

What is PROTEINLEG ?

PROTEINLEG is a supraautonomous Operational Group whose aim is to **develop high-quality food proteins through the sustainable production and processing of legume cultivation.**

Following the current trend towards healthier and more environmentally respectful food, both for human and animal nutrition, PROTEINLEG will use **legumes as the base for the development of new healthy, tasteful, and attractive food rich in vegetable proteins.** The varieties of legumes used will be **cultivated in an innovative, profitable and efficient way**, through optimized and sustainable production and processing methods. This innovation project is focused on the most important **varieties of legumes for human (beans, broad beans and chickpeas) and animal consumption (lupins, broad beans and peas).**

Betting for the sustainable and proximity cultivation of traditional varieties of legumes, PROTEINLEG seeks **to provide alternatives to animal origin proteins** as well as to balance the Spanish and European vegetable proteins trade balance, where currently 70% is imported. Additionally, the project will also **reduce the high dependency of the livestock sector on soybean** as the protein source for feed production.



Do you want to know more
about **PROTEINLEG** ?

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Proteinleg
GRUPO OPERATIVO SUPRAAUTONÓMICO

**DEVELOPMENT OF
HIGH-QUALITY FOOD PROTEINS
THROUGH THE SUSTAINABLE PRODUCTION
AND PROCESSING OF LEGUME CULTIVATION**

PROTEINLEG is an innovation project 80% co-funded by the European Agricultural Fund for Rural Development (EAFRD) of the European Union and 20% by the Ministry of Agriculture, Fisheries and Food, within the framework of the National Rural Development Programme 2014-2020. The General Directorate of Rural Development, Innovation and Agrifood Training (GDRDIAT) is the authority in charge of the application of these aids.

Total budget: €556.947,36. Total grant: €552.147,36.



What are the Operational Groups ?

The Operational Groups, main actors in the implementation of the EIP-Agri (European Innovation Partnership for Agricultural productivity and sustainability), are one of the key tools for the execution of the National Rural Development Programme 2014-2020 for promoting innovation in the agri-food and forestry sectors within the European scope. They gather agents of different profiles with common interests, such as farmers, ranchers, companies, researchers or training and dissemination actors, who are associated to implement an innovation project in order to provide a joint and multi-sectorial response to a problem or need.

Whom is PROTEINLEG aimed to ?

The PROTEINLEG project focuses on all the agents of the agrifood sector, but also on the general public:

- Farmers.
- Seed companies.
- Producers and marketers of grains for human and animal food.
- Agents of the agrifood value chain.
- Public Administrations related to agriculture, environment and rural development.
- Research centres.
- General public.

To maximize the impact of the results and the transfer of the solutions to be developed in the PROTEINLEG project, intense dissemination work at regional, national and European levels will be carried out (articles, events, workshops, web, etc.).

Which are PROTEINLEG objectives ?

The main objective of the PROTEINLEG project is to **develop foods rich in vegetable proteins that are attractive to the consumer from the innovative and sustainable cultivation of legumes**. More specifically:

1.- To ensure sufficient and sustainable production of raw materials through the innovative, profitable and efficient cultivation of traditional varieties of legumes.

2.- To improve the quality and quantity of the proteins in legumes cultivations through a multidisciplinary approach.

3.- To develop vegetable-origin products, rich in proteins, through the comprehension of the interactions of the proteins with other food components and its consequences on **human and animal feeding**.

Which are the expected results ?

AGROBIODIVERSITY

Selection of the best-adapted traditional varieties of legumes.

SUSTAINABILITY

To improve the productivity of legumes through sustainable approaches.

FORMULATION

Design new foods rich in vegetable proteins for human and animal feeding.

VALIDATION

To validate the new foods developed as alternatives to animal-origin proteins and soybean.

Who are the members of PROTEINLEG ?



Partners: The supraautonomous Operational Group PROTEINLEG, which involves the Spanish regions of Galicia, Madrid and La Rioja, is coordinated by Galician University-Enterprise Foundation (FEUGA) and counts with the participation of Ramiro Arnedo S.A., Almacenes Gamallo S.L., MIMIC SeaFood S.L.U., the Misión Biológica de Galicia (which belongs to Spanish National Research Council, MBG-CSIC), and the Fundación Centro Tecnológico da Carne (CTC).

FEUGA
FUNDACIÓN EMPRESA-UNIVERSIDAD GALLEGA

Ramiro Arnedo
semillas

Gamallo

MIMIC
SeaFood

GOBIERNO DE ESPAÑA
MINISTERIO DE AGRICULTURA, GANADERÍA Y PESCA

CSIC

CTC
centro tecnológico da carne

The National Centre for Food Technology and Safety (CNTA), ProSeeds Hybrid S.L.U., and the Complutense University of Madrid (UCM, Genomics Unit) participate as **subcontracted members**.

CNTA

ProSeeds Hybrid
S.L.U.

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The Association for the promotion of Research and Technological Development in Plant Genomics (INVEGEN-BIOVEGEN), the Galician Agrifood Cooperatives Association (AGACA), the Entrepreneurs, Cattle Breeders and Farmers of La Limia Association (ADEGAL), the Legumes Spanish Association (AEL) and the Celtic Swine Breed Breeders Association (ASOPORCEL) act as **collaborator members**.

biovegen
plataforma tecnológica de biotecnología vegetal

agaca
Asociación Galega de Cooperativas Agroalimentarias

ADEGAL

ASOPORCEL
ASOCIACIÓN DE CRIADORES DA RAZA PORCINA CELTA

ael
Asociación Española de Leguminosas