

WHAT IS ECOEFISHENT?

Demonstrable and replicable cluster implementing systemic solutions through multilevel circular value chains for eco-efficient valorization of fishing and fish industries side streams.

Funded by European Union's Horizon 2020, EcoeFISHent addresses several economic, environmental and social challenges which are now affecting fish & fishing industry.

The Objective is to establish a climate-neutral regional reproducible cluster based on circular economy approaches.

CIRCULAR ECONOMY APPROACHES

The circular economy approaches are represented by the development of innovative, profitable, climate-neutral Circular Value Chains and actions oriented to the implementation of territorial systemic solutions and ecosystem preservation.



www.ecoefishent.eu



Project Coordinator



Partners



Co-funded by
the European Union



SUSTAINABLE FISH PROCESSING SIDE STREAMS



Co-funded by
the European Union

TERRITORIAL CLUSTER

The 'Territorial Cluster' is a geographical cohesive area centered in Liguria region and extending to North-Western Italy.

In this area all the processes will be implemented and tested, from collecting the fish side streams to the transformation into new valuable products, to create a more sustainable and circular economy.

THE CLUSTER STRUCTURE

This cluster is composed by several actors, belonging to different sectors and organization types: production companies, raw materials suppliers, services providers, companies in related fields, and public institutions.

This cluster is thought to be a replicable one. This means that it is created and tested in Italy, but it will be replicated in other parts of the world, starting from Spain and Kenya.

6 VALUE CHAINS

A circular value chain refers to a **closed-loop system** in which resources, products, and materials are **continuously recycled**, reused, or repurposed to **minimize waste** and maximize resource efficiency.

EcoeFISHent will generate **6 Circular Value Chains**, connecting blue and green economy:

FROM FISH TO FOOD



Employment of **bio-actives** from fish-processing side streams as key ingredients for high value-added **food supplements and nutraceutical products**.

FROM FISH TO SOIL



Bioconversion process by **rearing insects (black soldier flies)** with EcoeFISHent cluster organic side-streams, to obtain **insect oil and chitin** together with alternative **soil fertiliser**.

FROM FISH TO PACK



Application of fish side streams in the development of **biofilm barrier** for sustainable **food packaging**.

FROM FISH TO COSMETICS



Employment of bio-actives from fish-processing side streams as key ingredients for **skin care products**.

FROM SOIL TO SOIL IMPROVER



Biodegradable and compostable **fish crates** derived from **Agro-Side-Streams**. These crates are designed to return to the soil, offering nutrient-rich **soil improvers** to be used in agricultural applications.

FROM FISHING NETS TO CARS & PACKS



Recycling of **fishing nets** coming from fishing and aquaculture industry for application in the **automotive industry and cosmetic packaging**.

