




EXPECTED RESULTS


 A complete assessment of the actual situation of discards issues on selected fisheries, focusing on socio-economic implications/impacts that the new CFP will have on the fishing sector.

 A system able to perform the work of a human observer (identifying class/quantity of discarded/target catch) on-board, without interfering with the activity of fishermen: the **iObserver**.

 A data and metadata model and a complete range of OGC services (Open Geospatial Consortium) for acquired discards information integrated on a fishing discards Spatial Data Infrastructure (SDI), complying with INSPIRE Directive.

 A powerful modelling tool to analyse the spatio-temporal conditions of considered fishing areas in terms of discards/stock status.

 A real pilot facility located at the Port of Marín (Galicia, NW Spain) to valorise, manage and trade the unwanted catch landed: the **iDVP**.

 An exhaustive analysis of the environmental and socio-economic impacts of proposed solutions for all fishing sector agents as well as for the whole region (Galicia), paying special attention to capacity building for better management/reduction of unwanted catch.



PARTNERS



Project Leader



CSIC

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iSEAS

Knowledge-Based
Innovative Solutions to
Enhance Adding-Value
Mechanism towards
Healthy and Sustainable
EU Fisheries

Why LIFE iSEAS?

Discards are considered as an unacceptable waste of resources and a new Common Fisheries Policy (CFP) has been set up by the European Commission to mitigate and prohibit them: *Regulation (EU) 1380/2013 of the European Parliament and of the Council of 11 December 2013.*

In this new legal framework, the pursued objectives are:

Reduce/Eliminate discards by improving fishing selectivity, avoiding non-targeted species, zones or seasons.

Make the best possible use of unwanted biomass sustainably and avoid its waste.

OBJECTIVES

The main objective of LIFE iSEAS is to demonstrate that a sustainable scenario (in biological and socio-economic terms) of the EU fisheries is possible through the enhancement of the real application on the fishing sector of existent knowledge and innovative solutions for discards reduction and management.

THE LIFE iSEAS PARADIGM

Fishing patterns

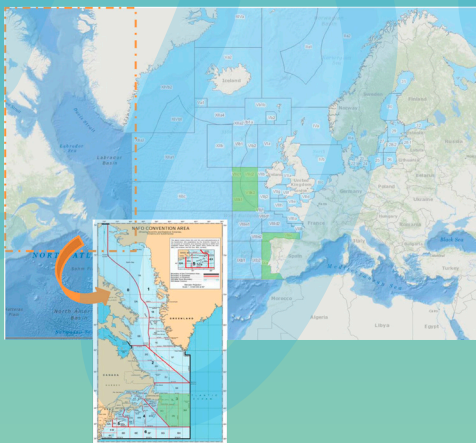
If the areas with higher discards levels (no commercial, no quota, no size) were precisely known in real time, other vessels, working in the area, would surely try to avoid these specific zones.



Demonstration character

It is possible to demonstrate the validity of the proposed approach to guarantee the sustainability of fisheries by addressing:

1. Accurate data on discards composition, volumes and fishing zones.
2. Problems related to management of unwanted catch.
3. Technical procedures to obtain value-added products.
4. Socio-economic aspects related to the different activities in the value chain.



Efficient use

Nowadays, a quite large amount of fishing organic matter is used to produce fish meal/oil, generating products of low-medium value. If the unwanted catch could be kept on board and landed, this would open an opportunity to use that biomass in a more efficient way, becoming a complementary source of income for the industry.

To achieve the overarching goal, the following specific objectives are also addressed:

Objective 1

To test the implementation and performance of the iObserver on board oceanographic vessels.

Objective 2

To optimise the fishing activity through the definition of a reliable tool based on mathematical models.

Objective 3

To define a real fully operative in-land demonstration facility for discards value-added processes and trading called iDPV (Integral Discards Processing and Valorisation Point).

Objective 4

To demonstrate the environmental and socio-economic impacts/benefits that the implementation of the proposed innovative solutions and the new management model will have in the fishing sector.

iObserver

A system able to perform the work of an on-board human observer (identifying and quantifying discarded biomass and target catch as well). This system will improve the quality and availability of data and knowledge about the status of resources.

Allow real-time decisions making for the fishing activity.

To perform more selective fishing.

