High performance catalysts for sustainable chemicals and fuels

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CATALISTI

1 Importance of advanced catalysts

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► What do sustainable refineries require?



Less energy-intensive processes
and 2-3% more efficient



Complex feedstock processing
(biomass / waste Plastics / CO2)



Economically scale valorisation processes for sustainable products



Key enablers to the above requirements are

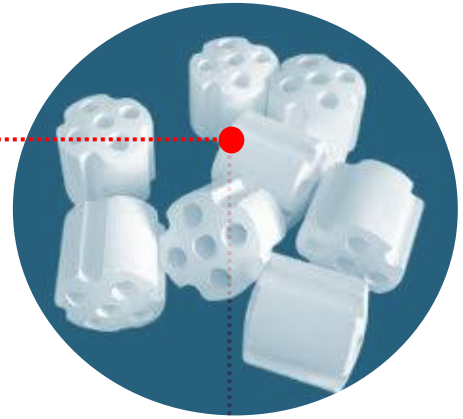
CATALYSTS

1 Importance of advanced catalysts

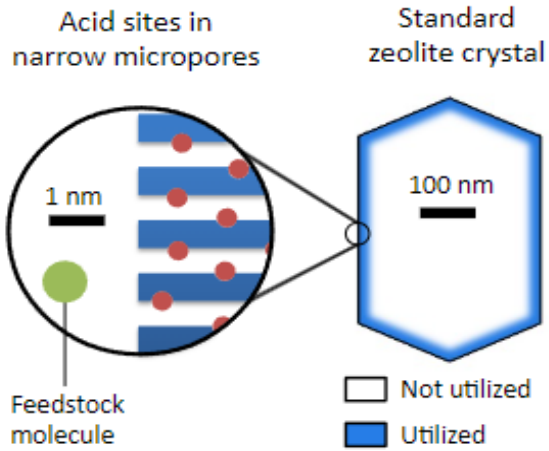
► Catalysts: Core engines in any refinery

- **What is their role?**

Driving efficiency and yield	Enhancing product quality	Removing impurities



- **Main active ingredients?**



Standard Zeolites

↘ Suffer from diffusion limitations

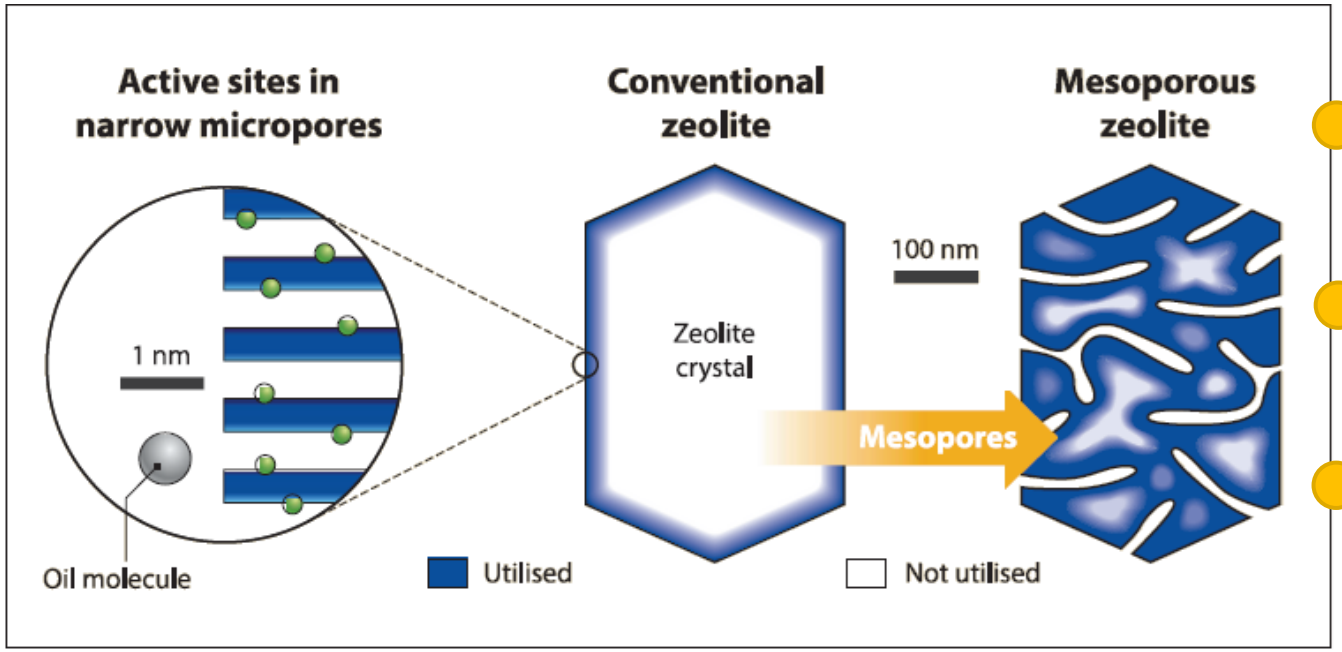
↘ Loss of activity

↘ Loss to undesired by-products.

2 Zeopore's innovative mesoporization technology

▶ Preparing today's infrastructure for sustainable feedstocks

PRECISION PORE ENGINEERING



- Higher accessibility
- Higher stability
- Longer catalyst lifetime

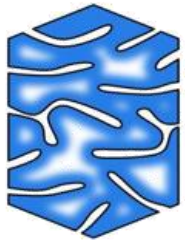
2 Zeopore's innovative mesoporization technology

► Market positioning



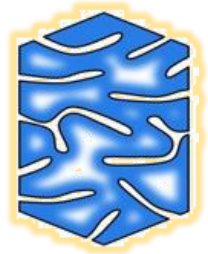
Source Raw Material

Standard (cheap) zeolites



Upgrade to high-performance zeolites

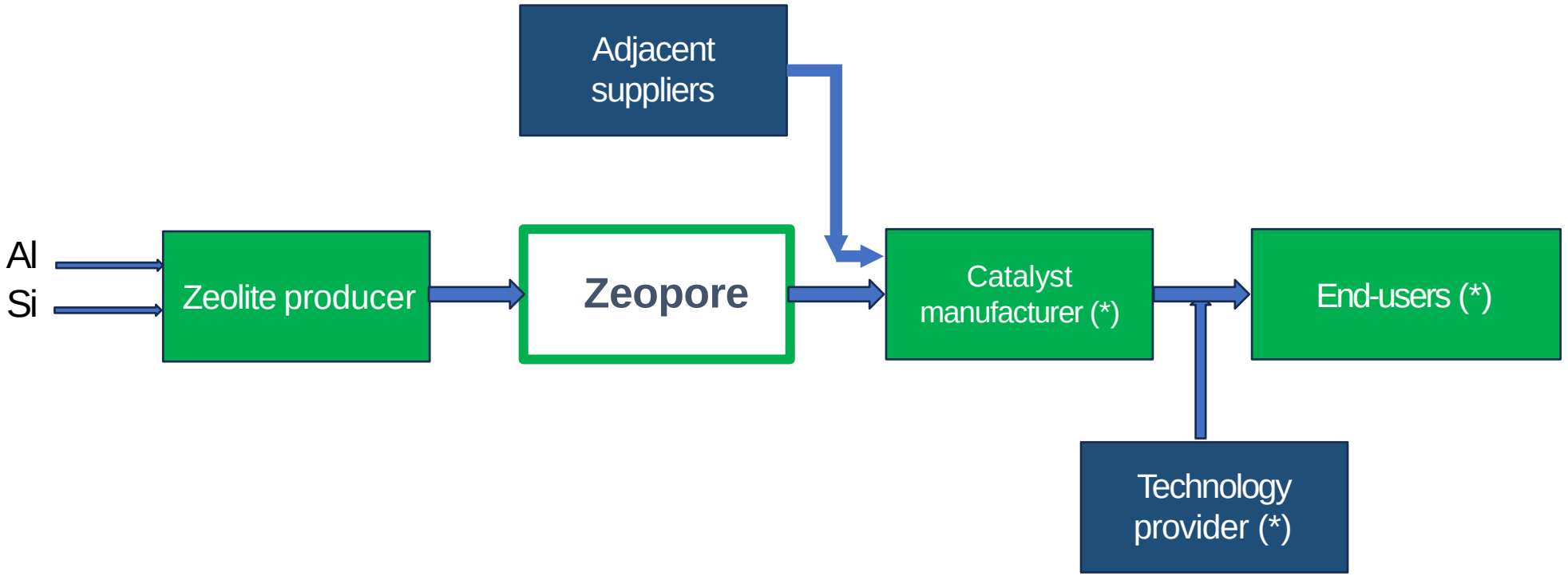
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Sell to customers

1 2 3

2 Zeopore's innovative mesoporization technology



(*) some end-users and technology providers produce their own catalysts

3 Zeopore's assets



- **TRL6-7 | Semi-industrial unit**
- capex 500 k€, capacity 200 ton/a,

TECHNOLOGY VALIATION

STRONG IP
Application , Process, Properties

COST COMPETITIVE

DROP IN
Versatile technology
Adv. tuning platform

MESOPORIZATION AT TON-SCALE

CO2 IMPACT
Less waste streams
Less heat generation

BioBTX

INERATEC

EVONIK
Leading Beyond Chemistry

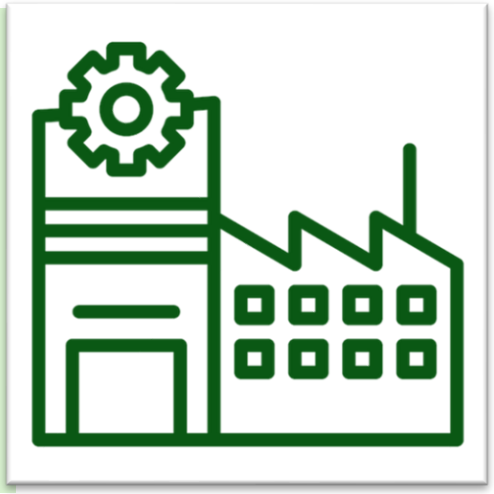
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4 Join our journey



Leuven,BE

- Continuous process efficiency
- Expand production capacity
- Spread commercial footprint



- Industrial unit
- Production capacity
- (1-3K ton)

TRL 7 — 2027

TRL 9 — 2030

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Access Matters

Let’s connect

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