

Rezyklateinsatzquoten gemäß der ELVR - ganzheitliches Nachhaltigkeitskonzept für Kunststoffabfälle

Recyclate quotas in accordance with the ELVR – Comprehensive sustainability concept for plastic waste from end-of-life cars

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October 07, 2026



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Company

Who we are



Solutions for a
better tomorrow

Business strategy

Grow & upgrade
the core

Build a profitable Circular
& Low Carbon Solutions
business

Step up performance
& culture

Purpose

Creating solutions for everyday sustainable living

Commitments

- Sustainability-focused innovation
- Ever-better performance
- Outside-in perspective
- Impactful collaboration

Values

- We champion people
- We strive for excellence
- We shape the future

Competencies

- Build partnerships
- Deliver results
- Drive innovation
- Grow capabilities
- Promote inclusion

Our Goal**ZERO** mindset enables our strategy



Serving global markets

LYB is a leader in the global chemical industry, guided by our purpose to create solutions for everyday sustainable living.

As one of the world's largest polymers producers and a leader in polyolefin technologies, we develop, manufacture, and market high-quality and innovative products for applications ranging from sustainable transportation and food safety to clean water and quality healthcare. Through advanced technology and focused investments, we are working to enable a circular and low-carbon economy.



Our global presence¹



1. As of December 31, 2024

Our industry-leading sustainability ambitions and actions

We have structured our sustainability approach around three global challenges: ending plastic waste, taking climate action and supporting a thriving society.

Our 2024 sustainability report is structured around these global challenges.

- 1. Production and marketing includes: (i) joint venture production marketed by LYB plus our pro rata share of the remaining production produced and marketed by the joint venture, and (ii) production via third-party tolling arrangements.
- 2. Incremental to LyondellBasell's fossil-based O&P Americas and O&P EAI annual EBITDA.
- 3. Our 2050 net zero goal includes scope 1 and 2 emissions.
- 4. Relative to a 2020 baseline.
- 5. Based on 2020 procured levels.

Ending plastic waste

800,000 Mt+

of recycled and renewable-based polymers produced and marketed annually by 2030¹

zero

plastic pellet loss to the environment from our facilities

Taking climate action

net zero

greenhouse gas emissions from operations by 2050³

32%

absolute scope 1 and 2 greenhouse gas emissions reduction from operations by 2030⁴

30%

absolute scope 3 greenhouse gas emissions reduction by 2030⁴

50%

minimum of electricity procured from renewable sources by 2030⁵

Supporting a thriving society

zero

incidents, injuries, and accidents

33%

gender diversity in global senior leader roles by 2032

80%

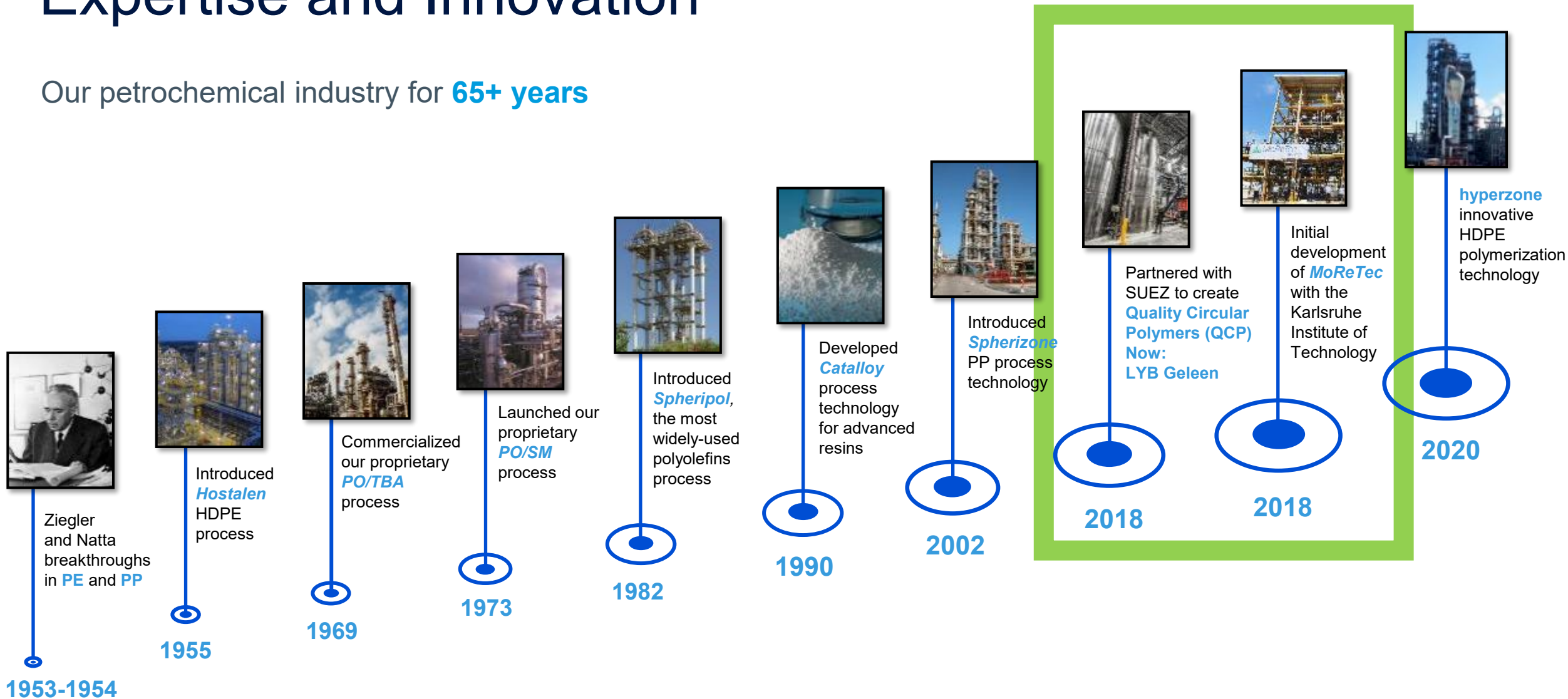
of our key suppliers assessed using sustainability criteria by 2027



Note: LyondellBasell's stated goals, targets and ambitions, including with respect to climate and circularity, are not guarantees of future conduct or performance and are subject to numerous risks, uncertainties and other factors, many of which are outside of our control and could affect the cost, feasibility, and timeline of our progress. Many of our ambitions will be complex and challenging to achieve and we may not fully meet our ambitions, aspirations and goals.

Expertise and Innovation

Our petrochemical industry for **65+ years**



Circulen portfolio



Polymers made by converting plastic waste into feedstock to produce new polymers using an **advanced (molecular) recycling process**

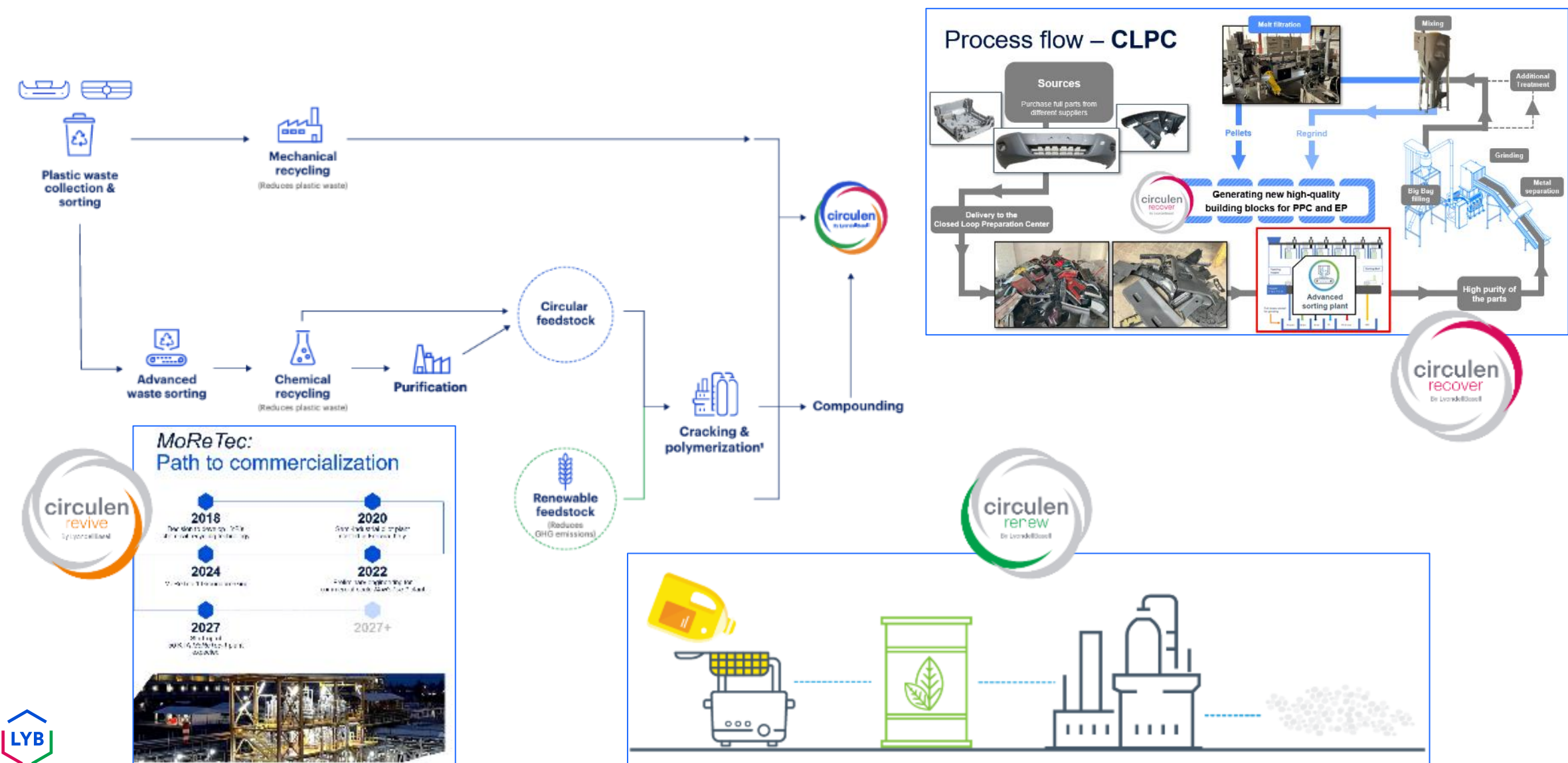


Polymers made from **renewable feedstocks** such as used cooking oil



Polymers made from plastic waste through a **mechanical recycling process**

LYB integrated ecosystem for producing circular & low carbon solutions



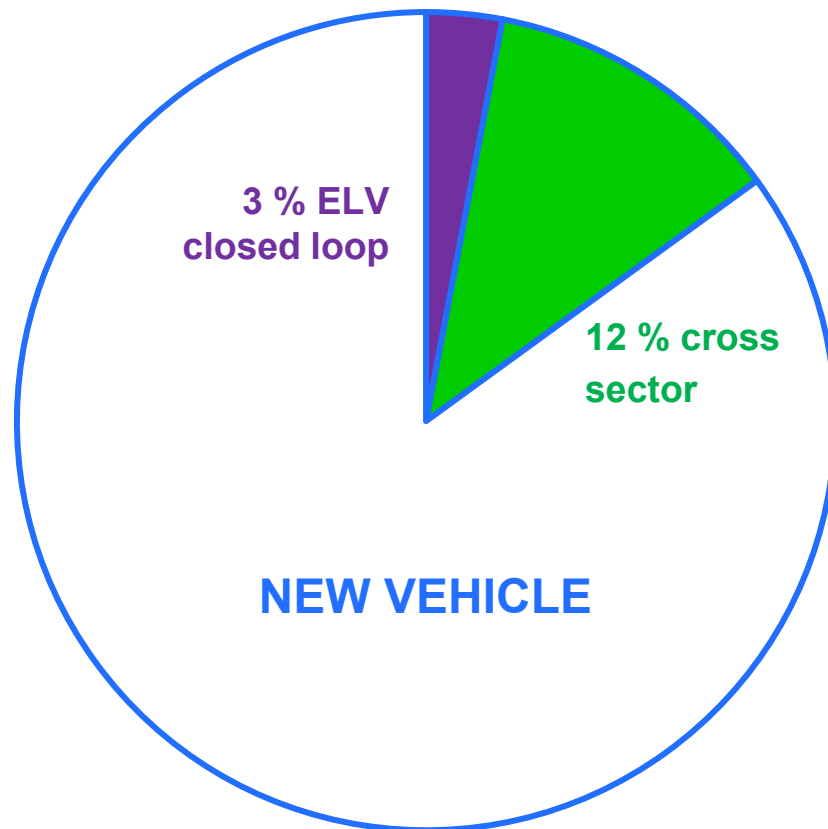
Introduction

ELV legislation quotas at a glance

Mandatory PCR content from 2032 = 15 %

20 % from that must come from ELVs

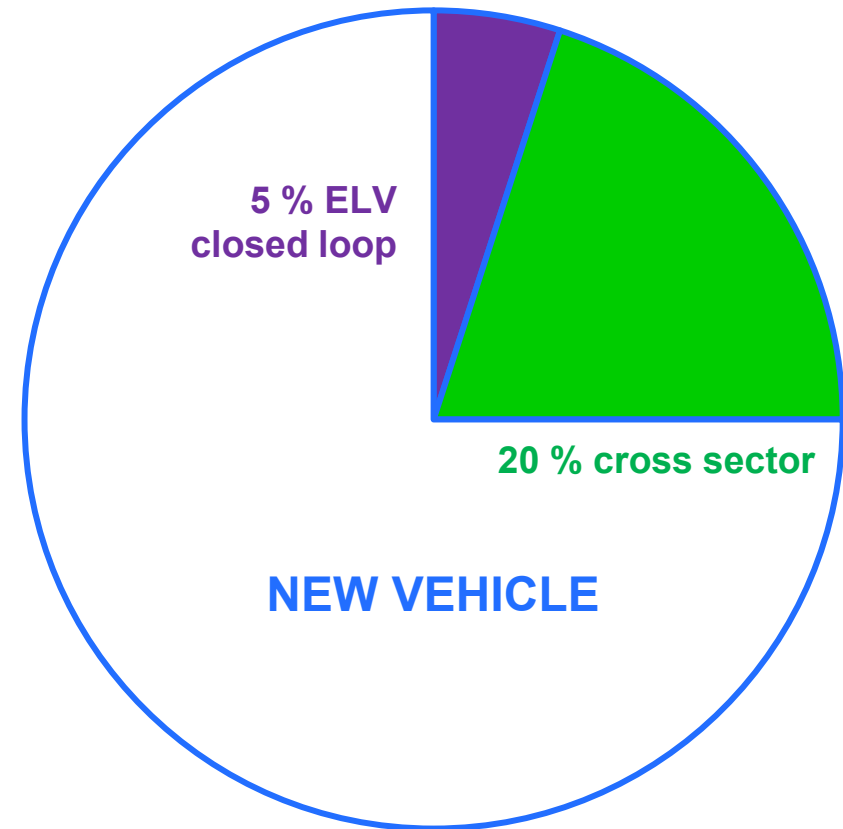
→ ELV (3 %) + Cross Sector (12 %)



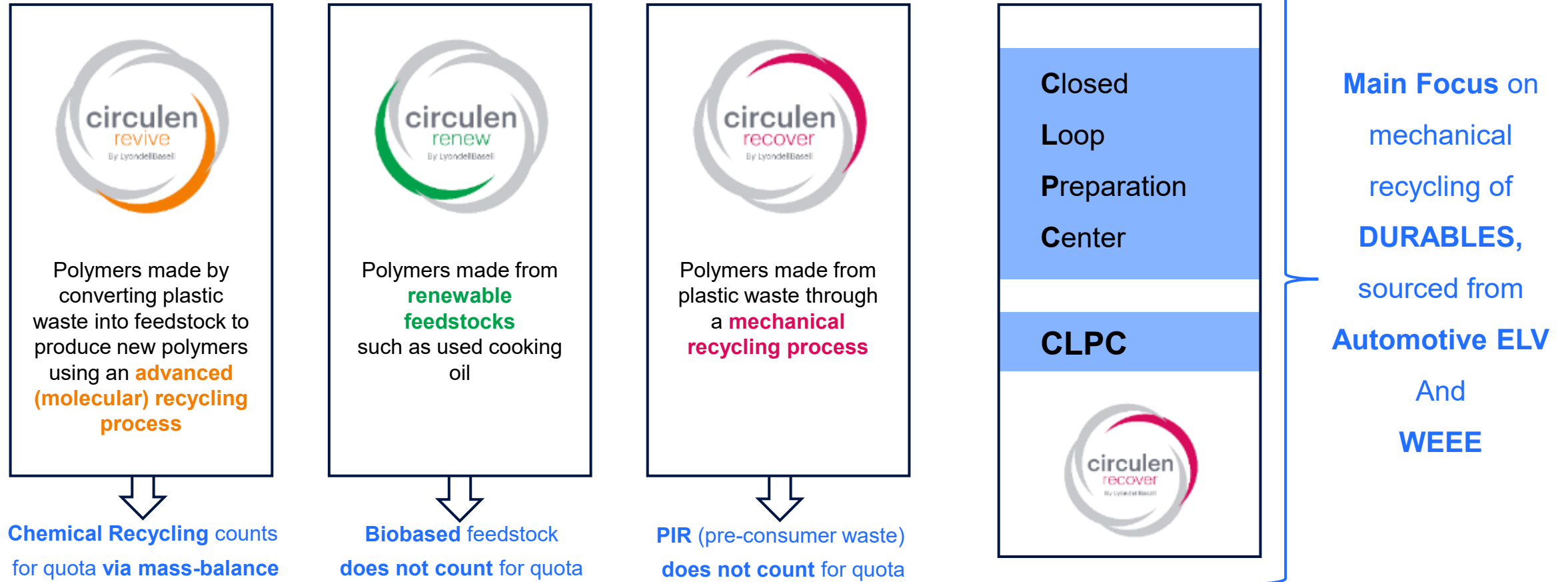
Mandatory PCR content from 2036 = 25 %

20 % from that must come from ELVs

→ ELV (5 %) + Cross Sector (20 %)



ELV legislation at *Circulen* portfolio

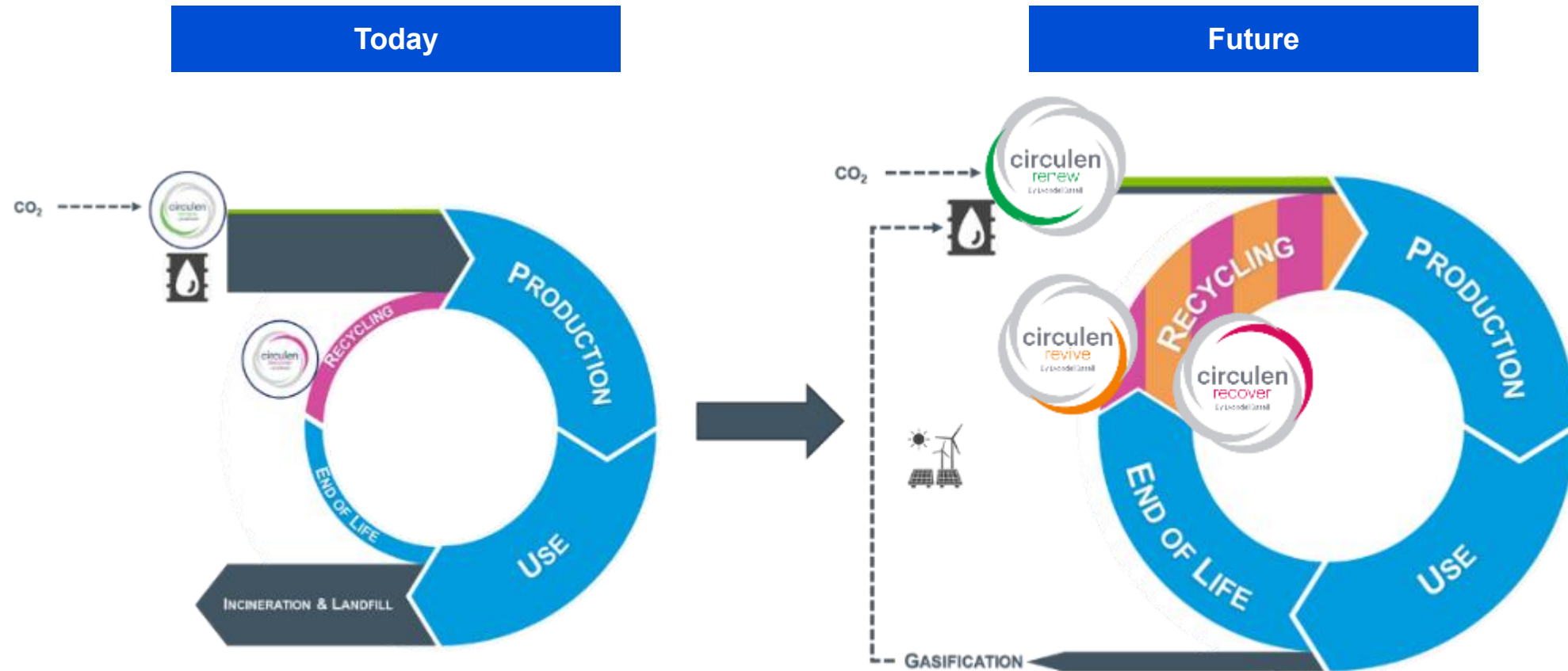


The new ELV legislation is expected to come into force in 2026

From 2032 → 15 % of PCR in new vehicles and 20 % from that must come from ELVs (3 %)

From 2036 → 25 % of PCR in new vehicles and 20 % from that must come from ELVs (5 %)

Paradigm Shift → Linear to Circular Feedstock



Automotive, E&E – Source: Open Loop – Cross sector

LYB Geleen



**Maritime
Feedstock**



MEPOL
A LyondellBasell Company

Automotive, E&E – Source: Closed Loop

Feedstock from WEEE Durables



Feedstock from Automotive Durables



Closed Loop activities

Phase 1 – Closed Loop Preparation Center

2022 / 2023

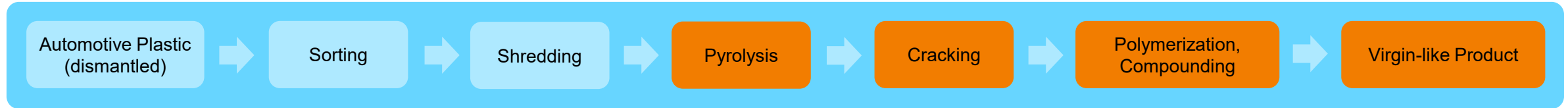
Sachsenhausen
Frankfurt I

1.800 m²

PlasticLoop project: Closed loop for automotive mixed plastic waste



Phase 1 – LYB & Audi PlasticLoop Project



Mixed automotive PCR



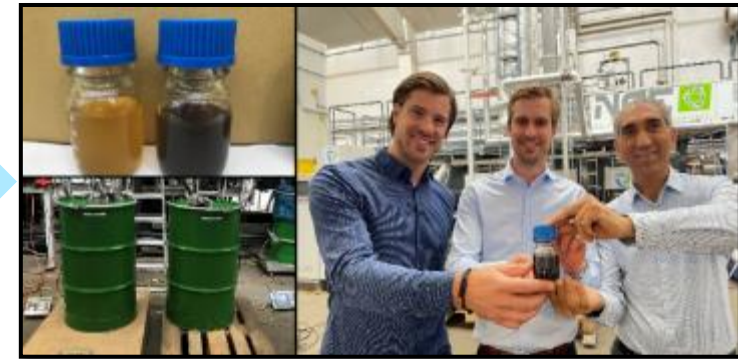
Sorted automotive PCR according to NBD + R&D advise



Grinding at sorting location



First truckload of sorted feedstock shipped to pyrolysis service provider

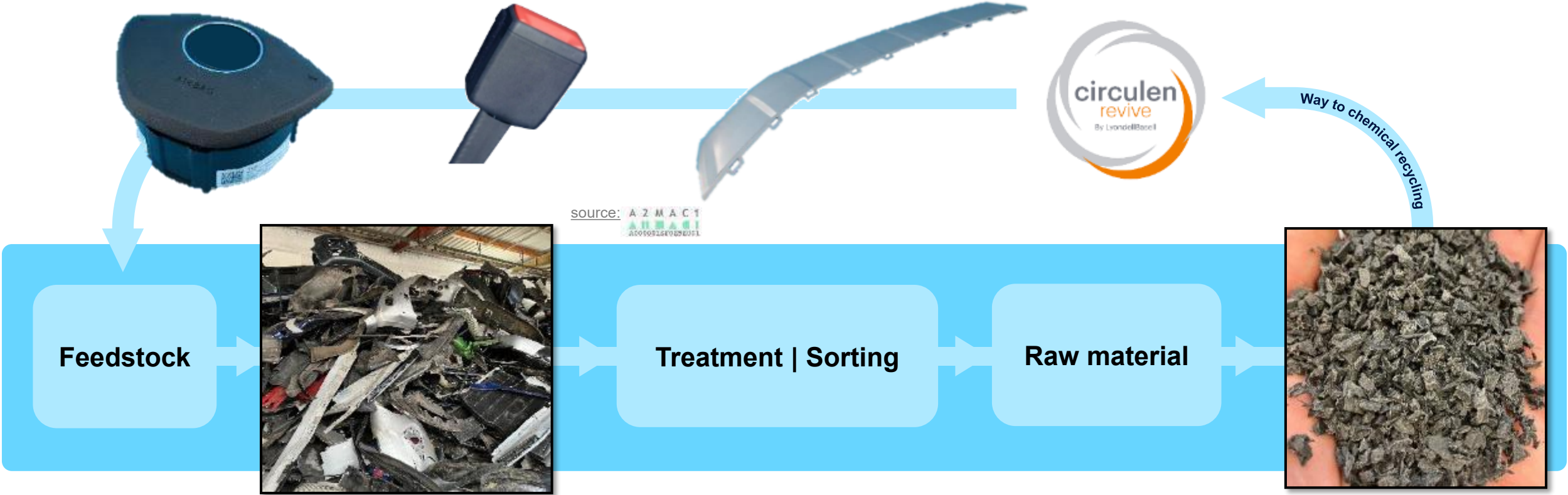
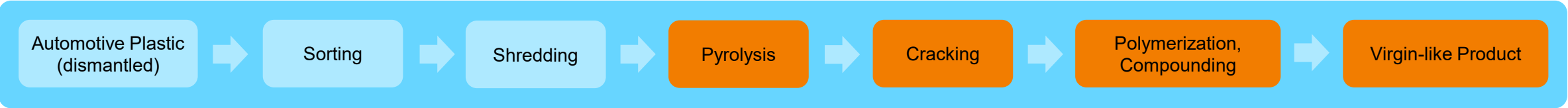


Pyrolysis run at service provider → first 1.2 tons produced



Scenes from brand reputation campaign video

Process Flow for chemical recycling



Chemical Recycling is a game-changer and a key enabler in helping build the circular economy

Mechanical recycling :

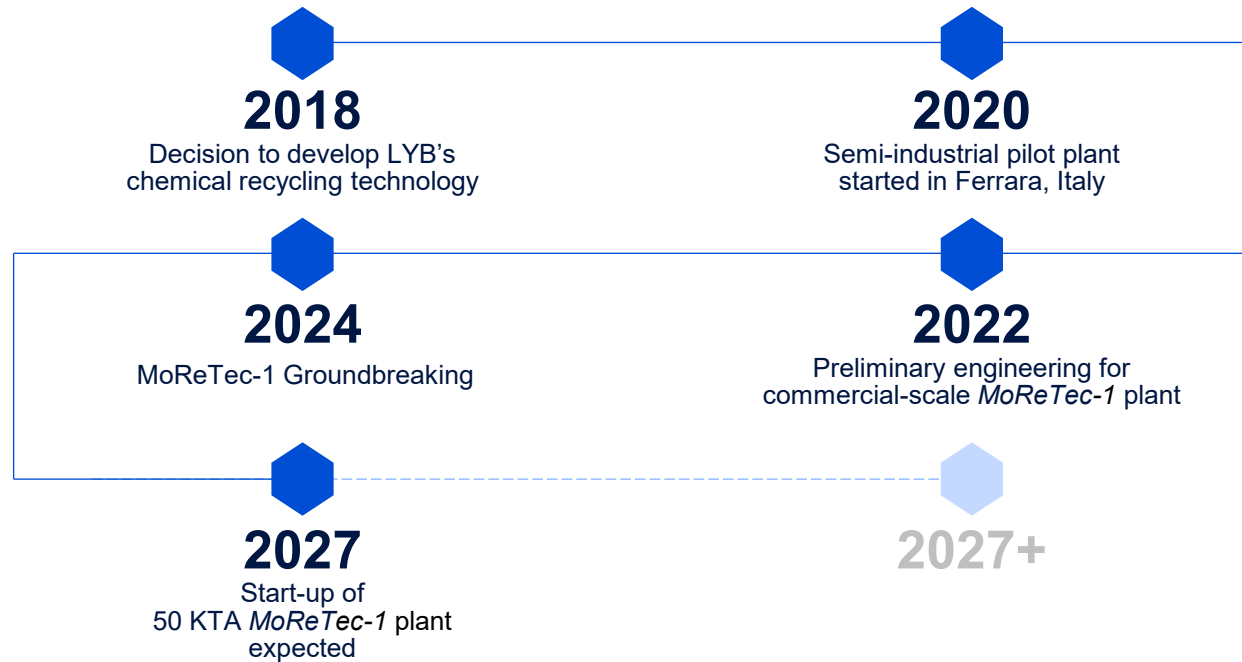
- Processes plastic waste through the shortest recycling loop, but it is not suited to all types of plastic waste

Chemical recycling :

- Complements mechanical recycling by addressing **hard-to-recycle post-consumer mixed plastic waste** that today may end up in incineration or landfills
- Serves applications **requiring high purity** such as **food packaging and healthcare**



MoReTec: Path to commercialization



Leveraging LYB's unique innovation capabilities

Integrated R&D team rapidly developed *MoReTec* technology from concept to pilot scale to address the need for scalable circular solutions that do not exist today



Utilizing LYB's integrated ecosystem

MoReTec-1 to be built at our Wesseling site near Cologne, Germany with benefits for plastic waste sourcing, carbon efficiency and energy integration



Potential licensing opportunities

Technology drives value and global growth for LYB through partnerships

MoReTec-1: One of the largest industrial investments in recent North Rhine-Westphalia history



Unique and innovative strength

Research and development teams in Ferrara and Frankfurt rapidly advanced the *MoReTec* technology from concept to pilot scale. Recognized as a strategically important project under the EU NetZeroIndustryAct



Supporting the economy and securing jobs

MoReTec-1 investment: > € 400 million - a powerful signal to the chemical value chain

Groundbreaking: September 2024



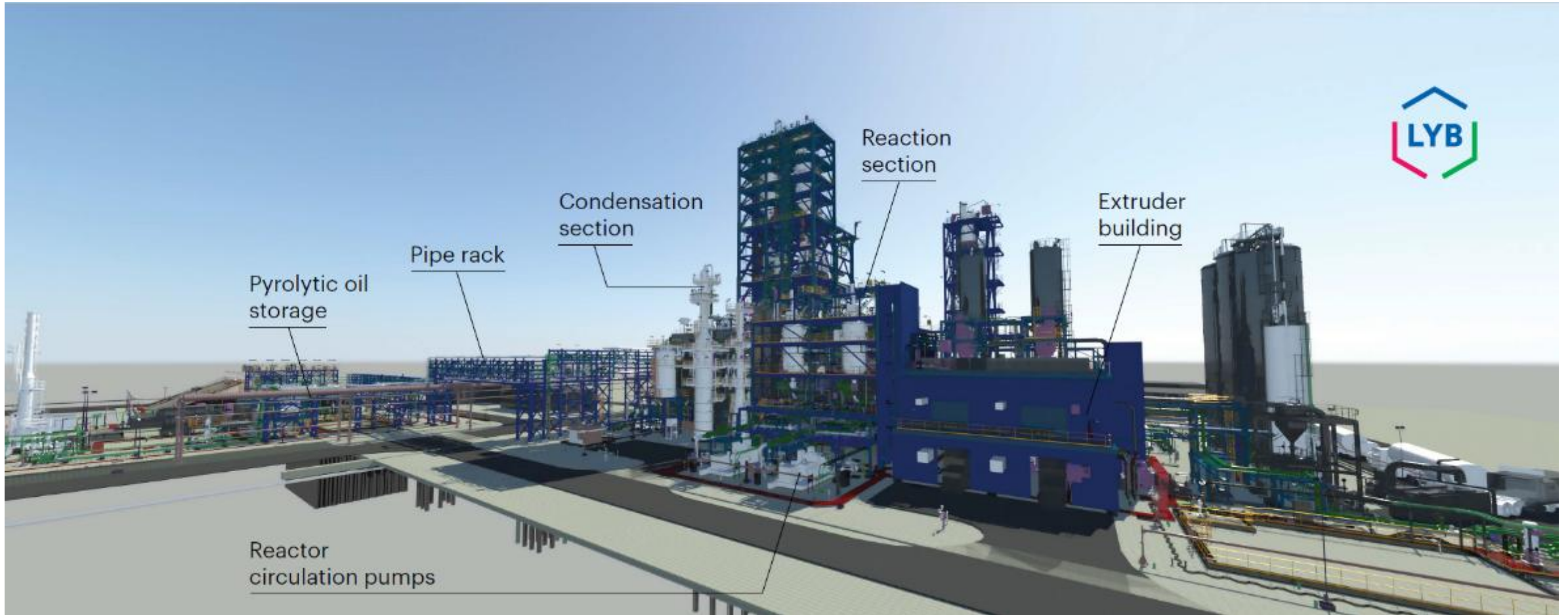
MoReTec-1 under construction in Wesseling

A large-scale chemical recycling facility (pyrolysis) with a capacity of 50 kilotons per year - equivalent to the plastic waste generated by more than 1.2 million people.

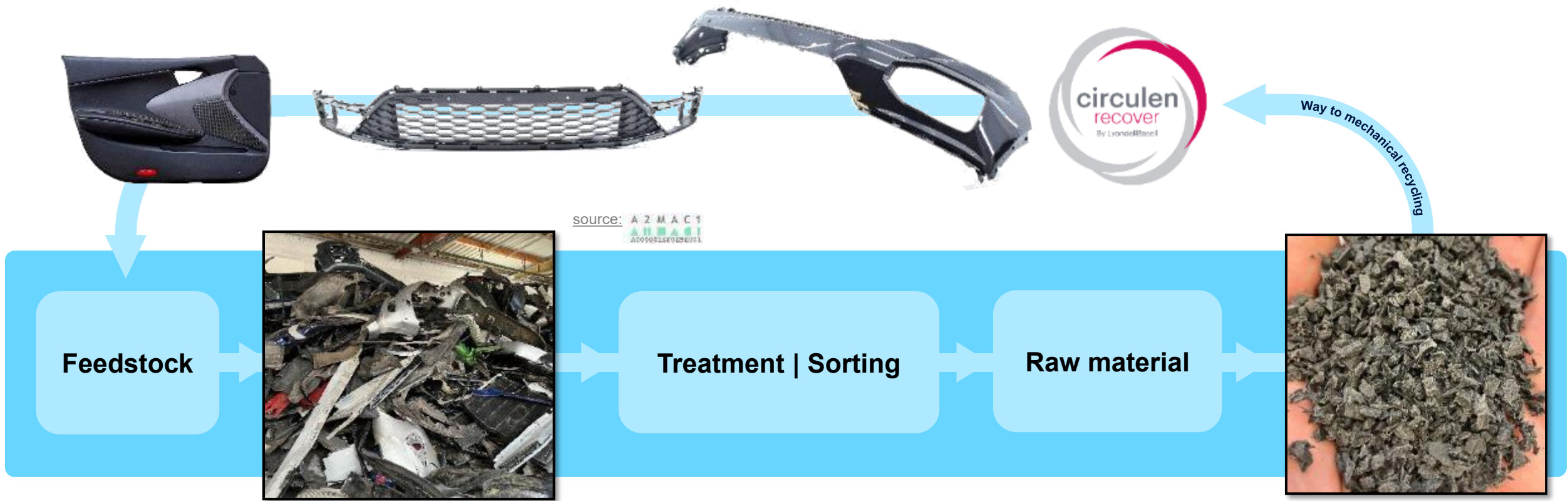
Start-up forecast for 2nd half 2027



MRT1 – how it will look like in 2027



Process Flow for mechanical recycling



Phase 2 – Closed Loop Preparation Center

Finalized
12.2023

Sachsenhausen
Frankfurt I

1.800 m²

Upscale

From 2024: Demonstration plant for ELV & WEEE

Lich
Frankfurt II

≈ 13x larger

23.000 m²

Closed Loop Preparation Center – AUTOMOTIVE

Comprehensive APS approach

Pre-Shredder dismantling and
advanced sorting



Clustered parts from End-of-life vehicles

Very high purity needed

HIGH-QUALITY APPLICATIONS

Painted Exterior | Visible Interior | Structural | Under the Hood



Additional

NON-VISIBLE APPLICATIONS

Wheel arch liners | Underbody shields

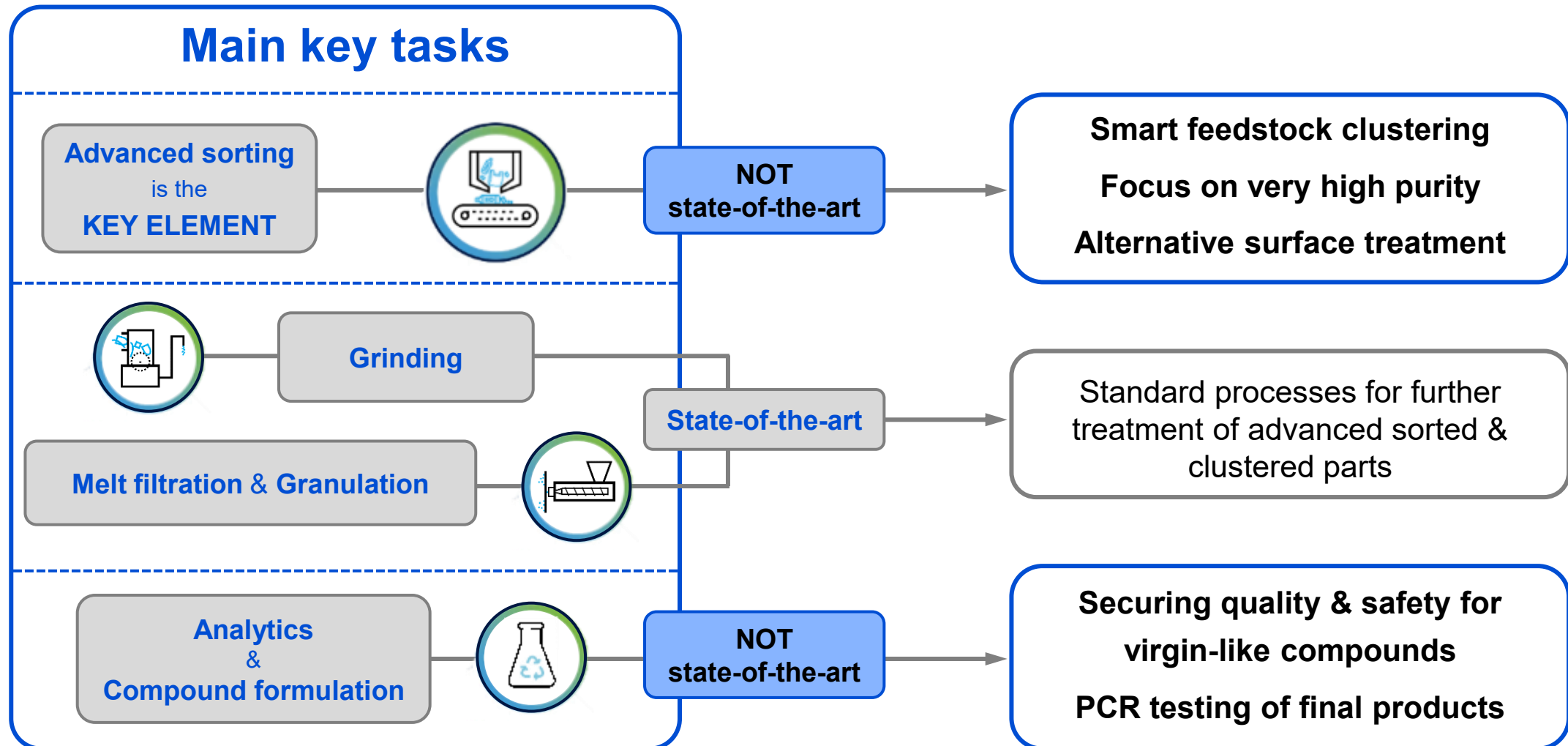


Already made
with recycling content
Partially with 100% REC

Feedstock Automotive



Summary – Closed Loop Preparation Center



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Solutions for a better tomorrow