



## SCALIBUR Final Conference Welcome speech

Carmen Sánchez,  
ITENE's Technical Director

**ITENE** RESEARCH  
CENTER



## 2 / Main areas of work

**Our research centre is specialised in circular economy, safety and security and sustainable mobility.**

28 years developing technological solutions through R+D+i



**Sustainable materials and technologies for the circular economy**



**Packaging safety, design and functionality**



**Chemical exposure and environmental monitoring**



**Logistics, transport and mobility**

## 2 / Sectors we work for



**Raw materials**



**Packaging**



**Agriculture**



**Food and  
beverages**



**Cosmetics  
and drugstore**

**We add value to all  
sectors through  
innovation.**



**Pharma**



**Health**



**PPE manufacturers**



**Chemical industry**



**Printing industry**



**Retail**



**E-commerce**



**Transport &  
mobility**



**Waste managers**



**Recyclers**



### 3 / Main areas of work

## Materials and technologies for the circular economy



1. 1. New advanced and sustainable materials



2. Sustainable inks, adhesives and functional coatings



3. Compliance with the legislation: Recyclable, reusable or compostable containers



4. Carbon footprint, life cycle analysis and eco-design



4. Evaluation of compostability



6. Recyclability evaluation



7. Reusable packaging systems



8. Packaging waste collection, transport and sorting



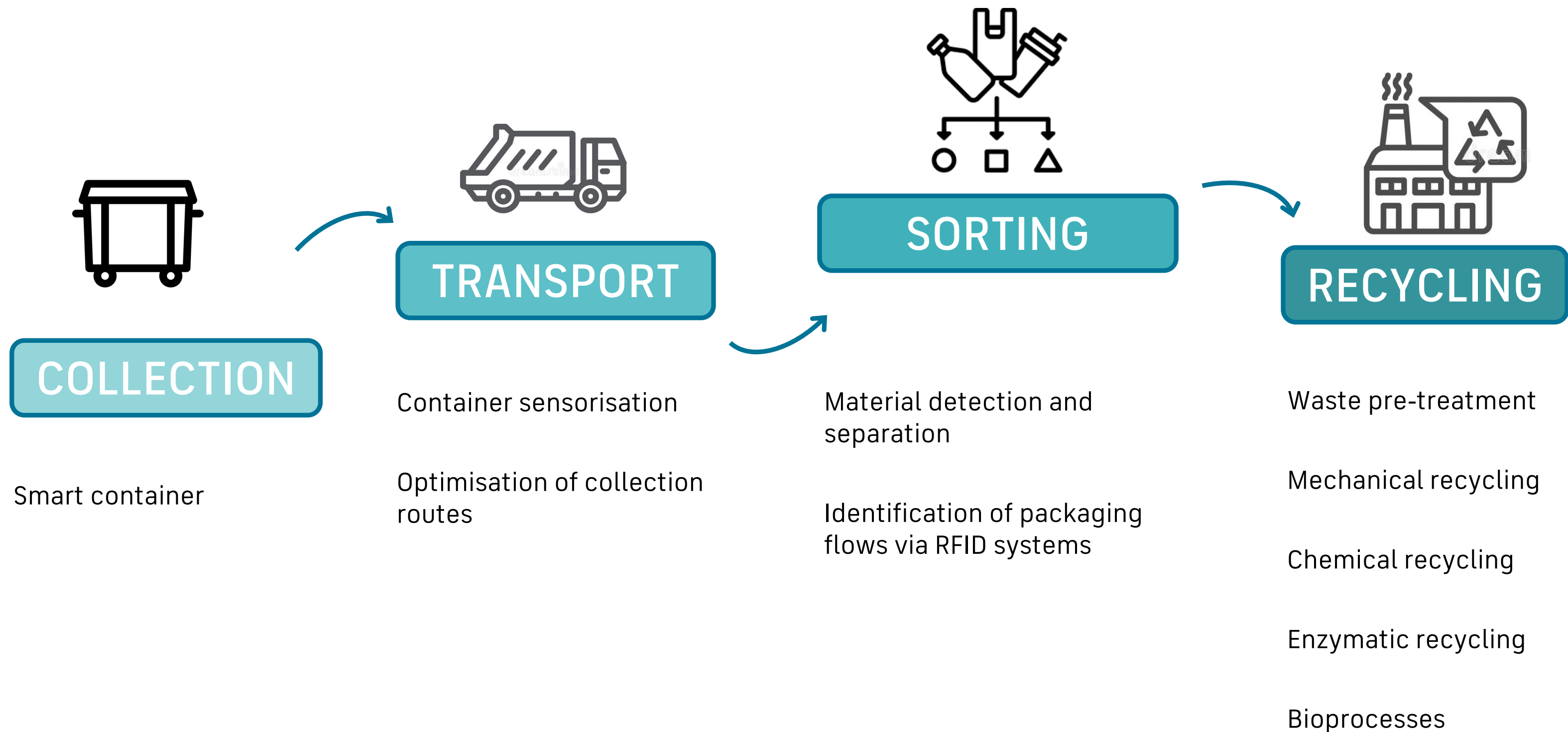
9. Recycling processes



10. Valorization of organic waste



## Recycling technologies for packaging waste and biowaste



## 6 / Our experience

Through projects at European, national and regional level, we have experience in the development of waste recovery processes and the development of technologies for obtaining high-added value products.



### SCALIBUR

Scalable Technologies for Bio-urban waste Recovery.

[www.scalibur.eu](http://www.scalibur.eu)

Coord: ITENE  
2018-2022



### HOOP

Hub of Circular Cities  
Boosting Platform to Foster Investments for the Valorisation of Urban Biowaste and Wastewater.

2020 - 2024



### DEEP PURPLE

Conversion of mixed municipal biowaste into high value-added products in a flexible biorefinery.

2019 - 2023



### MERLIN (H2020)-EU

Increasing the quality and rate of multi-layer packaging recycling waste.

Coord: ITENE  
2021-2024



### AGROMATTER

Development of highly sustainable technical materials derived from by-products or residues from the agricultural industry.

2021 - 2023



### VALQUIBIO

Processes for the recovery of multilayer packaging through chemical recycling and its bioconversion to compostable polymers.

2021-2022



### CEUS

Circular economy for the recovery of urban plastic waste.

2018-2022



### PLASTICIRCLE

Improvement of the plastic packaging waste chain from a circular economy approach

[www.plasticircle.eu](http://www.plasticircle.eu)

Coord.: ITENE  
2016-2020

## 6 / Our experience

**Through projects at European, national and regional level, we have experience in the development of waste recovery processes and the development of technologies for obtaining high-added value products, as well as in Other European projects on circular economy and sustainability services.**



### **ENZYCLE**

The project develop new processes of valorisation using microbial enzymes for treatment of non-recycled plastic fraction.

**Coord.: ITENE  
2020-2024**



### **LOOPACK**

Development of recyclable flexible barrier packaging for the food industry.

**2019-2023**



### **CELLUWIZ**

Process development for a recyclable and compostable multilayer cellulose packaging material.

**2019 - 2022**



### **SHEALTHY**

Non-thermal physical technologies to preServe HEALTHiness of fresh and minimally processed fruit and vegetables.

**2019 - 2023**



### **BIONANOPOLYS**

Open innovation test bed for developing safe nano-enabled bio-based materials and polymer bionanocomposites.

**Coord.: ITENE  
2021-2024**



### **REPAIR3D**

The project aims to develop innovative methods of recycling and repurposing of plastic waste for advanced 3D printing applications.

**2019-2022**



### **AGRIMAX**

Agri and food waste valorisation co-ops based on flexible multi-feedstocks biorefinery processing technologies for new high added value applications.

**2016-2021**



### **PULPACKTION**

Developing optimised moulded pulp for renewable packaging solutions for the demands of the food and electronic industries.

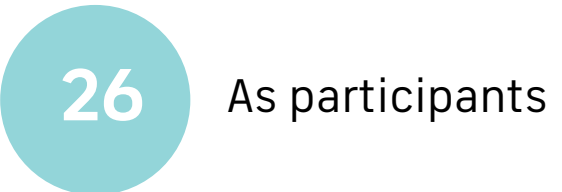
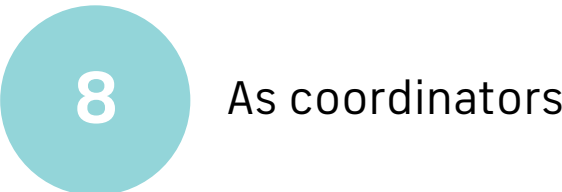
**2016-2020**

6 / Our experience  
ITENE's participation in European projects

Horizon 2020 programme



17.745.313 €  
in returns



6.477.241 €	(10)	Food security, sustainable agriculture and forestry, marine and maritime and inland water research
3.433,864 €	(6)	Nanotechnologies, Advanced materials and Production
2,495,464 €	(4)	Climate action, environment, resource efficiency and raw materials
1,987,879 €	(5)	Advanced materials
1,951,600 €	(6)	Smart, green and integrated transport
803,250 €	(2)	Biotechnology
299,937 €	(1)	Health, demographic change and wellbeing
207,875 €	(1)	Agrofood value chain
88,200 €	(1)	Innovation in SMEs

All European calls (2008-2022)



32,3 M€  
in returns

17	As coordinators	▪ 34 in Horizon 2020
6	As promoters	▪ 39 within VI and VII Framework Programmes
77	As participants	▪ 10 Life +
		▪ 17 from other calls



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