

# OLEAF4VALUE

OLIVE LEAF MULTI-PRODUCT CASCADE  
BASED BIOREFINERY

## WP4 Road towards market applications

- To obtain the first *in vivo* results of compounds/formulations which may be useful for an application in the food, food supplements, pharmaceutical and/or feed markets.
- To test the antimicrobial and antioxidant properties of selected bioproducts to tailor their further use, the bioactivity of the olive derived bioproducts in a *C. elegans* model, and the bioavailability of olive-derived bioproducts in a permeability test through artificial membranes.
- To develop cosmetic formulations of olive derived bioproducts and test their efficacy in studies on skin cells
- To test the bioactivity of the olive derived bioproducts in intestinal cell and immune cell models and the protective effect of combinations of polyphenols and triterpenoids against salmon viral infections based on their immune-stimulating and anti-inflammatory activity.

### MAIN OBJECTIVES



FOOD



FEED



HEALTH



COSMETICS



PHARMA



CHEMICAL

### PARTNERS INVOLVED



### TECHNICAL DEVELOPMENTS

Antioxidant capacity  
tested on live nematodes



Protection against oxidative  
and thermal stress

Cosmetics application



Encapsulation in  
formulation trials

Cell cultures and  
microbiota models



Inhibition of pathogens  
(*C. difficile*)

Assessment of gastro-  
intestinal release



Successful release in *in vitro* models

16 partners | 9 EU countries



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Bio-based Industries  
Consortium

