

# DEVELOPING AND DEMONSTRATING THE PRODUCTION OF MULTIPLE, HIGH-VALUE PRODUCTS FROM CROP AND FOOD-PROCESSING WASTE.

## Partners

IRIS Innovació i Recerca Industrial i Sostenible SL (Spain)

AIMPLAS Asociación de Investigación de Materiales Plásticos y Conexas (Spain)

UGENT Universiteit Gent (Belgium)

INSTM Consorzio Inter Universitario Scienza e Tecnologia dei Materiali (Italy)

IRTA Institut de Recerca i Tecnologia Agroalimentàries (Spain)

NOFIMA AS (Norway)

ITENE Instituto Tecnológico del Embalaje, Transporte y Logística (Spain)

UNIBO Università di Bologna (Italy)

FRAUNHOFER Fraunhofer gesellschaft zur foerderung der angewandten forschung e.v (Germany)

SSICA Stazione Sperimentale per l'Industria delle Conserve Alimentari (Italy)

UCD University College Dublin (Ireland)

UAL Universidad de Almería (Spain)

BIOVALE Biovale Ltd (United Kingdom)

ARDAGH Ardagh Group Italy Srl (Italy)

FCAC Federació de Cooperatives Agràries de Catalunya(Spain)

FIAA Fachverband der nahrungs und genussmittelindustrie (Austria)

PCS Gospodarsko interesno zdruzenje grozd plastehnika (Slovenia)

CHIESA Chiesa Virginio (Italy)

EXERGY Exergy Ltd (United Kingdom)

ARCHA Laboratori ARCHA s.r.l (Italy)

FEMTO Femto Engineering SRL (Italy)

LC Laser Consult Ltd. (Hungary)

MYCOPLAST Mycoplast di Federico Maria Grati e Stefano Babbini S.n.c. (Italy)

OWS Organic Waste Systems NV (Belgium)

BPF Bioprocess Pilot Facility B.V. (Netherlands)

FERTINAGRO Fertinagro Nutrientes, S.L. (Spain)

GAVIPLAS Gaviplas, S.L. (Spain)

BARILLA Barilla G.E.R. Fratelli SPA (Italy)

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**IN EUROPE, AROUND 90 MILLION TONNES OF FOOD AND 700 MILLION TONNES OF CROP ARE WASTED EVERY YEAR.**



## Four new agri-value chains from waste

Agrimax will demonstrate the potential of residues and by-products from the processing of tomatoes, olives, cereals and potatoes. The project will maximise the EU's sustainability, while providing new bio-based compounds for the chemicals, food-packaging and farming sectors.



## Cascade of high-value, bio-based products

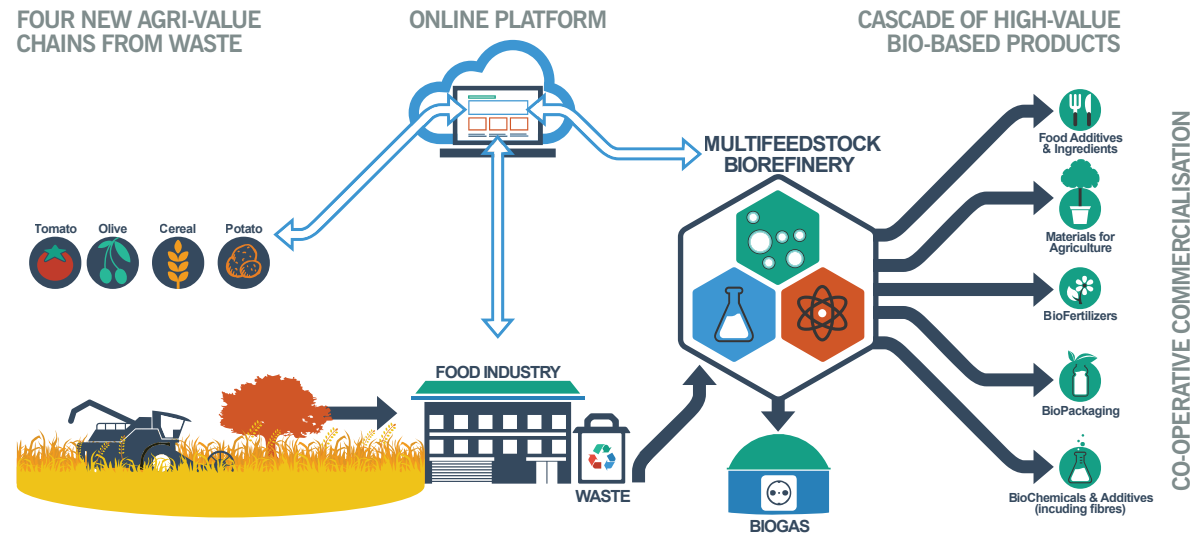
By applying multiple processes to these waste streams, a cascade of new, bio-based compounds will be produced with applications in:

- packaging (bio-polymers, bio-composites, bio-based coatings, active packaging, stabilising agents)
- food (additives, ingredients, natural flavourings, edible coatings, microbial growth media)
- agricultural materials (biodegradable pots, mulching films, bio-fertilisers)

End users will test these products to validate their cost effectiveness and performance. Any remaining biomass will be used for biogas or returned to the land for soil enrichment.

## Flexible, multi-feedstock pilot processing plants

Two pilot processing plants (biorefineries) in Spain and Italy will use unavoidable waste from cereals, olives, potatoes and tomatoes. An online platform to coordinate the provision of waste will help maximise the use of these pilot plants throughout the year.



## Co-operative routes to commercialisation

Along with assessments of the environmental, social and economic sustainability of this approach, the project will develop business models for its full-scale commercial adoption by agricultural cooperatives.

