

# Improve your product with rotomoulding!

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NordicARM

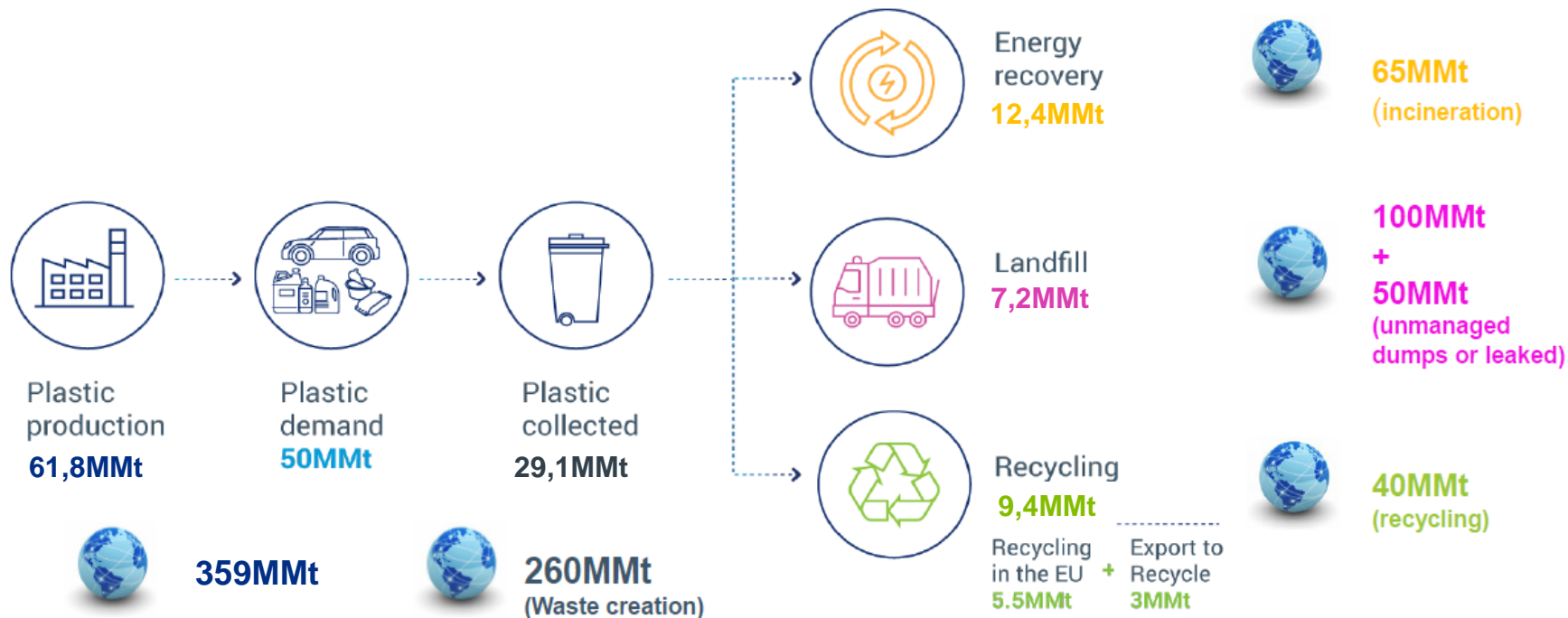
05 February 2020

## What about future?

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# Plastic flow 2018



Source: Plastics Europe and McKinsey plastic waste stream model

**EU Plastic strategy vision:**  
**By 2030, more than half of the plastic waste generated in Europe is recycled**

# Single use plastics: Political rationale for EU action

## Address EU beach count:

- Plastics make up 80-85% of marine litter in Europe
- Single-use plastics account for 50%
- Top 10 items represent 86% of SUP found

## Expected results:

- Reduce marine litter on EU beaches by  $\frac{1}{4}$  by 2030
- Avoid emission of 3,4 million tonnes of CO<sub>2</sub>
- Avoid environmental damages estimated at €22 billions
- Save consumers a projected €6,5 billions

Source: European commission

## TOP 10 SINGLE-USE PLASTIC ITEMS FOUND ON SEA SHORES

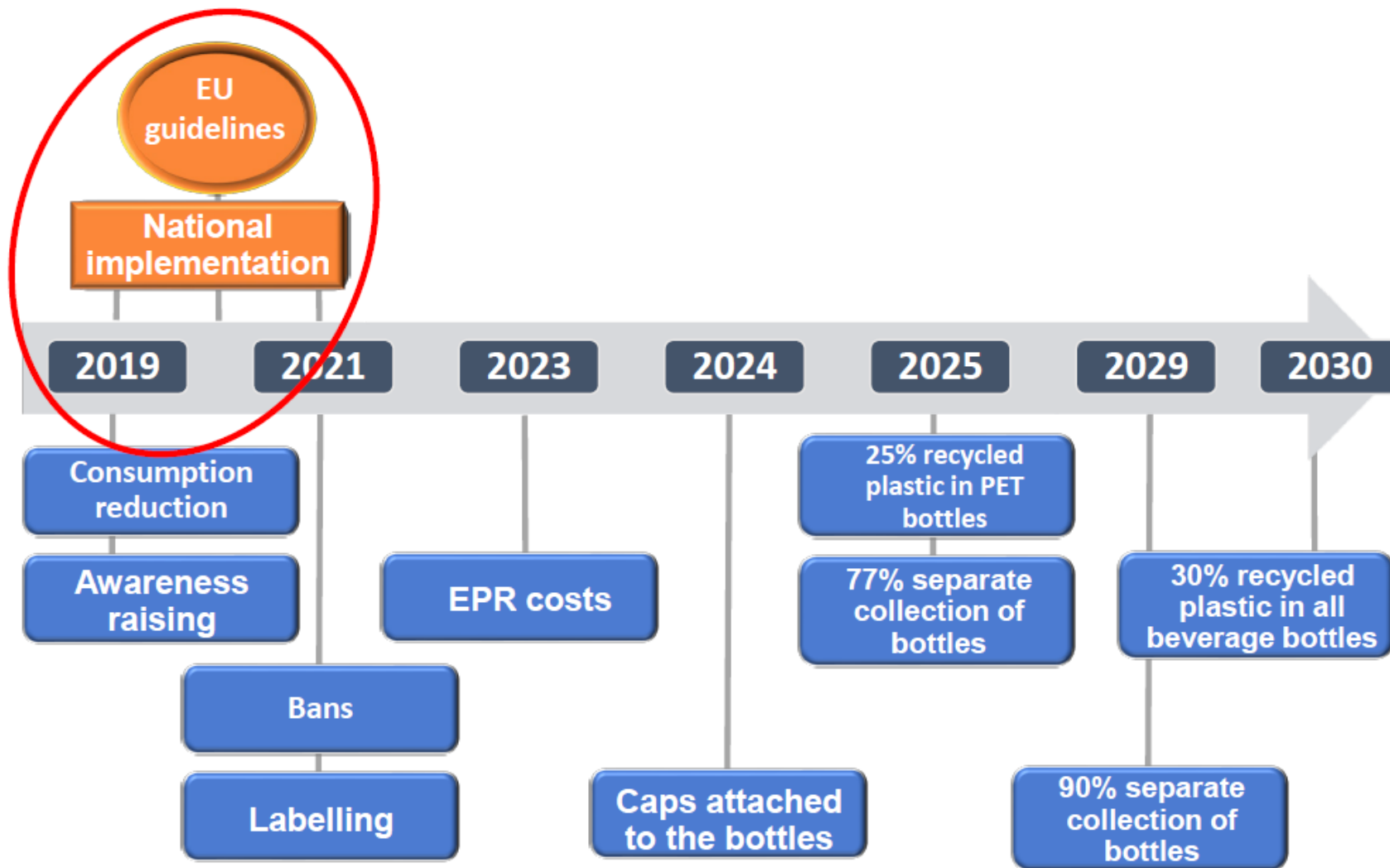
- 1 Drink bottles, caps and lids
- 2 Cigarette butts
- 3 Cotton buds sticks
- 4 Crisp packets/sweet wrappers
- 5 Sanitary applications (sanitary towels, tampons etc.)
- 6 Plastic bags
- 7 Cutlery, straws and stirrers
- 8 Drinks cups and cup lids
- 9 Balloons and balloon sticks
- 10 Food containers, including fast food packaging

Items in yellow could soon be banned as non-plastic alternatives are now available.

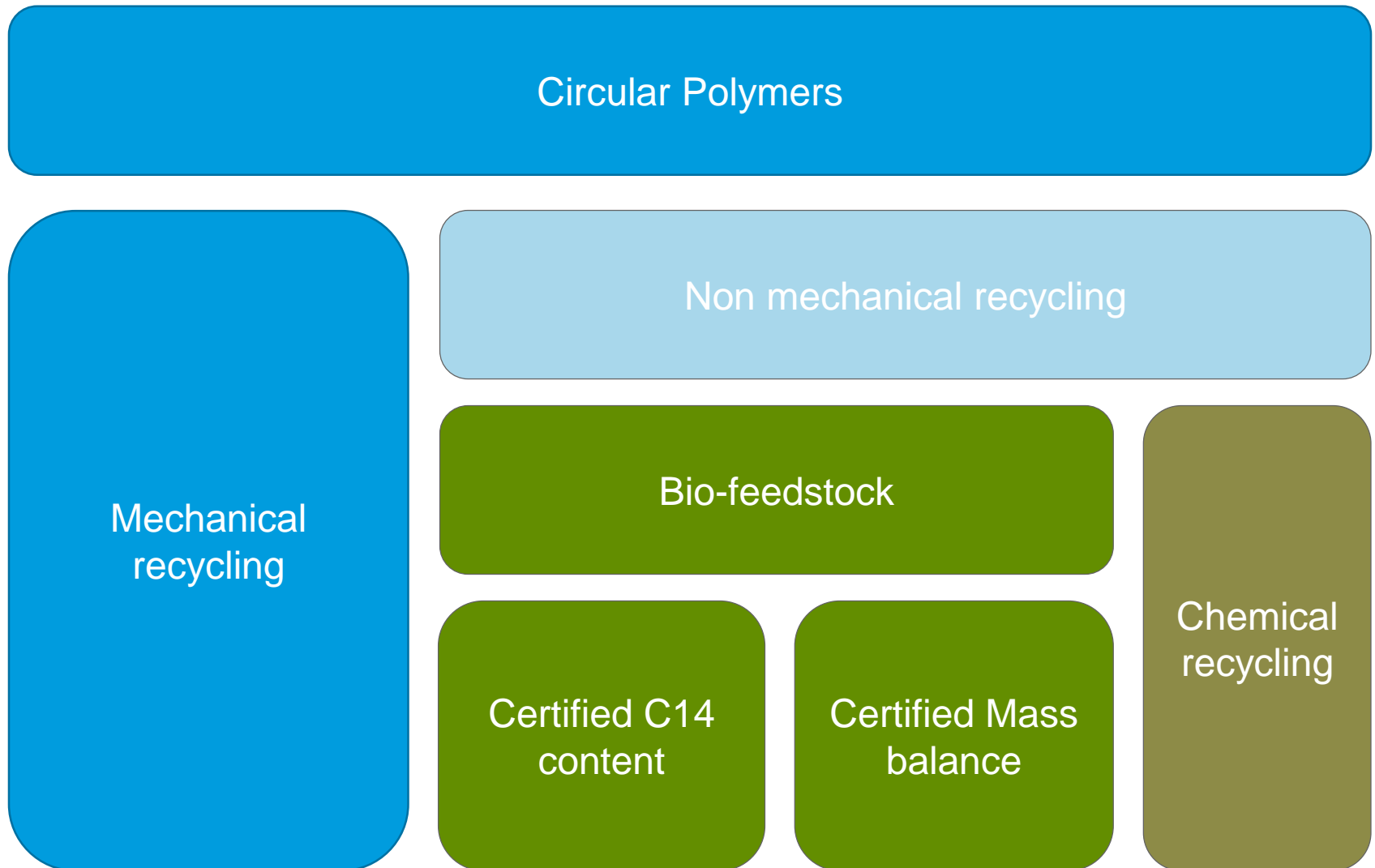
Source: European Commission



# Next 10 years ahead in EU circular Economy



# LYB Circular Polymers in response to the circular Economy challenge



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Circular Polymers

Mechanical  
recycling



**suez**  
 RESOURCE  
 DEVELOPMENT

**lyondellbasell**  
*Advancing Possible*

**INNOVATION  
 & MARKETING**

**QCP**  
 PROCESS &  
 TECHNOLOGY



# LYB Circular Polymers in response to the circular Economy challenge

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Circular Polymers

Non mechanical recycling

Bio-feedstock

Certified C14  
content

Certified Mass  
balance



## LyondellBasell and Neste **Collaboration**

First production of both  
**Bio-based PP and Bio-  
based LDPE**  
simultaneously

- Bio-based raw materials /  
Vegetable oil waste and residue oils
- One to one virgin quality

## Circular Polymers – The next step



Circular Polymers

Non mechanical recycling

Chemical recycling



**Both mechanical and molecular recycling are needed to recycle all plastic waste**



# Thank you

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