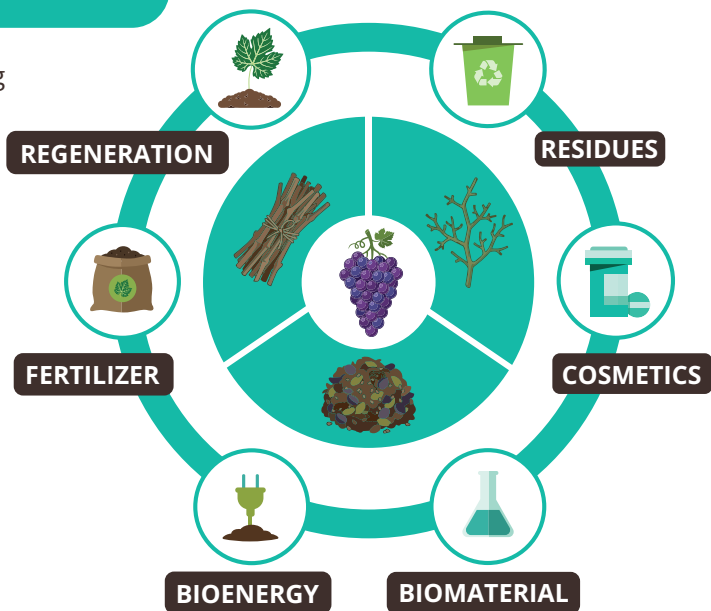


What is Soil&WineResidues?

Soil&WineResidues is a pioneering project spanning the wine-growing regions of the SUDOE area (Spain, Portugal and France), promoting the eco-efficient and circular management of viticultural and winery residues, including vine prunings, grape stems and grape pomace.

Its main **objective** is to transform these residues into high-value resources for the wine sector while reducing dependence on agrochemicals, preventing and mitigating soil degradation, improving soil health and restoring soil quality, and enhancing vineyard biodiversity.



The project is being implemented across three wine-growing regions within the SUDOE area (Spain, Portugal and France), each characterised by different edaphoclimatic conditions but facing common challenges. This will make it possible to **assess the transferability of the project results under different production conditions**.

The project methodology includes:

PHYSICAL, CHEMICAL, BIOCHEMICAL AND MICROBIOLOGICAL CHARACTERISATION OF SOILS.

ASSESSMENT OF THE IMPACT OF PESTICIDES AND AGRICULTURAL MANAGEMENT PRACTICES.

DEVELOPMENT OF RESIDUE RECOVERY AND VALORISATION PROCESSES.

VALIDATION OF INNOVATIVE SOLUTIONS UNDER REAL VINEYARD CONDITIONS.

The consortium brings together wineries, universities and research centres working collaboratively to validate these **solutions in real production** environments, facilitating their future adoption across the wine sector.

Two complementary pilot actions



ECOLAB

Integrated Valorisation of Viticultural and Winery Residues

Main objectives and activities:

INNOVATION

Design and optimisation of processes for extracting high-value compounds (enzymes, antioxidants and bioactive molecules) from viticultural and winery residues, with potential **applications in the cosmetics, pharmaceutical and other industrial sectors**.

SUSTAINABILITY

Recovery of the fibrous fraction remaining after extraction processes for the production of **renewable energy** (biogas) and **organic fertilisers**.

CIRCULARITY

Transformation of viticultural and winery residues into organic amendments and bioproducts through **solid-state fermentation (SSF)**.

SCALABILITY

Adaptation of these technologies to the specific conditions of each territory, facilitating their future **implementation** throughout the SUDOE area.

The main objective of **ECOLAB** is to maximise the value of viticultural and winery residues, reduce the amount of biomass left unvalorised and create new economic opportunities for wineries and rural communities.



TERRAVITIS

Soil Regeneration

Main objectives and activities:

BASELINE ASSESSMENT

Comprehensive physical, chemical and microbiological characterisation of **vineyard soils**.

SUSTAINABILITY

Assessment of the impact of pesticides and agricultural management practices to **reduce their environmental footprint**.

IMPLEMENTATION

Validation of the bioactive amendments developed within **ECOLAB** across the three study regions (O Salnés, Spain; Beja, Portugal; and Gaillac, France), supporting the circular use of materials within vineyard soils. The project will evaluate improvements in soil structure, microbial activity and grape quality.

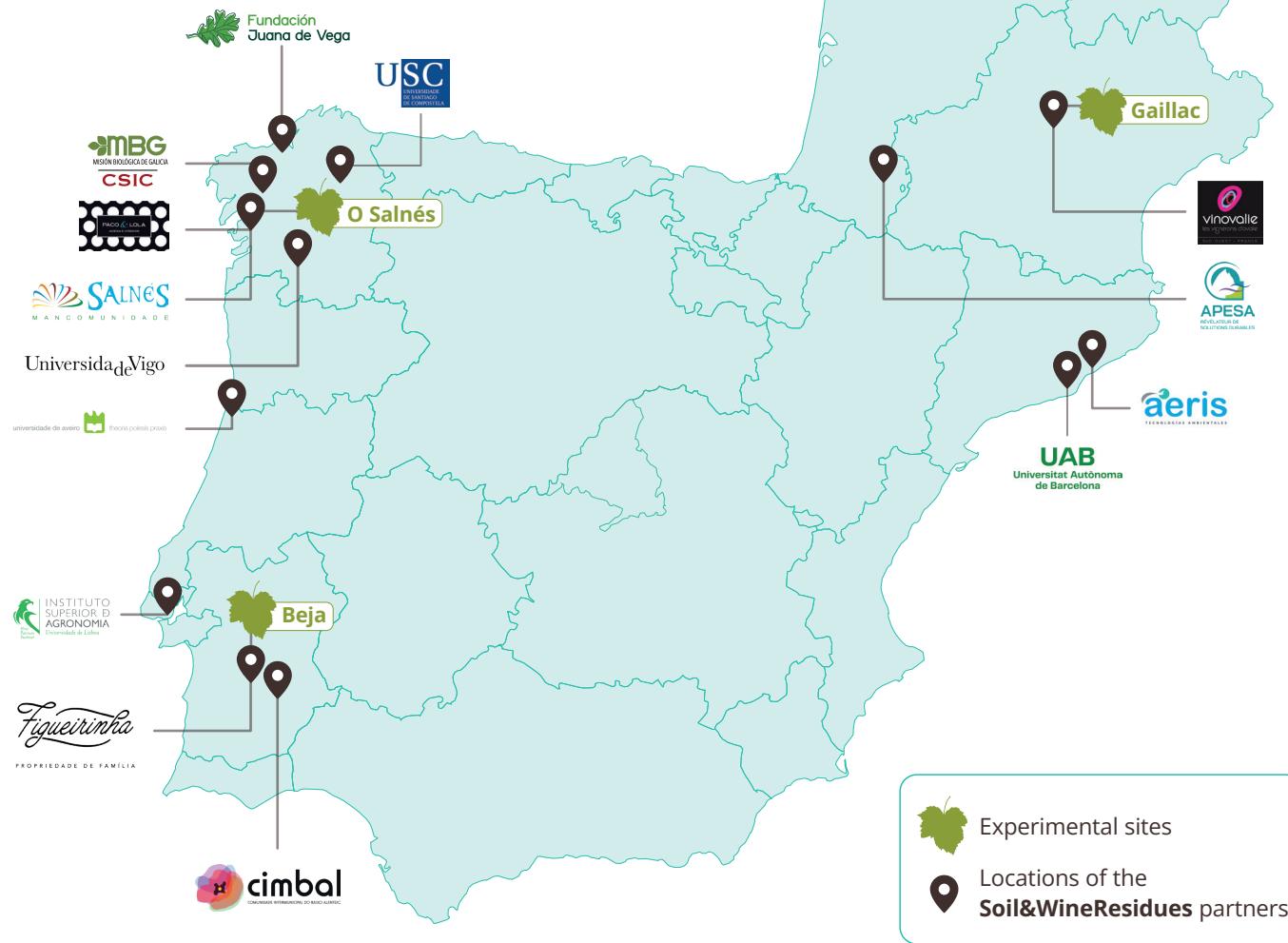
The main **objective** of TERRAVITIS is to reduce dependence on agrochemicals, improve soil fertility and strengthen vineyard resilience to climate change.

Interreg
Sudoe



Co-funded by
the European Union

Soil&WineResidues





Transforming the wine sector

CHALLENGES FACING THE WINE SECTOR

- Soil degradation and **loss of organic matter**.
- **Limited sustainable alternatives** for managing residues generated during grape growing and winemaking.
- **Dependence** on agrochemicals and increasing water **stress**.

EXPECTED BENEFITS

- More **fertile and healthier vineyard** soils, contributing to improved grape and wine quality.
- A more **competitive and sustainable** wine sector.
- Contributing to the **circular economy** and **reducing carbon emissions**.

OUR PROPOSAL

- **Recover and valorise** viticultural residues and winemaking by-products to generate bioenergy, bioactive compounds and new economic opportunities for the wine sector.
- **Reduce** the use of pesticides and fertilisers while promoting functional biodiversity and climate resilience.
- **Improve** and/or regenerate vineyard soils through the application of organic products obtained from viticultural and winery residues.



Universidade de Vigo



COOPERATION IS IN YOUR HANDS

Project co-funded by the Interreg Sudoe Programme through the European Regional Development Fund (ERDF).

ERDF assistance: 1.325.223,00 €

Eligible cost: 1.766.964,00 €



**VINEYARD SOIL SUSTAINABILITY AND ECO-EFFICIENT
USE OF VITICULTURAL AND WINERY RESIDUES**