



OLEAF4VALUE

OLIVE LEAF MULTI-PRODUCT CASCADE BASED BIOREFINERY

From an under-used biomass in the primary sector to tailor-made solutions for high added value international market applications

OLEAF4VALUE PROJECT - GRANT AGREEMENT N° 101023256



OLIVE LEAF MULTI-PRODUCT CASCADE BASED BIOREFINERY

From an under-used biomass in the primary sector to tailor-made solutions for high added value international market applications

JULY 1ST 2021

JUNE 30TH 2024

36 months

Coordinated by: NATAC GROUP (ES)

Overall budget: € 5.687.060

Project partners: 16

Countries: 9 EU countries

Grant Agreement: 101023256



16 PARTNERS & 9 EUROPEAN COUNTRIES INVOLVED



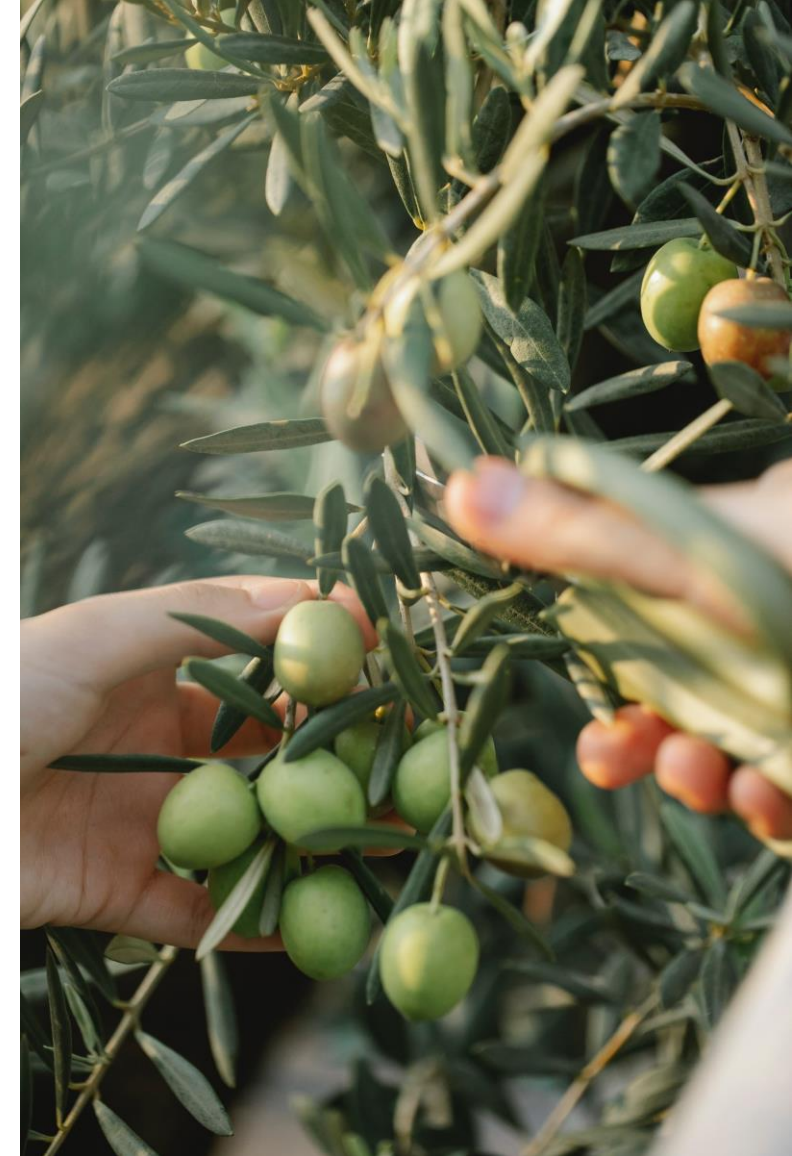
MARTIN-LUTHER-UNIVERSITÄT HALLE-WITTENBERG





OLEAF4VALUE puts together a competitive consortium of highly experienced partners devoted to the complete valorisation of this new underexploited biomass.

The consortium is set to address all the stages of the value chain: raw material, biorefining, post-extraction technologies, market validation and sustainability assessment.



OLEAF4VALUE covers the whole value chain

1. Olive Biomass

Olive Purning Leaf (OPL)
Olive Mill Leaf (OML)
4.5M T
of olive leaves produced annually

1. Real Time Suitability Sensor (RTSS)
2. Smart Supply Chain (BSI)
3. Pre-treatments

2. Biorefining

***SAMBIO**
Smart Optimization Tool 4.0 (SOT 4.0)

Post-extraction technologies

3. Applications

24
bio-based products

Food, cosmetic, pharma, health & performance chemicals

4. Market

Brand Awareness
Market Access
Positioning

The goal of OLEAF4VALUE is to set up the basis of six smart value chains based on a newly developed 4.0 concept:

- * **Smart dynAmic Multi-valorisation-route BIOfinery (SAMBIO) for the cascade valorisation of the olive leaf biomass according to its initial composition (Biomass Suitability Index – BSI)**

Smart dynAmic Multi-valorisation-route BIOrefinery (SAMBIO) for the cascade valorisation of the olive leaf biomass according to its physicochemical composition.

Enzymatic biotransformation and nanoencapsulation technologies will be applied to develop tailor made prototypes according to end user market needs from high value sectors: food, feed, health, cosmetic, pharma and chemical industries.

Advanced green extraction and isolation technologies are used to sequentially separate all fractions and compounds of value, with a zero-waste approach.

Large companies from these sectors within the consortium will guarantee a good market-oriented approach throughout the project.

OLEAF4VALUE's purpose is to link the **primary olive sector** from southern Europe with large multinationals from the **high valued competitive markets** in a circular bioeconomy project.



FOOD



FEED



HEALTH



COSMETICS



PHARMA



CHEMICAL



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Project presentation
January 2022

Presentation prepared by  innovarum



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