



LIFE CIRC-ELV

LIFE17 ENV/ES/000438



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

Deliverable D_B7.1.

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Dissemination level		
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 program all activities that the project members will make 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 ultimate goal of this plan is to spread as much as possible the LIFE CIRC-ELV (total or partially), in as many EU regions/ATFs as feasible, both from the technical and economic point of view, so that LIFE CIRC ELV continuity is ensured after the project end.

In order to help the members on this task, the advisory board will help to identify the barriers and opportunities in each involved region/country in relation with the LIFE CIRC-ELV model and to which degree it can be adapted and replicated there.

The plan will be 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 will be carried out from month 15 to month 24.
- LEVEL 2: focused on the countries of core stakeholders. At this moment there are 4 ELV-organizations that have become stakeholders: ARN (Netherlands), ELVES (Ireland), FEBELAUTO (Belgium) and VALORCAR (Portugal). These activities will be carried out from month 24 to month 36.

In the project proposal it was stated that the plan will include at least 5 geographical areas: 2 in Level 1 and 3 in Level 2 and with the actual stakeholders we are aiming to 2 in Level 1 and 4 in Level 2.

By successfully implementing this plan, the main overall project objectives will also be achieved in each of those regions/ATFs, and consequently these implementations will contribute to the improvement of the global KPIs (setting the right basis to reach the KPIs foreseen after 5 years of the project end).

More specifically, the aim is to have 5% of ELVs in the EU treated under CIRC-ELV model by 2026. Therefore, the whole effort purchased in this Replicability & Transferability Plan 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.

The achievement of this plan will end in the fulfilment of Milestones M_B7.1. Replicability & Transferability Plan successfully executed, by the project end.



2. Work Progress

The methodology followed is clearly described in Annex I-Part B, under Action B7.1 & B7.2. 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 expected are:

- 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) will be organised to engage new stakeholders to take part actively in the project, up-taking the results and sharing experiences.

In the different consortium meetings until Month- 18 (March 2020), the following specific actions were agreed as part of the plan:

2.1.1. Stakeholders involvement

Based on above strategy, LIFE CIRC-ELV consortium carried out the preliminary activities to set up a group of stakeholders and be capable of chosen among them the Group of experts (Core stakeholders).

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 (see Annex, with those contacts chosen as part of the ADVISORY GROUP, the ones who accepted to be STAKEHOLDERS and the rest that were contacted, but that finally did not join the project), 26 of them have decided to become official stakeholders and from those 26, 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.



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Up-to-date (end March 2020), 4 of those chosen stakeholders accepted to be member of the core group.

Working Group of Experts



There was a first conference call meeting on 28th November 2019, with this advisory board where the project was presented to them as well as a first update on the progress in the different activities programmed.

There are two more meetings planned with this core advisory board: a first one around September 2020 to analyze the strategy for replicability and transferability and a second one around September 2021 for presenting the replicability/transferability results and guidelines for validation and proposal of further measures.



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. This is why we have put the focus on visiting ATFs in order to inform them about the project, see their reactions, evaluate their capabilities, etc.

LEVEL 1: there have already been several visits to ATFs in the three regions where the project partners are located (France, Portugal and Spain) although the idea is to arrange more visits as the project results evolve. The following table shows, for example, the visits already made by the members in this LEVEL 1:

Date	ATF name	Location	Partner
19/12/2018	Desguaces Malvarrosa	Ribaroja	INDRA + SIGRAUTO
20/12/2018	Desguaces la Torre	Torrejón de la Calzada	INDRA + SIGRAUTO
20/12/2018	Desguaces El Choque	San Martín de la Vega	INDRA + SIGRAUTO

Each partner (basically DESGUACES CORTÉS, INDRA and SIGRAUTO) have to fill in the information on the visits or even specific conf calls to ATFs that has carried out in the rest of the project life.

LEVEL 2: The visits to ATFs located in other areas of the EU will start in 2021 once the business model and all technical, economic and environmental aspects have been solved. In order to be more effective, we will have the support of the ELV organizations that already have decided to become project stakeholders. These organizations will be of great help in choosing which ATFs should be visited in their geographical areas, taken into account the findings regarding the requirements that a generic ATF needs to implement the CIRC-ELV management model and results in its facility.

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 will receive 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. Their corresponding deliverables will give evidence of these activities, supported by the Dissemination & Communication sheets generated in each activity.

2.1.4. Specialized Workshops

In order to reach more possible ATFs, recyclers, compounders and/or car and part manufacturers, specialized workshops will be organized by the project consortium. There will be two specialised workshops (incl. work sessions and demonstration activities) will be organised to engage new stakeholders to take part actively in the project, up-taking the results and sharing experiences. The workshops will be held during the last 9-month period of the project, once the main project results have been validated.

2.1.5. Activities in standardization committees

AIMPLAS is member of several technology platforms, clusters, associations, networks, etc. On the one hand, AIMPLAS takes part in international and national research networks and technological platforms, with the objective to support the research and competitiveness of enterprises in their use with plastic materials. There is a list of more than 50 platforms, clusters, associations or similar, where AIMPLAS is member or at least has a kind of representation or feedback from their activities or strategic agendas, aligned with the corresponding industry sectors. Among the most relevant ones, are the following. As can be seen, some of them can be a direct/indirect way of fostering the project results, and to make pressure in the society and industry for future standardizations aspects.

Name of the Platform/Cluster/Association	Scope
ADDIMAT Asociación Española de Tecnologías de Fabricación Aditiva y 3D	Spain
AEG Alianza Española en Grafeno	Spain
AESICOM Clúster de las empresas españolas de composites.	Spain
ASOBIOCOM Asociación Española de Plásticos Biodegradables Compostables	Spain
BBI-Biobased: Bio-Based Industries Joint Undertaking	Europe
BIOPLAT: Plataforma Tecnológica Española de la Biomasa	Spain



BIOVAL: Bioregión de la Comunitat Valenciana.	Spain- C. Valenciana
ECP4: European Composites Plastics & Polymer Processing Platform	Europe
EFE Asociación de Embalaje Flexible España	Spain
EEN Enterprise Europe Network SEIMED	Europe
Envase y Sociedad: Plataforma por la sostenibilidad de los envases	Spain
EuPC European Plastic Converters	Europe
European Bioplastics. Asociación Europea de Bioplásticos	Europe
FEDIT Federación Española de Centros Tecnológicos	Spain
IMAUT: Innovación en Movilidad, Automoción y Transporte	Spain. C. Valenciana
MANU-KET Plataforma tecnológica de la fabricación avanzada	Spain
MATERPLAT Plataforma Tecnológica Española de Materiales Avanzados y Nanomateriales.	Spain
Move to future: Plataforma de la automoción y la movilidad.	Spain
Nanofutures: European initiative for sustainable development by Nanotechnologies	Europe
NOAE Network of Automotive Experience	Europe
PLASTIVAL Clúster Industria Plástica de la Comunidad Valenciana	Spain C. Valenciana
PTEPA: Plataforma Española de la Acuicultura y la pesca	Spain
PTFE: Plataforma Tecnológica Ferroviaria Española	Spain
REDIT Red de Institutos Tecnológicos de la Comunitat Valenciana	Spain. C. Valenciana
Save for food: Save for food initiative	Spain
Suschem: Plataforma Tecnológica de Química Sostenible	Spain
Technology Platform 3NEO. Plataforma tecnológica española de nuevos materiales, nuevas propiedades y nuevos procesos de tecnologías de impresión e industrias afines	Spain

The interchange of R&D management tools as well as a know-how transfer allow us to be pioneers in the needs of the business field and the latest technologies.

From that forums, AIMPLAS can influence and make lobby in certain key groups to promote the project benefits and asses the potentiality of the project solutions in the standardization issues.

On the one hand, AIMPLAS has direct participation the following Standardization Committees:

- National: AEN / CTN 53 / CTC032 Certification Committee for bituminous sheets AENOR; AEN / CTN 53 / GT 2 "Agricultural Film"; AEN / CTN 53 / GT1 "PVC profiles for doors, windows, blinds and fittings"; AEN / CTN 53 / SC7 "Tanks"; AEN / CTN 53 / SC 4 "Containers and Packaging"; AEN / CTN 53 / SC 4 / GT "Tote Bags"; AEN / CTN 53 / SC 4 / GT "EPS Boxes"; AEN / CTN 53 / SC 8 "Recycled Materials"; AEN / CTN 53 / SC1 "Elastomers"; AEN / CTN 53 / SC2 "Plastic pipes and fittings"; AEN / CTN 53 / SC2 GT "GLP Tubes"; AEN /



CTN 53 / SC3 "Cellular materials"; AEN / CTN 53 / SC5 "Reinforced materials"; AEN / CTN 53 / SC6 "Raw material specifications and test methods": AEN / CTN 53 / SC6 / GT "Biodegradability and biobased products"; AEN / CTN 53 / SC9 "Tires out of use";

- International: CEN/TC 249/WG 7/TG 1 "Plastics - Biodegradable mulch films for use in agriculture and horticulture", ISO TC61 (Plastics)/SC2: Mechanical Properties and ISO/TC 138/SC 05/WG 05 "Polyolefin pipes"; UNE/CTN 323 "Economía circular" & ISO/TC Circular Economy.

Since the beginning of 2020, AIMPLAS has a department specifically devoted to Tenders & Standardization issues, with people expert in the different standardization committees, sub-committees and working groups; within the plastic industry and related ones. Thanks to the help of this department, there will be a direct link between the project partners and those groups responsible for writing and approving potential standard, which can include any improvement proposed by the project results.

3. Conclusions

This document shows the Replicability & Transferability steps within the rest of the project's life, that all consortium partners must perform, to ensure that the minimum impacts foreseen in the KPIs for the replicability and transferability of the project results are achieved.

In each consortium project meeting, every 6 months, partners will review the status of those activities and contingency measures will be implemented if necessary, according to *Action E.1.2.- Monitoring of the project actions*.



4. Annex 1 – Stakeholder involvement list

Due to legal reasons this document does not contain any contact details

Acronym	Name of the stakeholder	Contact person	Country	Partner responsible	Situation
MI-PLAST	MI-PLAST d.o.o.	Filip Miketa	Croatia	AIMPLAS	STAKEHOLDER
VALORCAR	Sociedade de Gestão de Veículos em Fim de	Ricardo Furtado	Portugal	SIGRAUTO	STAKEHOLDER
ACTECO	ACTECO PRODUCTOS Y SERVICIOS, S.L	Alma Gomis Nieto	Spain	AIMPLAS	ADVISOR
FEBELAUTO	Febelauto VZW	Anne Vandeputte Catheri	Belgium	SIGRAUTO	STAKEHOLDER
BORNOVA	Bornova Belediyesi	Erdem Muhtaroglu	Turkey	AIMPLAS	STAKEHOLDER
ELVES	ELV Environmental Services CLG	Elena Wrelton	Ireland	SIGRAUTO	STAKEHOLDER
OVAM	Public Waste Agency of Flanders	Lies Verlinden Annelie	Belgium	AIMPLAS	STAKEHOLDER
CMPLASTIK	CMPLASTIK RECYCLING S.L	Carlos Martínez	Spain	AIMPLAS	STAKEHOLDER
CAMARA	Cámara de Comercio de Valencia	Rafael Mossi Peiró	Spain	AIMPLAS	STAKEHOLDER
CICLOPLAST	CICLOPLAST, S.A.	Isabel Goyena	Spain	AIMPLAS	STAKEHOLDER
MCHT	MEDITERRANEAN Chemical Technologies S.L	Rafa Llarío Sempere	Spain	AIMPLAS	STAKEHOLDER
IYTE	Izmir Institute of Technology	Aysun Sofuoglu	Turkey	AIMPLAS	STAKEHOLDER
ACR+	Association of Cities and Regions for Recycl	Philippe Micheaux Naudet	Belgium	AIMPLAS	STAKEHOLDER
ANAIP	Asociación Española de Industriales de Plás	Mª Carmen del Amo	Spain	AIMPLAS	STAKEHOLDER
ANIACAM	La Asociación Nacional de Importadores de	Victor Garcia Alía	Spain	SIGRAUTO	STAKEHOLDER
SEAT	SEAT	Mar Villacampa Perez	Spain	AIMPLAS	STAKEHOLDER
CONAMA	Fundación CONAMA	Javier Ferrer (DV)	Spain	DV	STAKEHOLDER
SSSUP	Scuola Superiore Sant'Anna	Filippo Corsini	Italy	AIMPLAS	DONE
ANFAC	Asociación Española de Fabricantes de Auto	Arancho García Hermo	Spain	AIMPLAS	STAKEHOLDER
ADECOVA	Asociación de Desguaces De la Comunidad	JUAN CUADROS	Spain	DESQUACE CORTES	DONE
IBER RESINAS	IBER RESINAS	SANTIAGO SANZ FERRANDO	Spain	DESQUACE CORTES	DONE
ZORTON PLASTICO	ZORTON PLASTICO	ANTONIO MARTINEZ	Spain	DESQUACE CORTES	DONE
ALMENAR	NISSAN ALMENAR	SERGIO TORREGLOSA	Spain	DESQUACE CORTES	DONE
GVA	CONSELLERIA DE MEDIOAMBIENTE	ALEJO COSTA	Spain	DESQUACE CORTES	DONE
VAERSA	VAERSA	FERNANDO HORTELANO	Spain	DESQUACE CORTES	DONE
HENSEL RECYCLING	HENSEL RECYCLING	ANNA MARCHISIO	Germany	DESQUACE CORTES	DONE
GRUPO TRAGSA	TRAGSA	VICENTE MOLERO	Spain	DESQUACE CORTES	DONE
ÖCAR	ÖCAR Automobilrecycling GmbH	Pla Kleihls	Austria	SIGRAUTO	DONE
ABN	ABN Pipe Systems	Rosa Ana Campo Arnaiz	Spain	SIGRAUTO	DONE
REPSOL	REPSOL	Roberto M. Gómez Bernardo	Spain	SIGRAUTO	ADVISOR
SCHOLTZ	Scholtz	Beate Kummer	Germany	SIGRAUTO	DONE
WIPAG	ALBIS/WIPAG	Bernd Sparenberg	Germany	SIGRAUTO	DONE
CALLPARTS	Callparts-recycling	Matthias Prietzel	Germany	SIGRAUTO	DONE
GALEA POLYMERS	Galea Polymers	Juan Carlos Sánchez	Spain	SIGRAUTO	DONE
TRANS SABATER	Trans Sabater	N.A.	Spain	SIGRAUTO	DONE
GRUPO GW PLASTICS	GREEN WORLD BCOMPOUNDING	Isidoro Román	Spain	SIGIT	DONE
CITSALP	CITSALP	Pablo Tamarit Romero	Spain	SIGIT	DONE
ASP	ASP - Indústria de Plásticos	FRANCISCO BERNARDES	Portugal	ISOLAGO	STAKEHOLDER
CEP	C E P	William Schopp	France	ISOLAGO	DONE
APA	Agência Portuguesa do Ambiente	Isabel Lico	Portugal	ISOLAGO	STAKEHOLDER
SICOR	Sicor sociedade industrial de Cordoaria, S.	Vasco Reis	Portugal	ISOLAGO	STAKEHOLDER
AEDRA	AEDRA	Rafael Pardo	Spain	SIGRAUTO	STAKEHOLDER
FER	Federación Española de la Recuperación y e	Alicia García Franco	Spain	SIGRAUTO	STAKEHOLDER
ECOGLOBAL	ECOGLOBAL WASTE SOLUTIONS,S.L	ANTONIO FERROL TEROL	Spain	AIMPLAS	DONE
GIRSA	GESTIÓN INTEGRAL DE RESIDUOS SÓLIDOS, S	FRANCISCO NAVARRO	Spain	AIMPLAS	DONE
CTC	C.T.C. SERVICIOS AMBIENTALES, S.L	Miguel Ángel Romero López	Spain	AIMPLAS	DONE
CESPA	CESPA	JOAQUÍN ANDREU CASAPRIM	Spain	AIMPLAS	DONE
COGAMI	COGAMI RECICLADO DE GALICIA S.L	RAMÓN D. GARCÍA FIANJO	Spain	AIMPLAS	DONE
CORDOPLAS	CORDOPLAS, S.L	ALMUDENA MOYA	Spain	AIMPLAS	DONE
ESLAVA PLÁSTICOS	ESLAVA PLÁSTICOS, S.A.	ELISEO ESLAVA HERNANDEZ	Spain	AIMPLAS	DONE
GRANZAS ALSER	GRANZAS ALSER, S.L	HELENA GIL ARBIZU	Spain	AIMPLAS	DONE
LAJO Y RODRÍGUEZ	LAJO Y RODRÍGUEZ S.A.	FÁTIMA COLLANTES MARTÍN	Spain	AIMPLAS	DONE
NATUR CYCLE PLUS	NATUR CYCLE PLUS 2020 (SAYCA)	Mariana Sánchez	Spain	AIMPLAS	DONE
PLÁSTICOS ALSER	PLÁSTICOS ALSER, S.L	HELENA GIL ARBIZU	Spain	AIMPLAS	DONE
S. SOLIS	S. SOLIS, S.A.	Antonio Vega de La Viuda	Spain	AIMPLAS	DONE
SAICA	SAICA NATUR NORESTE.S.L	Mariana Sánchez Caputo	Spain	AIMPLAS	DONE
SINTAC	SINTAC RECYCLING,S.L	Pablo Martínez de Pison Sar	Spain	AIMPLAS	DONE
SOLTECO	SOLTECO MADERA PLASTICA S.L	ALFREDO PARDO	Spain	AIMPLAS	DONE
DESQUACES PENICHER	Desguaces Penichet	Tel. y Fax: 96 689 64 01	Spain	AIMPLAS	DONE
ANARPLA	ANARPLA	David	Spain	AIMPLAS	DONE
AVEP	AVEP	Cristine Monge Frontiñán	Spain	AIMPLAS	DONE
ALZIRA	Alzira	Ambrosio Ferrer	Spain	AIMPLAS	DONE
DIPUTACIÓN DE VALENCIA	Diputación de Valencia	Javier Ferrer	Spain	AIMPLAS	DONE
LAS NAVES	Las Naves	Francisca Hipólito	Spain	AIMPLAS	DONE
KOPRIVNICA	Koprivnica	Maja Balasko	Croatia	AIMPLAS	DONE
MANCOMUNITAT RIBERA ALTA	Mancomunitat Ribera Alta	Andrés Guerra	Spain	AIMPLAS	DONE
CALAF	Calaf Group	Rodrigo Verbal	Spain	AIMPLAS	DONE
ZICLA	Zicla	Clara Campos	Spain	AIMPLAS	STAKEHOLDER
ALQUIENVAS	Alquienvas	Maite Cases	Spain	AIMPLAS	DONE
GALLOO PLASTICS	Galloo Plastics	Olivier Francois	France	SIGRAUTO	ADVISOR
AXION	Axion	Richard McKinlay	United Kingdom	SIGRAUTO	DONE
BAQUELITE LIZ	BaqueLite Liz S.A.	Jaime Clemente	Portugal	ISOLAGO	DONE
JSL	JSL	Nuno Barroso	Portugal	ISOLAGO	DONE
AUTOGUAS SANT JORDI	Auto Guas Sant Jordi S L	Jordi Carretero	Spain	SIGRAUTO	DONE
NEUTROPLAST	Neutroplast S.A.	João Redol	Portugal	ISOLAGO	DONE
AUTODESGUACE OTONIEL	Autodesguace Otoniel S.L	Aida Cuadros	Spain	SIGRAUTO	DONE
ICRM	Impulse Circular Raw Materials	Toni Gallone	France	INDRA	DONE
ARN	Auto Recycling Netherland	Janet Kes	Netherland	INDRA	ADVISOR
AXION RECYCLING	Axion Recycling	Keith Freegard	United Kingdom	INDRA	DONE
SYNOVA SAS	Synova Sas	Marco Meloni	France	INDRA	DONE
RENAULT	Renault	Jean-Dennis Curt	France	INDRA	DONE
RECICLAUTO	Reciclauto	Josep Mª Escolano	Spain	SIGRAUTO	DONE
PSA GROUP	PSA Group	Veronique Morel	France	INDRA	DONE
DESQUACES EL CHOQUE	Desguaces El Choque	Gonzalo Pinto	Spain	SIGRAUTO	DONE
ADEME	Agence de l'Environnement et de la Maitrise	Eric Lecoître	France	INDRA	DONE
GLOBAL PARIS	Global Paris	Mª Angeles Franco	Spain	SIGRAUTO	DONE
MoE France	Ministère de la Transition écologique et sol	Bruno Miraval	France	INDRA	DONE
FERIMET	Ferimet	Pablo Blancafort	Spain	SIGRAUTO	DONE
DELFINCARD	Delfincard	Jose Martinez	Spain	SIGRAUTO	DONE