



Bio Base Europe
Pilot Plant

REPURPOSE

Rubbery plastics designed for recycling

Transition to Safe and Sustainable Chemicals

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REPURPOSE



Bio Base Europe Pilot Plant



“Enable the transition to a sustainable bio-based economy”

Open access pilot plant

Independent non-profit SME

Service provider



Laboratory
[TRL 1]



Industrial Production
[TRL 9]

REPurpose

Repurposing post-consumer waste into recyclable rubbery plastics

- HORIZON-CL4-2021-RESILIENCE-01-11 - Safe- and sustainable-by-design polymeric materials (RIA)
- 6.06 M€ EU contribution
- Coordinated by Bio Base Europe Pilot Plant
- 9 partners and 1 associated partner



REPurpose concept

Recyclable **E**lastomeric **P**lastics safely and **sU**sustainably designed and produced via enzymatic **R**ecycling of **P**ost-**cO**nsumer **w**a**S**te **s**tr**E**ams



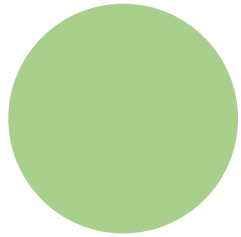
**Plastic
waste**

**Paper &
Cardboard**

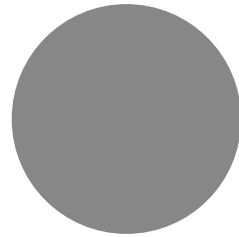
**Local
post-consumer
waste**

Project scope

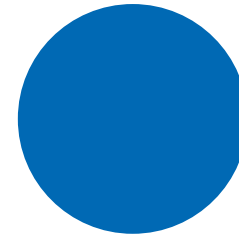
Develop and **validate** the production of a platform of **safe- and sustainable-by-design**, additive-free **thermoplastic elastomer prototypes** from local **post-consumer waste** with intrinsic biodegradability and recyclability properties



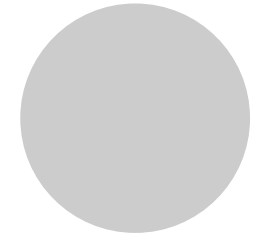
Recyclability,
biodegradability &
safety by Design



Enhance SSBD
processes in the
plastics sector



Demonstrate
sustainable conversion
for elastomeric plastics



Strengthen public
awareness and
support for sustainable
plastics standards

End User Group (EUG)

- Focus on 3 sectors: building & construction, automotive & 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



YOU?

Advisory Board (AB)

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



Challenges in SSBD



Interdisciplinary research



Public awareness & education



Chemistry vs Biotechnology



How to incentivize industry?

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