

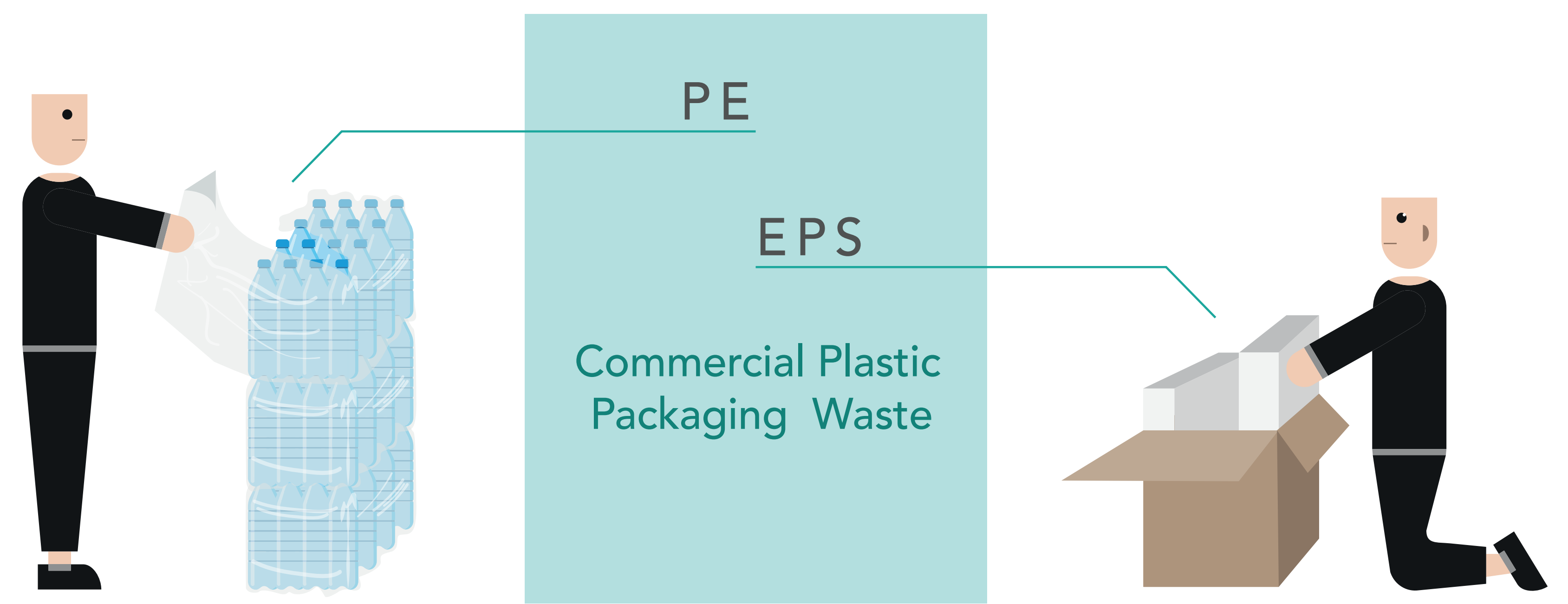


Circular economy of commercial plastic packaging in urban environments

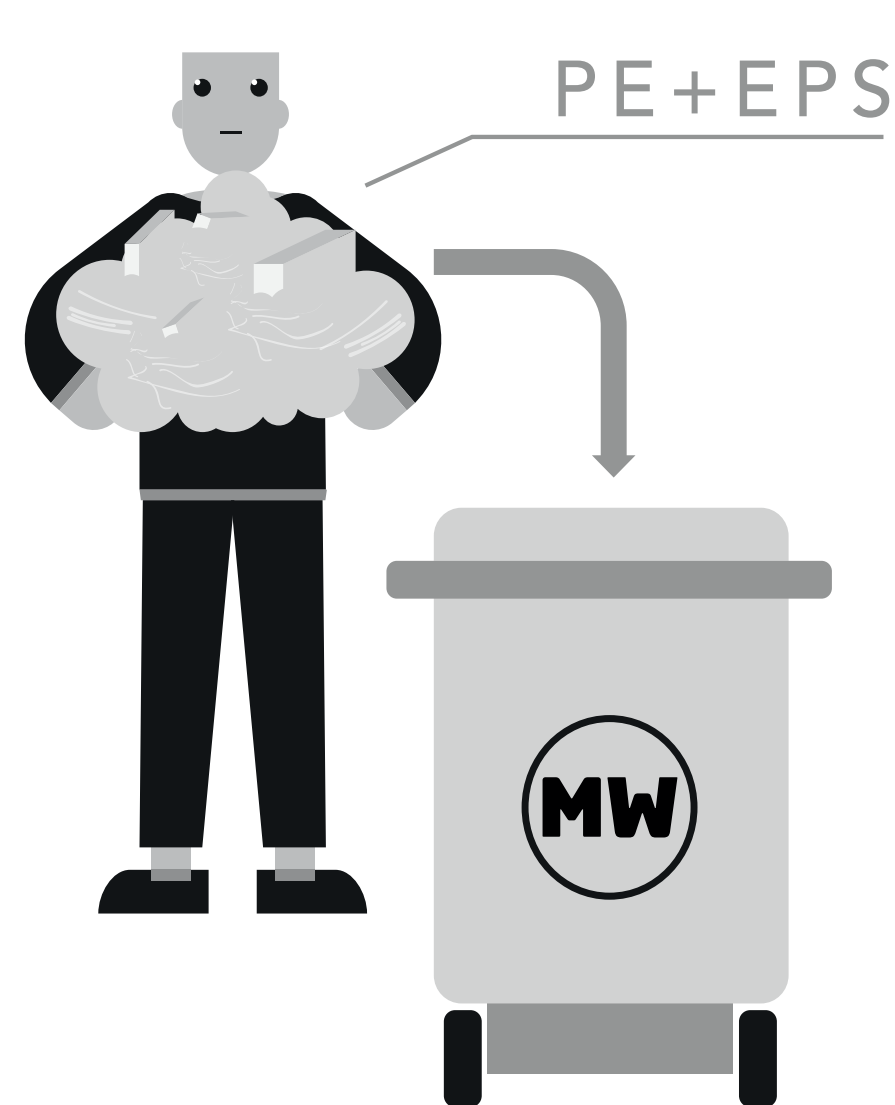
L I F E R E C Y P A C K

LIFE RECYPACK is a demonstration Project that addresses 4 different solutions to the current problems of managing Commercial Plastics Packaging Waste (CPPW), mainly Polyethylene (PE) and Expanded Polystyrene (EPS), in urban settings.

The environmental problems associated come from the management of this waste, currently deposited in standard municipal waste containers, together with household waste.



CURRENT WRONG ENVIRONMENTAL SCENARIO

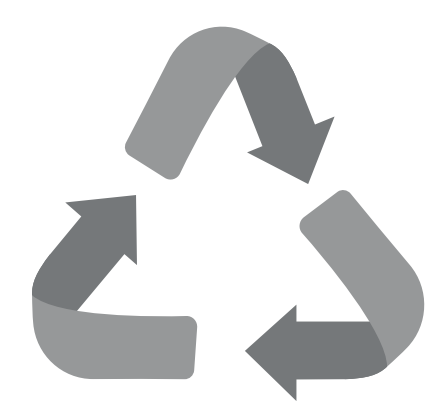


Waste Management Treatment Plant

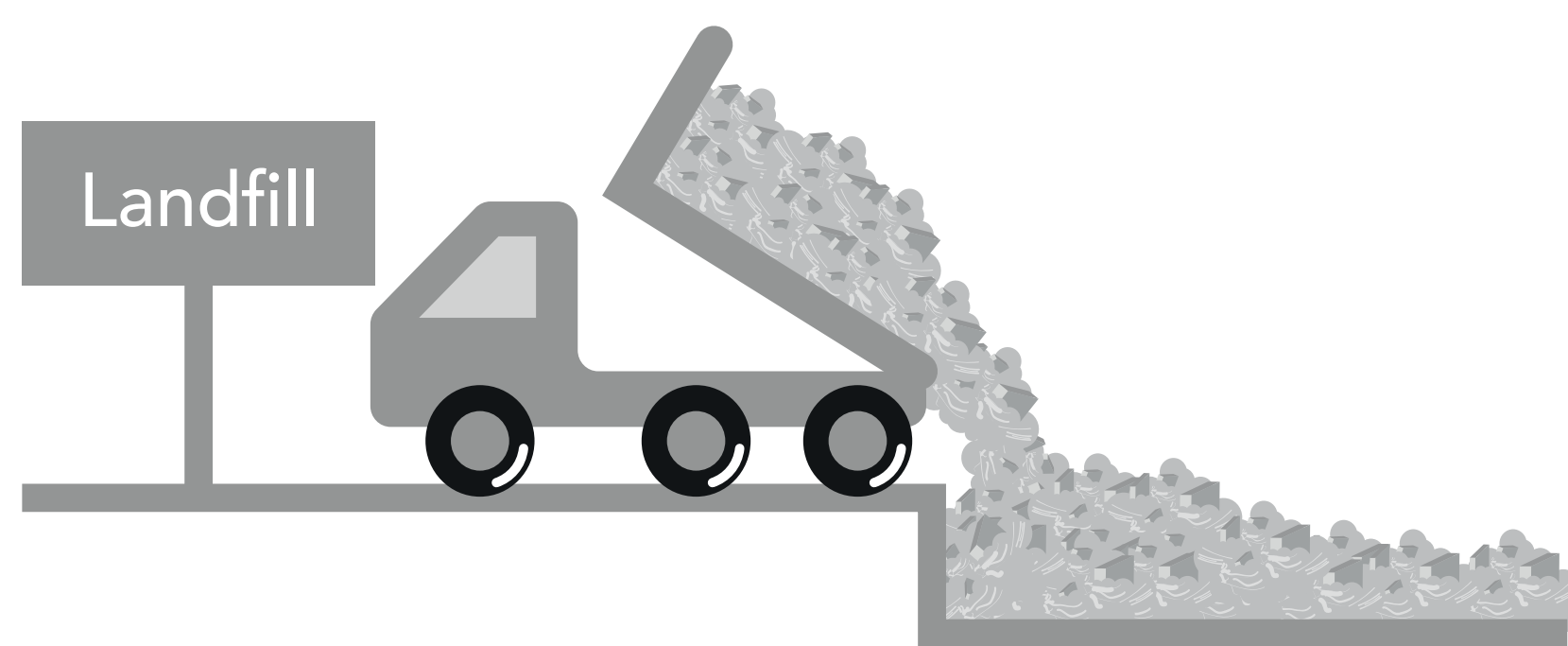
1 Compost



2 Recycling



3 Landfill



EXPECTED RESULTS DURING THE PROJECT:

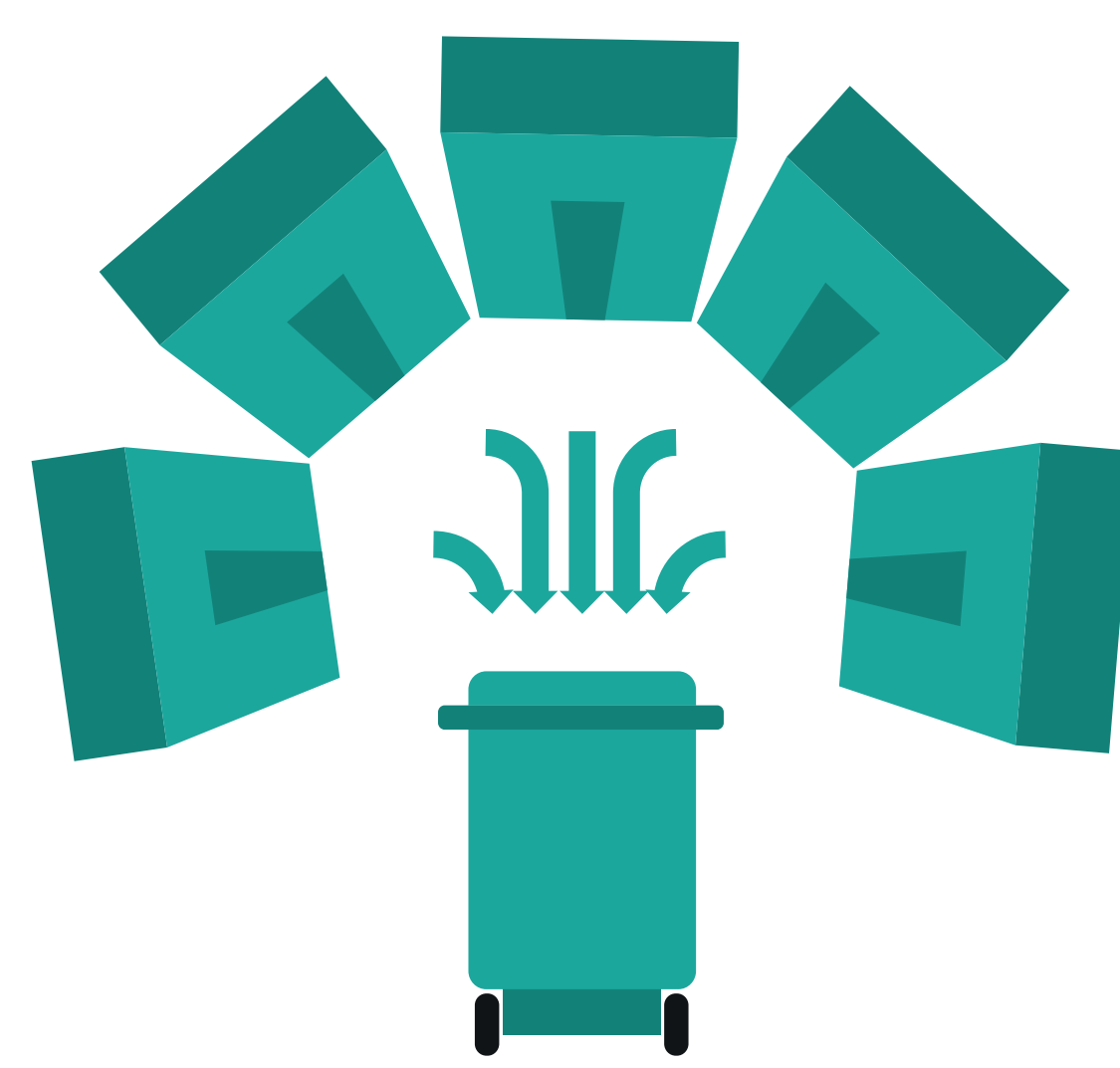
- Reduction in plastic waste in landfill (91.95 tons/project), 7.08 CO2 eq and 7,765 MJ eq avoided at the end of the project.
- Production of 87 tons/project recycled plastic of high quality (substituting equivalent amount of virgin plastic, a petrol-based), 53.94 t CO2 eq and 1,122,039 MJ eq avoided at the end of the project.

INDIRECT IMPACT:

- Improvement of the current compost and recycled materials quality from domestic container, since the waste packaging will be eliminated from the current stream before the treatment plant.

LIFE-RECYPACK SOLUTION

Commercial Shopping Center (Toscana - Italy)



The stores will collect this waste in a special plastic packaging containers, separating Polyethylene (PE).

Urban Commerces (Lliria - Spain)



A logistic system already established for the collection of paper and cardboard door to door, implementing the same for added plastic packaging collected will be used.

Large Chain Distribution Companies (10 MILAR stores in Valencia - Spain)



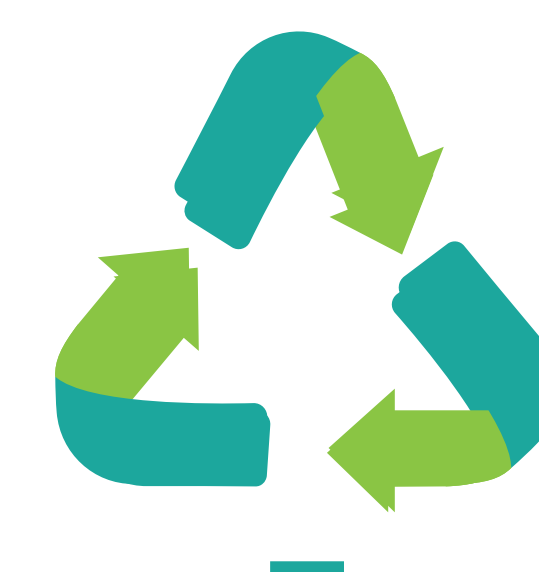
The plastic packaging generated by the sale of EEE (Electrical and Electronics Equipment) is usually deposited in container for mixed waste. In LIFE RECYPACK the proposed innovations based on a reverse logistics, in which stores target the distribution centre with a dual purpose, collect Electrical and Electronics Equipment (EEE) for sale and deposit the Waste Electrical and Electronics Equipment (WEEE) for recycling.

Professionals and SMEs (Valencia - Spain)



This aims to enable 8 available Civic amenity sites to the region of Camp de Turia encouraged to collect commercial plastic packaging. For this, the already implemented system for waste separation at Eco Park, bringing incentives to the citizens, will be adapted for the inclusion of Commercial Plastic Packaging Waste (CPPW) and separated collection.

RECYCLING



FINAL PRODUCTS

- CASING OF EEE
- PALLETS
- BAGS

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