



## Producing advanced bio-based fertilizers from fisheries wastes

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## Project summary



- The basis of the project is the regional production of bio-based fertilizers (BBF) by developing **demonstration pilots** that can be replicated across Europe, boosting local growth.

**4**  
YEARS

**26**  
PARTNERS

**11**  
COUNTRIES

**+8.8 M€**

**9** TECHNOLOGIES IN **7** DEMONSTRATION PILOTS IN

**6** REPRESENTATIVE AREAS OF THE EUROPEAN FISHERIES SECTOR  
(North, Baltic, Atlantic, Cantabrian, Mediterranean and Adriatic)

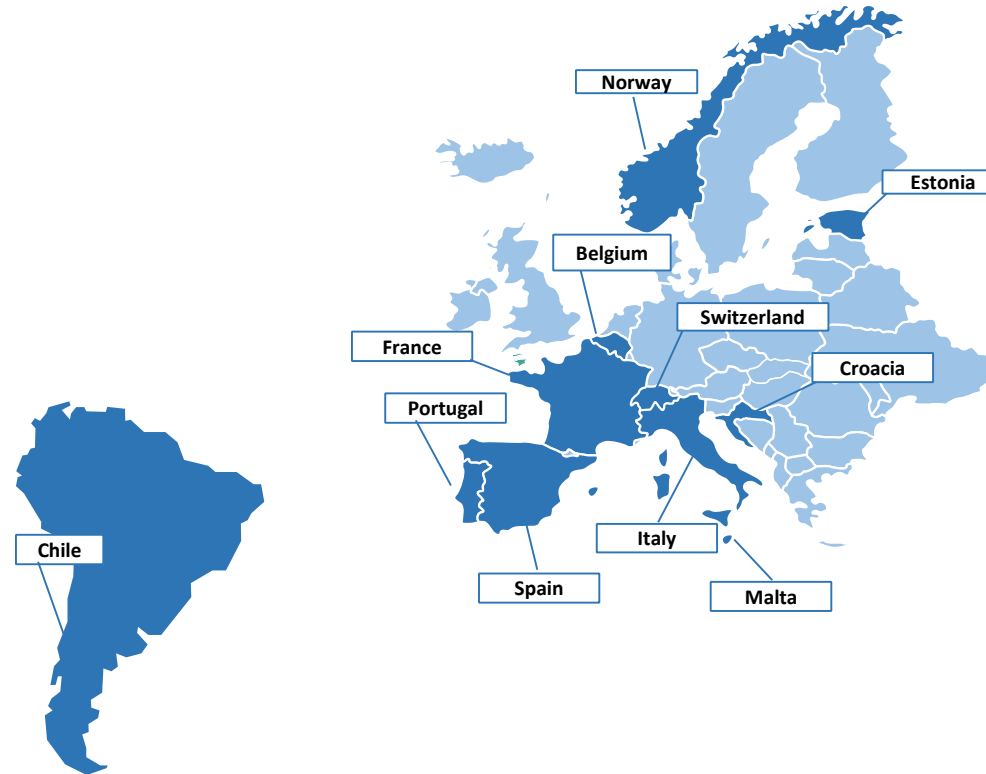


The **project consortium** is composed by **26 partners** representing research organisations with experience in:

- valorisation of food industry by-products
- biotechnology
- agronomy and environmental research

Industries from:

- seafood processing
- aquaculture production
- fish by-products valorisation and fertilisers sector





The technologies will be applied to different by-products from aquaculture and fisheries, and they will produce several BBFs either for local crops and conditions, and others for exporting.

Besides, the effects on soil biodiversity, environmental sustainability and the impact on social parameters and local economy will be studied and business plans will be defined.

Finally BBFs from by-products will serve to partially replace imported nutrients for agriculture in Europe, and, at the same time, contributing to reduce the negative environmental effects of the misuse of by-products.



Improve and adapt nutrient recovery technologies to produce bio-based fertilisers (BBF) from the processing of fish and aquaculture by-products.



Promote fertiliser production in the EU from home-grown raw materials, based on the circular economy model, transforming by-products from aquaculture and fisheries into nutrients for crops.



Contribute to the independence and security of supply of nutrients to European agriculture, reducing the nutrient imbalance in Europe.

## Specific Objectives

1. Update and record the intra and interregional nutrient imbalance in Europe, from aquaculture and fisheries.
2. Promote and scale technologies for recovering nutrients from by-products that will enable Europe to substitute synthesis fertilisers by bio-based fertilisers.
3. Obtain BBF that ensure crop production increasing soil fertility and optimize GHG emissions coming from its production.

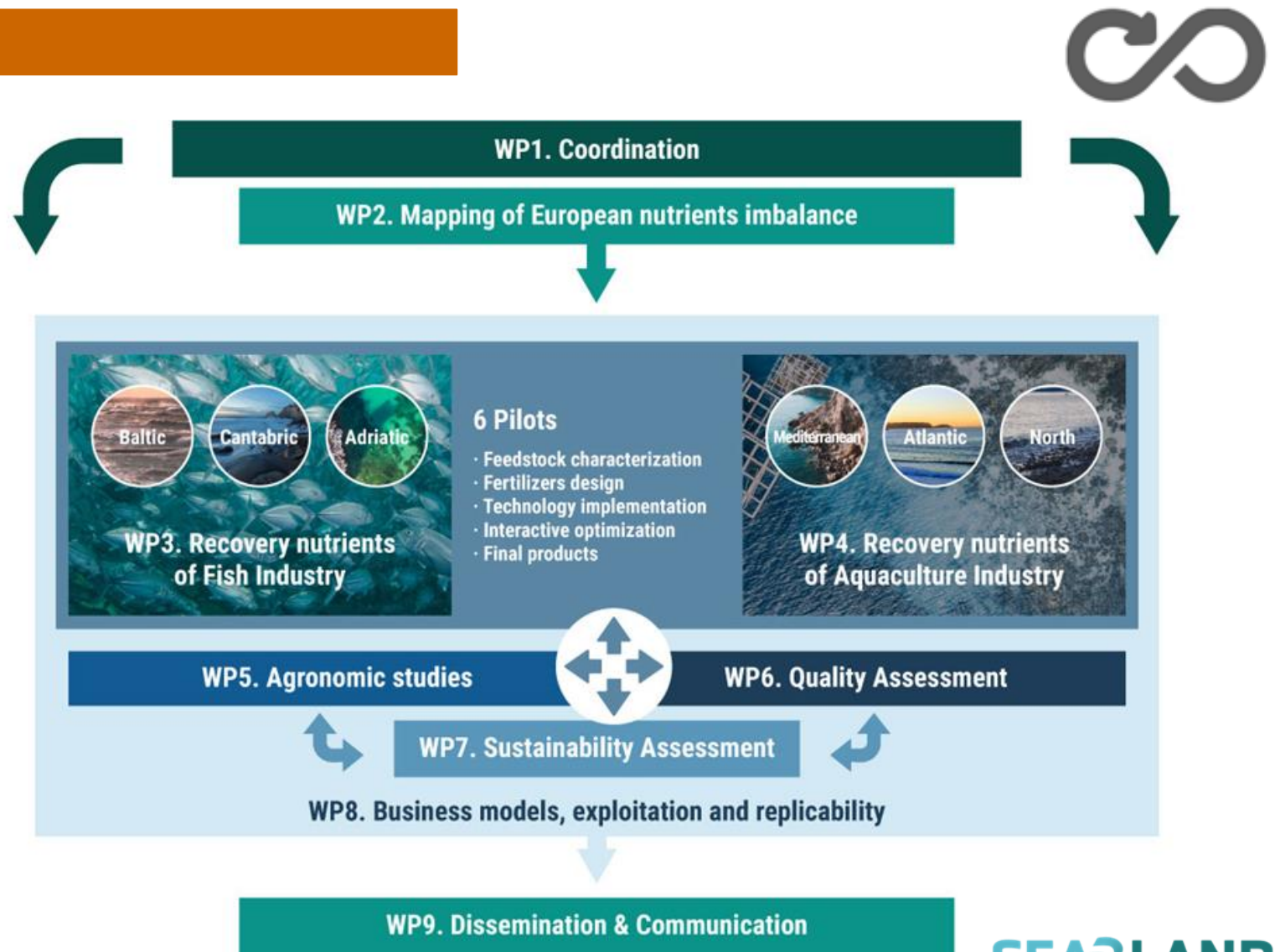




5. Assure the soil quality and health, improving its biodiversity and fertility by these new fertilisers supply increasing biodiversity.
6. Encourage the circular economy and the short chains channels by implementing local and circular business models that will boost rural development and population settlement.
7. Establish the correspondence between geographical, climatological, technological and social conditions and their corresponding business model to design sustainable and circular models based on SEA2LAND obtained experience.
8. Raise awareness in society regarding the recovery of by-products and the use of new bio-based fertilisers and the positive effects on the soil, air and health of the bio-based fertilisers produced.

## Project structure

- The project will be implemented through **6 interrelated** Work Packages and **3 horizontal** Work Packages over a period of **48 months**.







[www.sea2landproject.eu](http://www.sea2landproject.eu)



# Thank you

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