

Jürgen Priesters 25.03.2021

ADVANCED MECHANICAL RECYCLING





<u>Only 2%</u> of the planet's annual plastic packaging production is reused for the same/similar products



Closed Loop | TODAY





Observation: Mechanical high purity recycling = mainly PET – *by different mindset*



PET Recycling



PO & PS Recycling

Target

- Serve low end markets
- grey and odour/accepted

Recycling | TODAY



Design for Recycling



TOMRA





Recycling starts with collecting and sorting



Sorting materials into different categories







A success story



Outstanding sortability of styrenic polymers established





High purity PS recyclate produced from packaging waste







Technical **food contact** suitability demonstrated







Benefit of mechanical recycling





Circular Economy – Innovating through collaboration



Demo plant for advanced mechanical recycling

Purpose: generating material for brand owners and converters to qualify, validate and prove fit for use in their applications

TOMRA & Borealis in collaboration with Zimmermann

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Thank you for your attention!

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