### SCHWARZ PRODUKTION



#### PET MARKET DYNAMICS AND DEVELOPMENTS FROM THE PERSPECTIVE OF A PRODUCER AND RETAILER

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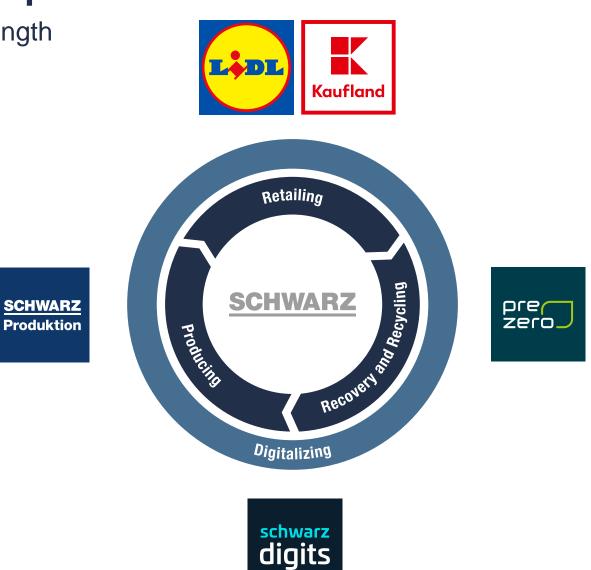
February 7-8, 2024



## SCHWARZ GROUP & SCHWARZ PRODUKTION

### **Schwarz Group**

Diversity is our strength





## **Schwarz Produktion**

The supplier for unique moments of consumption











## **Schwarz Produktion**

#### Our material cycle

- Schwarz Group is implementing the entire value chain for "bottle-to-bottle" recycling under a single roof (retail, collecting, sorting and producing).
- German DRS enables us to maximise the collection volume of food-grade PET material.
- Modern sorting and recycling technologies in place for clean material streams and highquality recycling material.
- Annually more than 2 billion single-use PET bottles with 100% recycled content (since 2019).











## THE CURRENT SITUATION BASED ON THE EXAMPLE OF GERMANY

## LEGISLATIVE FRAMEWORK

#### Situation

Current status (Dec 2023): legislation not yet passed!

Legislative activities with a shared goal: to increase the proportion of recycled materials used in packaging.

SUP:

Proportion of rPET in single-use beverage bottles to reach
30% by 2030 and 40% by 2040

PPWR:

- Minimum content values for post-consumer recyclates for plastic content in **all**(!) packaging
- rPET content for the manufacture of single-use beverage bottles to reach 30% by 2030 and 65% by 2040
- Status as of December 2023 subject to a potential agreement during the trialogue

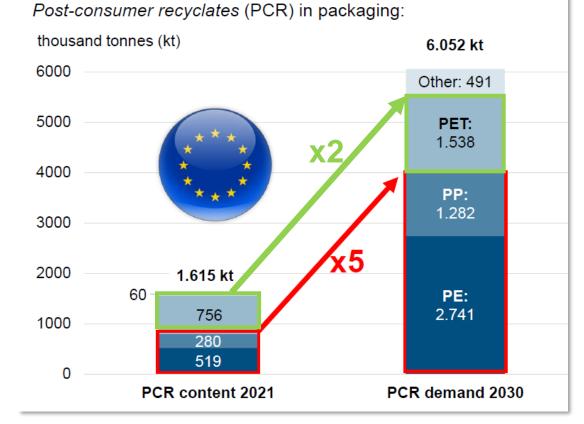


Conclusion: Quotas will have a significant impact on the recyclate market.

## LEGISLATIVE FRAMEWORK

#### Consequences

- Over the coming years, there will be a significant demand from packaging manufacturers for rPET from the bottle cycle.
- The demand for rPET is expected to increase considerably, whilst rPET supply will only increase slightly.
- In order to fulfil quotas:
  - the use of recycled polyolefins (PE, PP) will need to increase five-fold; and
  - the use of rPET will need to **double**.



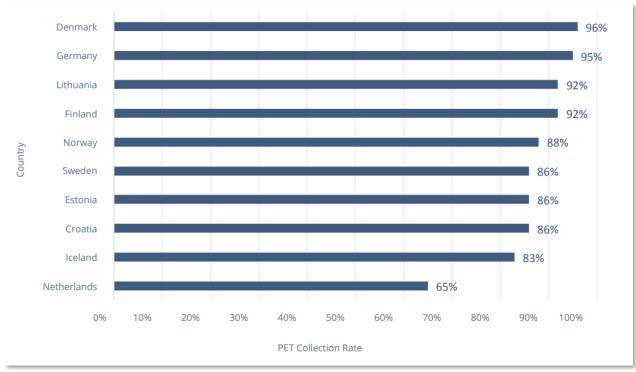
Source: IK Industrievereinigung Kunststoffe e. V. (German Association for Plastics Packaging and Films)

## SITUATION IN GERMANY

#### High collection and recycling rates

- The single-use deposit return scheme in Germany ensures high collection rates.
- 98% of all bottles are returned (the collection rate for PET bottles in the EU is around 60%).
- 97% recycling rate for all PET beverage bottles with a deposit in 2021.
- However: In 2021, the proportion of rPET in PET beverage bottles was 44.7% (in 2019 it was 34.4%).
- EU market: average of 17% recycled PET (2020)\*.
- What happens to the rest of the rPET?

#### Collection rates in countries with deposit return

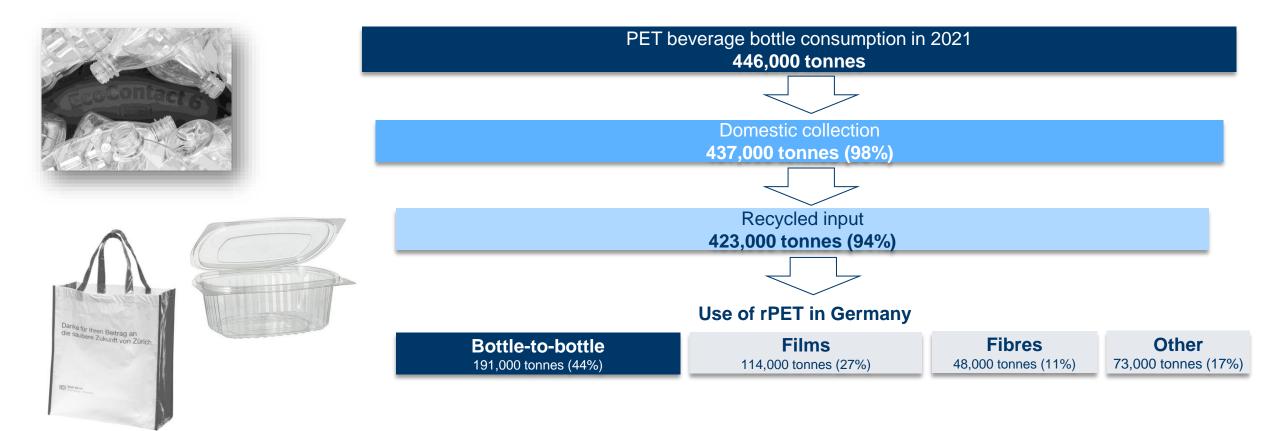


<sup>\*\*</sup>Eunomia PET Market in Europe: State of Play 2022

\*Eunomia PET Market in Europe: State of Play 2022

## SITUATION IN GERMANY

#### Downcycling



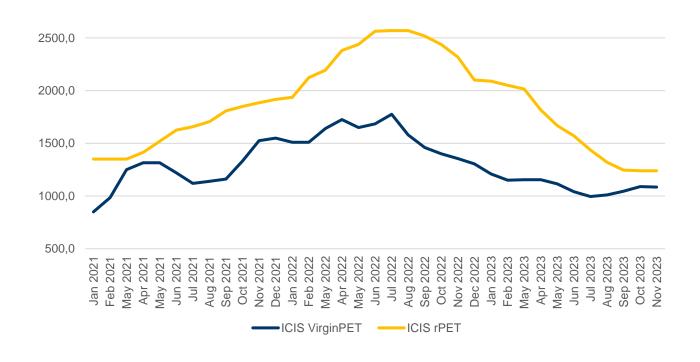
Source: GVM 2022, *PET-Getränkeflaschen* – Verbrauch und Verwertung in Deutschland (PET Beverage Bottles – Use and Recovery) 2021

## SITUATION IN GERMANY

#### A dynamic environment – raw materials

#### **PET/rPET** market development

- Fluctuating prices but rPET consistently more expensive than virgin PET
- No price signal for the use of rPET
- Problem of supply
- Proportion of rPET in beverage bottles is only increasing at a slow rate



Price Development PET vs R-PET Food Grade 2021-2023

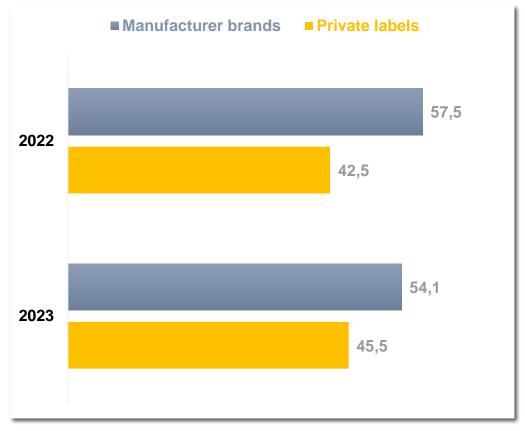
• Inflation in the consumer sector

SITUATION IN THE MARKET

A dynamic environment – retail and consumers

- The demand for **low-price products** is increasing
- The demand for **low-price packaging** is increasing
- Single-use PET packaging for beverages is vital to the discount-price segment
- Single-use PET is an ecological alternative

#### The proportion of own brands is growing



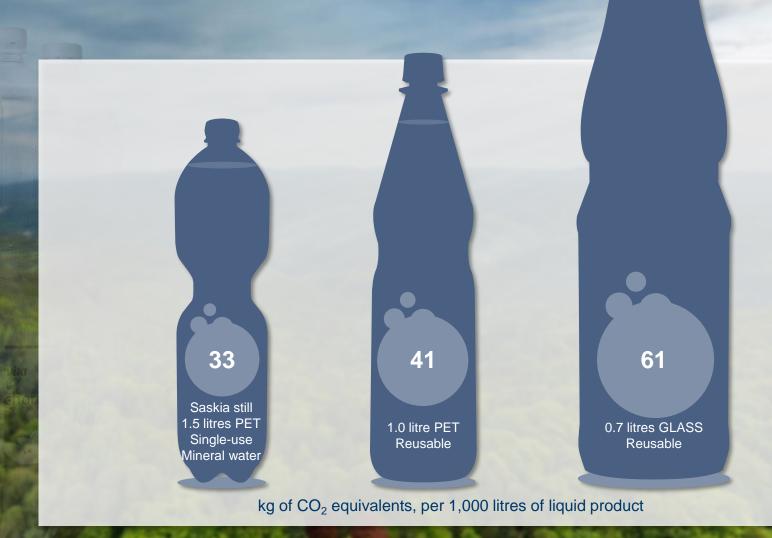
Source: Gfk Consumer Panel 7/2023 (Food and Near Food)

## ECOLOGICAL ALTERNATIVE

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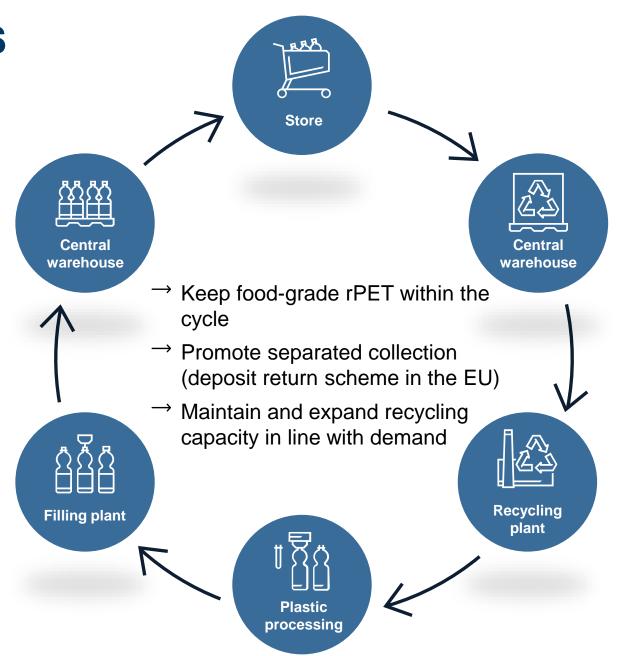
Life cycle assessment of beverage packaging (lfeu, Heidelberg, 2023)





# CONCLUSION: CIRCULARITY IS THE SOLUTION

- In order to be able to meet rPET demand, a minimum of 70% of the available rPET must remain within the bottle cycle (GVM).
- Despite the potential preference for reusable bottles over single-use bottles created by the PPWR,
- closed cycles remain a good option for manufacturing ecologically sustainable beverage packaging;
- this Strategy has been successful for many years
- this enables a high proportion of rPET and ecological bottle design.



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