

## Foodwaste for Foodpack

### Summary

The innovative pilot project Foodwaste for Foodpack aims to recover waste from the fruit and vegetable processing industry as a resource for obtaining fibre-based packaging materials for the agrifood industry.

This industrial symbiosis aims to contribute to the use of waste from fruit and vegetable processing companies, turning it into a local resource for the packaging sector that offers an alternative to virgin raw materials such as plastic and cellulose.

### Objectives

- Recover food waste from food processing (food waste from production processes).
- Reduce the use of virgin raw materials, mainly plastic, as packaging material.
- Design to ensure the final recovery of the packaging.

### Description of the actions carried out in the project

- **Activity 1.** Sorting waste from fruit and vegetables.
- **Activity 2.** Pre-treatment of fruit and vegetable waste to obtain fibre-based materials.
- **Activity 3.** Obtaining fibre-based materials from fruit and vegetable juice residues.
- **Activity 4.** Applications of waste fibre-based materials as packaging for the agrifood sector.
- **Activity 5.** Dissemination of results and transfer to the sector.

### Final results and practical recommendations

- In economic terms, this innovation project aims to promote national competitiveness in the agrifood and packaging sector through the circular economy. This will be done by enabling agrifood companies to recover their organic waste and turn it into a high value-added by-product, which also facilitates its efficient, cross-cutting use in the logistics system through sustainable primary and secondary packaging.
- For society in general, it aims to meet the needs of aware consumers in their sustainable purchasing decisions. This process philosophy will favour a more environmentally friendly productive economy.
- In environmental terms, this industrial symbiosis aims to facilitate reuse of agrifood waste and turn it into a renewable and local resource for the packaging industry. This will help favour new ways of recovering organic waste (surplus in Catalonia) and thus boost the circularity of resources in the region. This will be based on all the formulations carried out in the project being biodegradable and compostable, in line with eco-design criteria. Finally, the result is also expected to contribute to avoiding dependence on non-renewable materials, such as plastic, or renewable but virgin materials, such as cardboard, in the packaging sector.

### Leader of the Operational Group

**ORGANISATION:** AMETLLER ORIGEN OBRADORS, SL

**Coordinator of the Operational Group**

ORGANISATION: PACKAGING CLUSTER ASSOCIATION

**Other members of the Operational Group (grant recipients)**

ORGANISATION: DELAFRUIT, SL

**Other members of the Operational Group (not recipients of the grant)**

ORGANISATION: IRTA - Institute of Agrifood Research and Technology

ORGANISATION: UNIVERSITY OF GIRONA

ORGANISATION: SAMTACK, SL

ORGANISATION: GRÁFICAS SALAET, SA

ORGANISATION: MERCADOS DE ABASTECIMIENTOS DE BARCELONA, SA

ORGANISATION: BARCELONA FREE TRADE ZONE CONSORTIUM

**Subject area(s) of application**

- Agricultural production system
- Agricultural practice
- Agricultural equipment and machinery
- Livestock farming and animal welfare
- Vegetable production and horticulture
- Landscape / Territorial management
- Pest and disease control
- Fertilisation and nutrient management
- Soil management
- Genetic resources
- Forestry
- Water management
- Climate and Climate Change
- Energy management
- Waste and by-product management
- Biodiversity and environmental management
- Food quality/processing and nutrition
- Supply chain, marketing and consumption
- Competitiveness and agricultural and forestry diversification
- General

**Geographical area(s) of application**

PROVINCE(S)	REGION(S)
Barcelona, Tarragona, Girona	Alt Penedès, Vallès Occidental, Baix Camp, Vallès Oriental, Gironès, Baix Llobregat, Terra Alta, Barcelonès

**Dissemination of the project (publications, conferences, multimedia, etc.)**

A Communication Plan has been drawn up with the consortium for this project. Dissemination of the

project so far is given below:

- [Project presentation](#) on the Packaging Cluster website
- [Press release](#) published on the Packaging Cluster website
- [Publication](#) of the press release in the Packaging Cluster LinkedIn account
- [Publication](#) of the press release in Packaging Cluster Twitter account
- [Dissemination of the press release](#) in the Packaging Cluster Twitter account
- Media dissemination of the press release: [IDE Packaging Information](#)
- Media dissemination of the press release: [EnvasPres](#)
- Dissemination of the press release on the platform [ECCP](#)
- Dissemination of the press release on the website [Rural.cat](#)
- Dissemination of the press release on the website [Fegg](#)
- Dissemination of the press release on the website [Techpress](#)
- Dissemination of the project on the website of the [Empack 2022 Trade Fair](#)

Dissemination (publications, conferences, multimedia materials) will be continuous throughout the project, with various publications on social media, presentation of the project at events attended by the operational group and the production of the project final video.

### Project website

Presentation of the project on the [website](#) of the Packaging Cluster and [press release](#).

### More information on the project

PROJECT DATES	TOTAL BUDGET
<b>Starting date:</b> July 2021	<b>Total budget:</b> €140,606.88
	<b>DACC funding:</b> €65,024.05
<b>Current status:</b> Under way	<b>EU funding:</b> €49,053.23
	<b>Own funding:</b> €26,529.60

### With funding from:

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*Order ARP/113/2021 of 20 May, approving the regulatory bases for grants for cooperation for innovation by promoting the creation of European Association for Innovation operational groups in the areas of agricultural productivity and sustainability and the execution of innovative pilot projects by those groups, and Resolution ACC/1660/2021, of 27 May, announcing the call for the grant.*

