



LIFE CIRC-ELV

LIFE17 ENV/ES/000438



## LIFE CIRC-ELV

BOOSTING CIRCULAR ECONOMY OF PLASTICS FROM END-OF-LIFE VEHICLES THROUGH RECYCLING INTO HIGH ADDED-VALUE APPLICATIONS

### **Deliverable D\_B7.5.**

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Disseminationlevel		
PU	Public	✓
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

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## 1. Summary and Objectives

This deliverable is intended to show the results of all activities that the project members have made in order to transfer the knowledge and all findings obtained during the project to other areas and the EU and also to other sectors so that it can be replicated.

The actions made were divided in two levels:

- LEVEL 1: focused on the three regions where the project partners are located (France, Portugal and Spain) but especially in Spain and France where INDRA and SIGRAUTO operate. These activities have been carried out from month 15 to month 24.
- LEVEL 2: focused on the countries of core stakeholders, more than 89 organizations have been identified as stakeholders, these activities have been carried out from month 24 to month 44.

More specifically, the aim is to have 5% of ELVs in the EU treated under CIRC-ELV model by 2026. Therefore, the whole effort in this Replicability & Transferability activities is addressed to guarantee that at least the project set the basis to uptake CIRC-ELV model in at least 30 ATFs all around EU.

## 2. Work Done

All partners, led by SIGRAUTO, and with the main support of AIMPLAS as coordinator, have contributed to the different stages.

The activities foreseen for obtaining the results have been:

- scheduled visits to ATFs, dissemination & networking activities, discussion within the working expert group and strong cooperation with stakeholders.
- Two specialised workshops (incl. work sessions and demonstration activities) organised to engage new stakeholders to take part actively in the project, uptaking the results and sharing experiences.

### 2.1.1. Stakeholders involvement

There has been a lot of effort in contacting entities and companies that could be interested in the project findings and help the consortium in some of the activities needed to reach the project goals.

After having contacted 90 entities and companies, 27 of them have decided to become official stakeholders and from those 27, the consortium proposed 5 of them (one in each category: public administration, ATF-shredder, Recycler, Manufacturer) to become core stakeholders and members of the project advisory board.



### 2.1.2. Scheduled visits to ATFs

Although the LIFE CIRC-ELV project involves all actors from the ELV treatment to the plastic recycling chain, it will only be possible to implement the project results if ATFs get involved and start extracting the plastic parts following the processes developed during the project.

LEVEL 1: there have been several visits to ATFs in the three regions where the project partners are located (France, Portugal and Spain).

LEVEL 2: in order to get ATFs located in other areas of the EU informed about the business model and all technical, economic and environmental aspects a specific Workshop was organized by INDRA at their facilities. In addition, to be more effective, we have had the support of the ELV organizations that have become project stakeholders. These organizations will be of great help in spreading the information about the project in their respective countries so that the ATFs could ask for guidance in order to implement the model at their facilities.

### 2.1.3. Dissemination & Networking activities

Another way of having not only ATFs but also plastic recycling companies or compounders aware of the results and maybe interested in knowing more in order to try to replicate the project in their business environment is through the dissemination and networking activities.

This is not the place to indicate all dissemination and networking activities carried out and foreseen during the project but it is clear that many ATFs, recyclers, compounders and even vehicle and parts manufacturers have received some of the information regarding the project through these activities that include:

- **Project website:** already in place with a lot of interesting information about the project.
- **Social Media:** the communications through the partners social media profiles help also to disseminate the project in a very effective way.
- **Attendance to professional events/conferences:** the partners have already attended to a lot of events and will continue to do so where new contacts are made and where the CIRC-ELV project is disseminated.
- **Media releases:** by launching media releases or communications, the LIFE project will also be spread and known by the general public but especially in the ELV and the plastic recycling sectors.

All these activities are well-described and being carried out in Action D.



### 2.1.4. Specialized Workshops

In order to reach more possible ATFs, recyclers, compounders and/or car and part manufacturers, two specialized workshops were organized by the project consortium when all the results were available. These two workshops focused in trying to engage new stakeholders to take part actively in the project, up-taking the results and sharing experiences.

## 3. Results obtained

### 3.1. Transferability

ATF in Spain has implemented the system at his premises and that two more are still looking for a viable recycling route in order to implement it. Also in Portugal there is an ATF analysing the possibilities of implementing the system. In LEVEL 2, other institutions such as recyclers, compounders or plastic parts manufacturers show interest on the project.

### 2.1. Replicability

Compound Recycled PP has been identified as potential user of the production of different products and more specifically they were tested in bait station for pest control (mouses). The Compound Recycled HDPE was tested in flexible multipurpose baskets.



Bait station for pest control (mouses) produce with IS D339/2020/12-PP



**Flexible multipurpose basket produce with IS D339/2020/05-HDPE**

In both production (bait station and basket) the control quality of the production went well. The client approved these materials and it's an open market for use the recycled materials that came from the automotive industries (PP bumpers and HDPE deposits).

From SIGIT, and since their appliance division did not found an application in which to use this type of material, a search was made for possible applications for this type of recycled materials, both with raw material suppliers and with appliance manufacturers, and confirmed that they are already working with recycled materials. Some of the applications in household appliances are:

- Refrigerator compressor support reinforcement
- Base "Aquistop" washing machines
- Cooktop vent filter support

In many cases, the formulation of the material should be optimized for the specific application, but both the Isolago tests and the search carried out show solutions to these types of materials.