

OLEAF4VALUE

OLIVE LEAF MULTI-PRODUCT CASCADE
BASED BIOREFINERY

WP2 Multi-valorisation route: from a standardised starting material to added-value fractions and bioproducts

GENERAL OBJECTIVES



- Define the valorisation routes for polyphenols, triterpenoids, essential oils, fermented olive leaf extract and lignin, cellulose and hemicellulose derivatives employing green extraction techniques and fractionation /isolation technologies.
- Optimize the valorisation routes with the goal to maximize the production of both the mainstream and side stream bioproducts.
- Define the Suitability Parameters for each valorisation route, including optimal and minimal or critical values for all valorisation routes that will concurrently allow to define the Biomass Suitability Indices.
- Design a Smart Optimization Tool that will maximize the SAMBO development.

TECHNICAL DEVELOPMENTS IN THE FIRST HALF OF THE PROJECT



Definition of 5 downstream processing routes



Optimal olive leave properties determined for 4 of them



Obtention of 15 products



-7 from polyphenol route
-4 from triterpenes route
-2 from essential oils and non-polar compounds
-2 from lignocellulosic fraction



Smart Optimization Tool ongoing development



Ongoing development

PARTNERS INVOLVED



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