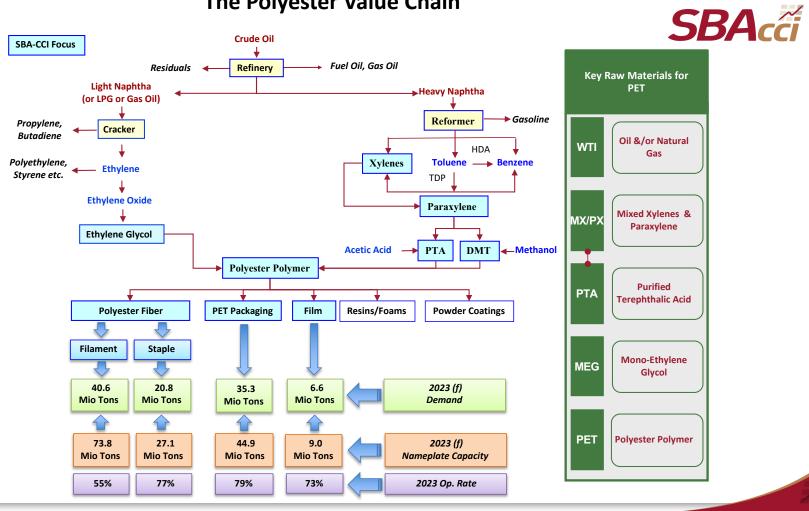


## The Petcore Europe Conference 2023

February 2<sup>rd</sup>, 2023 - Brussels (Belgium)

#### The Polyester Value Chain



#### **Beverages Demand**

- Worldwide and EU perspective.
- Key focus on Carbonates and Packaged water categories.

#### PET Bottle Grade - Supply and Demand

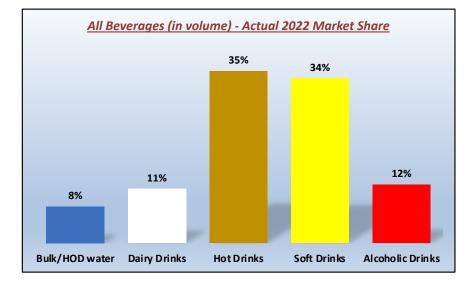
- Worldwide and EU PET Packaging Resin situation.
- Future of the EU PET industry.

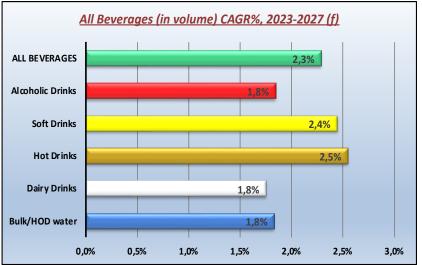
#### rPET status in Europe

- EU Packaging Waste regulations and key issues.
- Myths and realities.

#### Worldwide Industry Snapshot

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#### **Global Soft Drinks Outlook by Region (volume in liter)**

| REGION                        | % Soft Drinks vs<br>All Beverages<br>(2022) | 2000-2022<br>Growth (%) | 2022-2023 (f)<br>Growth (%) |
|-------------------------------|---|-------------------------|-----------------------------|
| Africa                        | 27%   | 7.2%                    | 3.4%                        |
| Asia                          | 25%   | 7.1%                    | 5.4%                        |
| Australasia                   | 27%   | 2.7%                    | 2.3%                        |
| East Europe                   | 28%   | 3.8%                    | 2.2%                        |
| Latin America                 | 37%   | 2.6%                    | 2,1%                        |
| Middle East & North<br>Africa | 30%   | 7.5%                    | 3.6%                        |
| North America                 | 60%   | 1.6%                    | 1.7%                        |
| West Europe                   | 41%   | 0.9%                    | 0.5%                        |
| WORLDWIDE                     | 34%   | 3.6%                    | 3.1%                        |

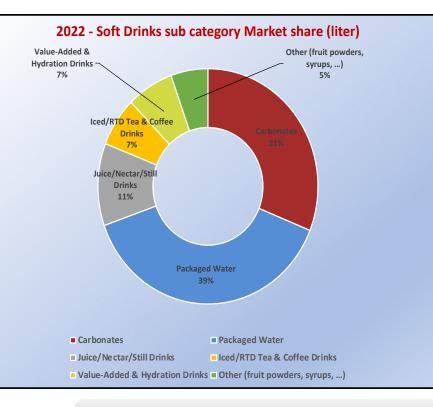
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#### Soft Drinks Category incl :

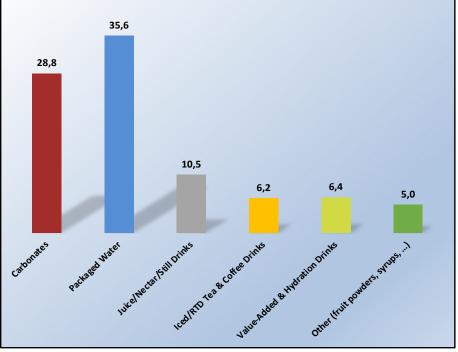
- Carbonates
- Packaged water
- Juice & Nectars
- Still drinks
- Iced RTD Tea Drinks
- Iced RTD Coffee Drinks
- Value-added and hydration drinks ...

#### Year 2022 Global Soft Drinks by sub-category









#### Packaged Water and Carbonates categories are accounting for almost 70% of the SD category.



#### **Global Packaged water Outlook by Region**



| REGION                        | Liter per<br>Capita (2022) | <mark>2000-2022</mark><br>Growth (%) | 2022-2023 (f)<br>Growth (%) |
|-------------------------------|----------------------------|--------------------------------------|-----------------------------|
| Africa                        | 9                          | 12.9%                                | 3.5%                        |
| Asia                          | 24                         | 11.2%                                | 5.5%                        |
| Australasia                   | 41                         | 5.8%                                 | 2.5%                        |
| East Europe                   | 71                         | 5.2%                                 | 2.4%                        |
| Latin America                 | 26                         | 3.9%                                 | 1.2%                        |
| Middle East & North<br>Africa | 47                         | 9.5%                                 | 4.1%                        |
| North America                 | 102                        | 7.5%                                 | 3.2%                        |
| West Europe                   | 112                        | 1.5%                                 | -0.5%                       |
| WORLDWIDE                     | 35.6                       | 6.2%                                 | 3.3%                        |

Consumers's demand for healthy refreshment will continue to drive volume and value sales but high inflation will create headwinds for the category.

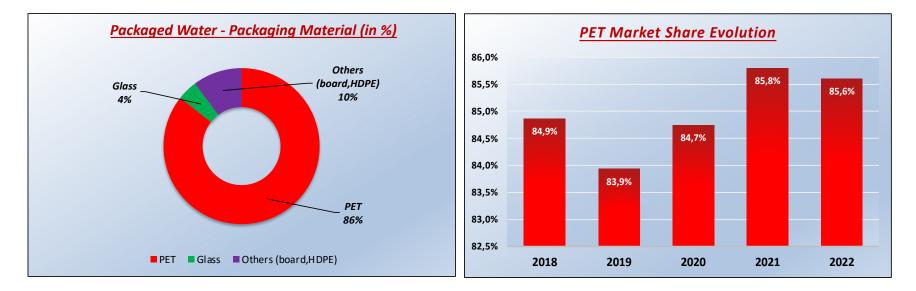
#### Packaged Water Performance – Top 10 Economies + EU



| Countries |                        | Liter per Capita<br>(2022) | 2021-2022 Growth % |            | 2022-2023 (f) Growth % |            |
|-----------|------------------------|----------------------------|--------------------|------------|------------------------|------------|
|           |                        |                            | Volume (liter)     | Value (\$) | Volume (liter)         | Value (\$) |
| Un        | ited States of America | 146                        | 3.9%               | 9.7%       | 3.2%                   | 3.7%       |
| *         | China                  | 36                         | 1.9%               | 3.1%       | 3.1%                   | 4.0%       |
|           | Japan                  | 32                         | 9.4%               | 13.4%      | 3.6%                   | 9.8%       |
|           | Germany                | 144                        | -1.8%              | 6.0%       | -1.0%                  | 6.3%       |
| 102.5     | India                  | 12                         | 10.2%              | 15.2%      | 13.5%                  | 12.5%      |
|           | United Kingdom         | 36                         | 3.1%               | 14.0%      | 1.7%                   | 8.7%       |
|           | France                 | 134                        | 4.1%               | 7.3%       | 1.0%                   | 3.8%       |
|           | Italy                  | 184                        | 2.2%               | 5.7%       | -2.6%                  | 2.4%       |
|           | Brazil                 | 17                         | 11.5%              | 28.8%      | 3.4%                   | 13.3%      |
|           | Canada                 | 71                         | 7.5%               | 15.4%      | 3.7%                   | 9.3%       |
|           | European Members       | 115                        | 2.0%               | 8.6%       | -0.1%                  | 4.5%       |

#### Worldwide Packaging Material Snapshot - Packaged Water





#### • PET dominates the soft drinks packaging materials market, cornering 86% volume share in 2022.

• Despite the growing consumers and legislator push against plastic packaging, PET remains the most economic and pragmatic option for brand owners due to its low cost, and lightweight.



#### **Global Carbonates Outlook by Region**



| REGION                        | Liter per<br>Capita (2022) | <mark>2000-2022</mark><br>Growth (%) | 2022-2023 (f)<br>Growth (%) |
|-------------------------------|----------------------------|--------------------------------------|-----------------------------|
| Africa                        | 10                         | 6.1%                                 | 3.7%                        |
| Asia                          | 12                         | 5.3%                                 | 5.8%                        |
| Australasia                   | 86                         | 3.1%                                 | 2.4%                        |
| East Europe                   | 58                         | 2.4%                                 | 1.6%                        |
| Latin America                 | 87                         | 1.8%                                 | 2.2%                        |
| Middle East & North<br>Africa | 32                         | 5.7%                                 | 3.5%                        |
| North America                 | 84                         | -1.4%                                | -1.2%                       |
| West Europe                   | 57                         | 0.2%                                 | 1.7%                        |
| WORLDWIDE                     | 28.8                       | 1.7%                                 | 2,5%                        |

Growth will be further stimulated by the recovery in out-of-home consumption and tourism. Inflationary pressures will compel low-income households to opt for affordable refreshments, especially in bulk packs.

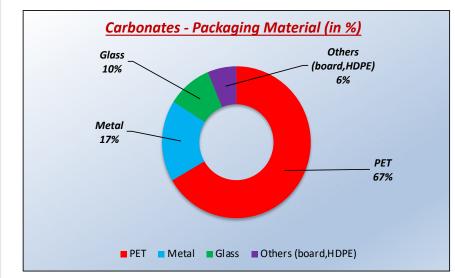
#### **Carbonates Performance – Top 10 Economies + EU**

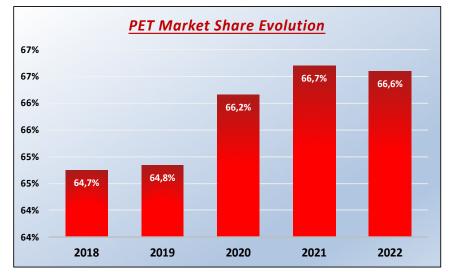


| Countries |                        | Liter per Capita<br>(2022) | 2021-2022 Growth % |            | 2022-2023 (f) Growth % |            |
|-----------|------------------------|----------------------------|--------------------|------------|------------------------|------------|
|           |                        |                            | Volume (liter)     | Value (\$) | Volume (liter)         | Value (\$) |
| Un        | ited States of America | 120                        | 0.8%               | 5.6%       | -1.3%                  | 2.2%       |
| **        | China                  | 13                         | 2.8%               | 4.6%       | 4.7%                   | 6.0%       |
|           | Japan                  | 25                         | 2.2%               | 6.7%       | 2.1%                   | 8.9%       |
|           | Germany                | 89                         | -0.6%              | 5.5%       | -0.4%                  | 10.8%      |
| 102C      | India                  | 5                          | 27.3%              | 44.4%      | 13.0%                  | 14.2%      |
|           | United Kingdom         | 39                         | 4.7%               | 23.2%      | 2.7%                   | 13.2%      |
|           | France                 | 37                         | 6.0%               | 12.3%      | 3.6%                   | 6.8%       |
|           | Italy                  | 34                         | 10.3%              | 20.8%      | 1.7%                   | 5.9%       |
|           | Brazil                 | 65                         | 7.7%               | 22.8%      | 2.2%                   | 12.0%      |
|           | Canada                 | 64                         | 0.1%               | 8.7%       | 0.3%                   | 6.4%       |
|           | European Members       | 65                         | 4.0%               | +14.0%     | 1.8%                   | 8.8%       |

#### **Worldwide Packaging Material Snapshot - Carbonates**







- PET was the sector's most commonly used packaging material in 2022, with a volume share of 67%. It was followed by metal in a distant second, with a share of 17%.
- Glass packaging is a potential alternative to PET pack as it is recyclable, the heaviness of the material escalates the transportation costs.

### Main Format - Packaged water & Carbonates Top 10 Economies + UK



| Countries |                          | <u> Main format – Year 2022</u> |                |  |
|-----------|--------------------------|---------------------------------|----------------|--|
|           |                          | Carbonates                      | Packaged water |  |
|           | United States of America | 35.5 cl                         | 50 cl          |  |
| **        | China                    | 60 cl                           | 55 cl          |  |
|           | Japan                    | 50 cl                           | 200 cl         |  |
|           | Germany                  | 100 cl                          | 150 cl         |  |
| 1020      | India                    | 60 cl                           | 25 cl          |  |
|           | United Kingdom           | 33 cl                           | 50 cl          |  |
|           | France                   | 33 cl                           | 150 cl         |  |
|           | Italy                    | 150 cl                          | 150 cl         |  |
| Ó         | Brazil                   | 200 cl                          | 50 cl          |  |
|           | Canada                   | 35.5 cl                         | 50 cl          |  |
|           | European Members         | 33.0 cl                         | 150 cl         |  |



### PET Bottle Grade – Supply and Demand

- Worldwide and EU PET Packaging Resin situation.
- Future of the EU PET industry.

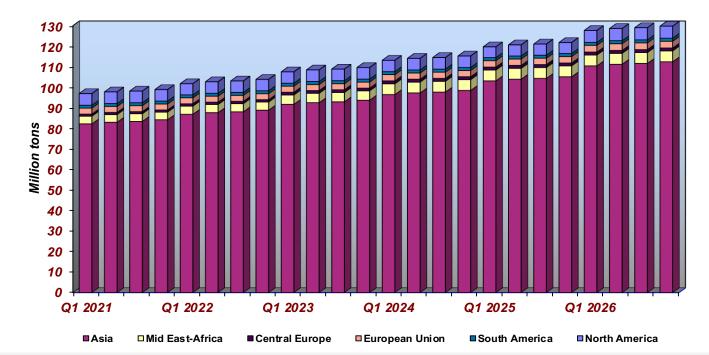




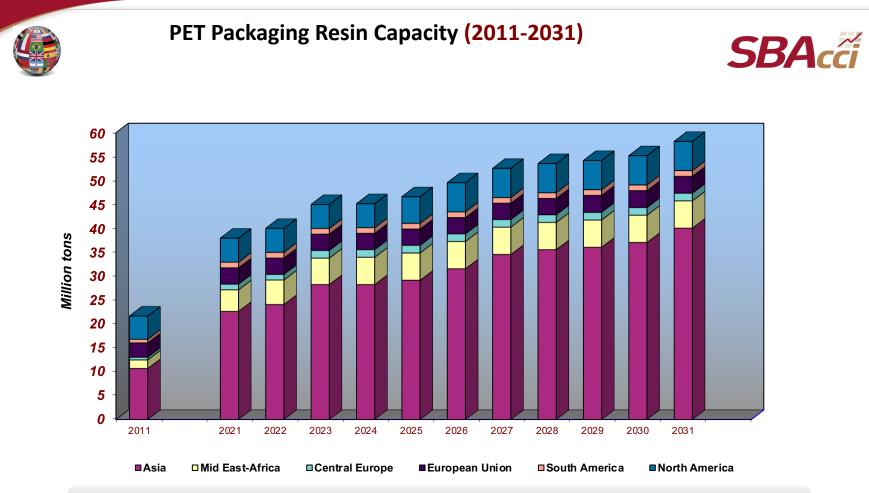


#### Polyester Polymer Capacity (2021-2026)

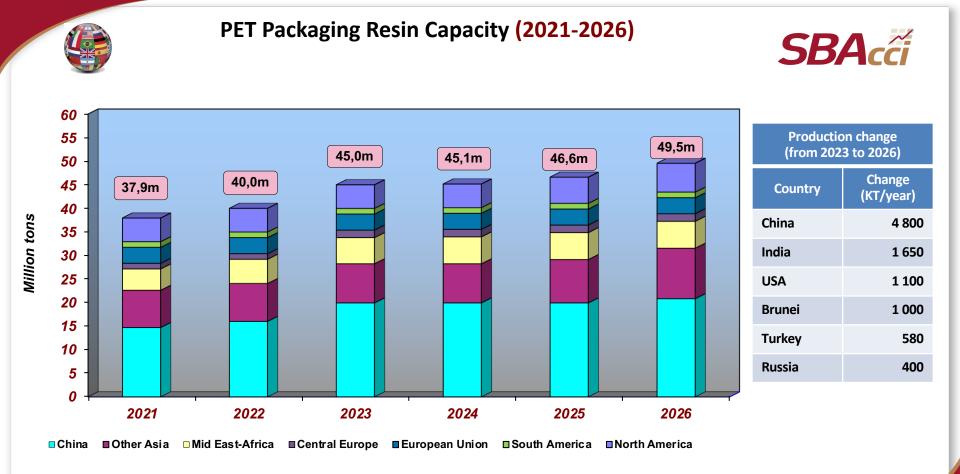




- 88% of the worlds polyester polymer capacity resides in Asia. China represents 69% of this capacity;
- Continued polyester fiber expansions in Asia and global additions PET capacity;
- Tremendous Growth in PTA capacity in Asia (China). 86% of worlds PTA capacity resides in Asia, 62% in China.



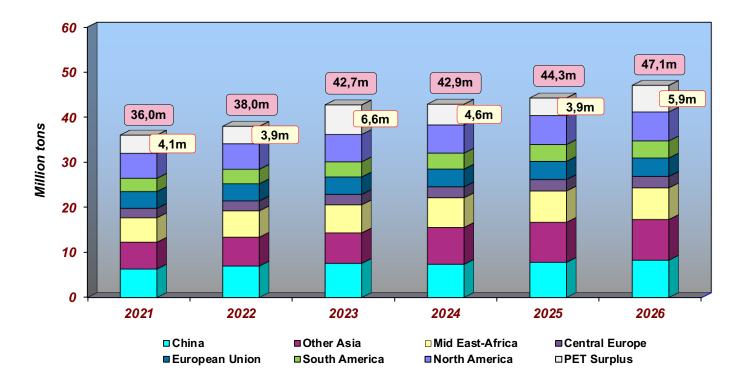
Asia (mainly China) will remain the largest PET producer and will continue to build massive capacity.



Global PET Capacity of 45 M tons, with 28.3 M tons in Asia (63%)



### PET Packaging Resin Demand vs 95% of capacity (2021-2026)

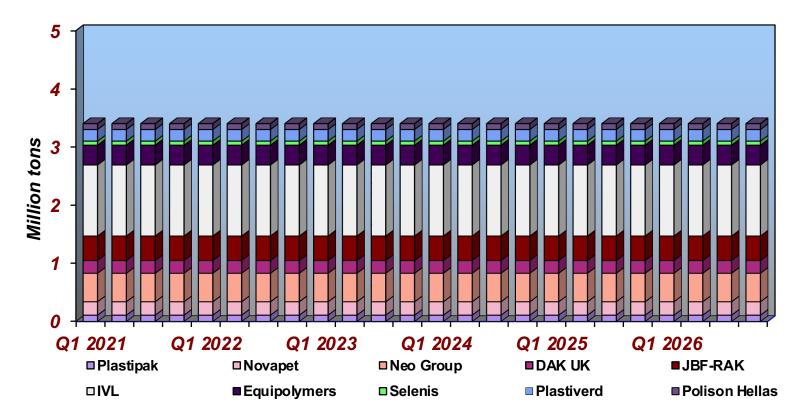


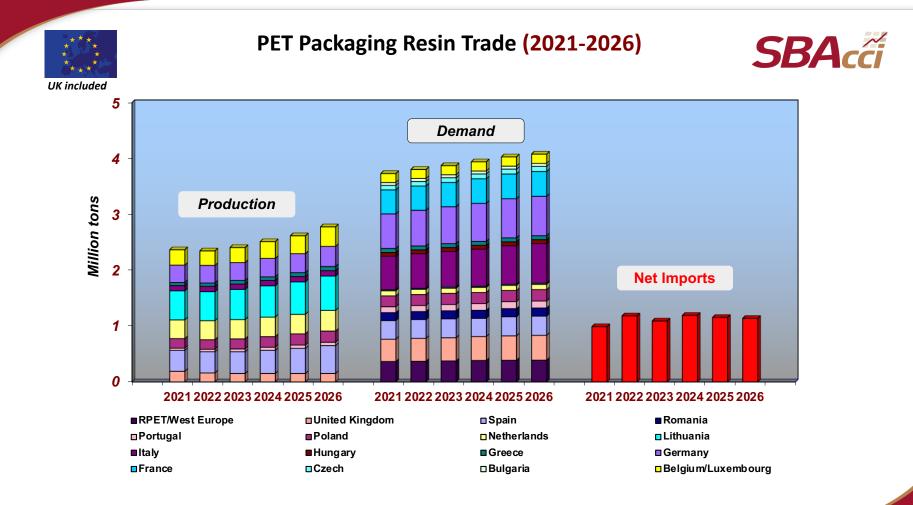
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PET Packaging Resin Capacity (2021-2026)



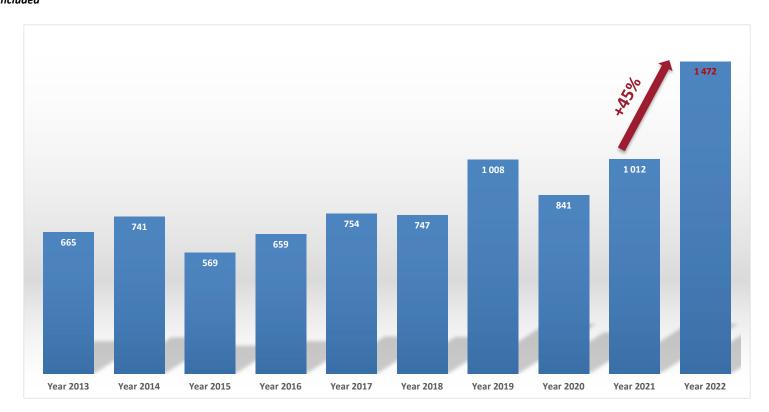


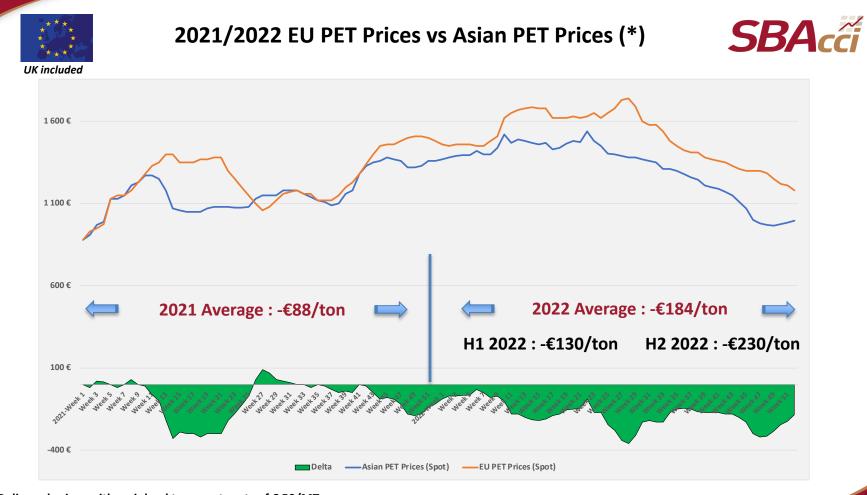




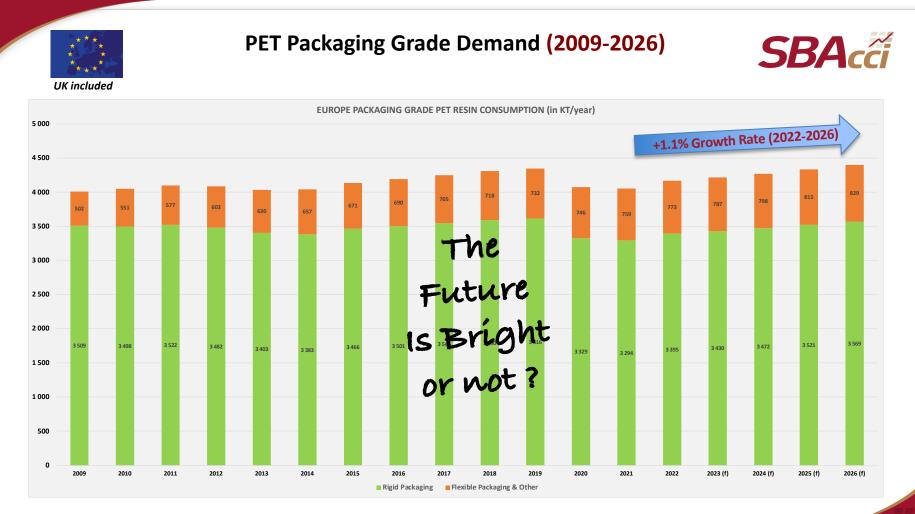
### PET Bottle Grade (2013-2022) 10 Years History of imported material in EU (in KT)

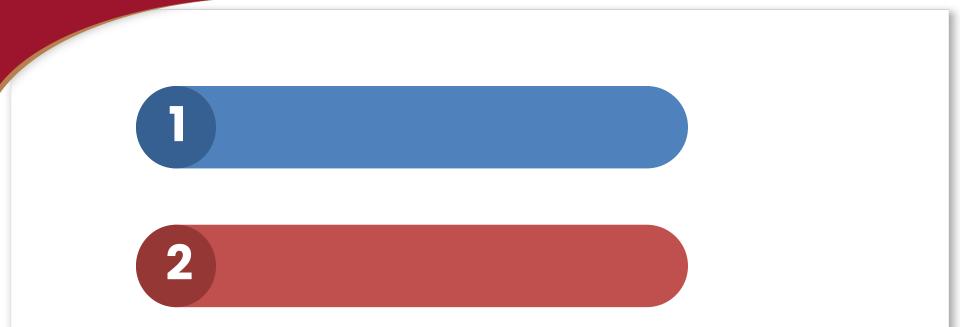






(\*): Delivered prices with an inland transport costs of € 50/MT

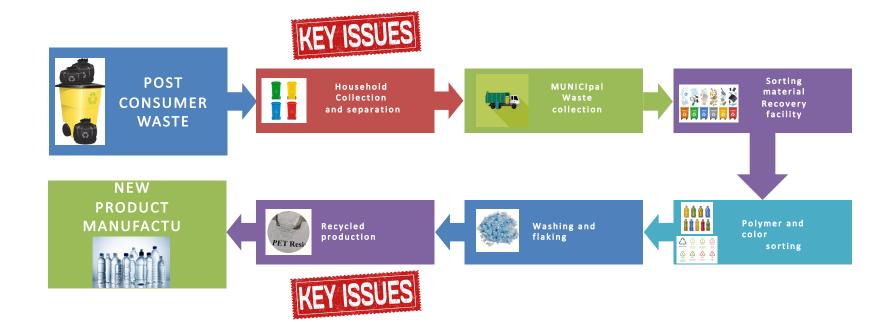




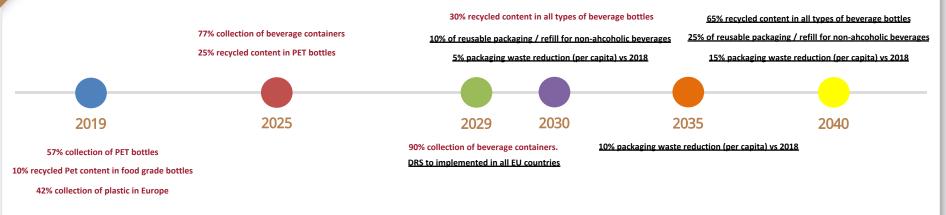
### rPET status in Europe

- EU Packaging Waste regulations and key issues.
- Myths and realities.

**Mechanical PET Recycling Stream Process** 



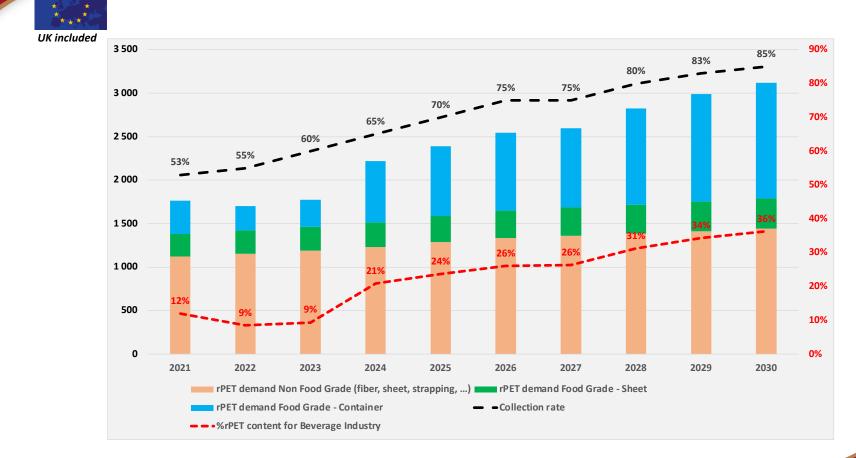
### The EU'S single-use plastics directive +EU Packaging & Packaging Waste Regulation. Major steps for the plastic industry, brand owners .... and consumers.



#### Key points :

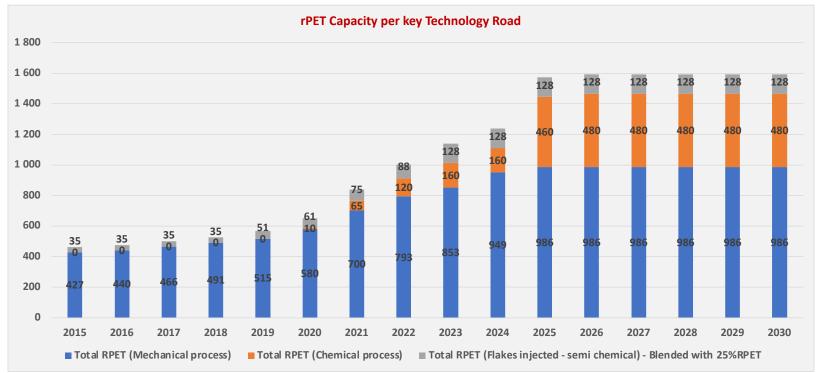
- The EU commission sets ambitious and tremendous recycling / reuse targets.
- To reach the 2029 target EU member states would need to collect at least twice PET beverage bottles.
- Moving to deposit refund schemes will clearly improve collection rate and quality.
- Investments are needed in collection infrastructure as well in the polymers process in order to meet the 90% collection rate target and the 65% recycled content.

#### **Our Industry Impact Model**



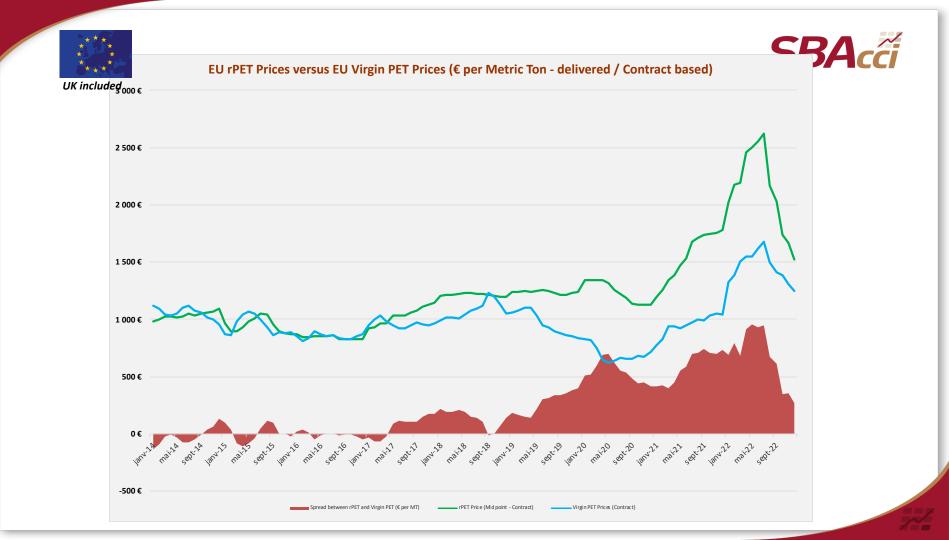
(\*) Assumes 2% total annual demand growth for sheet and non-packaging applications + available feedstock (75% yield).

UK included



*Emergence of rPET chemical technology but ..... these new capacities must be competitive.* 

~







- Beverages growth will slow in 2023 due to high inflation and the impact on the European economy of the Russia-Ukraine conflict. Food and energy prices will be particularly high.
- EU PET producers are having a difficult time competing with imports due to sharply higher energy and raw material prices versus Asia.
- Imports are forecast to play a major role in European supply for 2023 (PET, raws, flakes).
- EU needs to rationalize old and not competitive PET assets.
- Europe is far ahead vs the other regions for rPET usage for packaging but also in technology/expertize.

- EU commission sets ambitious targets but some needs to be reviewed. CHANGE AHEAD
  - Focus is shifting to sustainability as major companies commit to use recycled materials and/or a more eco-friendly packaging.
  - New PET investments are needed. EU market is short of supply either for rPET and virgin PET. •
  - DRS will further improve PET collection rates and quality. ٠
  - Improve the capture of PET waste, reduce contamination, improve PET yield .... in order to align rPET ٠ supply with the demand.



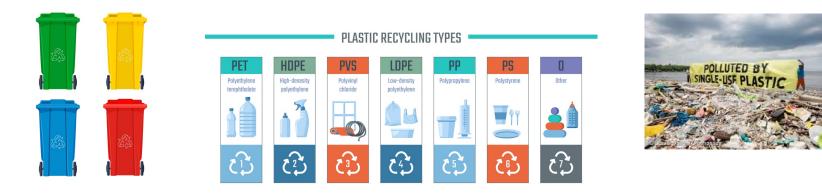
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# "We don't have a PET Packaging problem ...

# We have waste issue"





# **Thank You**

## www.SBA-CCI.com

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