

**RITTEC:
Empowering Circularity**



DECOTEX

Herausforderungen im Back-to-Monomer Recycling: Separierung von Farben, Ausrüstungen und sonstigen Kontaminationen



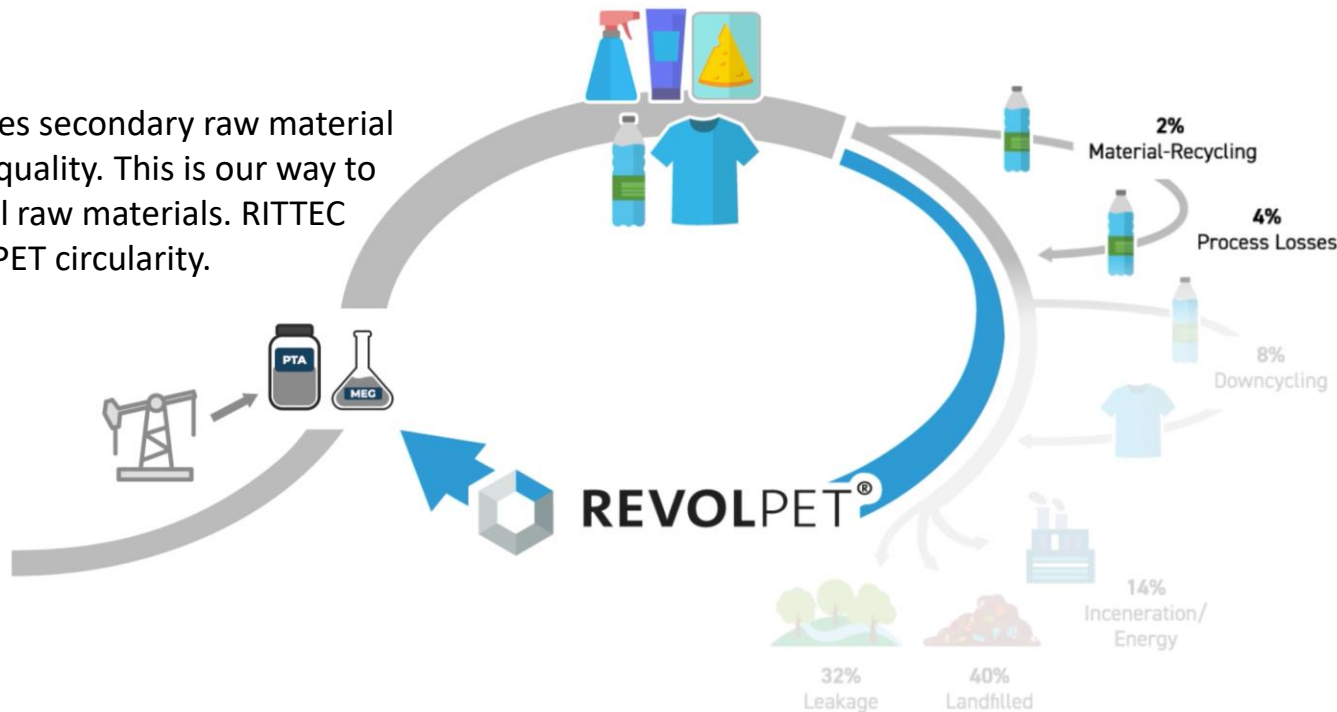
RITTEC – Empowering PET Circularity

Bringing up to 90% of lost PET to circularity



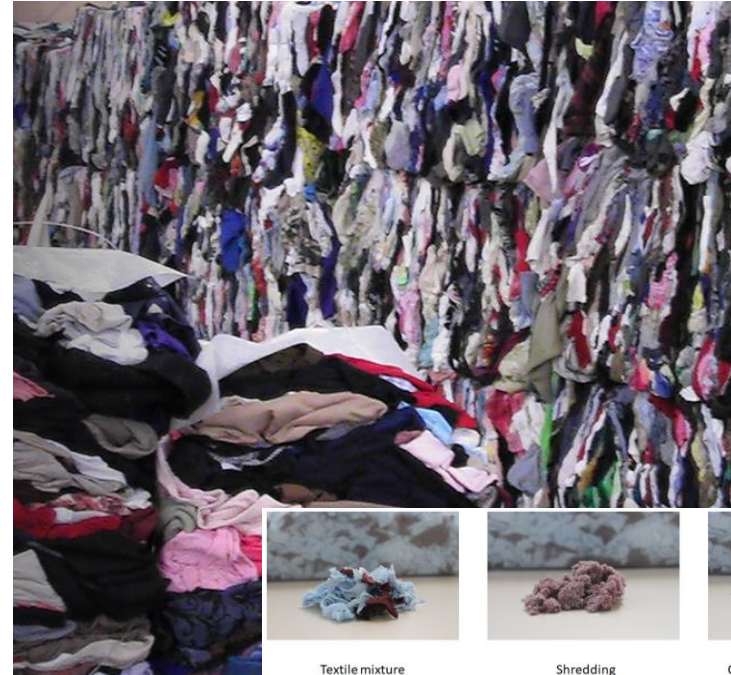
Our vision:

Waste becomes secondary raw material with primary quality. This is our way to preserve fossil raw materials. RITTEC empowering PET circularity.



revolPET® process: simplicity convinces

Continuous and scalable – ecological and economical



Textile mixture
ca. 80 % Polyester
ca. 20 % Cotton



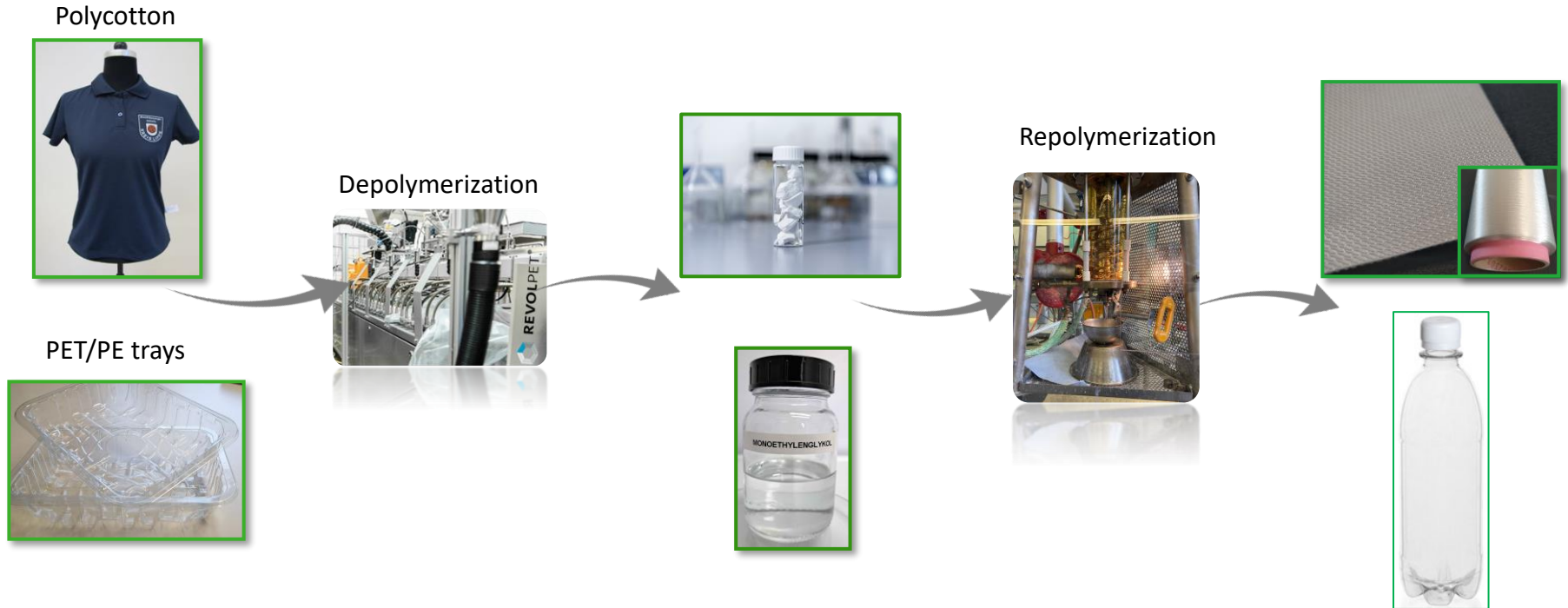
Shredding
bulk density 40 g/L



Compaction in pellet press
bulk density 400 g/L

revolPET® - high product quality

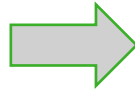
first products from PET out of revolPET® monomers



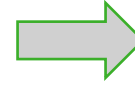
revolPET® process: purification

Ensuring consistently high monomer purity

depolymerised black polyester



crude product solution

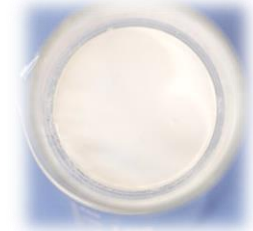
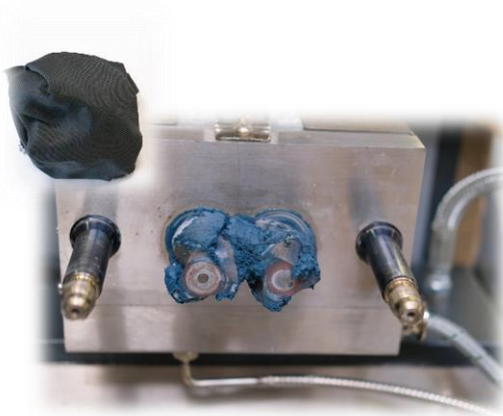


precipitation of rTA

no purification



purification



Entfärbung textilbasierter PET-Monomere

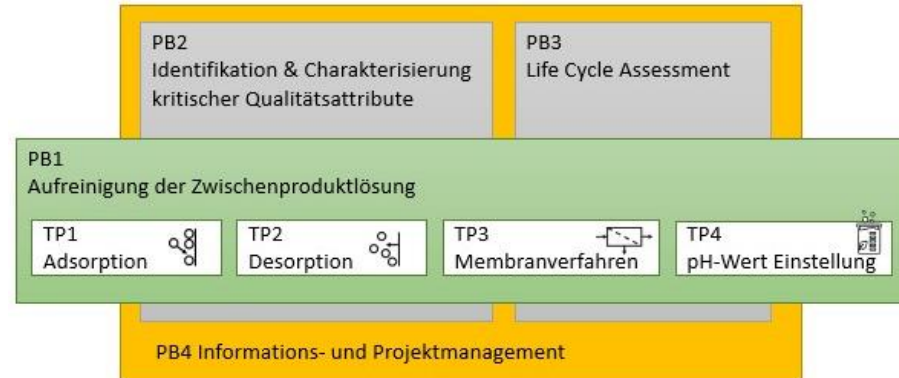
KMU-innovativ: Themenschwerpunkt Ressourceneffizienz



Entfärbung textilbasierter PET-Monomere

KMU-innovativ: Themenschwerpunkt Ressourceneffizienz

- Entwicklung der notwendigen Verfahrensschritte zur kontinuierlichen Abtrennung von Verunreinigungen aus textilen Materialströmen
- Ermittlung kritischer Prozessparameter & Erstellung eines Konzepts zur Sicherung der Produktqualität
- Weiterentwicklung des LCA-Modells der revolPET®-Technologie um die Verarbeitung von Textilabfällen ökologisch zu bewerten



Be part of our story

Credible awards confirm public awareness



Find out more

www.rittec.eu



Charlotte Lücking

luecking@rittec.eu

RITTEC 8.0 Umwelttechnik GmbH
Friedrich-Seele-Str. 12, 38122 Braunschweig

