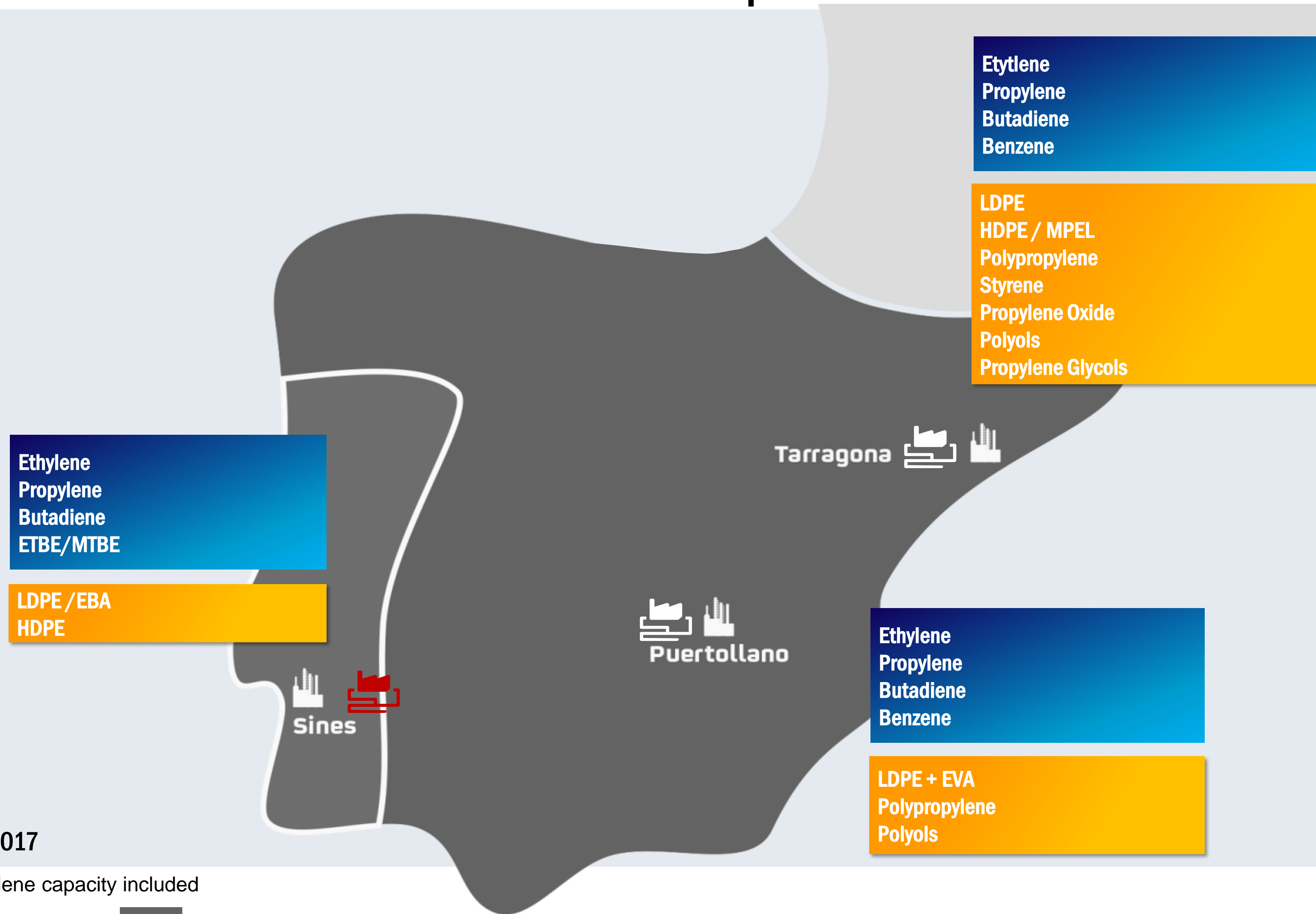




Circular Economy in the Chemical Business of Repsol


Roberto Gómez Bernardo
Head Of Circular Economy
Chemical Business REPSOL

Repsol Chemicals: Integrated business model Capacities



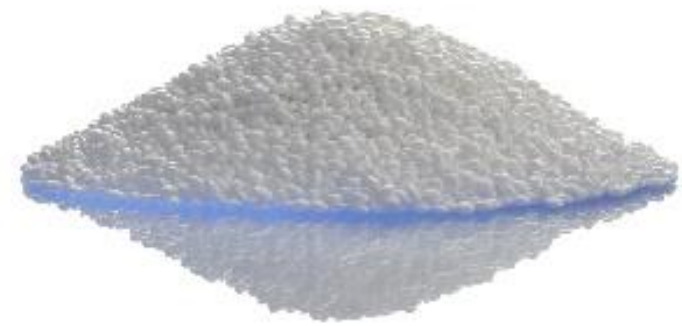
kt/y 31-12-2017

(*) FCC Propylene capacity included

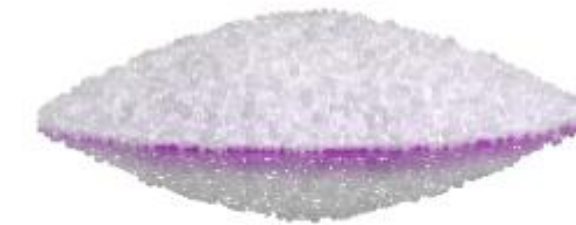
 Chemical Site

 **AVEIRO / ÍLHAVO / MONTEBELO VISTA ALEGRE HOTEL**

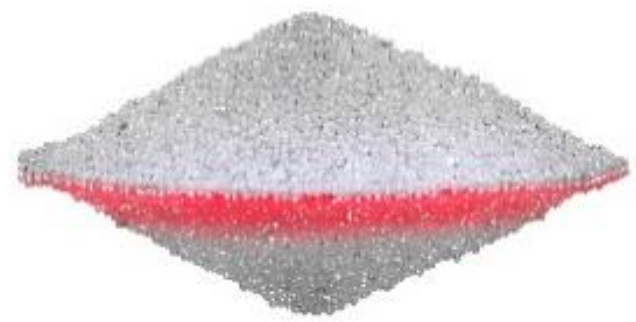




HDPE = 40 grades featuring key properties which fulfill the requirements of highly demanding applications, such as cables, pressure pipes, blow molding and fibers.



LDPE = 80 grades. A family of LDPE grades also targets special films, agriculture and cables.



EVA / EBA = 40 grades. Our extensive EVA and EBA portfolio offers solutions to a diverse array of applications such as hot-melt adhesives, foams, films and photovoltaic.



mLLDPE = 6 grades achieving exceptional optical and mechanical properties, a fine solution for the most demanding applications such as agriculture, industrial and nutrition films.



PP = 91 grades, for pipes, fibers, cables up to flexible and rigid packaging. And **50 tailor-made compounds**, characterized by their great variety in colours and their outstanding mechanical properties, specially designed for automotive parts, domestic appliances, furniture, etc.

1. Circular Economy: Vision, Mission and Objectives

2. Circular Resins

3. Reciclex Project: The Value Chain Partnership

4. Conclusions

The Challenge

“To build up a Circular Economy Model around our plastics, ensuring that the materials that we sell in the market do not become waste and are used as a new resource”*

Vision

- **To promote the change** towards a new economic model where plastic waste becomes a new resource

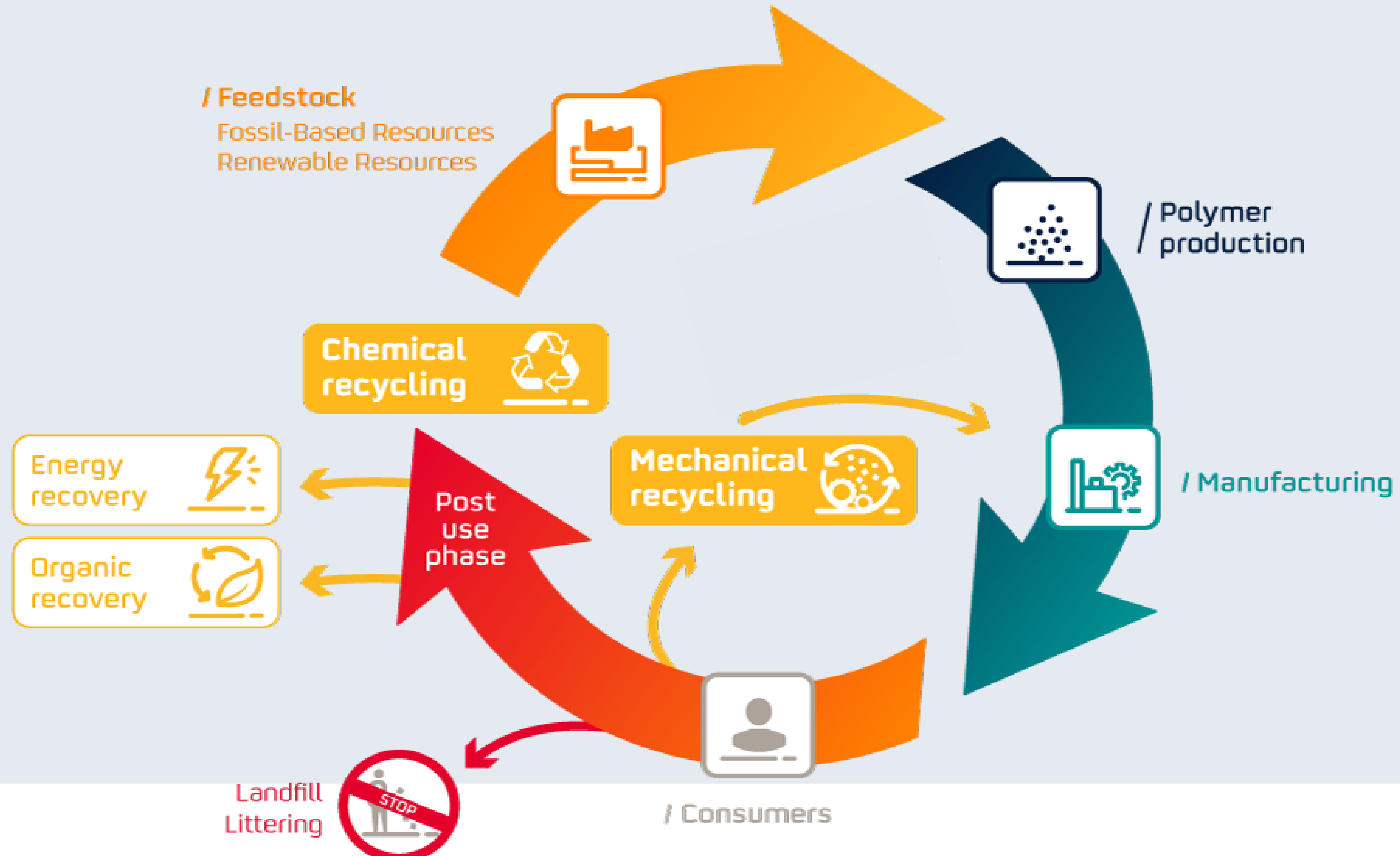
Mission

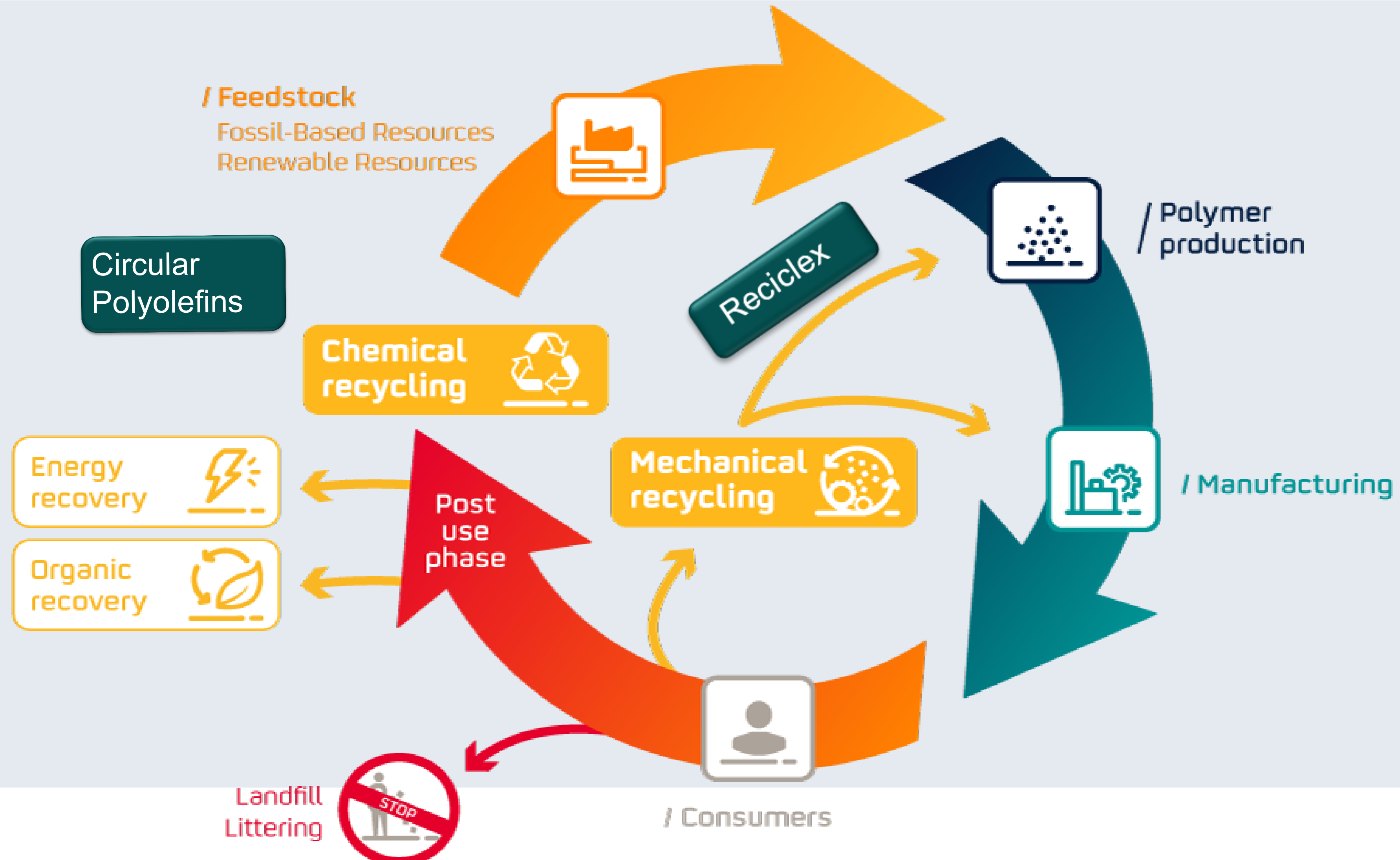
- **To lead** in our natural markets new solutions oriented to create a new Plastics Circular Economy

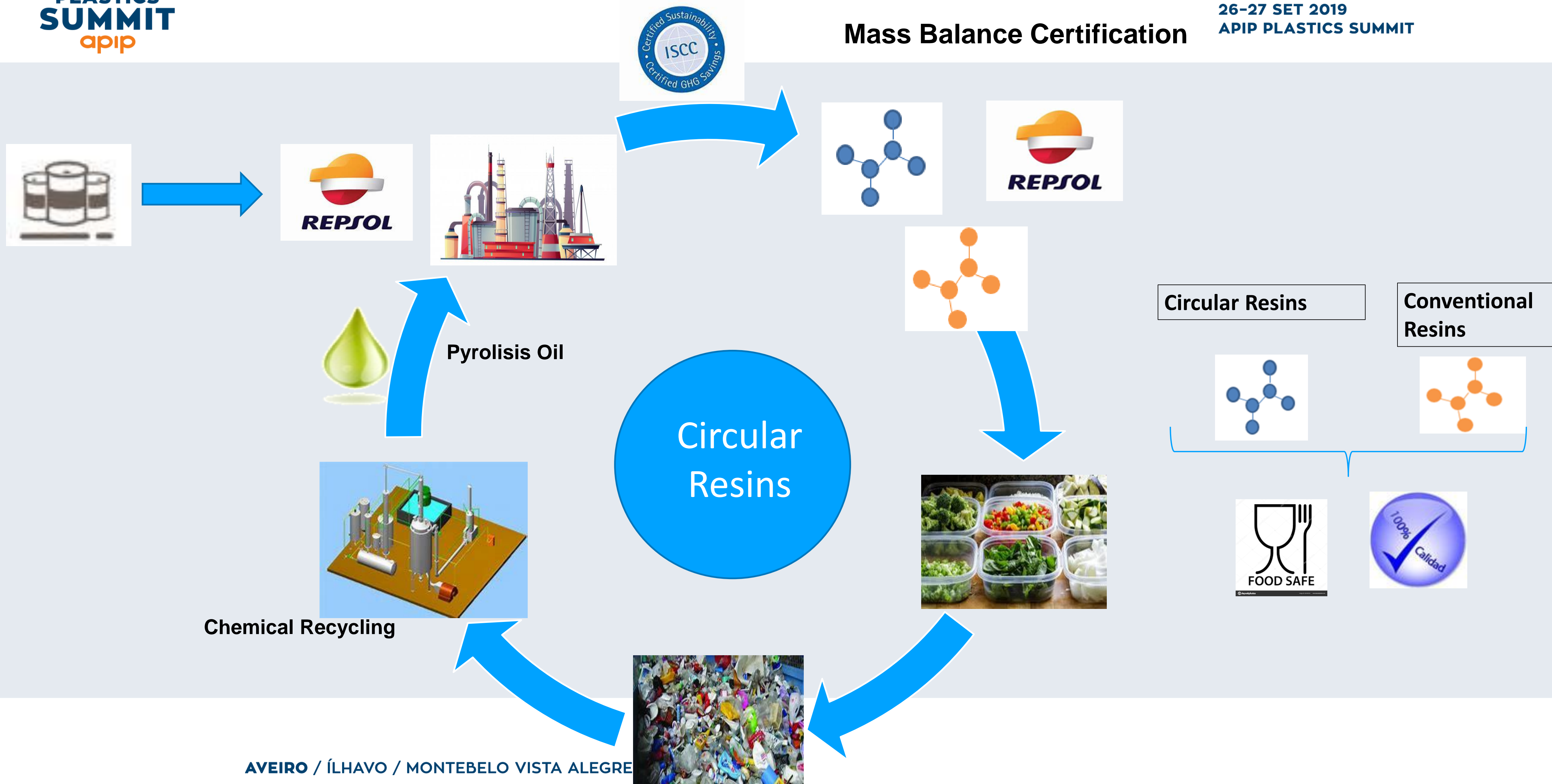
Objectives

- **To generate value** for Repsol Chemicals from new circular business models
- To identify **stakeholders** keen on developing new circular business models
- To keep our license to manufacture plastics

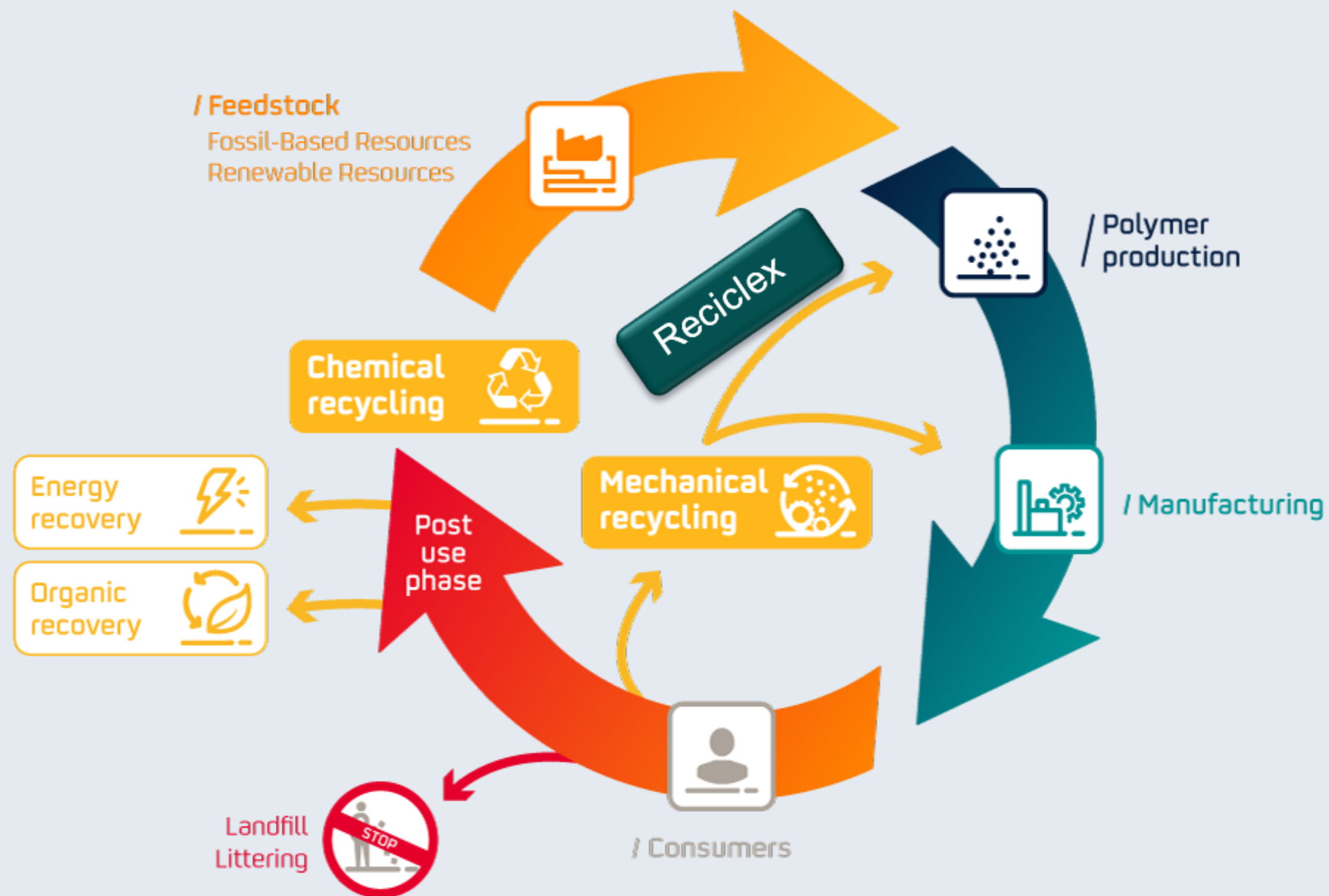
* Plastics also includes styrenics and PU







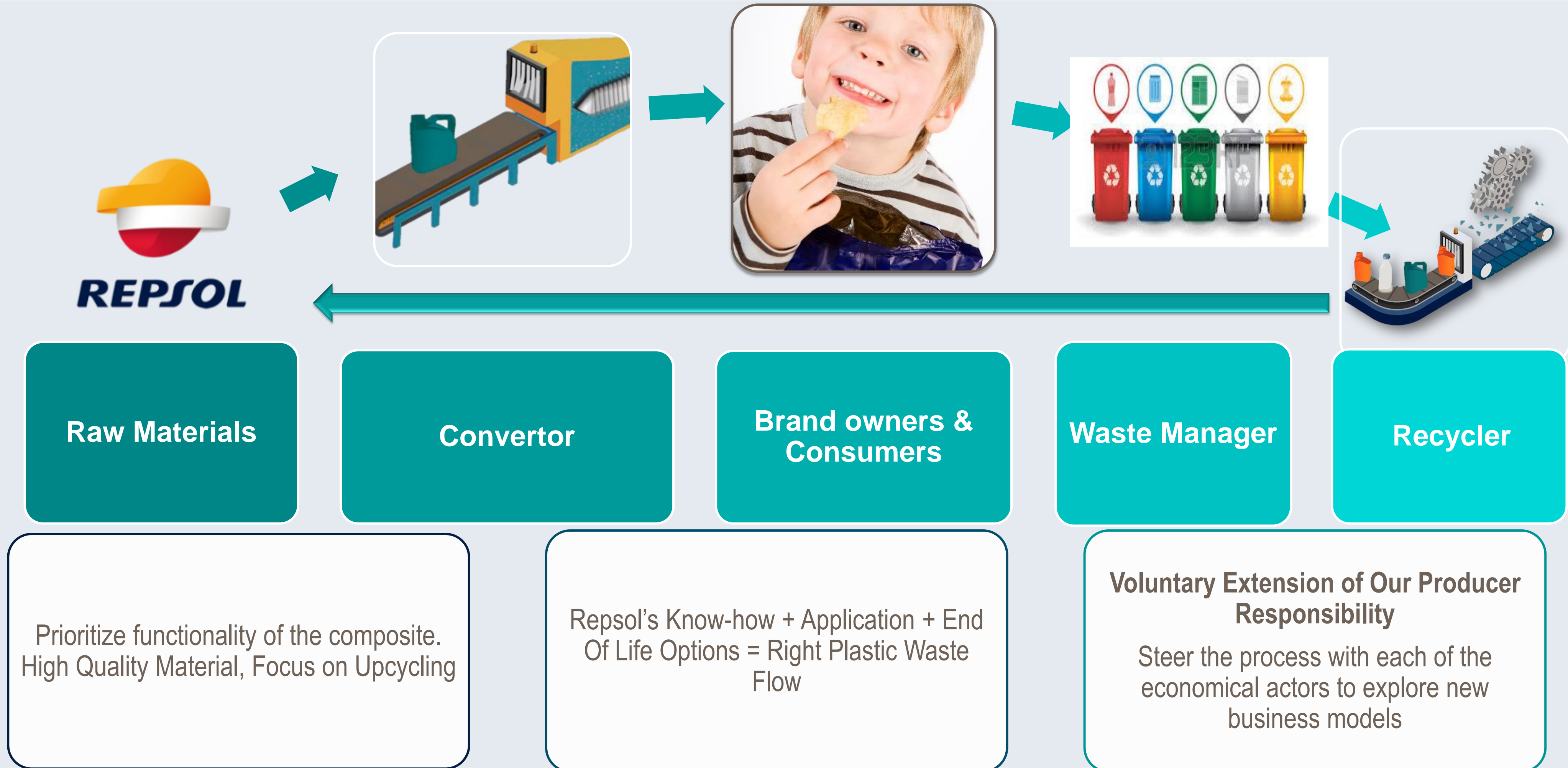
Reciclex: mechanically recycled plastics as a secondary raw material for our polyolefins



High Quality Composites with a % of recycled plastics, preserving the functionality of our polymers in the final application

Repsol Vision: 100 kt/year of recyclate-based Compounds in 2025

Reciclex: mechanically recycled plastics as a secondary raw material for our polyolefins



Reciclex LDPE/HDPE

TOWARDS SUSTAINABLE DEVELOPMENT IN FLEXIBLE PACKAGING

15RX2335



60RX3235FG



50RX2805F



70RXTMF3310F



RECICLEX 50RX5503

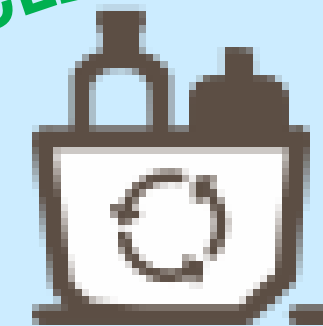


BLOW MOLDING SOLUTIONS

Reciclex PP

TECHNICAL PARTS AND RIGID PACKAGING SOLUTIONS

RECICLEX 30RXPB179



RECICLEX 50RXPB171



RECICLEX 30RXPB190



RECICLEX 30RXPB180



WOVEN - NON WOVEN FABRICS

RECICLEX 25RXPP086Y1E



- **Circular Economy is a Business Driver** for REPSOL and we intend to lead the transition towards a circular model for our businesses and materials
- **Circular Thinking, Brand Leadership and Value Chain partnership** is a key element to implement new circular economy models
- **New Portfolio of Circular Polyolefins launched:**
 - Circular Polyolefins via Chemical Recycling
 - LDPE Flexible Packaging
 - PP Compounds
 - HDPE with %50 post-consumer recycled content



Thank You





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