

EXPECTED RESULTS



New sustainable business value chain in the EU for ELV plastics recycling



12 Tonnes of recycled plastics produced



1000 ELVs treated



75% Carbon footprint reduction



90% Non-renewable energy demand reduction



New products made of recycled ELV plastics



15% Cost reduction for new products



5 EU regions, 3 sectors and 12 customers



Socio-economic benefits

FUNDING



This project has been co-funded with the support of the LIFE financial instrument of the European Union [LIFE17 ENV/ES/000438]

COORDINATING BENEFICIARY



AIMPLAS
INSTITUTO TECNOLÓGICO
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DESQUACE
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AUTOMOBILE RECYCLING



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CIRC-ELV
LIFE

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

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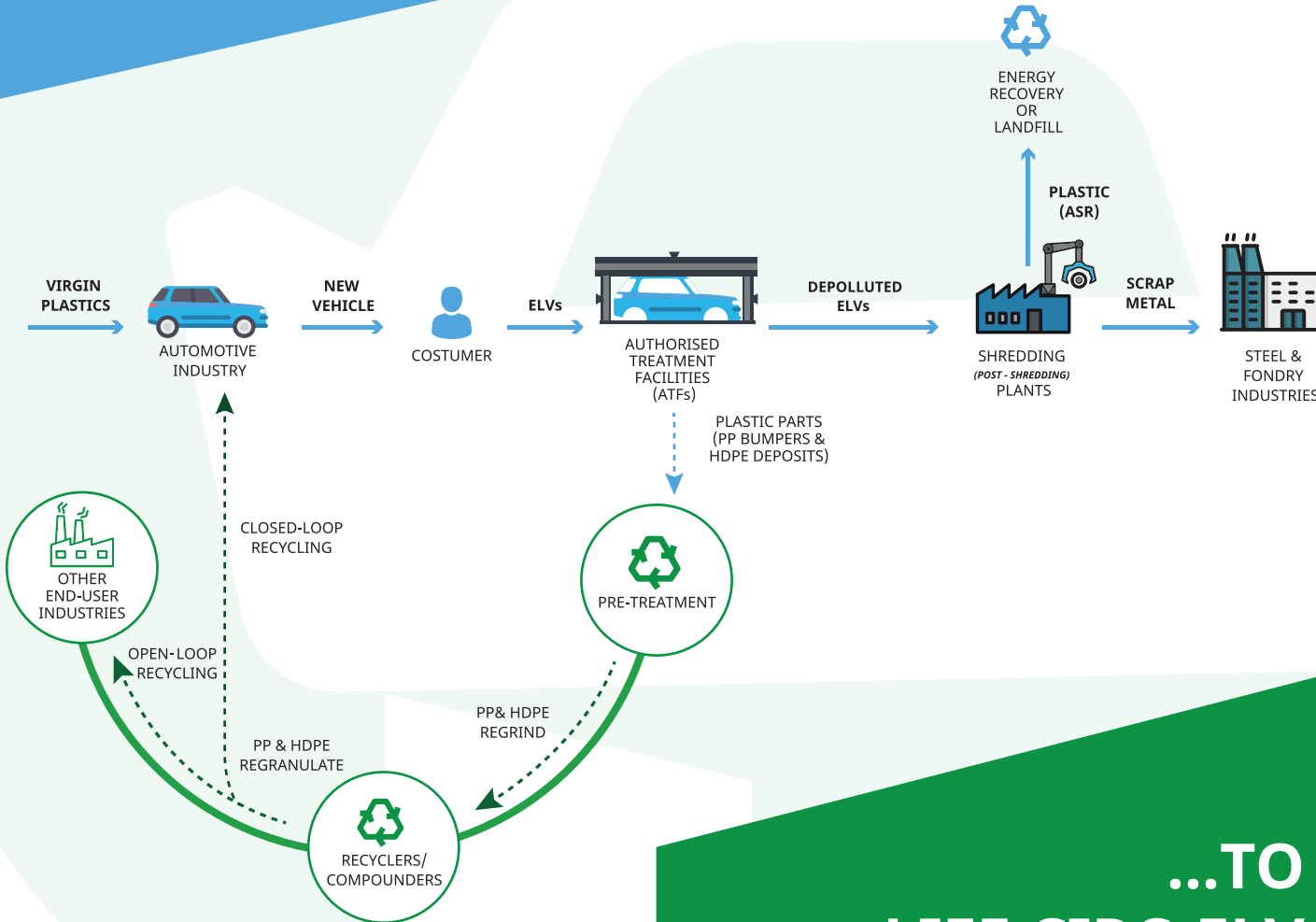
FROM CURRENT...

Primary driving forces for ELV (End of Life Vehicles) treatment:

- Removal of hazardous substances
- Recovering parts of interest
- Recycling of metals

Unsuitable recycling of ELV plastic mixture in ASR (Automotive Shredding Residue):

- High sorting costs from ASR
- Low quality of mixed result



Sorting at ATFs before shredding to enhance recycling potential of ELV plastic streams

...TO LIFE CIRC-ELV

30% ELV plastics recycled by 2020
(based on ELV Directive 2000/53/EC)

OBJECTIVES

1. Cost-effective dismantling and sorting of ELV plastics at ATFs
2. Obtaining ELV recycled plastics with improved properties
3. Validating the recycling open and closed loops
4. Demonstrating industrial feasibility of new recycled materials & products
5. Ensuring the sustainability of the new ELV management business model
6. Replicating and transferring the model to other regions & stakeholders