

A large, vibrant pink graphic element on the left side of the slide, consisting of a thick curved line and a circular inset showing a globe with various sustainability icons like a bar chart, sun, leaf, and recycling symbol.

# Sustainability @ Covestro

**Dr. Christian Haessler**  
Global Sustainability

# Our future is being collectively shaped

## Pathway forward



Contribute to  
UN Sustainable Development Goals  
Ensure future economic growth  
Enhance durability of products

... while

reducing CO<sub>2</sub> emissions in production and over the lifetime of products

increasing energy efficiency

improving use of resources (carbon) along the value chain



COP21 • CMP11  
**PARIS 2015**  
UN CLIMATE CHANGE CONFERENCE

# Our purpose



**TO MAKE  
THE WORLD  
A BRIGHTER  
PLACE**

# Covestro Strategy



## Investments

Strengthen core business: allow for growth and build competences



## Innovations

**Focus on sustainability:** align research & development with the UN Sustainable Development Goals



## Acquisitions

M&A as value driver: systematic additions to our portfolio in line with megatrends



## Efficiency

Growth through efficiency: check and utilize potentials to improve long-term performance



## Digitalization

Set digital standards: use digitalization holistically for growth and efficiency



## Culture

Curious, courageous, colorful: further develop our common culture to unlock the full potential of all our people

# Covestro sustainability goals 2025

Aligned with UN SDGs



## Research & Development

Our R&D project portfolio aligned with UN Sustainable Development Goals



## Procurement

100 % of suppliers compliant with our sustainability requirements



## Production

Reduce specific CO<sub>2</sub> emissions by 50%



## Products on the market

10 million people in underserved markets reached through our business solutions



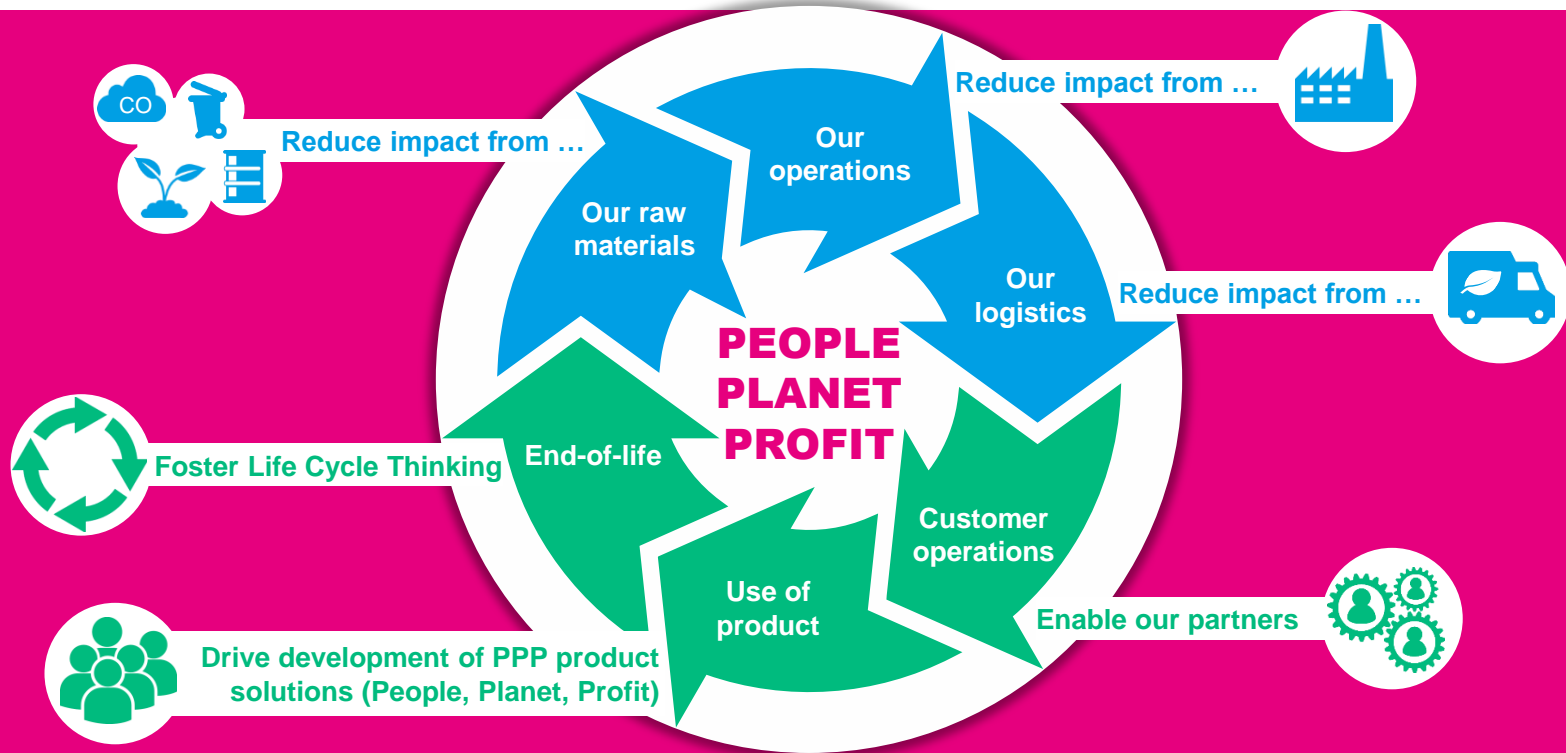
## Across the value chain

We aim to get the most value out of the carbon employed



# Covestro's approach

## Full life-cycle thinking





cardyon®

A brighter use of CO<sub>2</sub>



YOU CAN'T  
TURN CO<sub>2</sub> INTO  
A MATTRESS.  
WHY NOT?

#PushingBoundaries #CO<sub>2</sub>Dreams

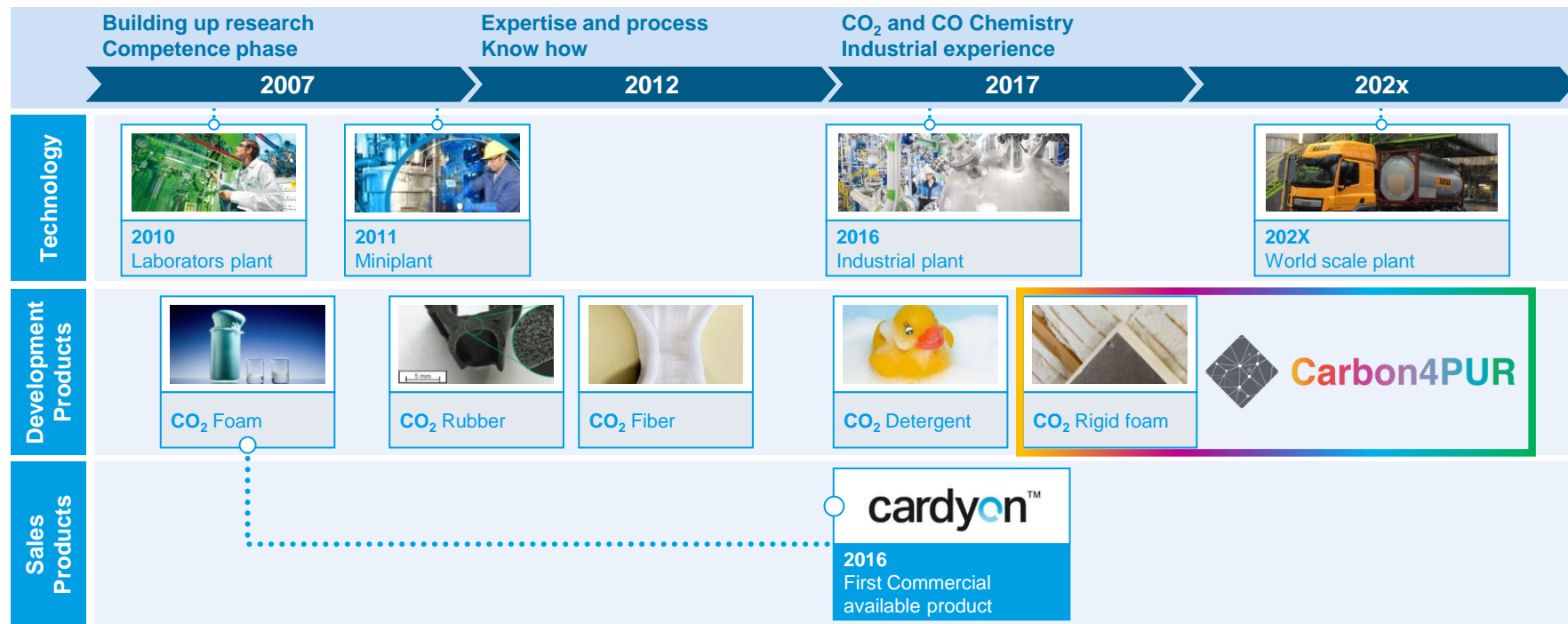


## From pollutant to raw material

- Covestro is integrating CO<sub>2</sub> into the production chain
- *dream production*: CO<sub>2</sub> as raw material for polyols
- technical and commercial viability of CO<sub>2</sub>-containing PU foam proven in two-year test phase

# Covestro's experience in carbon productivity

A timeline for R&D and investments



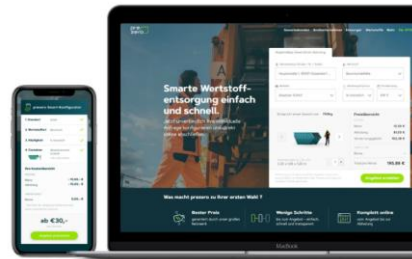


# Economic and societal drivers towards enhanced circularity

## Plastics in the ocean & on landfill



## Digitalization & improved waste mgt



## Brand marketing & consumer behavior



# It must become an opportunity for Covestro. And it will...

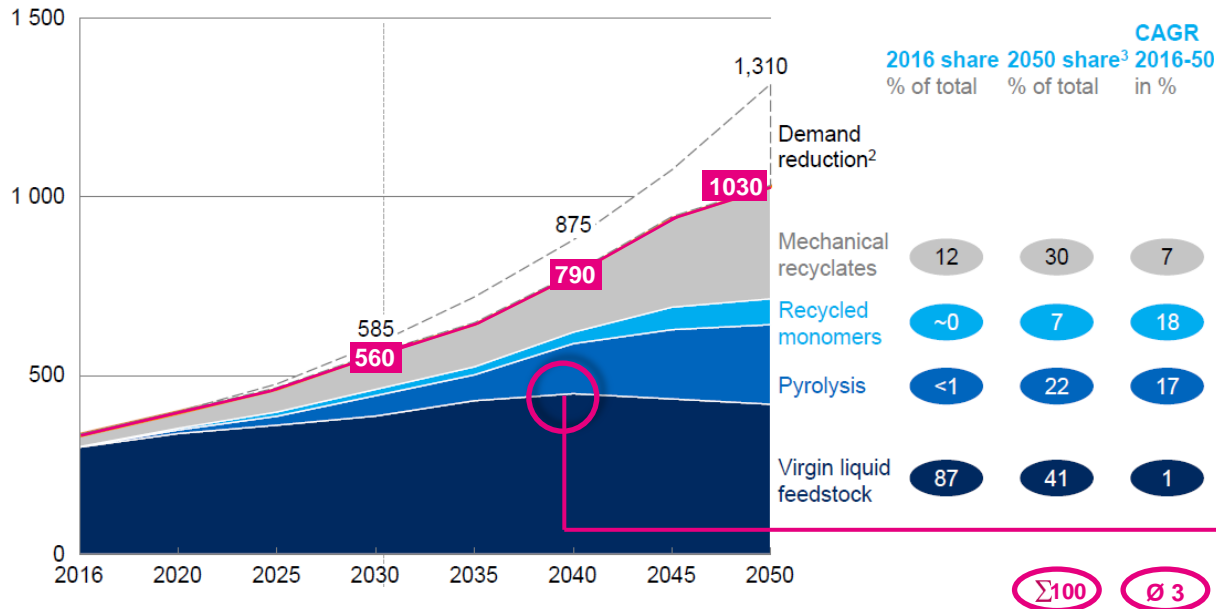


Finite growth potential from virgin feedstock will drive economies in recycling volumes

## Global polymer demand 2016-2050 from waste recovery

million tons

Source: McKinsey



In 2 decades from now further **profitable growth** **only** possible from **alternative feedstock sources**; waste based feedstock a prerequisite for further volume growth



Negative growth from virgin liquid and fossil feedstock from 2038 onwards

1 Actual growth after demand reduction, assuming global GDP growth of 3.1% (IHS)

2 IHS forecast, demand if current IHS projections until 2027 for plastic growth continue through to 2050

3 Mechanical recycling limited by downcycling and applicable materials, monomerization limited by applicability to condensates only, pyrolysis limited by likely rise in input costs

4 We modeled 3 different scenarios in addition to BAU, with Coalition for Change (CfC) being the most ambitious one with the most drastic global change in plastics recovery rate and waste mgmt

SOURCE: McKinsey plastic waste stream model

# Pushing boundaries further

Striving for a broad use of CO<sub>2</sub>



## Our vision

- Use of CO<sub>2</sub> in as many different types of plastics as possible
- Replace as much fossil raw material as possible with CO<sub>2</sub>

## The right way

- To broaden the plastic industry's raw material base
- To promote circular economy



Thank you for your  
attention