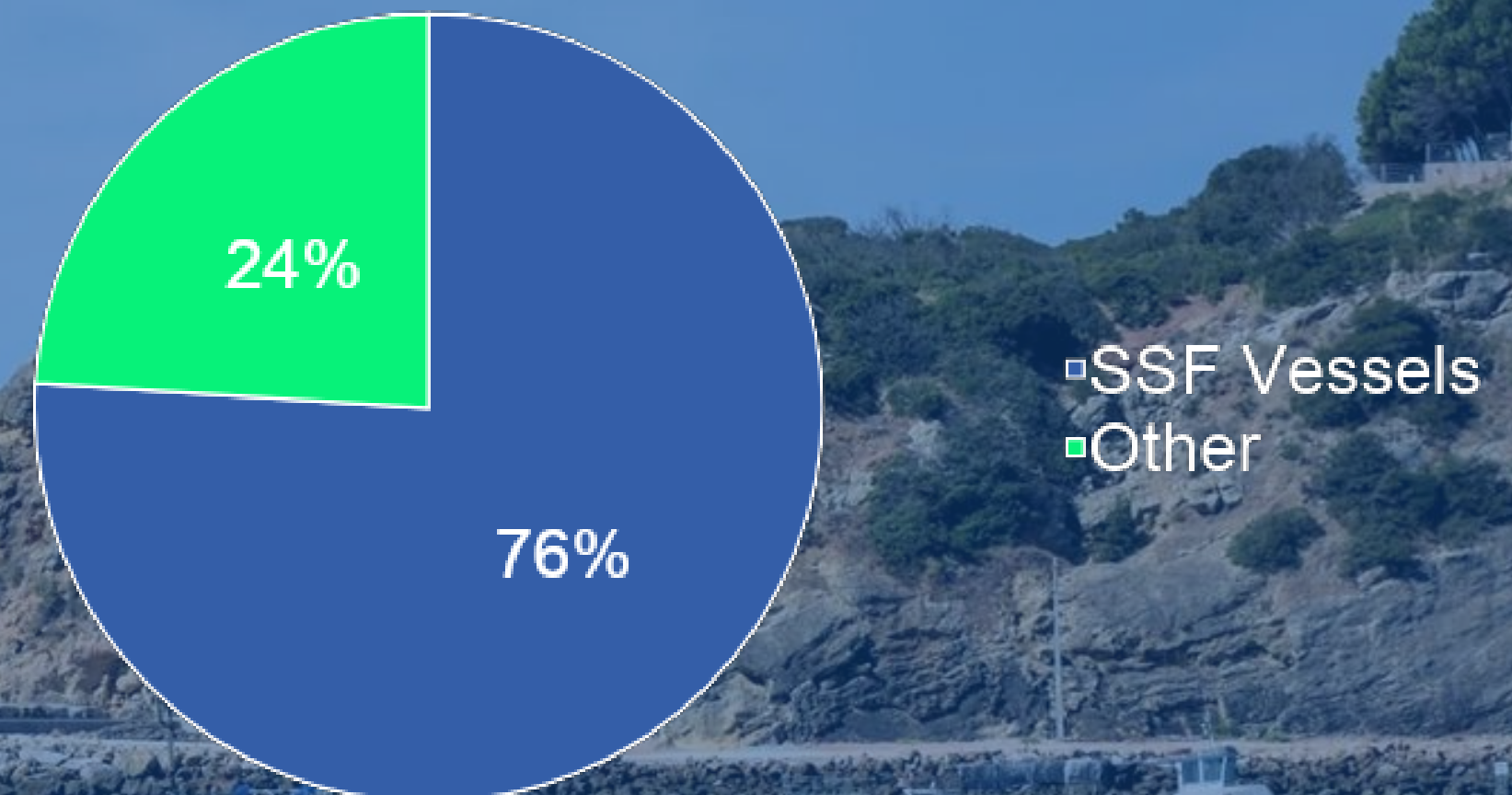
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Economic & legislative context

- Small-Scale Fisheries (SSF) crucial part of coastal economies and cultures, but remain underrepresented
- Digital transition of SSF set by the revised EU Fisheries Control Regulation 2023/2842:
 - Tracking devices for all SSF vessels by 2030
 - Electronic logbook for all SSF vessels by 2028



Active EU Fisheries Vessels



Sources: STECF secretariat, 2024 & Lopes, 2022

Photo: Camila Prisco Paraiso



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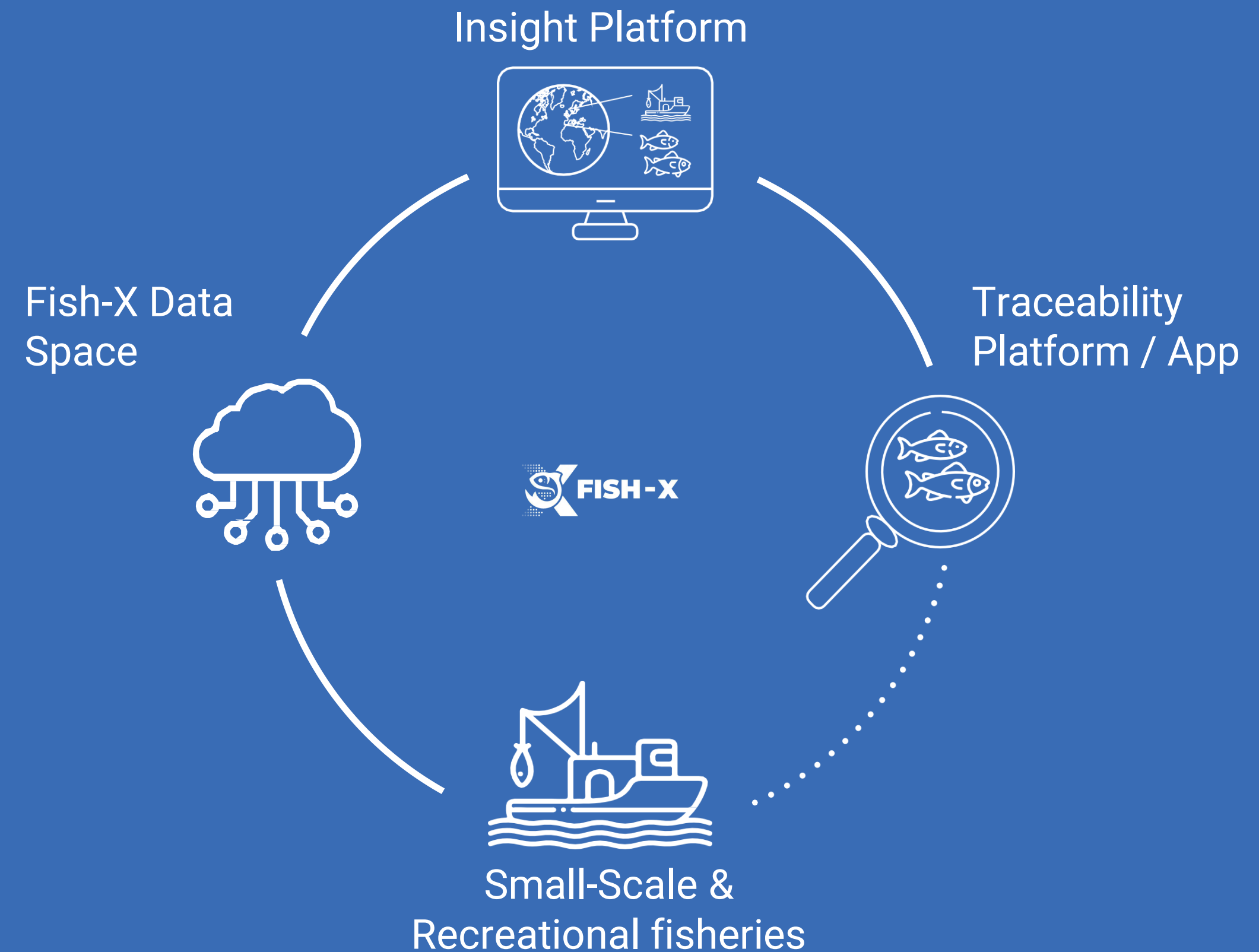
Fish-X Results After 3 Years



3 Technological Tools

Development of 3 technological outputs:

- Fish-X Data Space
 - Insight Platform
 - Traceability Platform and App
- collect, anonymise and analyse VMS and catch reporting data,
 - publicly display fisheries activities on maps, and
 - to ensure transparent seafood traceability



Fish-X Results After 3 Years



3 Use Cases Locations

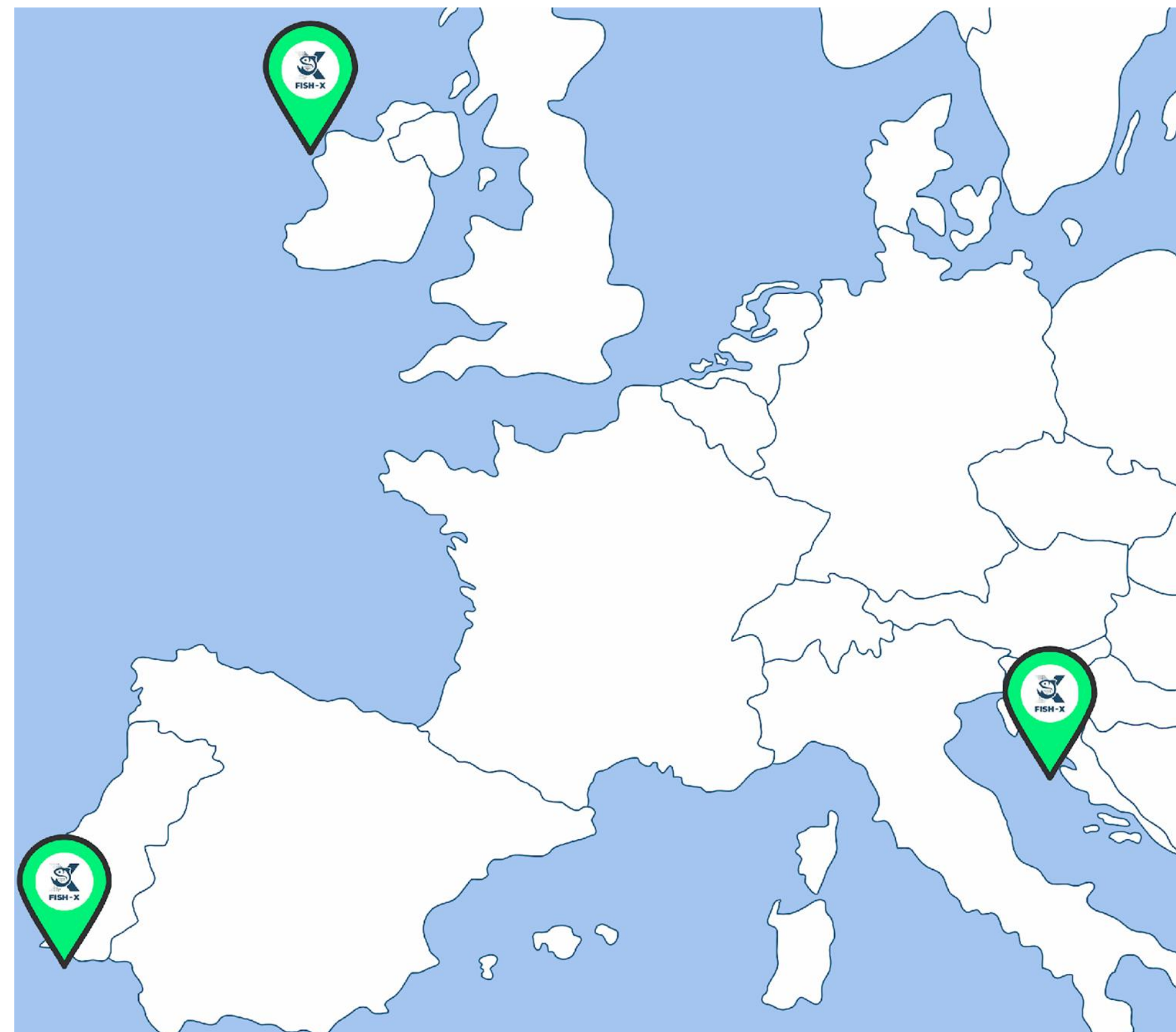
Ireland, Portugal & Croatia

Installations



104 Vessel Monitoring System devices (NEMO)

11 Electronic Fishing Gear Markers (NAOS)



Fishers Highlights-questionnaire

- Overall satisfaction among participating fishers (85% positive feedback)
- The main motivation is to safeguard their fishing grounds.
- Fishing organizations were pointed out as a key part of meeting fishers' needs.
- Fishweb is found useful with potential to get additional information about some specificities of fisher's needs

Photo: Camila Prisco Paraíso



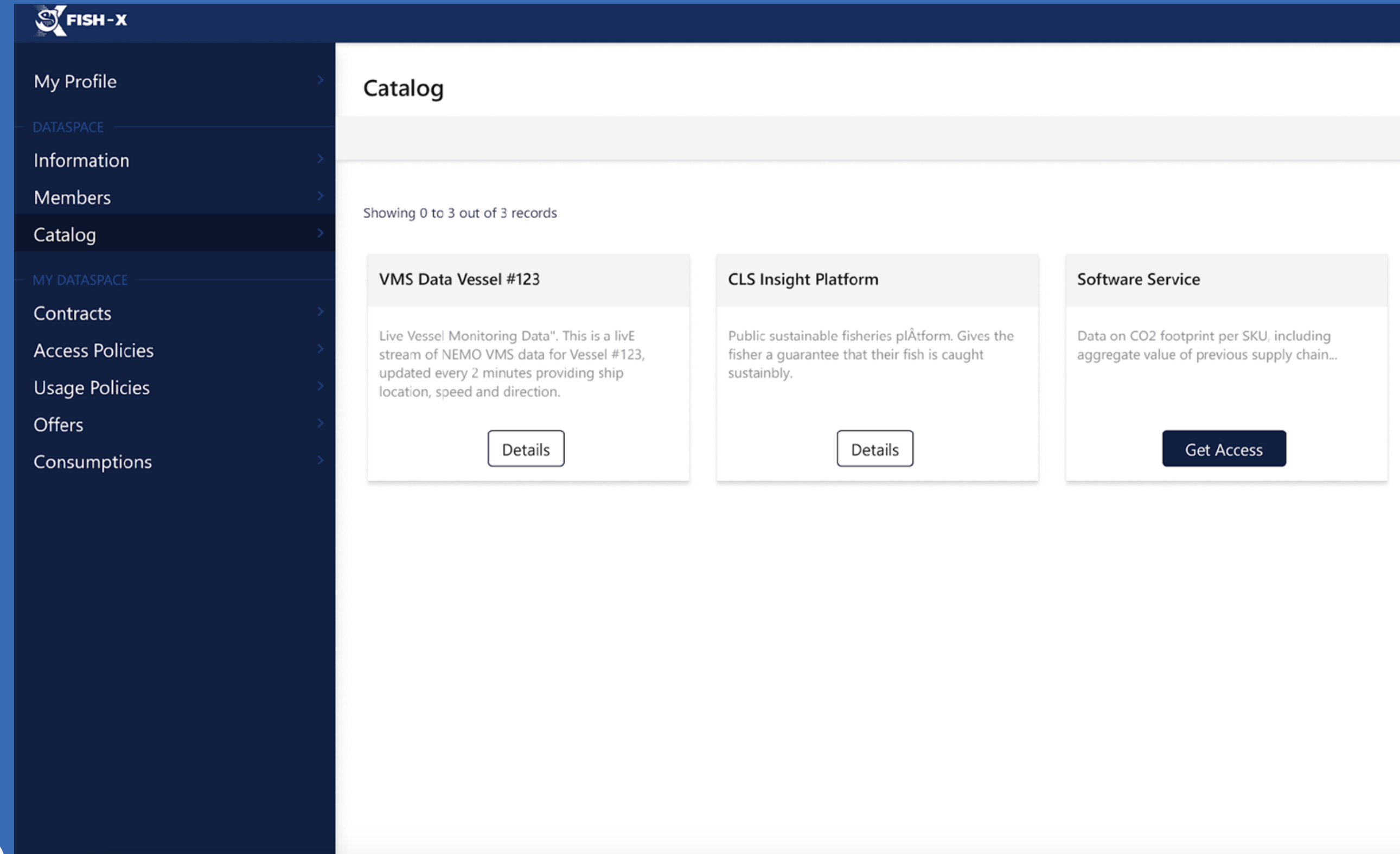
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Fish-X Data Space

- Sharing of fisheries data among relevant stakeholders
- In line with EU data space principles & revised control regulation
- Supporting better decision-making

Technological Readiness Level (TRL)
6/7: demonstrating (sub-)system
prototypes in relevant environments



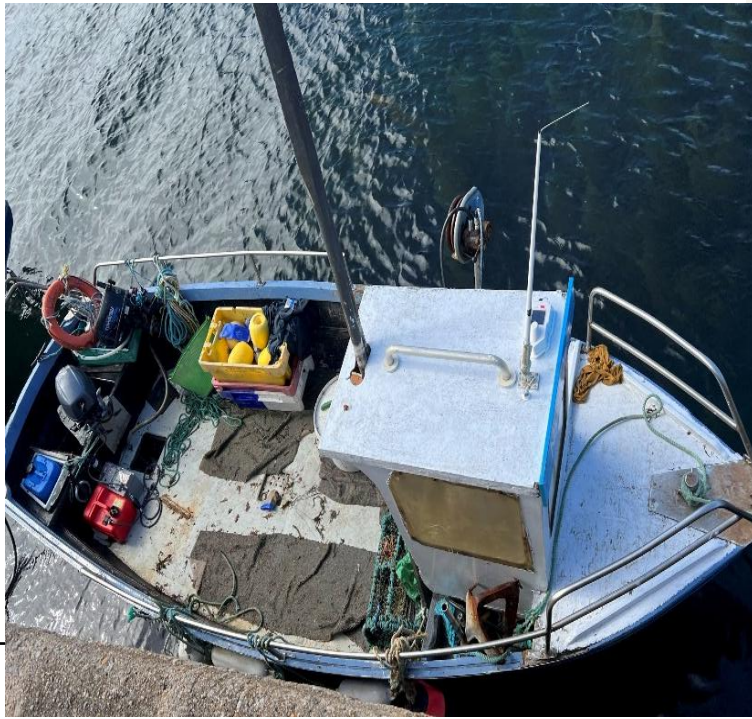





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The SSF vessels in the Insight Platform


255 SSF vessels – Polyvalent Fisheries - 4,9 million positions processed (until April 2025)



Portugal (Algarve)	Croatia	Ireland (Offshore Islands)	Ireland (Irish Sea)	Greece
NEMO installed by WWF and Sciaena for Fish-X	NEMO installed by WWF Adria for Fish-X	NEMO installed by IIMRO for Fish-X	NEMO previously installed by the Irish Marine Institute	NEMO previously installed by the EMFF Starfish project
Realtime data feed updated every day	Realtime data feed updated every day	Realtime data feed updated every day	Historical data	Historical data
59 vessels Since July 2023 to now 755.000 positions	31 vessels Since June 2023 to now 472.000 positions	13 vessels 3 since March 2022, others since June 2024 to now 310.000 positions	106 vessels Since March 2022 to now 2.8 million positions	46 vessels Since February 2021 to December 2022 600.000 positions
Passive gears (gillnets, traps & pots, set longline) Purse Seines Pole&Lines Drifting Longlines	Passive gears (gillnets, traps & pots, set longline) Pole&Lines Drifting Longlines	Passive gears (gillnets, traps & pots, set longline)	Dredgers (not counted as SSF)	Passive gears (gillnets, traps & pots, set longline)
				



NEMO VMS Terminal
1 position every 3 mn



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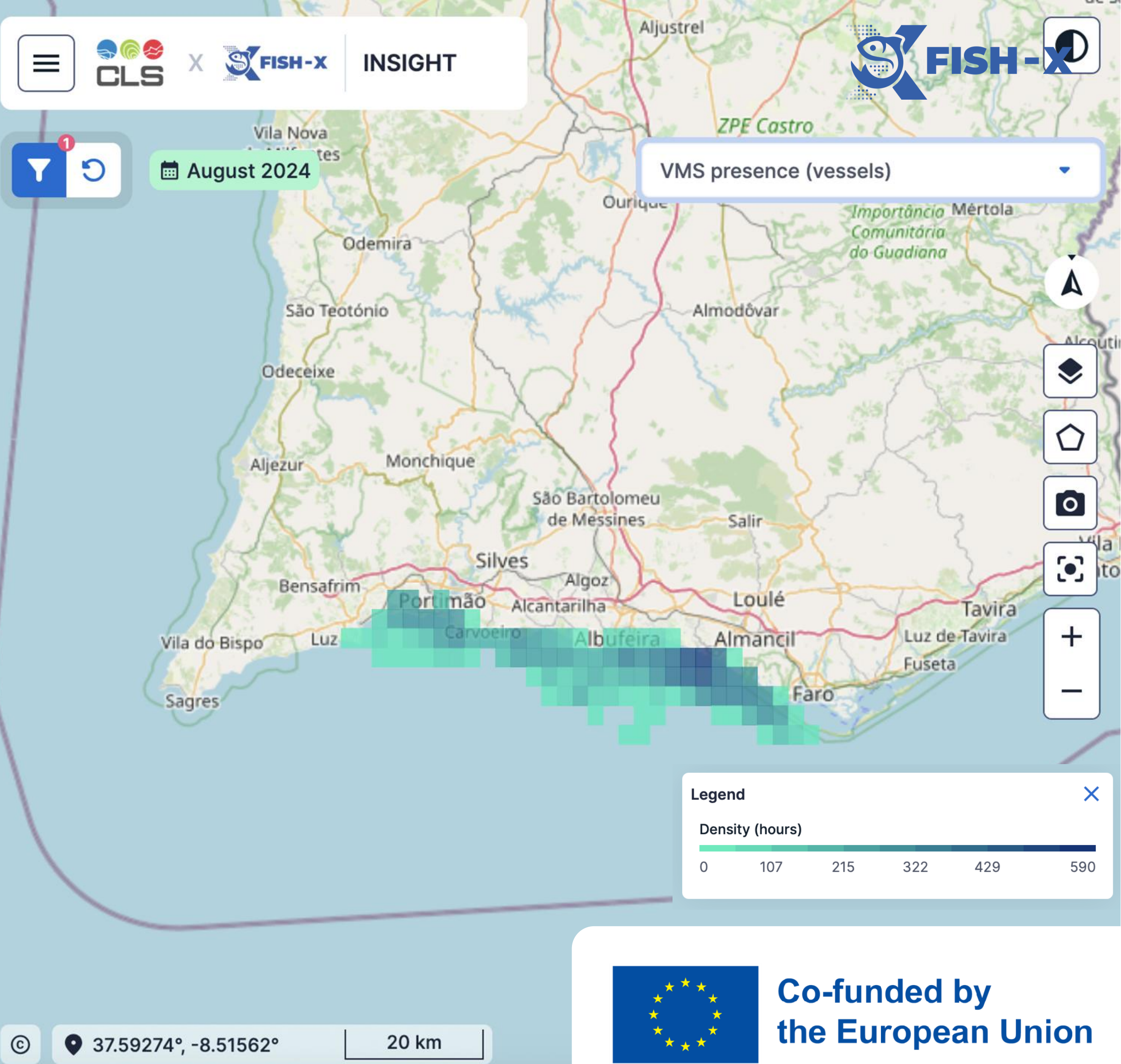
www.fish-x.eu - Project nr. 101060879

Fish-X Digital Tools



Insight Platform

- Vessel Presence



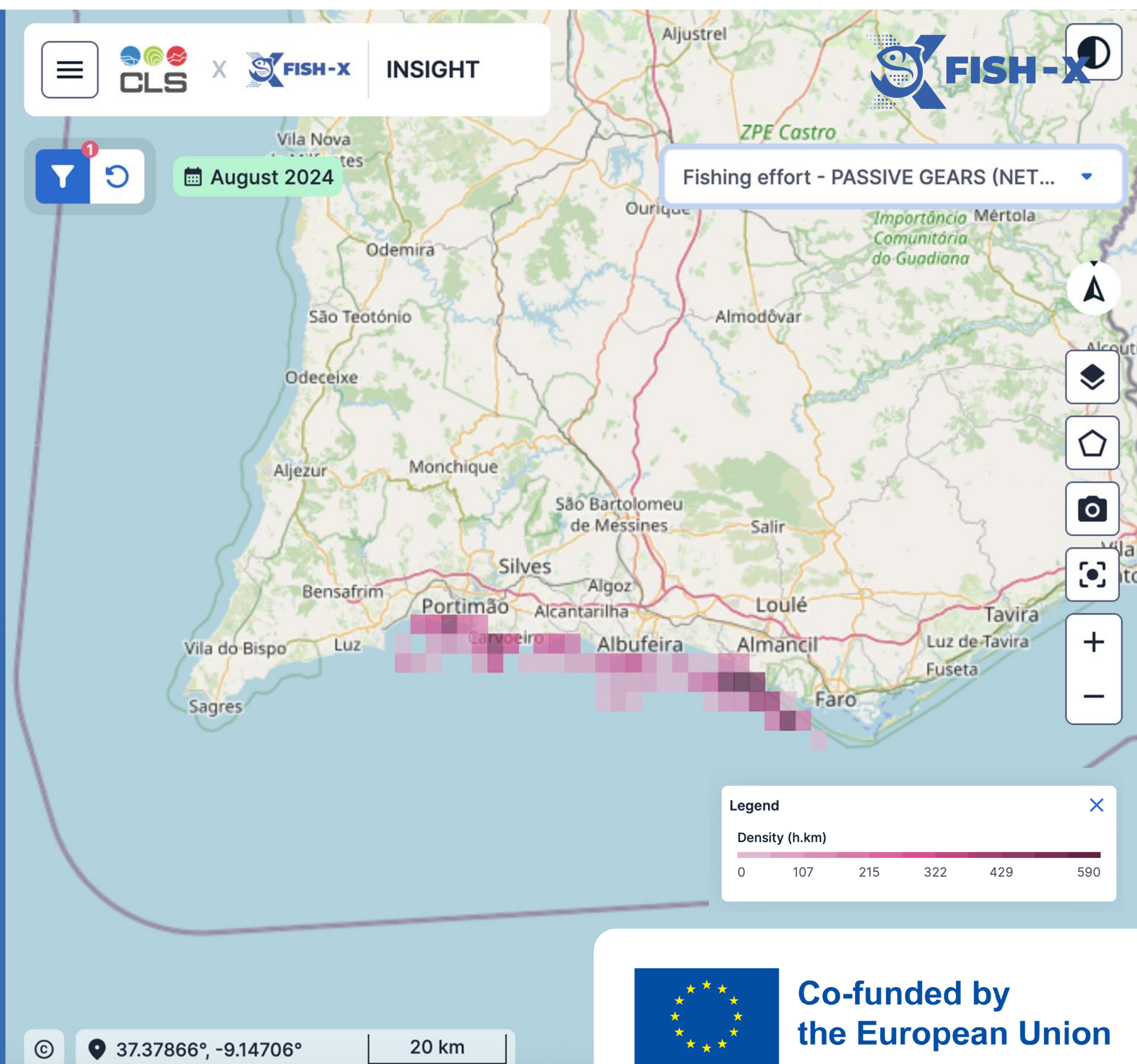
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Fish-X Digital Tools



Insight Platform

- Fishing effort derived from VMS trajectories by AI & machine learning



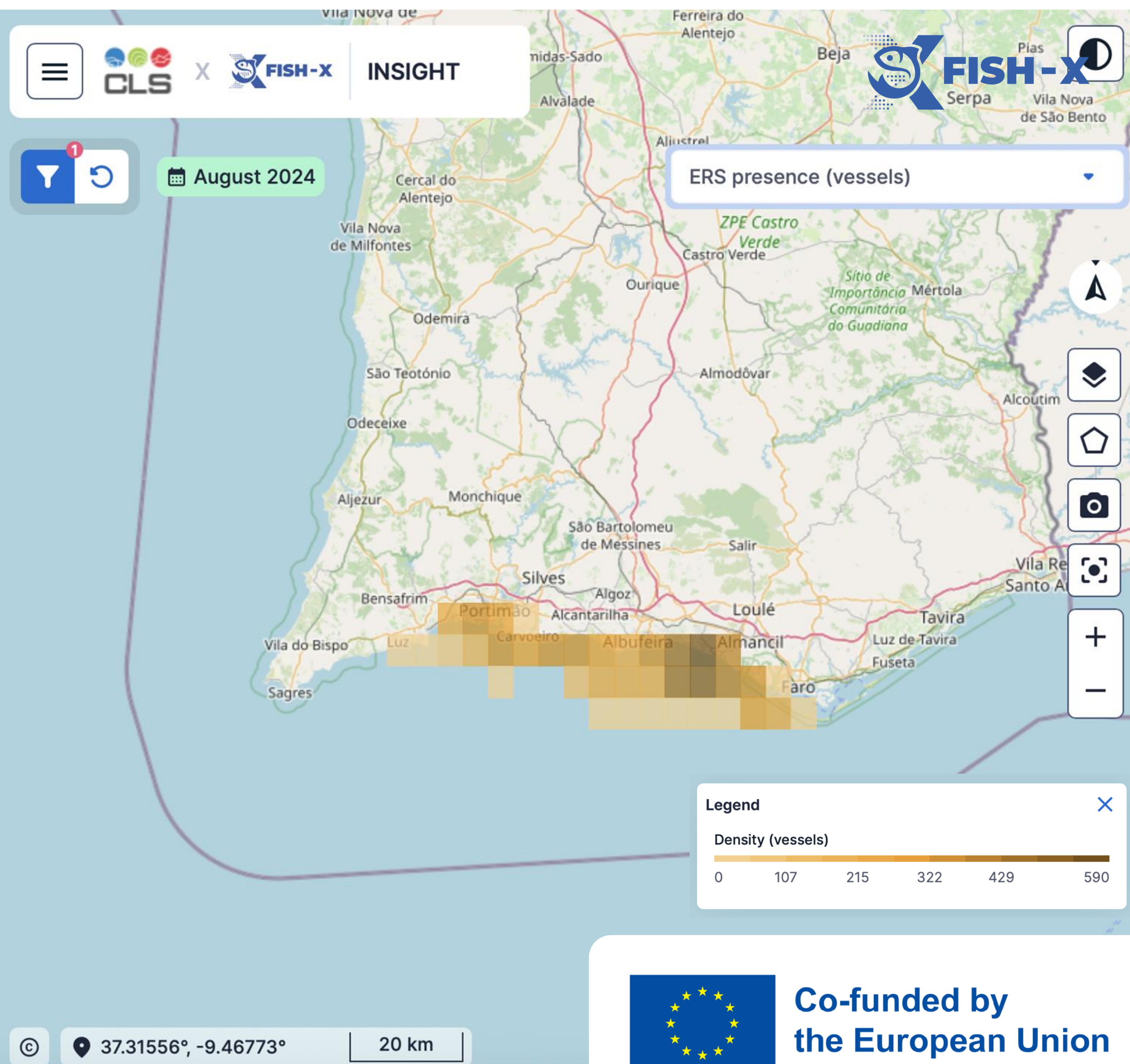
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Fish-X Digital Tools

Insight Platform

- Electronic Logbooks Reports & statistics

TRL 7: system prototype demonstration in operational environment



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Fish-X Digital Tools



Traceability Platform + App

- Transparent & comprehensive mapping of seafood products
- Using blockchain technology
- App enables consumers receiving information on supply chain

TRL 5: Technology validated in relevant environment

The screenshot displays the Fish-X digital tool interface. On the left is a sidebar menu with categories: MARKETS (Dashboard, Campaigns), COMPLIANCE (Traceability, Assessments, Mitigations, Reports), ECOSYSTEM (Brands, Products, Commodities, Suppliers), COLLABORATION (Groups, Notifications, Tasks), and SETTINGS (Account). The main content area shows an 'Overview' page for a product named 'Baked Fish' by Fish-X Fish, with article number 1 and an 'Edit' button. Below this are several informational cards: 'Labels' showing 'Marine-Ste...' and 'Alaska-Res...'; 'Category' showing 'Meat and fish' > 'Fish' and 'Frozen meals' > 'Meals'; 'Scores' for Eco (B), Nova (--), Nutri (C), and CO2 (--); 'Allergens & Traces' showing 'No allergens listed' and 'No traces listed'; and 'Nutritional Spectrum' with values: Energy 306.0 kcal, Fat 17.6 g, Carbs 21.2 g, and Protein 15.1 g. The bottom of the interface shows the user 'Hi, Jana' with a 'Logout' link. The Fish-X logo is in the top right corner, and the European Union flag is in the bottom right corner with the text 'Co-funded by the European Union'.

FISH-X
Powered by QR2

← Overview

Baked Fish
by Fish-X Fish
ARTICLE NUMBER: 1
[Edit](#)

Labels

Marine-Ste... Alaska-Res...

Category

Meat and fish
> Fish

Frozen meals
> Meals

Scores

Eco B Nova -- Nutri C CO2 --

Allergens & Traces

Allergens
No allergens listed

Traces
No traces listed

Nutritional Spectrum

Energy	Fat	Carbs	Protein
306.0 kcal	17.6 g	21.2 g	15.1 g

Hi, Jana
[Logout](#)

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Policy engagement

5 policy papers:

- 3 white papers on SSF digitalisation and traceability
- Policy recommendations
- Roadmap with more technical components

8 high-level events:

- Two events at the EU Parliament (29 June 2023 & 23 April 2025), gathering 90 key EU stakeholders, including EU decision-makers from all 3 institutions
- Two side-events (47th GFCM session on 6 Nov 2024 and at GFCM Fish Forum in Feb 2024)
- Two in-person conferences at WWF EPO (27 Sept 2023 and 10 April 2024)
- Two regional capacity-building events (MEDAC, 28 Feb 2024, and GFCM SSF Forum, 18 April 2024)



Event at the EU Parliament on 23 April 2025

Policy recommendations (1)

Traceability requirements of Article 57 (EU) 2023/2842

- Should apply to processed and prepared, imported and domestically produced
- Provide precise catch area data
- Build digital literacy
- Reward with market access and product valorisation
- GDST standards



Photo: Ankith Kumar



Policy recommendations (2)

Requirements for successful digital transition of SSF (i.e. ERS and VMS):

- **Interoperability:** across datasets, protection of fishers' privacy
- **Standardisation:** GAIA-X framework to facilitate data exchange among Fisheries Monitoring Centres, create easier format for SSF data
- **Improved quality of data collection:**
 - add GPS position when filling up the fishing logbook for optimal traceability,
 - short VMS time lapse to improve AI and machine learning models
 - grant fishers' data ownership



Photo: Ankith Kumar



Policy recommendations (3)

2040 Vision for the fisheries sector:

- Build trusted relationships with small-scale fishers:
 - engage them in the digital transition
 - commit to transparency (GDPR compliant, fisher-owner data framework)
- Inclusive and sustainable fisheries management: guarantee fishing grounds to inform Maritime spatial planning (MSP)
- Co-management governance
- Regional cooperation with EU-GFCM alignment on IUU fighting
- Fisheries science
 - Foster mutual understanding between scientists and fishers
 - Improve knowledge exchange and transfer
 - Foster citizen science



Thank you for your attention

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Fish-X consortium



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