

Improving the circularity of complex plastic multi-material composites using novel biobased materials in B2B semi-finished products

NEED TO REPLACE PLASTIC MULTI-MATERIAL COMPOSITES WITH BIOBASED PRODUCTS

Benefits of biomaterials



- Renewable carbon-based flow
- Sustainable production system
- Replace petroleum derivatives
- Mass customised manufacturing
- Higher mechanical strength
- Long durability
- Lightness
- Corrosion resistance

Our approach

Away from a linear economy...



Petroleum based materials



Manufacture

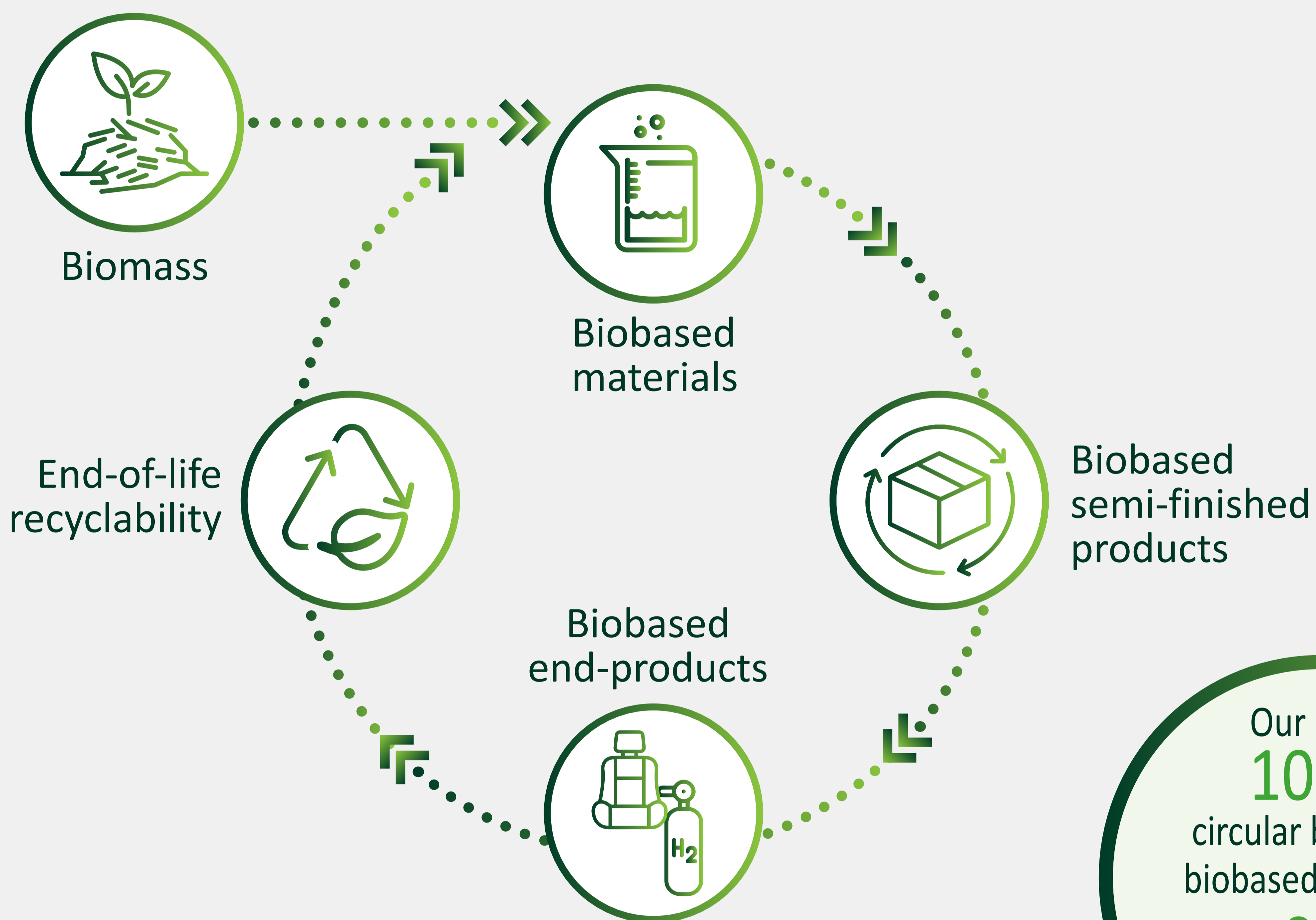


Products



Landfill

...to a circular biobased future...



How



DEVELOP

- 3 100% biobased materials
- 7 B2B intermediate semi-finished products



DEMONSTRATE & VALIDATE

- 2 value chains:
 - Thermoplastic
 - Thermoset
 - 2 end-products:
 - Hydrogen gas storage vessel
 - Automotive seat
- 40% CO₂ reduction



INCREASE SUSTAINABILITY

- Green & Digital transformation
 - Circularity & de-manufacturing
 - Safe & Sustainable by Design
 - Life Cycle Sustainability Assessment
 - Digitalization



MARKET EMPOWERMENT

- Novel production system
- New business models
- Training sessions
- Communication activities

13 Consortium Partners from 8 European Countries



INDUSTRIAL PARTNERS



RESEARCH & TECHNOLOGY ORGANIZATIONS



ACADEMIC ORGANIZATION



INNOVATION MANAGEMENT CONSULTANT

