



Co-funded by
the European Union

LIFE CLOOVER

2023-2026 WP6

Cloover²



Closed-**LOO**ps **VER**ification of **R**eused and **R**ecycled polyolefins drums and crates

Total budget: 2.657.109.60€
% EC co-funding: 60%



Coordinating Beneficiary: SINTAC-R
Associated Beneficiaries:

- ✿ Amafruva
- ✿ CAPEC
- ✿ Agrofresh Fruit Protection
- ✿ Palec Ecológico
- ✿ Reyde

Objectives & Scope

To implement in Spain (first stage) and to replicate in other EU countries (smart tool-kits), a scalable, holistic and certified system of closed-loops, combining reuse & recycling traceable solutions for polyolefins drums, jerrycans and crates, used in the agri-food sector, in line with EFSA food safety criteria



Key actions

For commercial plastic packaging (PP & HDPE crates)

- Deposit Return Scheme (Crates reusing under UNE standard)
- Manufacture of crates for fruits & vegetables made of 100% recycled
- Recycling closed-loop Guidelines according to EFSA requirements
- Traceability system and Digital Platform (stream control)
- Quality Control and Testing: physical-mechanical and migration tests

For industrial plastic packaging (HDPE drums & jerrycans)

- Manufacture of HDPE drums and jerrycans, for food and non-food sector
- Collection, Conditioning and Recycling closed-loop Guidelines
- Plastics recycled for food contact: EFSA Dossier Submission
- Traceability system and Digital Platform (stream control)
- Testing: physical-mechanical and migration tests



FOOD SAFETY & SUSTAINABILITY (reuse&recycling)

PLASTICS PACKAGING



Key actions

LIFE-CLOOVER will improve 5 KPIs:

- + Reuse Rate
- + Recycling Rate
- + Circular Material Use
- + landfill diversion
- + GHG emissions avoidance





EU Policy

- EU Green Deal. New Circular Economy Action Plan
- Farm to fork Strategy
- EU Strategy for Plastics in a Circular Economy
- P&PWD Directives and new Regulation (draft)
- EU Regulations on recycled plastic materials and articles intended to come into contact with foods

National Policy

- Waste Law 7/2022 (april 2022)
- Royal Decree on Packaging & Packaging Waste 1055/2022 (dec 2022)

Regional Policy

- Waste Law 5/2022 for the promotion of Circular Economy in C. Valenciana (feb 2023)

Continuation

REPLICATION AND TRANSFER

- Implement of demo-pilots in Spain (Region of C. Valenciana).
- **Guidelines for scale-up in other areas in Spain**: Catalanian, Murcia, Madrid and Andalucía
 - LIFE CLOOVER2 has the commitment of support of 21 stakeholders in Spain (public administrations, associations and companies of the value chain)
- **Smart tool-kits for replicate and transfer in other EU countries**: France and Germany, mainly External Advisory Board consisting of 3 relevant entities in Europe:
 - EXPRA, European Association of EPR Schemes for packaging
 - RIGK in Germany, EPR scheme for Commercial and Industrial Packaging
 - VALIPAC in Belgium, EPR scheme for Commercial and Industrial Packaging

MARKET UPTAKE

The companies in Europe that put their products in the market using industrial and commercial packaging need to assume the Extended Producer Responsibility (EPR). will help them to implement that commitment, producing changes in the market along the value chain