#### WHAT IS BIO MARTERRA?

**BIO\_MARTERRA** aims to contribute to

#### What are **OPERATIONAL GROUPS?**



# Do you want to know more about **BIO\_MARTERRA?**

Please email proyectosnacionales@feuga.es or call +34 981 53 41 80.

















The effects of applying biostimulants derived from seaweeds to abiotic and biotic stresses in traditional varieties of horticultural crops, potatoes, and grapevine

Total grant: 179.634,83 € Total project budget: 179.634,83 €

This project is funded by the aid for the execution of innovative projects by Operational Groups of the Agricultural European Innovation Partnership (AEI-Agri). The funding breakdown for the project is as follows: The European Agricultural Fund for Rural Development (EAFRD) contributes the majority, at 80%, followed by the Xunta de Galicia (Council of Galicia) at 14%, and the Ministerio de Agricultura, Pesca y Alimentación (Ministry of Agriculture, Fisheries and Food) at 6%. The Consellería do Medio Rural (Galician Ministry of Rural Development) is the Galician Administration authority responsible for proposing and executing the general guidelines in agriculture, livestock, rural development and regional planning, rural structures, agri-food and forestry industries, mountains, and prevention and defence against forest fires.









## Who are the TARGET GROUPS of BIO\_MARTERRA?



Seaweed producers and marketer companies



Service companies



Farmers and winemakers



Public administration related to agriculture and costal activities, environment and/or rural development



Technology centres, research centres, and universities



Consumers and the aeneral public



Technological platforms



## What are the expected **RESULTS** of BIO\_MARTERRA?

The project is expected to generate a new line of ecologic biostimulants derived from seaweed extracts that will enhance crop development by raising its resilience to abiotic stressors (high temperatures, drought, and salinity) as well as to biotic stressors (pathogenic fungus attacks). At the same time, the project is expected to lead to a decrease in generation of byproducts from seaweed activity, by valorisation of discards and non-marketable species. Additionally, it is supposed to reduce the use of synthetic agricultural inputs in horticultural crops and grapevine.

#### **BIO MARTERRA ACTIVITIES**













# What are the **OBJECTIVES** of BIO MARTERRA?

The main objective of the project is to demonstrate the potential beneficial effects of biostimulants, which are derived from discards of seaweeds without a commercial use, on abjotic and biotic stress situations in different crops of native varieties and local ecotypes of interest to Galicia.

Furthermore, the project aims to promote the introduction of the blue bioeconomy in the seaweed sector by utilisation of non-marketable species and valorisation of discards. This contributes to the generation of a positive environmental impact by reducing the need for application of synthetic fertilizers and pesticides. In addition, the project seeks to increase agronomic and economic profits, enhancing the sector's competitiveness and promoting synergies between industry experts, researchers, and agriculturists.

# Who are the **MEMBERS** of BIO MARTERRA?

The **BIO MARTERRA** Operational Group is coordinated by the company Porto Muiños S.L., with the participation of the Waste management and fertilization unit from the Agronomy group of the University of Santiago de Compostela (USC), the VIOR research group of the Misión Biológica de Galicia-CSIC, the producer Avelino Santana and the Fundación Empresa Universidad Gallega (FEUGA). In addition, the Centro de Investigacións Agrarias de Mabegondo (CIAM) and Horta da Lousa participate as external collaborators.



















