Indaver, leading the field in sustainable waste management

Indaver Antwerpen - Plastics2Chemicals

Karl Vrancken
Capture workshop
10 December 2025

Strategy of the Indaver Group

KATOEN NATIE

Indaver is a solid, reliable company

Organisation
1 shareholder KATOEN NATIE

Headquarter
Belgium

Revenue
945 M€

EBITDA
161 M€

Employees
2306

Waste Managed
5.6 M tonnes

Waste streams for Material Recovery
1.2 M tonnes

Energy Recovered*
278.000 households

**the equivalent of*

Installation Europe
16 (major) installations

Offices Europe
30+

Indaver in Belgium

1 Indaver Doel

- 3 grate incinerators
- 3 fluidised bed incinerators
- E-Wood
- Ash treatment
- Lamp recycling
- Landfill haz & non haz waste

2 Indaver Kallo

- Transfer station
- Logistics

3 Indaver Grimbergen

- Compost & biomass
- Transfer station

4 Indaver Antwerp

- 3 rotary kilns
- Physicochemical treatment
- Haz waste landfill
- Recovery of precious metals (Inda-MP)
- Recycling end-of-life plastics (P2C)
- Heat network (WAN)

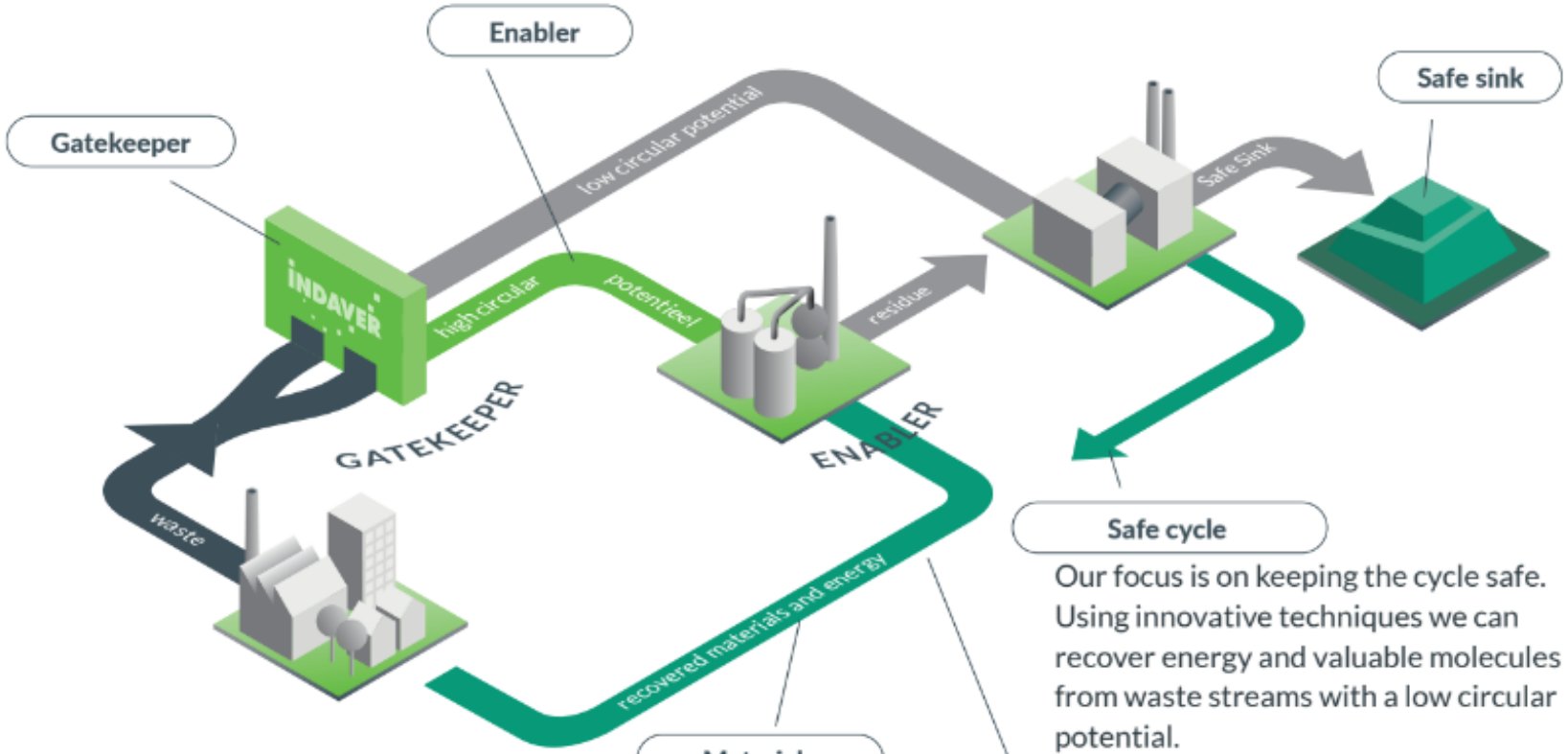
5 Indaver Plastics Recycling

- Sorting and purification of PMD
- Transfer station
- Logistics

6 Headquarters and (commercial) offices

- Mechelen: headquarters
- Nivelles, Waregem: commercial offices
- Singelberg: commercial office and registered office

Leading the field in the circular economy



Safe cycle

Our focus is on keeping the cycle safe. Using innovative techniques we can recover energy and valuable molecules from waste streams with a low circular potential.

Materials

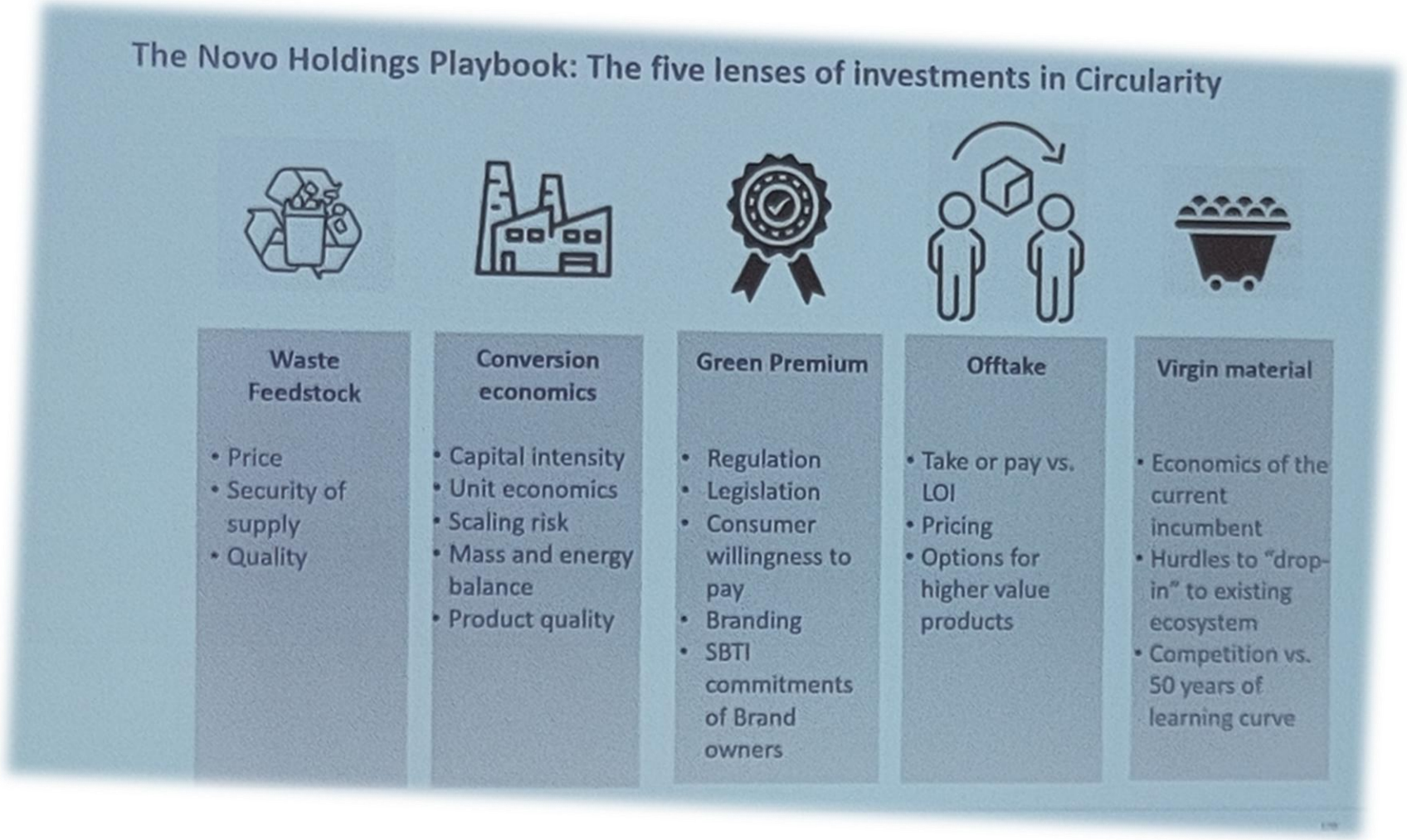
Maximum recovery of high-grade materials.

Energy

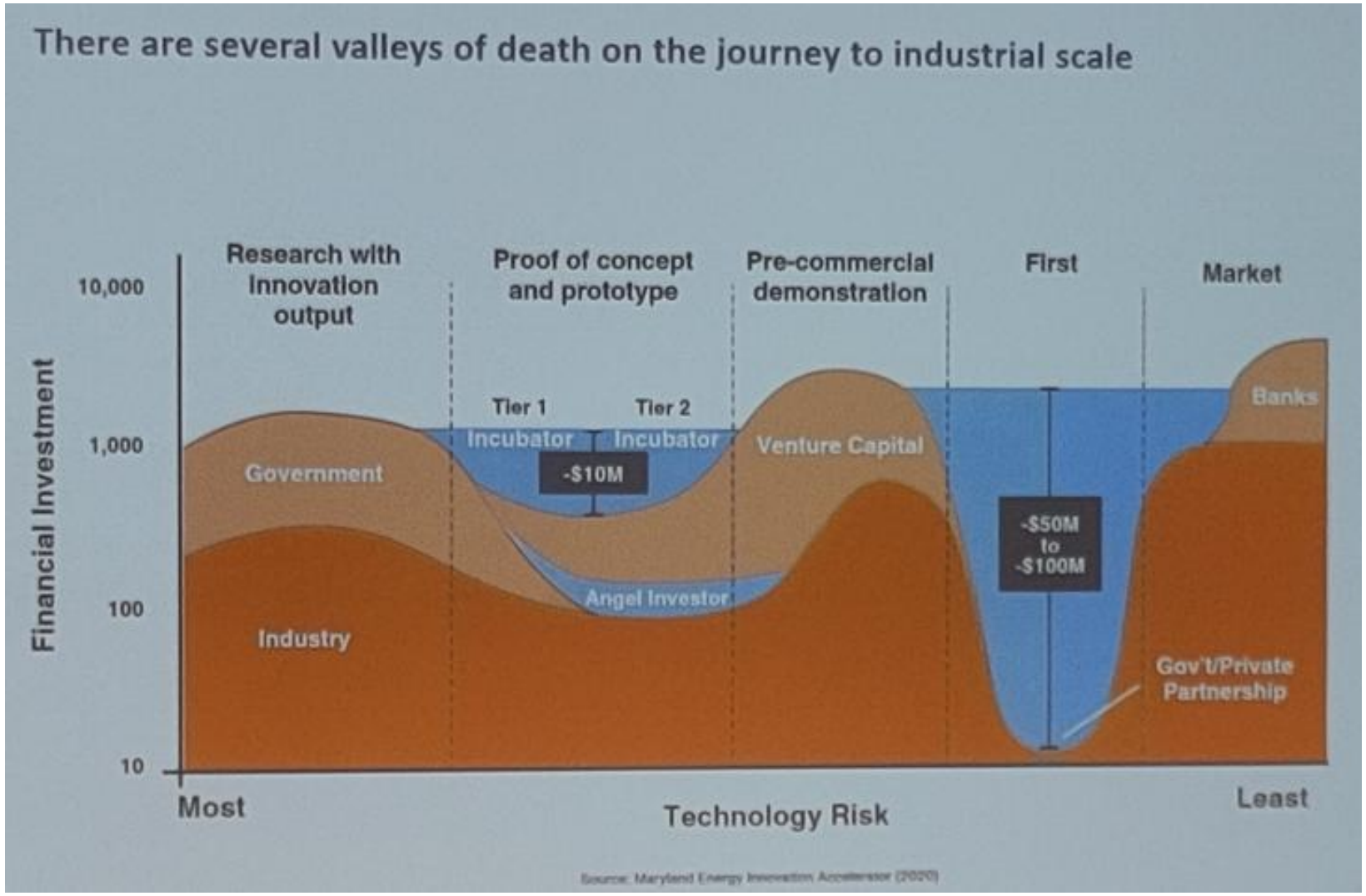
Maximum recovery of energy in the form of steam, electricity and heat.

Video

Five lenses of investment in circularity



Valleys of death



Plastics2Chemicals:
A circular economy enabled by advanced recycling

Advanced recycling regulated by EU legislation

In force since 11/02/2025

REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

on packaging and packaging waste, amending Regulation (EU) 2019/1020 and Directive (EU) 2019/904, and repealing Directive 94/62/EC

EUROPEAN COMMISSION

DRIVER 1:
Increased recycling rate targets

Recycling rate targets for plastic packaging waste:

2025: 50% (EU),
2030: 55% (EU), 70% (BE for municipal)

→ Need for additional recycling[1] capacity of:
- **> 3 mio T plastic packaging waste in 2030**

DRIVER 2:
Recycled content targets

The plastic part in packaging shall contain the following **minimum percentage of recycled content** recovered from post-consumer plastic waste, per unit of packaging:

2030: 10 % for contact sensitive packaging other than PET, except single use plastic beverage bottles;

2040: 50 % for contact sensitive plastic packaging, except single use plastic beverage bottles;

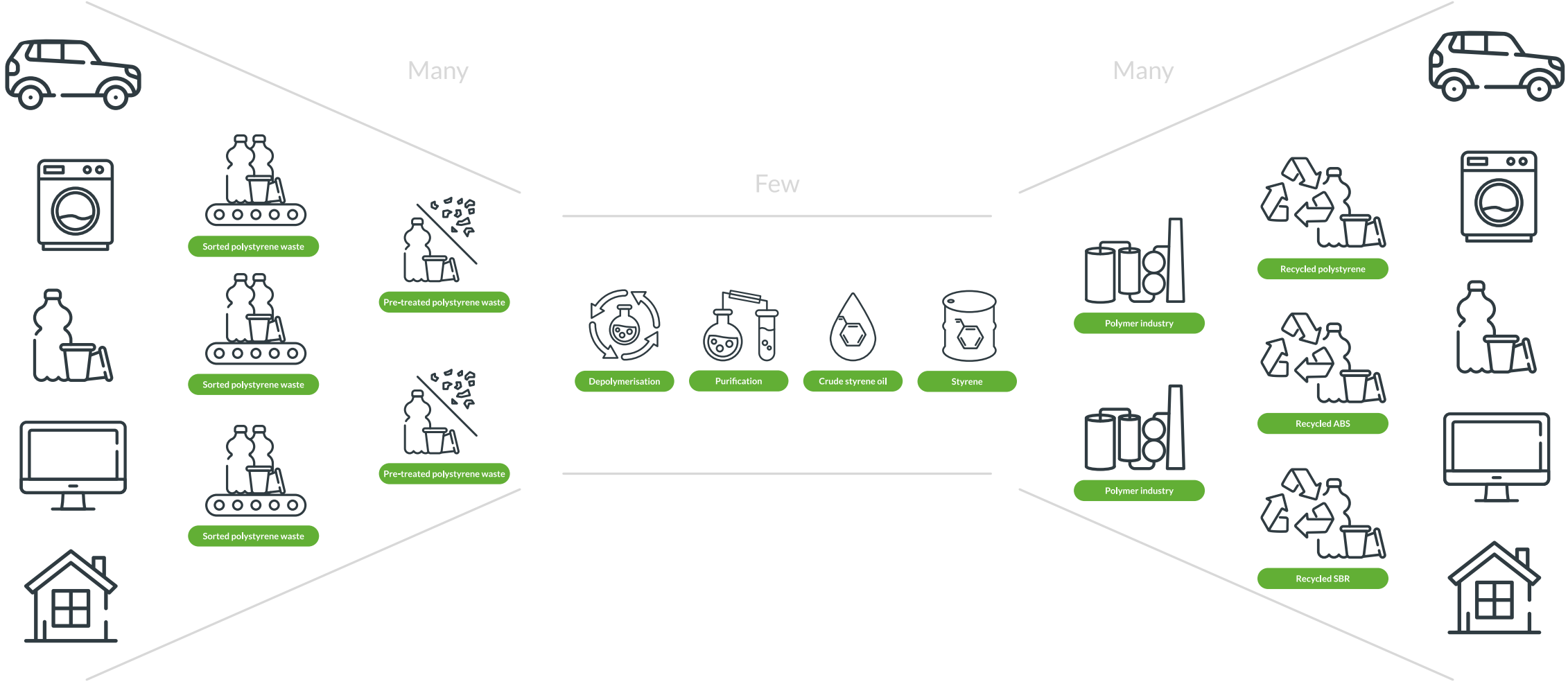
→ Need for **high-quality** recycling[2] capacity of:
- **> 4 Mio T plastic packaging waste in 2030,**
  > 20 Mio T in 2040

↓

Only achievable with **advanced recycling delivering high Q output such that loops can be closed within same or higher application**

1. 18,5 Mio T plastics packaging waste in EU (2022). Recycling without the need for food-grade
2. 21,1 Mio T plastics for packaging in EU (2022). Recycling with the need for reuse for packaging purposes (including food grade)

From many to few to many



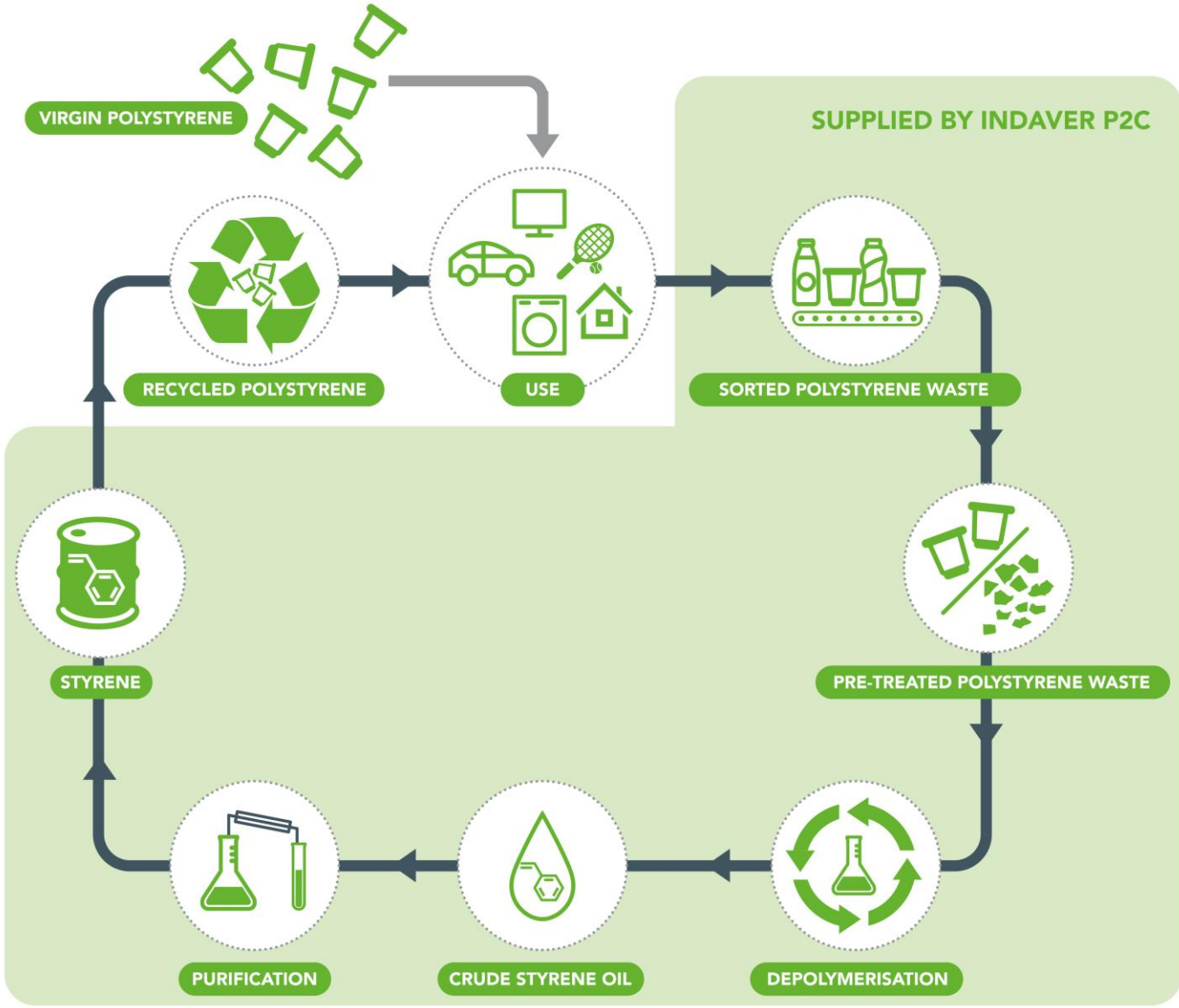
Value proposition

Accept **waste** in the form and quality available today

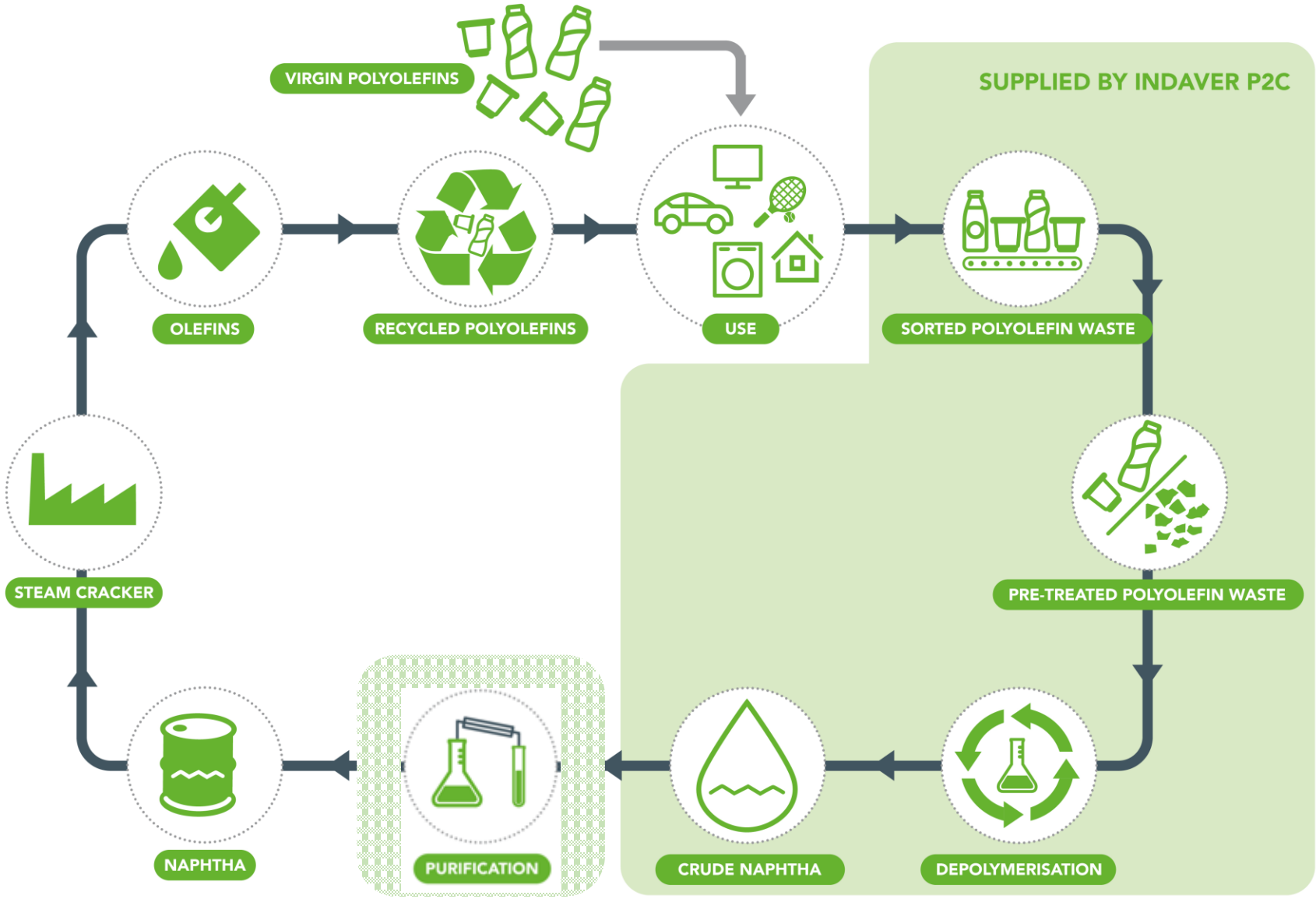
We "**unburden**" the upstream and downstream parts of the closed loop to facilitate inflow and outflow of the core asset (P2C)

Deliver **drop in feedstock** directly acceptable in existing petrochemical processes

Closing the loop through thermal depolymerisation – PS



Closing the loop through thermal depolymerization – PO



A brief history of P2C

2017: we set up our little pilot and started testing on real waste.

2019: we succeeded – on a small scale – in making high-quality recycled product.

2025: we kick-started our demo plant.

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Research and development

Pilot hall

Extrusion
Thermal Pyrolysis
Catalytic Pyrolysis

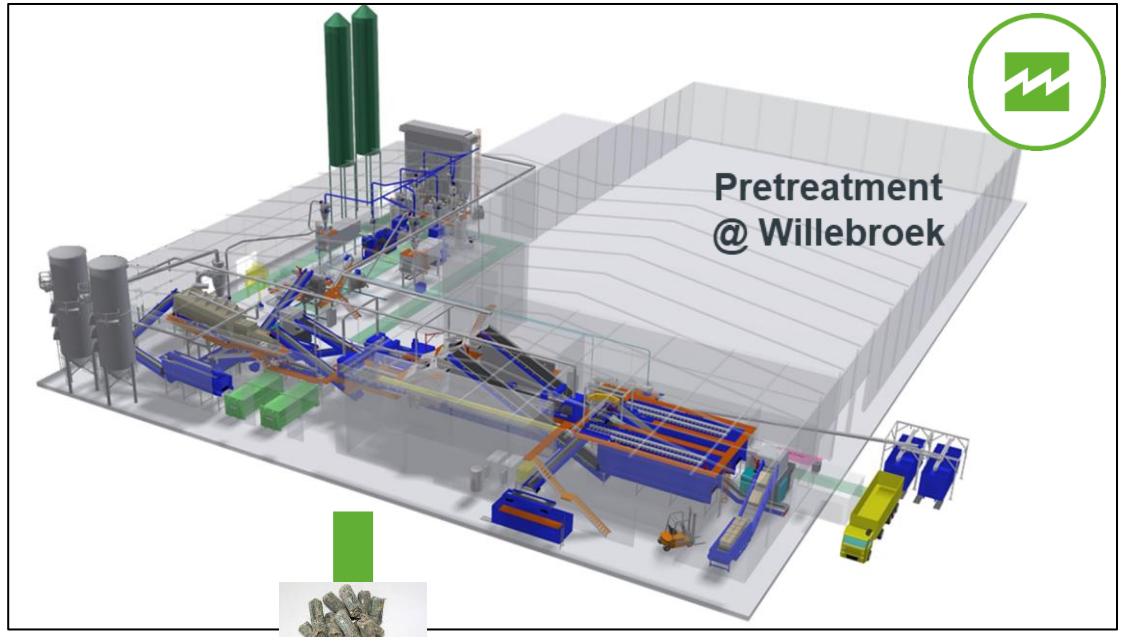
R&D lab

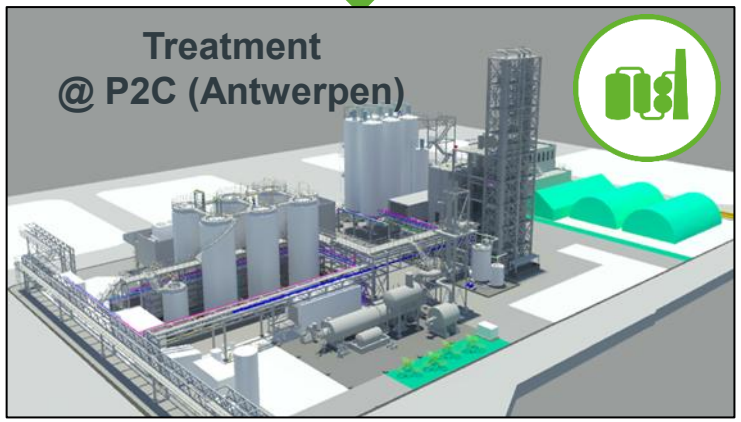
Post-treatment
Feedstock analysis
Product Analysis

New sorting installation operational since Q1 2021

Supply chain

1. Household waste (packaging)
2. Industrial waste
3. Recycling plant rejects

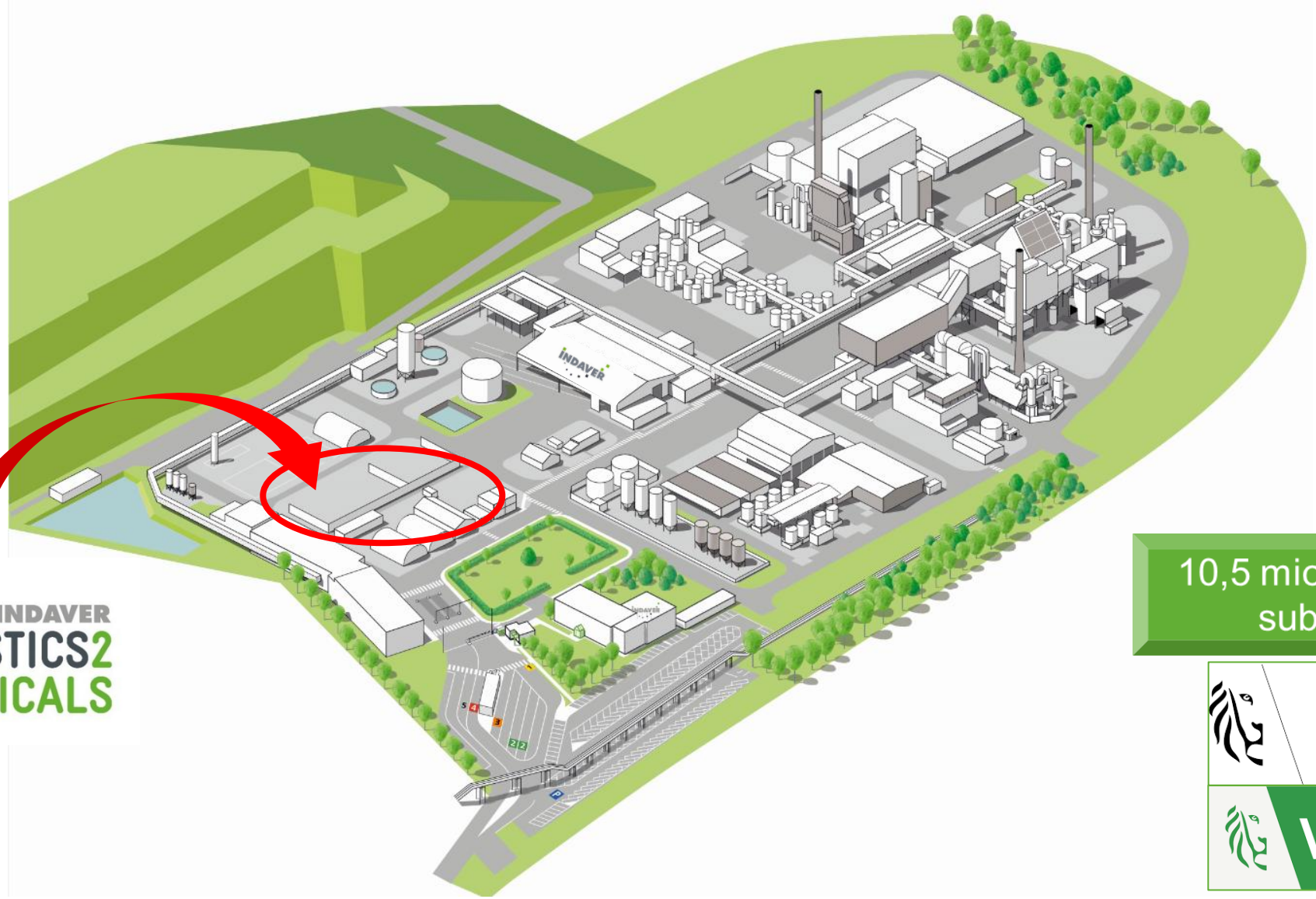




- Polymerisation plant to PS (styrene monomer)
- Specialty application (styrene byproducts)
- Steam cracker to PE/PP (naphtha)
- Specialty application (wax)

New depolymerisation plant (P2C) operational Q2 2025

Location: Indaver Antwerp



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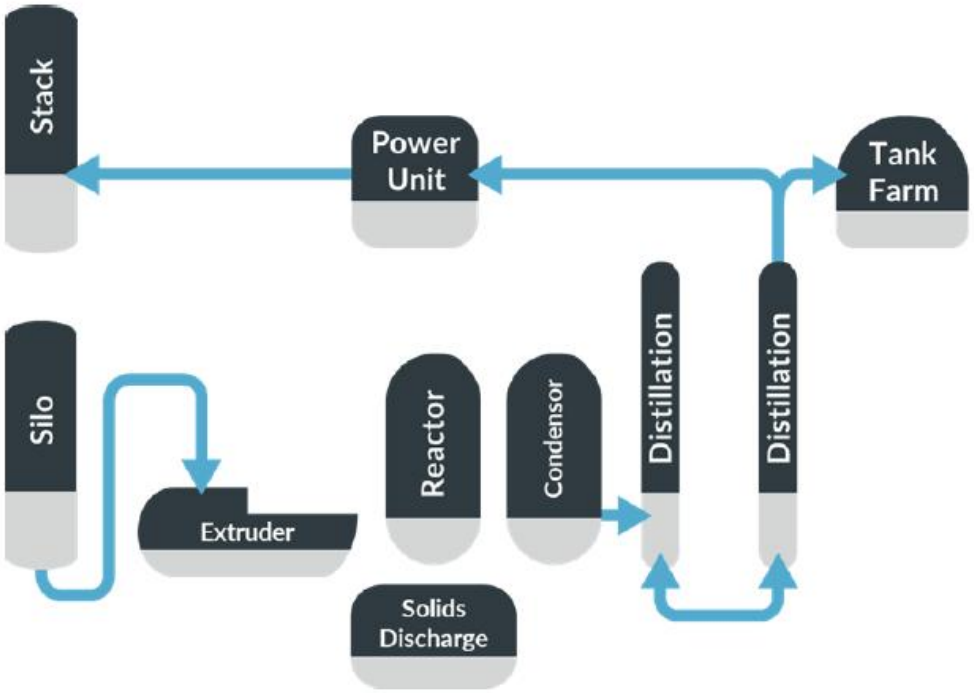
10,5 mio € Flemish subsidies

WE MAKE TOMORROW BEAUTIFUL
OVAM
VLAIO

The P2C process and the installation



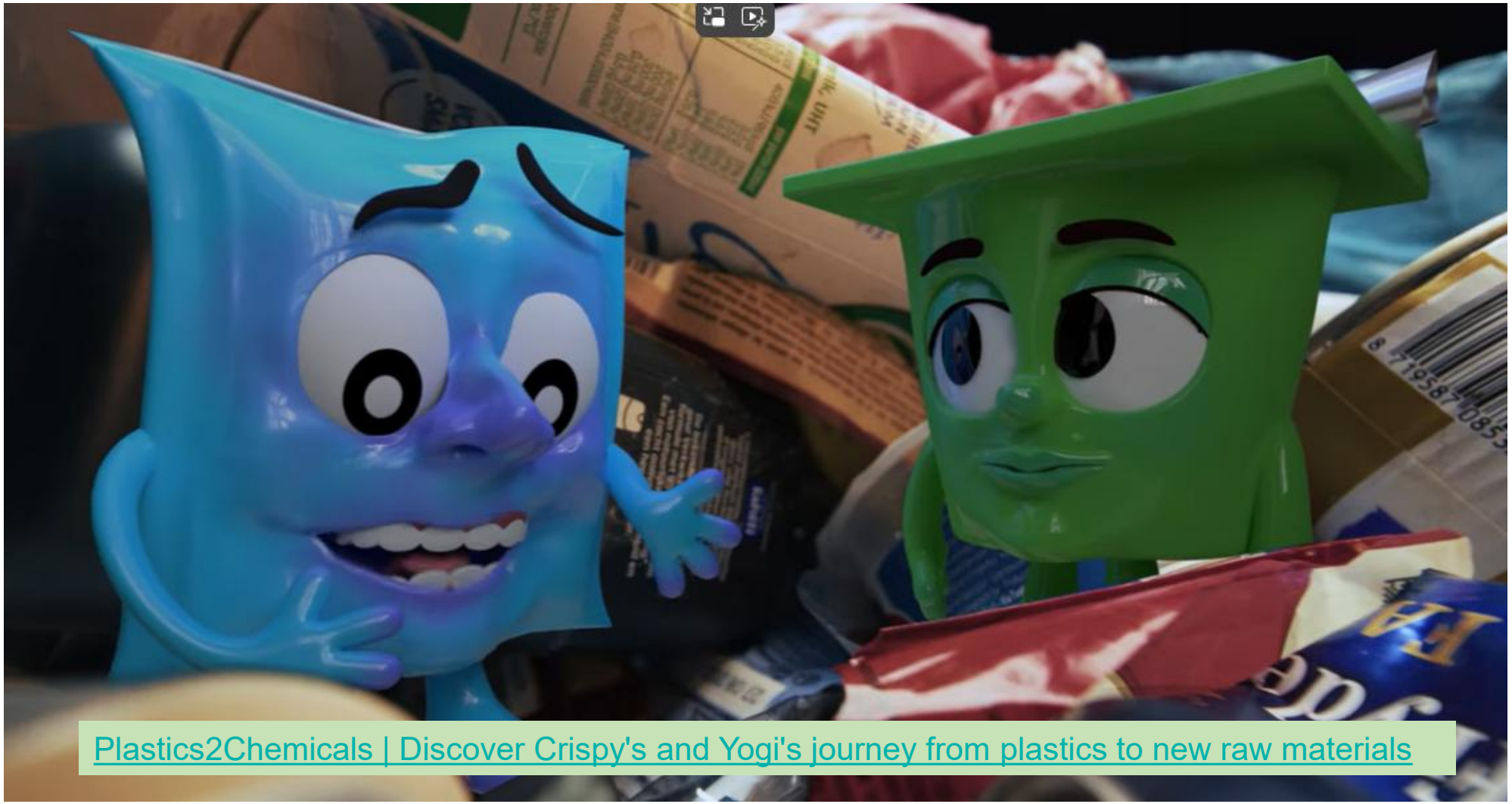
Subsidised by

VLAIO

WE MAKE TOMORROW BEAUTIFUL
OVAM

Funded by the European Union
NextGenerationEU

Watch the animated video of Crispy and Yogy



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