

## What is **Ash4Soil**?

**Ash4Soil** is a supra-regional Operational Group aimed at improving the fertility of acidic soils and increasing productivity in forest and agricultural plantations through the development and use of a soil amendment and fertilizer called **Ash4Soil**. This product is derived from by-products of forestry and livestock origins. The project promotes circular economy principles by valorising by-products and supports the bioeconomy by proposing a business model based on the reuse of organic-origin by-products.

The project will evaluate the benefits of using the **Ash4Soil** amendment-fertilizer on acidic soils. This amendment is made from ashes resulting from the burning of forest by-products, and its effects on crop productivity will be studied by combining it with a high-quality nitrogen fertilizer made from slurry sourced from livestock farms in Galicia, Extremadura, and Castilla y León.

## What are **Supra-regional Operational Groups**?

Operational Groups, the main actors in the implementation of the EIP-Agri (European Innovation Partnership for Agricultural Productivity and Sustainability), are one of the key tools within the Strategic Plan of the Common Agricultural Policy (CAP) 2023–2027 to modernise agriculture and rural areas, promoting and sharing knowledge, innovation and digitisation in agricultural and rural areas. These groups consist of a combination of actors with different profiles but common interests, such as farmers, livestock producers, companies, research centres, training, and outreach institutions, who join together to launch an innovative project aimed at providing a collaborative, multisectoral response to a specific problem or need.



# Ash4Soil

Do you want to know  
more about **Ash4Soil**?

Please e-mail [feuga@feuga.es](mailto:feuga@feuga.es)  
or call **+34 981 534 180**.

For more information about the Project,  
visit its website at [www.ash4soil.es](http://www.ash4soil.es)



Ash4Soil operational group is responsible for this content.



Co-funded by  
the European Union



MINISTERIO  
DE AGRICULTURA, PESCA  
Y ALIMENTACIÓN



# Ash4Soil

**Productive improvement of soils,  
agricultural crops, and forest plantations  
through an amendment obtained from the  
valorisation of biomass ashes**

**Total Project budget: 600.000,00 €**

**Total grant: 575.700,36 €**

Innovation project within the framework of the 2023–2027 Common Agricultural Policy (CAP) Strategic Plan, funded 80% by the European Agricultural Fund for Rural Development (EAFRD) of the European Union, and 20% by the Ministry of Agriculture, Fisheries, and Food (MAPA). The Directorate-General for Rural Development, Innovation, and Agri-Food Training (DGDRIFA) is the authority responsible for the administration of these funds.



Co-funded by  
the European Union



MINISTERIO  
DE AGRICULTURA, PESCA  
Y ALIMENTACIÓN

## What are the **objectives** of Ash4Soil?

Ash4Soil's main objective is to **improve the health of acidic soils, increasing agricultural and forest productivity** using an **amendment-fertilizer** made from **ashes and manure** from cattle, pigs, and poultry. Specifically, the project aims to:

- Formulate an **amendment-fertilizer for acidic soils** using **by-products from livestock farms** (manure and poultry litter) and **forestry industry by-products** (biomass ashes).
- Reduce the use of synthetic inputs** and the carbon footprint of all sectors involved.
- Evaluate** the Ash4Soil amendment-fertilizer from productive, environmental, and social perspectives, and **validate** it with end users.
- Promote **circular economy principles and sustainability** in agricultural and forestry activities by enhancing productivity, reducing the use of synthetic inputs, valorising by-products, and recycling nutrients.

## What **results** are expected from Ash4Soil?

The expected outcomes of the **Ash4Soil** project are as follows:

- **Formulation and development** of the **Ash4Soil** amendment-fertilizer product.
- **Improvement of pH** levels in acidic soils.
- **Enhancement** of agricultural and forest **productivity**.
- **Validation** of the Ash4Soil product by key stakeholders.
- **Adaptation** of the new product for **commercialization**.

## Ash4Soil activities

1



Formulation and development of the **Ash4Soil** product.

2



Evaluation of the **Ash4Soil** product in experimental agricultural and forest crops.

3



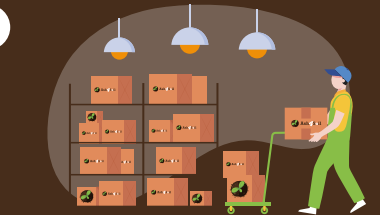
Assessment of the **Ash4Soil** product by end users.

4



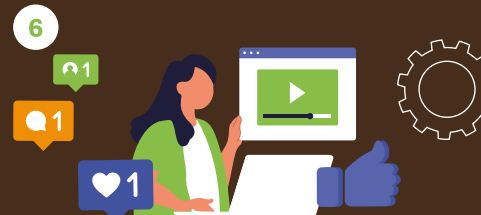
Validation of the **Ash4Soil** product in real agricultural and forest crops.

5



Preparation of the new product for commercialization.

6



Dissemination and transfer of results throughout the project.

## Who are the **target groups**?

The **Ash4Soil** project aims its results at all stakeholders in the agri-food sector:

- Forest holdings and community-managed forests.
- Farms, cooperatives, and livestock farms.
- Energy producers utilizing biomass.
- Technology centres, research institutes, and universities.
- Technological platforms.
- Public administrations related to livestock, the environment, and/or rural development.
- Final consumers and the general public.

To maximize the impact of the results and facilitate the transfer of the solutions developed in the **Ash4Soil** project, an intensive outreach effort will be carried out at the regional, national, and European levels (including articles, outreach events, workshops, website, etc.).

## Who are the **members**?

**Beneficiaries:** The supra-regional Operational Group **Ash4Soil**, encompassing the Autonomous Communities of Galicia, Castilla y León, and Extremadura, is coordinated by the Fundación Empresa-Universidad Gallega (FEUGA). The group includes the participation of the following entities: Greenalia Biomass Power Curtis Teixeira S.L.U., Álvaro Rodríguez Eiras S.L.U. (ARESA), Agrobarcenilla S.L., Sociedad Cooperativa Galega A Carqueixa, SELGA, Compañía Galega de Silvicultores S.L., and Almacenes Boia S.L.

The University of Santiago de Compostela (USC), through the Silvopastoral Systems Research Group, acts as a **subcontracted member**.

