



Co-funded by the COSME programme
of the European Union

CIRCULAR BIOECONOMY CONFERENCE & B2MATCH

ENABLING SUSTAINABILITY AND RESILIENCE

MILAN, FEBRUARY 15 2023

UNIVERSITÀ DEGLI STUDI DI MILANO – BICOCCA



INTERNATIONAL BIOECONOMY CONFERENCE 9:00 – 13:00

AULA U2 – 01 PIAZZA DELLA SCIENZA, 3



B2MATCH 14:00 – 18:00

AULA U1 – 05 PIAZZA DELLA SCIENZA, 1



Circular Bioeconomy Conference

Enabling
sustainability and
resilience

Milan 15/02/2023

The REPurpose project

Lena Decuyper, PhD

Project Acquisition Coordinator at Bio Base Europe Pilot Plant
and Coordinator of the REPurpose project



Hemp Club



Project co- funded by the European Union



Rubbery plastics designed for recycling

Repurposing post-consumer waste into recyclable rubbery plastics

Lena Decuyper, PhD

Project Acquisition Coordinator at Bio Base Europe Pilot Plant Coordinator
of the REPurpose project
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BBEPP

Your scale-up partner for a sustainable and circular bioeconomy

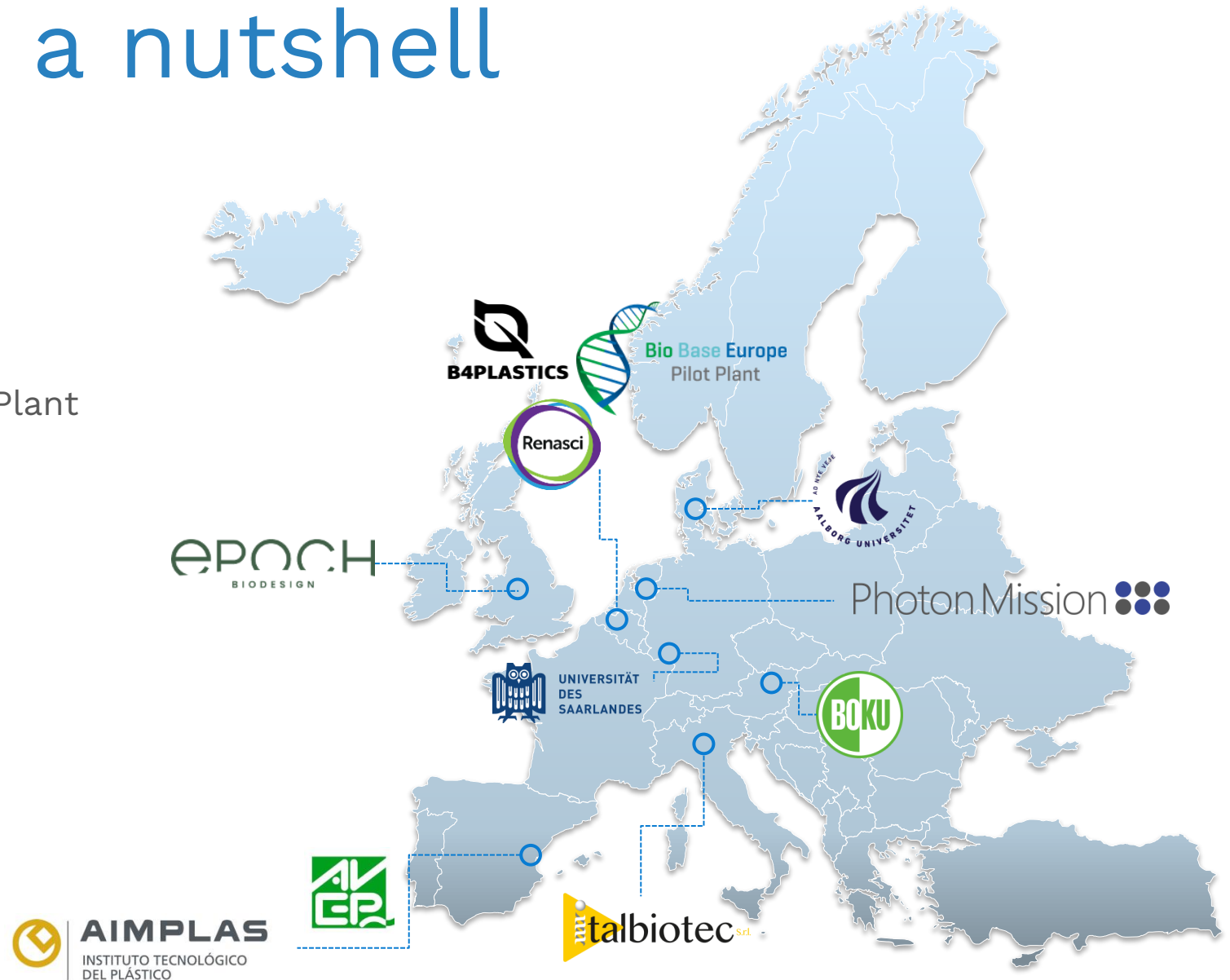
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Our other plastics projects

Our expertise towards a circular plastics industry

REPurpose in a nutshell

- 1/9/2022 – 31/8/2026
- 6.06 M€
- Coordinated by Bio Base Europe Pilot Plant
- 9 partners and 1 associated partner



Our team



REPurpose concept

Recyclable **E**lastomeric **P**lastics safely and sUstainably designed and produced
via enzymatic Recycling of Post-cOnsumer waSte strEams



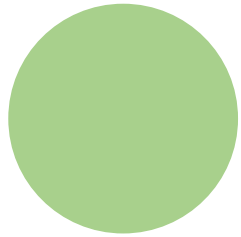
**Plastic
waste**

**Paper &
Cardboard**

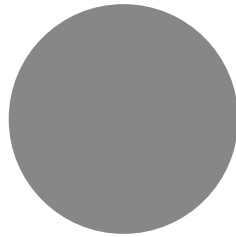
**Local
post-consumer
waste**

Project scope

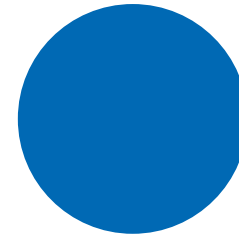
Develop and **validate** the production of a platform of **safe- and sustainable-by-design**, additive-free **thermoplastic elastomer prototypes** from local **post-consumer waste** with intrinsic biodegradability and recyclability properties



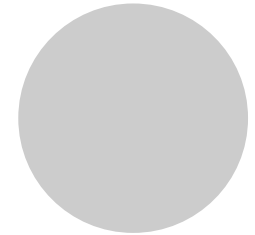
Ensure the safety
and recyclability of
plastic



Enhance SSBD
processes in the
plastics sector

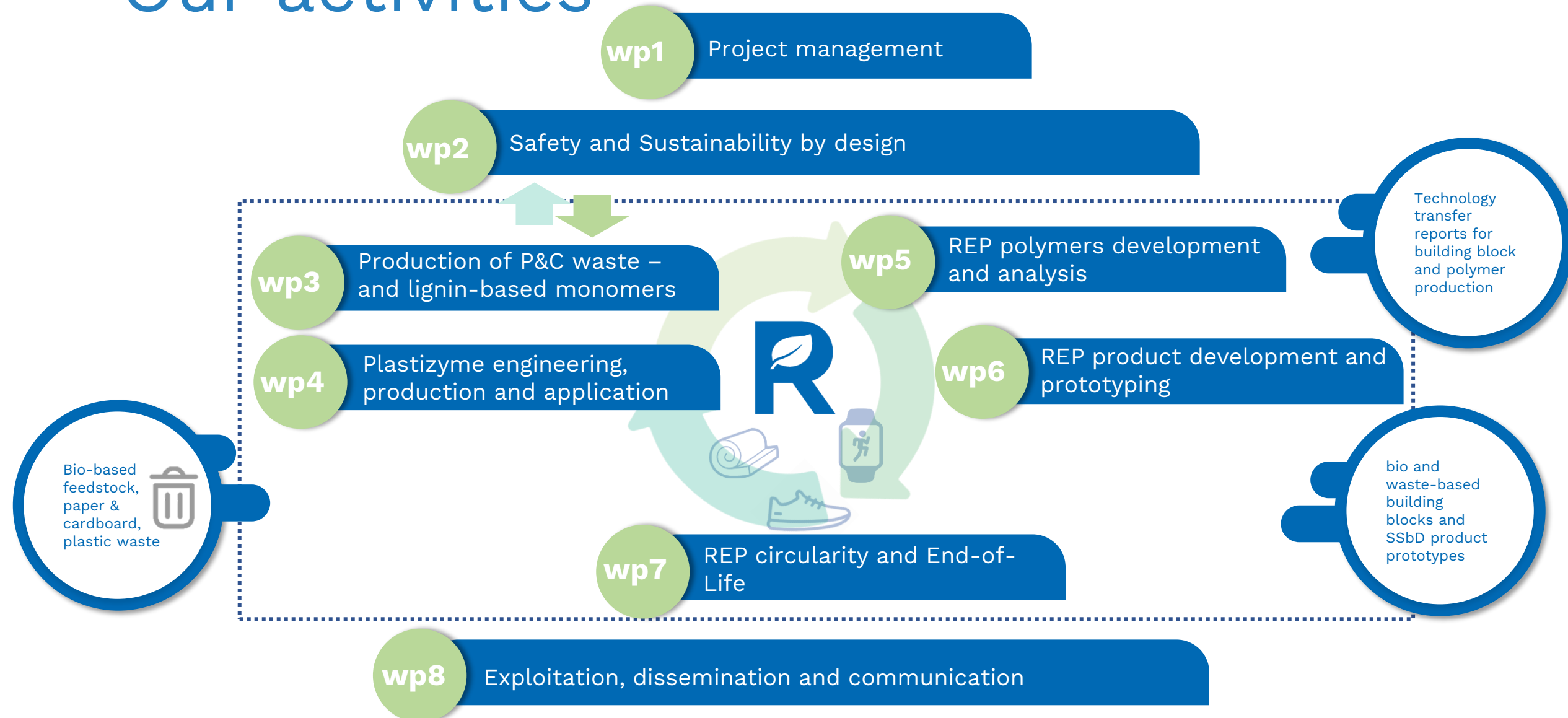


Demonstrate
sustainable
conversion for
elastomeric plastics



Strengthen public
awareness and
support for
sustainable plastics
standards

Our activities



End User Group (EUG)

REP Products



- Involvement of end users from the beginning of the project
- Focus on three sectors: building & construction, automotive and transport, and consumer goods
- Role: Application testing, feedback and advice on material requirements
- Outcome: co-development of new plastics and end products, techno-economic validation of the project

SAYE



FAIR

TRELLEBORG

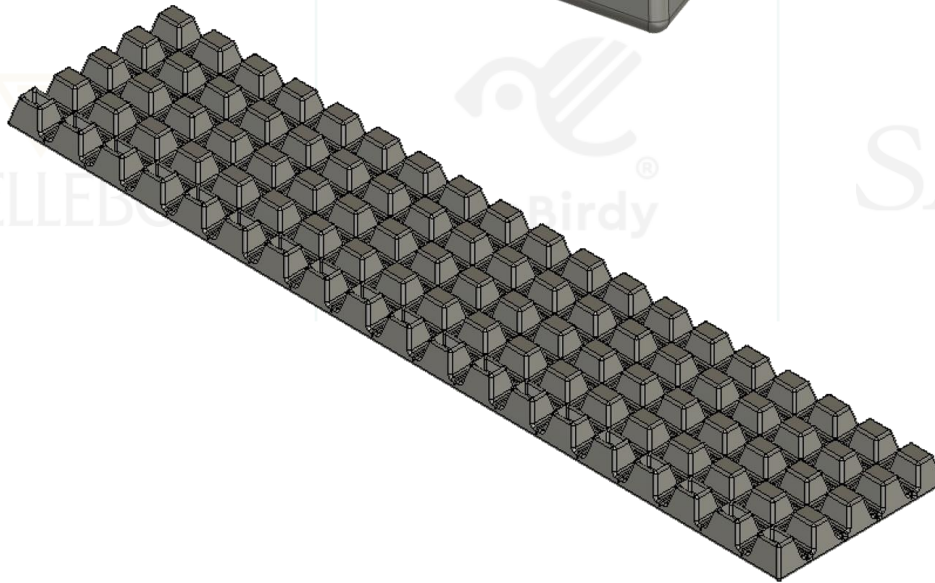
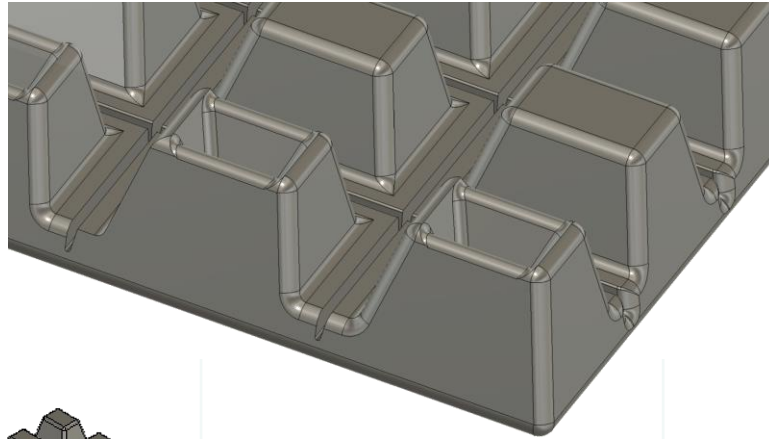


End User Group (EUG)



YOU?

End User Group (EUG)





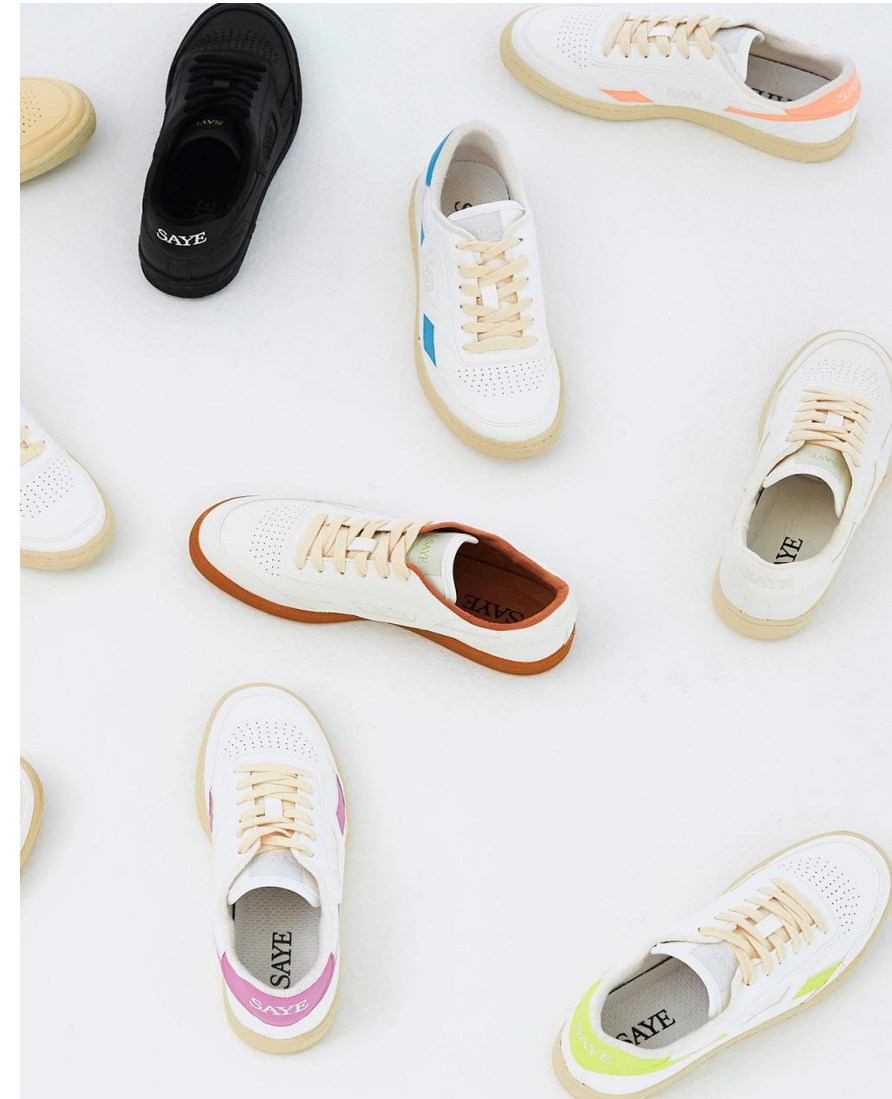
End User Group (EUG)



End User Group (EUG)



SAYE



End User Group (EUG)



YOU?

Advisory Board (AB)

- Role: Advice, feedback, and support on REPurpose methodology and solutions



Follow the REPurpose activities



www.repurposeproject.eu



REPurpose project



@REPurposeEU



Shortcut linktr.ee



Bio Base Europe Pilot Plant

Turning grams into tonnes

Who are we?



Multi-purpose pilot facility for biobased products and processes



2008

2010

2023

Founded as non-profit
SME in Ghent, BE

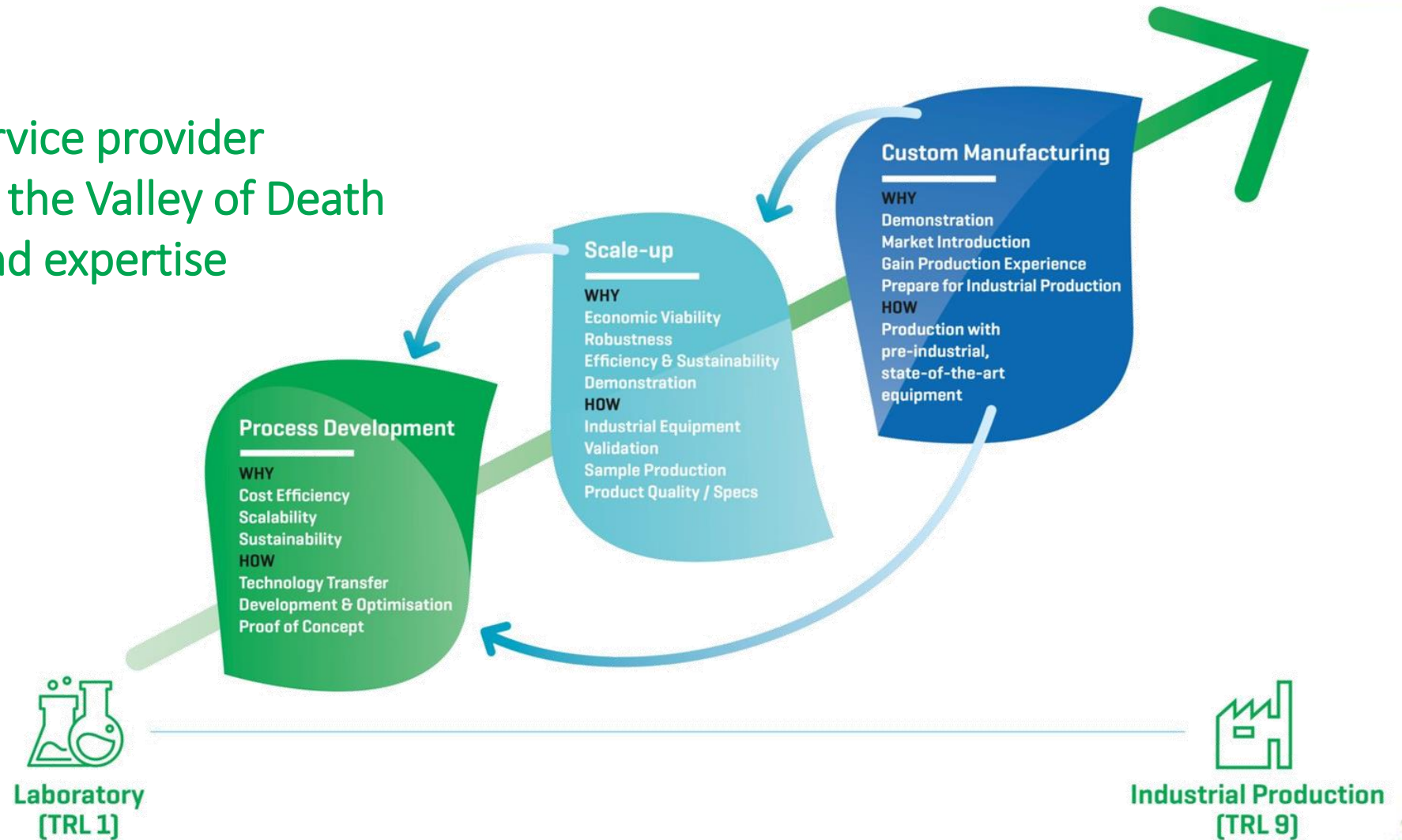
Plant operational

>170 employees
>25 M€ turnover

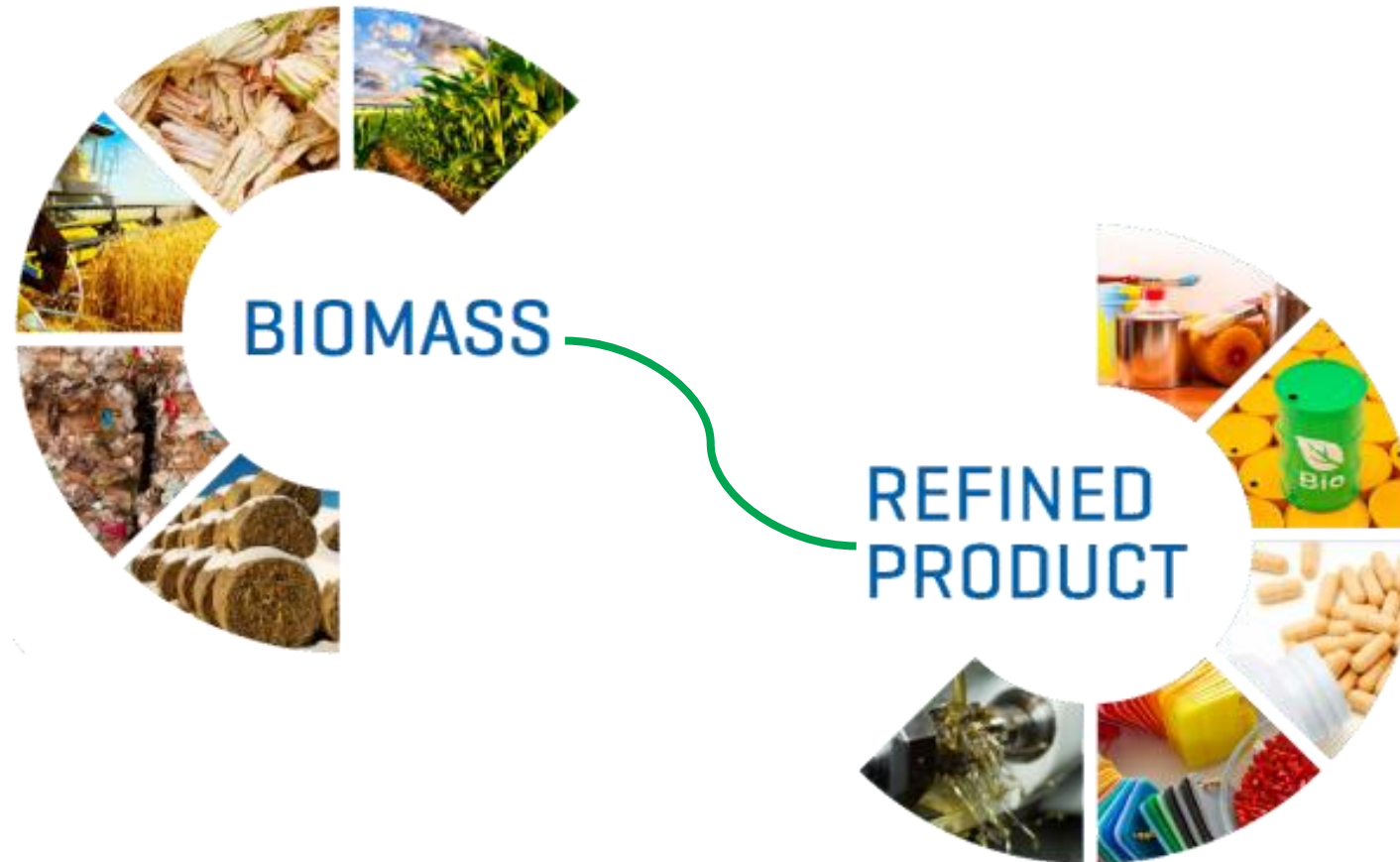
What do we offer?



Fully independent service provider
helping you to bridge the Valley of Death
with infrastructure and expertise

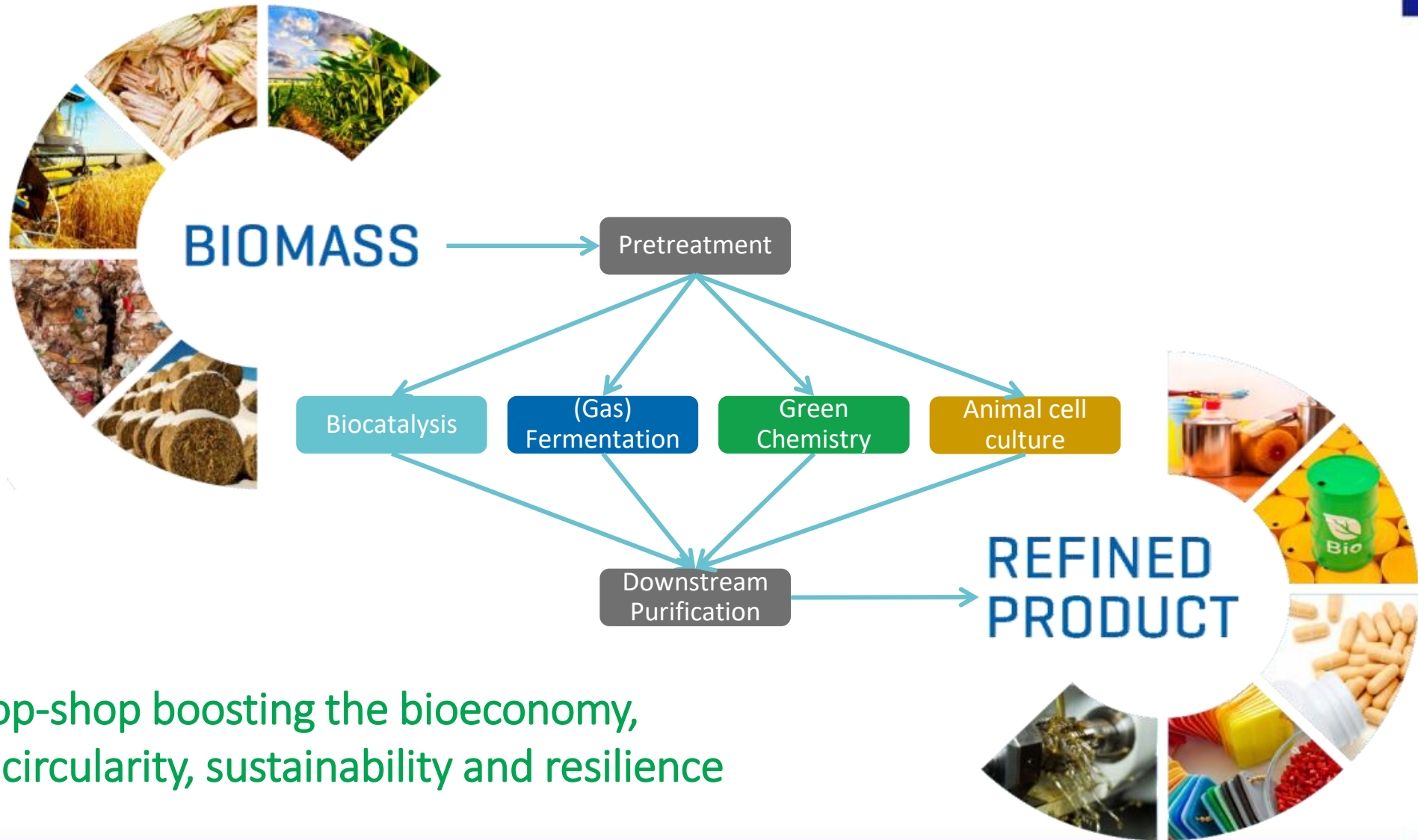


Why BBEPP?



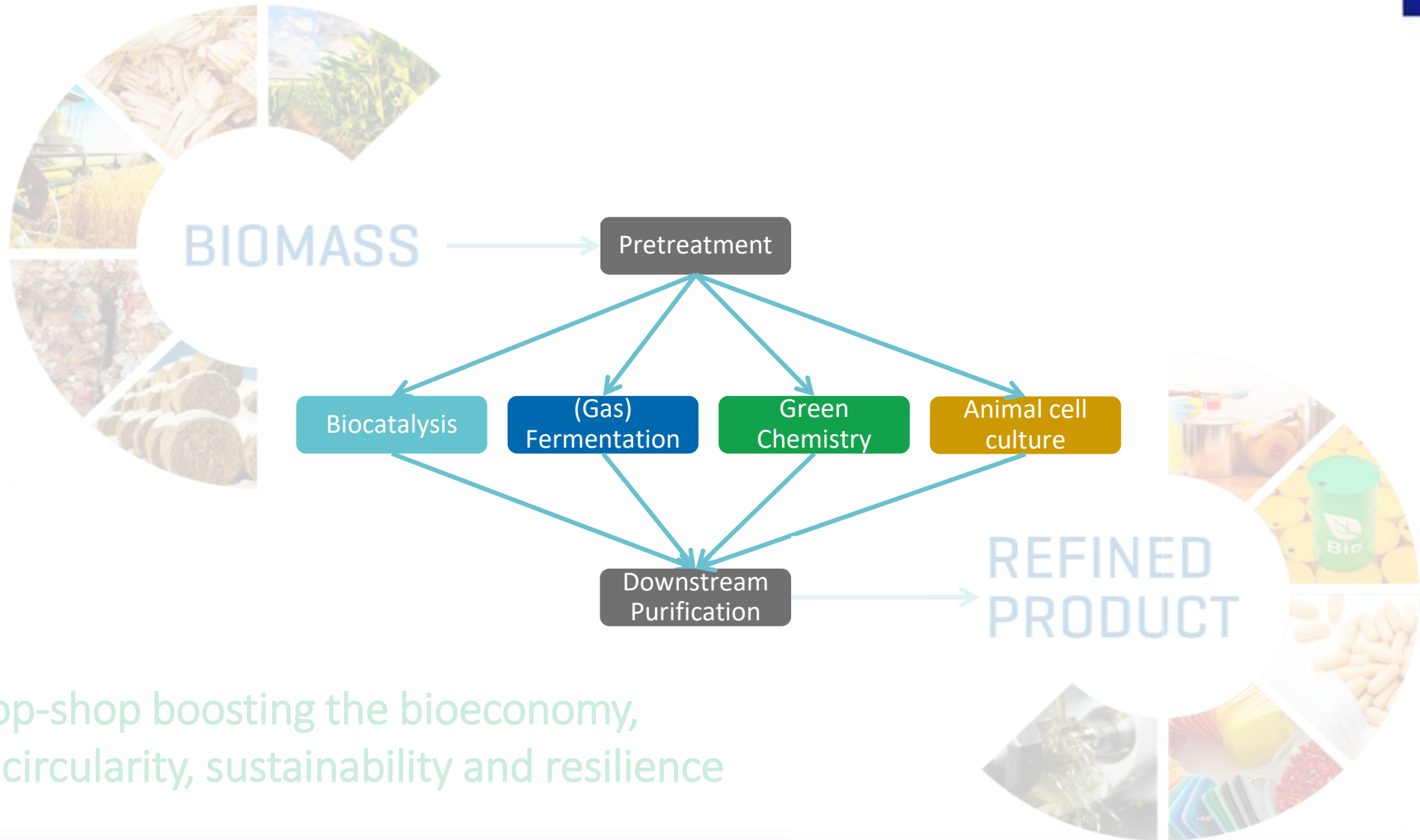
A one-stop-shop boosting the bioeconomy,
Enabling circularity, sustainability and resilience

Why BBEPP?



A one-stop-shop boosting the bioeconomy,
Enabling circularity, sustainability and resilience

Why BBEPP?



A one-stop-shop boosting the bioeconomy,
Enabling circularity, sustainability and resilience



RELAX!

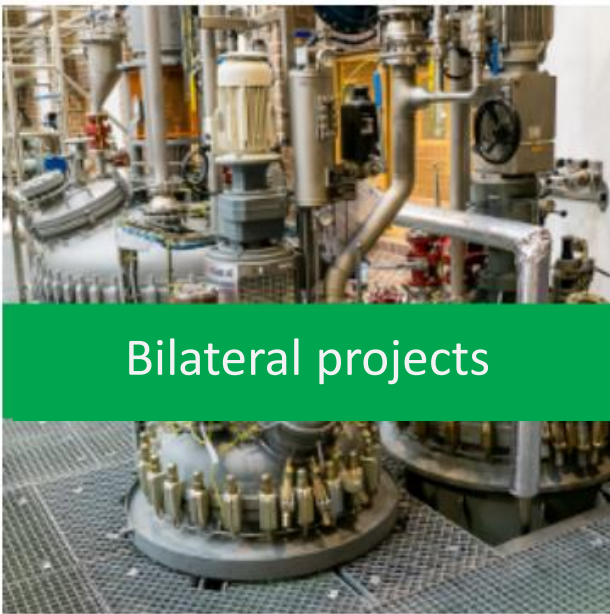
We have all the equipment you need



Circular bioeconomy conference: enabling sustainability and resilience – 15th of February 2023



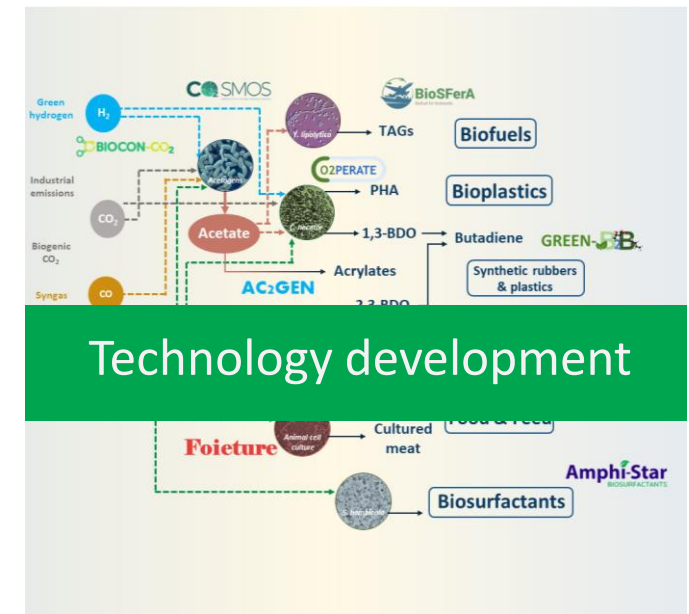
What do we do?



Bilateral projects



Consortium-based projects



Technology development

- Gas fermentation
- Alternative proteins & cultured meat
- Biosurfactants

What do we do?



Plastics-related projects in the area of circular economy



Funded by:



Horizon 2020
European Union Funding
for Research & Innovation

Bio-based Industries
Consortium



FLANDERS
INNOVATION &
ENTREPRENEURSHIP CATALISTI
Clusters for Growth

More info: www.bbeu.org



Waste
stream

Polymer
building
blocks

 BIOCON-CO₂

 NowPack
New BioBased Film for Packaging

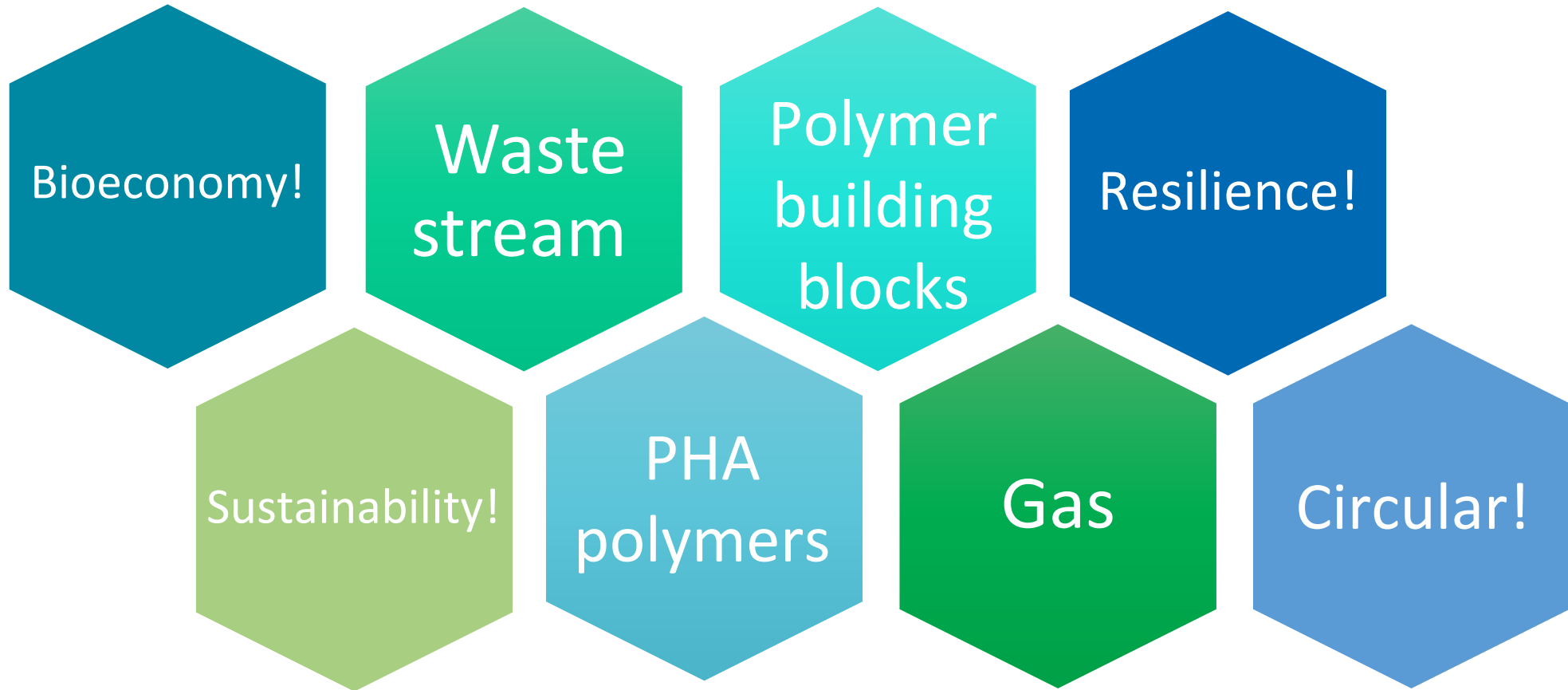
USABLE PACKAGING



PHA
polymers

Gas

 O2PERATE





Bio Base Europe
Pilot Plant

REPURPOSE



Questions about the REPurpose project or the BBEPP facilities and projects?

Reach out!

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www.repurposeproject.eu
www.bbeu.org