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## **Reshaping Businesses in Response to the Sustainable Trend**

# IVL Recycling Strategy to Enable the Circular Economy

## Innovation & Product Stewardship

- Product Design: Lightweighting / High performance
- Low carbon products
- Use / Handling / Disposal phases

## Alternative Raw Materials

- Recycled feedstock
- Renewable raw materials

## Operational Eco-Efficiency

- Carbon footprint / Energy / Water / Waste
- Renewables resources
- Life cycle assessment and management

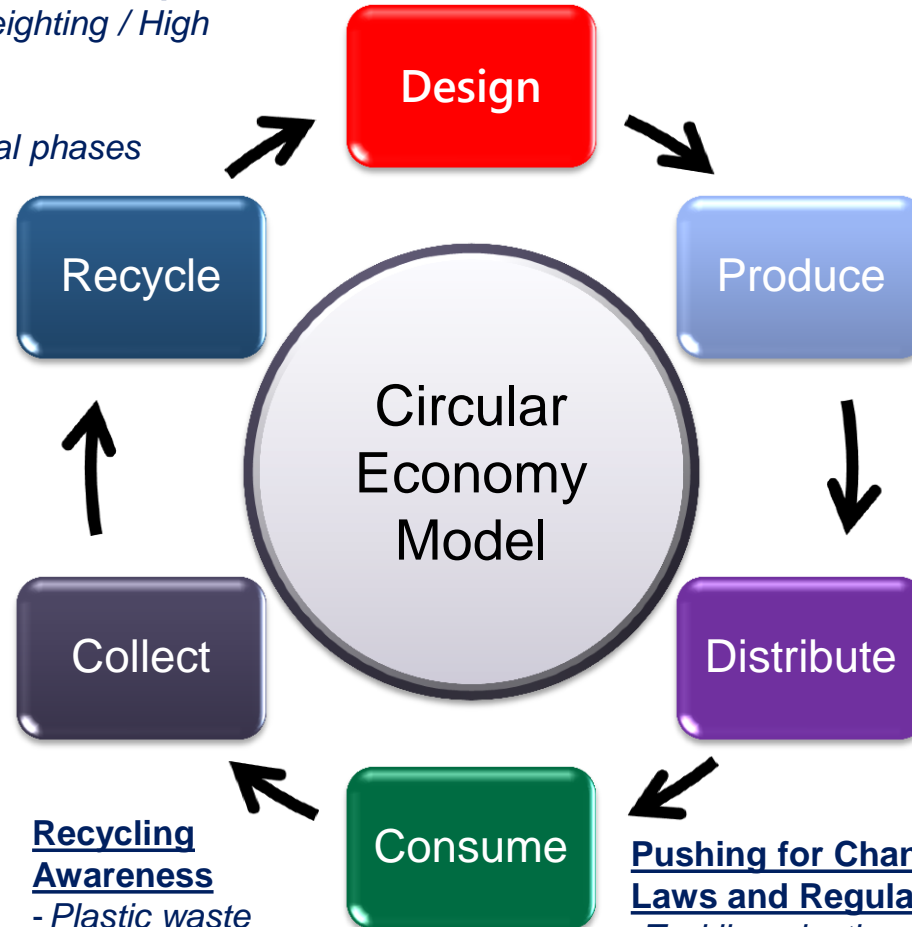
## GHG Scope 3 accounting

## Recycling

- New recycling technologies to tackle plastics waste
- Recycling commitment

## Collaboration with

- Customers
- Suppliers / Partners
- Government bodies



## Recycling Awareness

- Plastic waste separation
- Plastic recycling
- Educating students

## Pushing for Change in Laws and Regulations

- Tackling plastic waste concerns by promoting demand for recycled plastics
- Increasing local demand for recycled PET

Total Ban in EU:  
 Plastic cutlery (forks, knives, spoons and chopsticks)  
 Plastic plates (an exemption might be foreseen until 2023)  
 Plastic straws  
 Food containers, Cups, Yogurt Pots,  
 Beverage Containers, made of expanded polystyrene

# Recyclable PET Drives Circular Economy

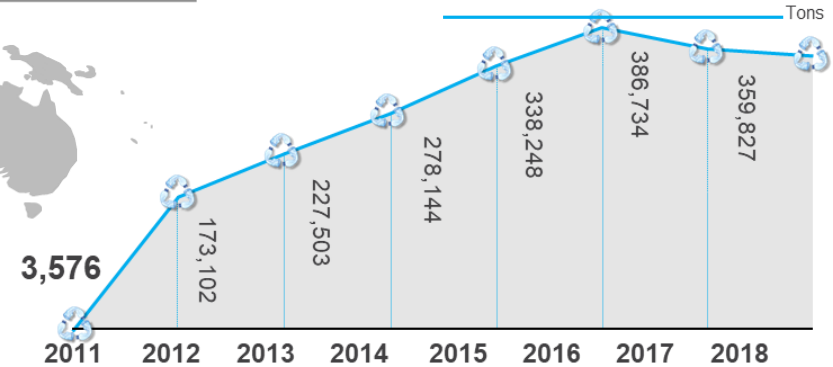
## Recycling Platform in 6 Countries



Around 38 billion bottles  
Were recycled from 2011-2018



350,903



\* rPET resin that contains up to 30% recycled content

## Global Recycling Commitment target

- 750,000 tons of used PET as feedstock into our polyester production by 2025

## Innovation: Chemical recycling

- A collaboration with Unilever and Ionika
- A collaboration with Loop Industries

## Meeting Increasing Brand owners Needs



50% recycled content by 2030



50% recycled content by 2030



100% recyclable by 2025



100% recyclable and 25% recycled PET by 2025



100% recycled or renewable content by 2020



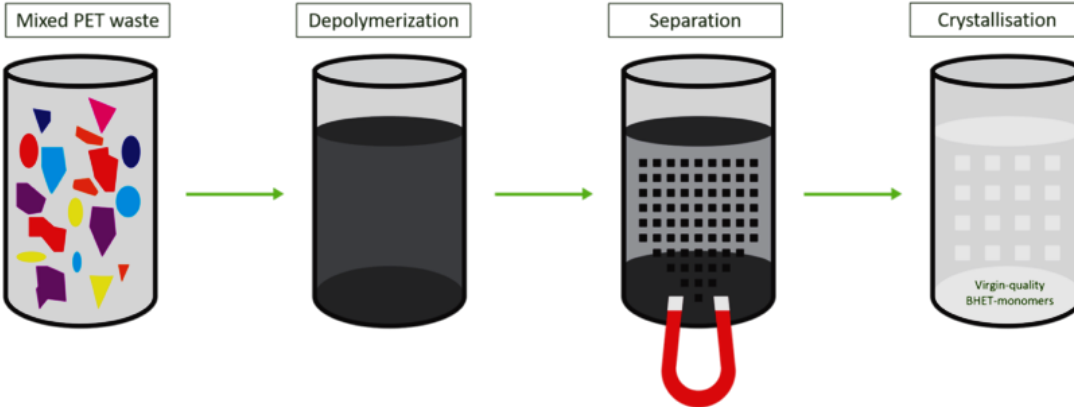
# IVL Investing in Chemical Recycling Technologies



With Loop's revolutionary technology,  
all waste PET plastic  
can be up-cycled

  
DMT + MEG  
Depolymerization

Circular economy



# Cognitive bias among consumers may make sustainability awareness difficult: Do you know which hurts the environment more?

Should I use a reusable cup?

Paper coffee cup



Foam coffee cup



How many USES before the reusable cup (left column) is equally energy efficient to the disposable cups (right)

Reusable Cup	Paper	Foam
	Ceramic	39
Plastic	17	450
Glass	15	393

Paper cup consumes 6X as much steam as foam  
 13X as much electricity  
 2X as much cooling water  
 When paper biodegrades, produces methane, a GHG

Sustainability should include the energy and water used as well as its recyclability