



GROWTH OPPORTUNITIES IN ALUMINIUM CANS

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THE MELDING OF PACKAGING, AEROSPACE AND PRIDE



2020
\$9.7B
BEVERAGE
PACKAGING
SALES



2020
\$1.7B
AEROSPACE
SALES



2020
\$0.4B
AEROSOL
PRODUCTS
SALES



2020
\$11.8B
NET
SALES

Founded:
1880

Employees:
21, 500+

Headquarters:
Westminster, CO USA



GLOBAL CUSTOMERS PUT THEIR TRUST AND PRODUCTS IN OURS



ALL 23 BALL BEVERAGE PACKAGING EMEA PLANTS ASI-CERTIFIED

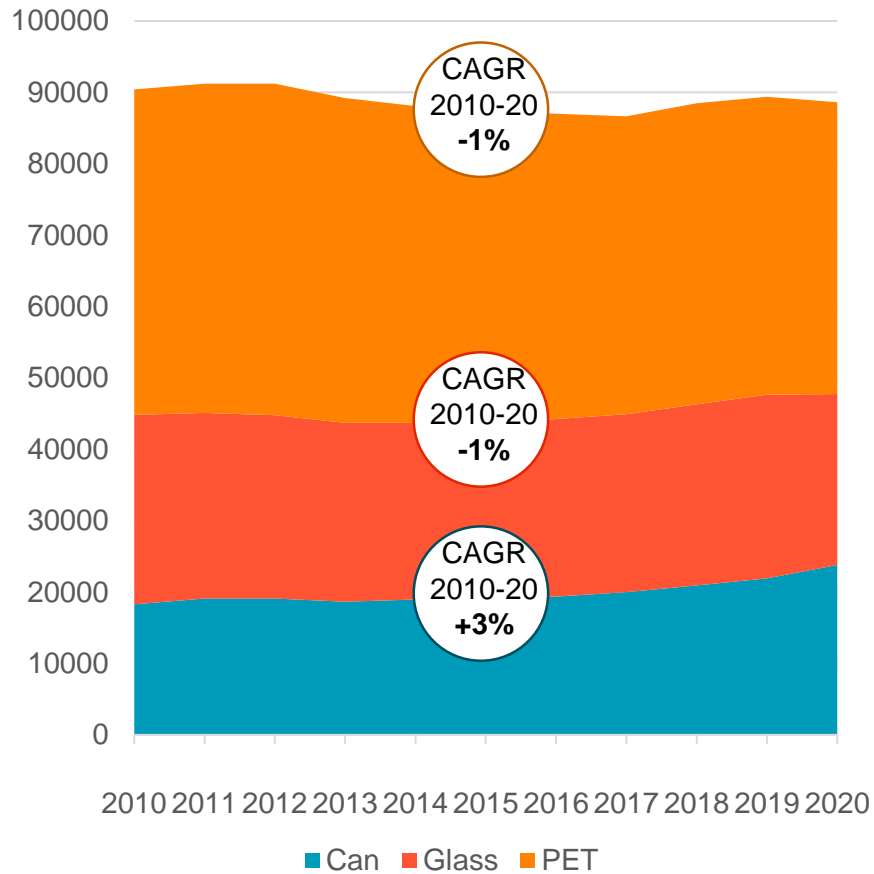




CAN GROWTH & DRIVERS

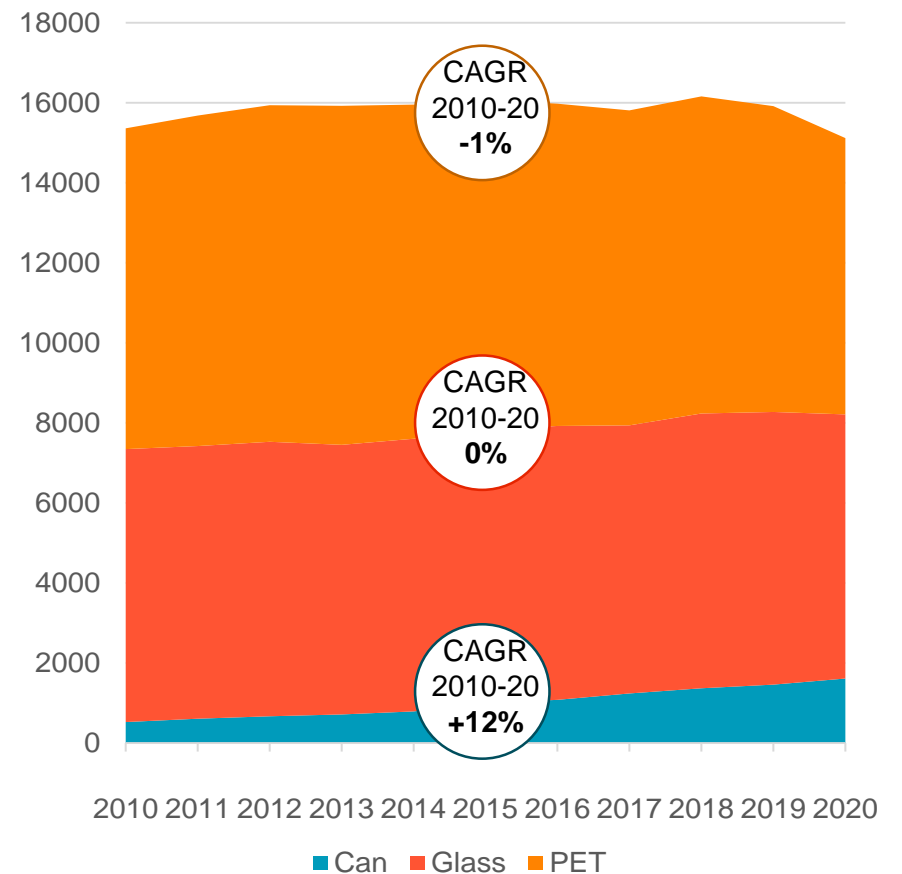
CAN IS THE ONLY SUBSTRATE OF THE DRINKS MARKET GROWING IN THE LAST YEARS

Drinks market by substrate, Europe (hl)



By 2025,
the European can
market will likely
GROW
at a CAGR of
4-6%

Drinks market by substrate, Germany (hl)



*Beer, Carbonated Soft Drinks and Energy Drinks only.
Source: Global Data, 2021

MARKET DRIVING SUSTAINABILITY TREND 1: PLASTIC POLLUTION

Plastic Pollution & Circularity

- **Policy:** EU SUPD, EU CEAP 2.0, US Break Free From Plastic Pollution Act, Extended Producer Responsibility (EPR) and Deposit Return Systems (DRS), EU SPI
- **Brands:** commitments on recycled content, 100% recyclable packaging by design



MARKET DRIVING SUSTAINABILITY TREND 2: CLIMATE CHANGE

Race for decarbonization

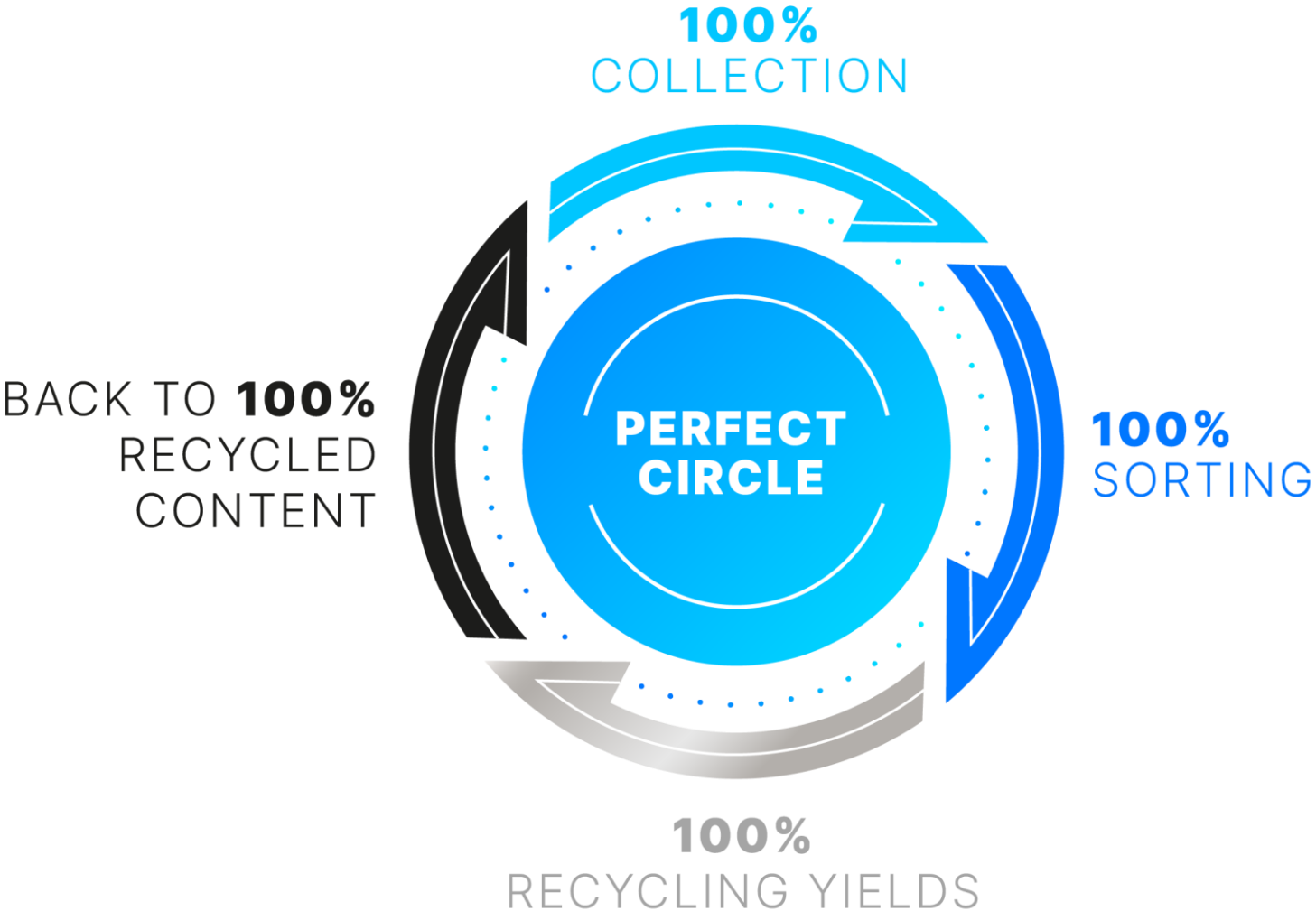
- Pressure for companies to set science-based and **net zero** targets
- EU “Fit for 55” Package
- Primary aluminum “**hard to abate**”
- One way **glass** will struggle to decarbonize
- Need for **climate neutral** and **circular materials**





OUR CIRCULARITY VISION

AIMING FOR THE PERFECT CIRCLE SO THAT MATERIALS CAN BE IN USE IN PERPETUITY



CIRCULARITY VISION 2030

GLOBAL RECYCLING RATE

TODAY **69%*** 2030 **90%***

GLOBAL RECYCLED CONTENT

2030
85%*



DESIGN FOR SORTING

TODAY

- Homogeneous material ✓
- Equally recyclable despite color, size or formats ✓
- Tab attached to the can ✓

RECYCLING YIELDS

TODAY
>95% ✓

* BASED ON THE VALUES IN THE MAIN REGIONS WHERE BALL IS PRESENT: NORTH AMERICA, EMEA, SOUTH AMERICA, SOUTHEAST ASIA



HOW TO ACHIEVE OUR CIRCULARITY VISION

INVITATION FOR INDUSTRY COLLABORATION TO ACHIEVE THE CIRCULARITY VISION AND AN AMBITIOUS CARBON PATHWAY



Build an ambitious global recycling roadmap that delivers a carbon pathway aligned with the industry's net zero and 1.5C° aligned targets.



Align the industry on Extended Producer Responsibility and DRS policy.



Proactively advocate for recycling policies that deliver a $\geq 90\%$ aluminum can global real recycling rate.



Accelerate and scale infrastructure and technologies for aluminum sorting and recovery.

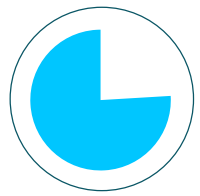


Work together with our supply chain partners to achieve an 85% average global recycled content in the aluminum used to produce beverage cans.



Develop innovative campaigns and activations to educate consumers about aluminum eternal recycling.

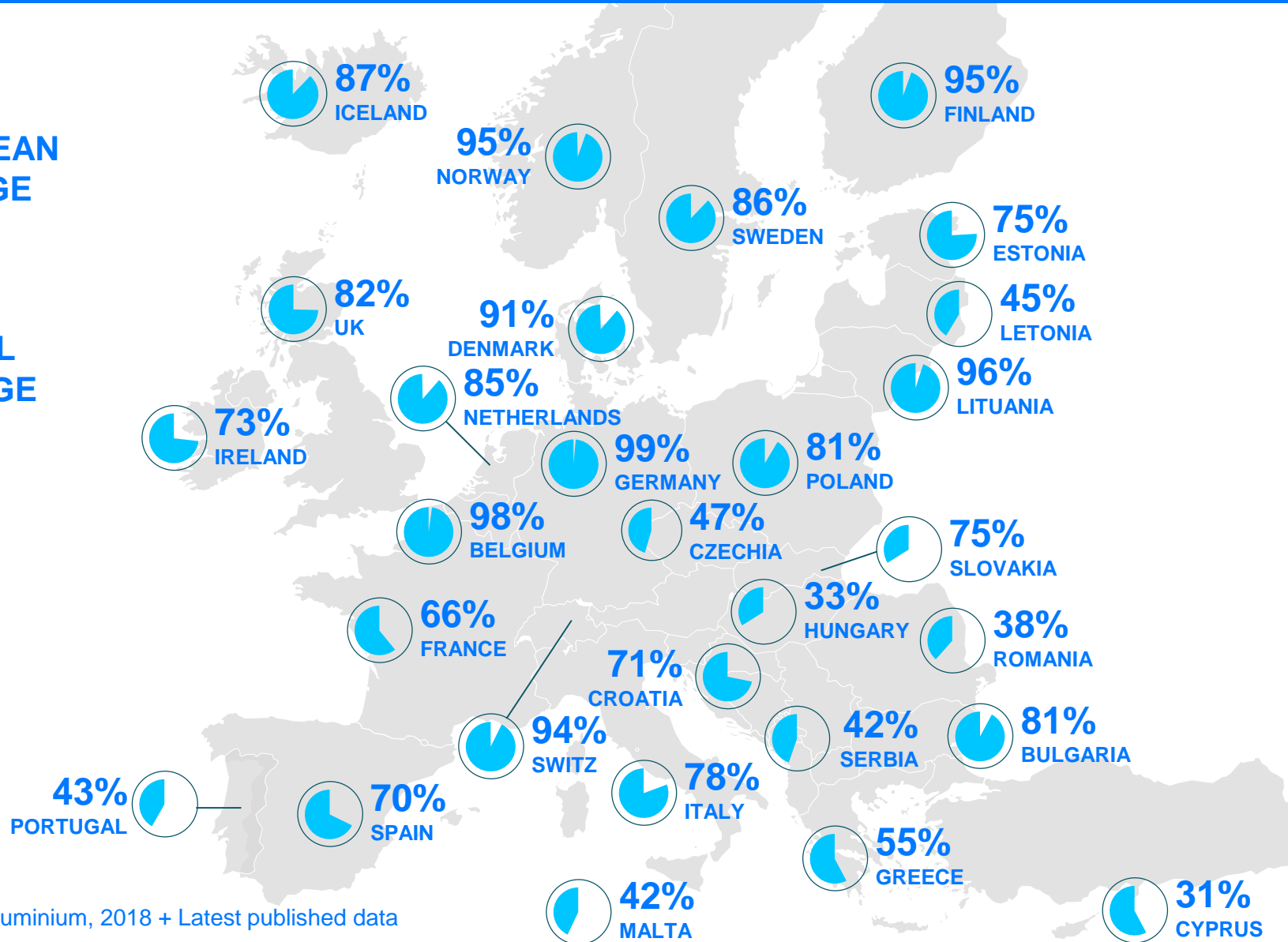
ALUMINUM CANS: THE WORLD'S MOST RECYCLED BEVERAGE PACKAGING



76%
EUROPEAN
AVERAGE



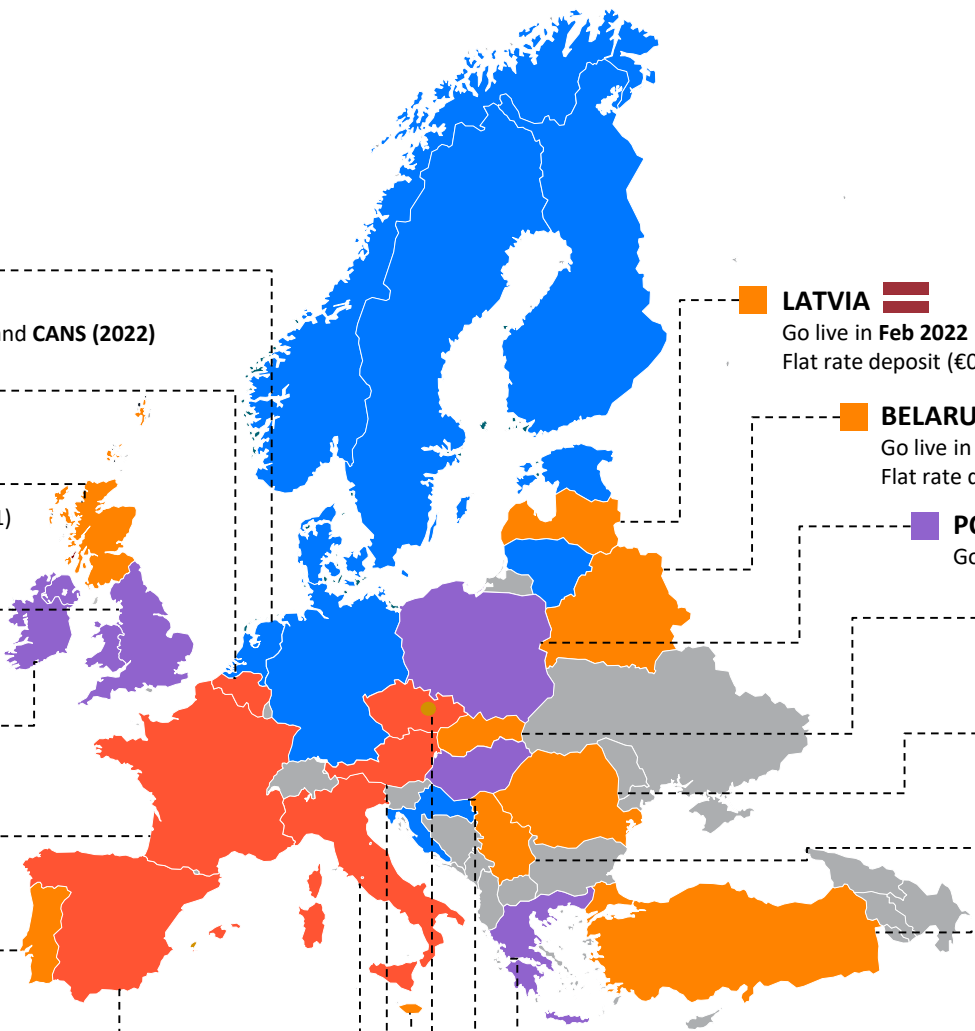
69%
GLOBAL
AVERAGE



Source: MPE+European Aluminium, 2018 + Latest published data

UPCOMING DRS IN EUROPE

- DRS already in place
- DRS already approved
- High probability of DRS
- Medium probability of DRS
- Currently low likelihood



NETHERLANDS
 DRS for all PET since 2021
Variable deposit: €0.25 PET ≥1L, €0.15 on PET <1L (2021) and **CANS (2022)**

BELGIUM
 DRS not before 2023

SCOTLAND
 Go live **July 2022 - likely to be delayed until 2023** (tbc Autumn 21)
 Flat rate deposit (£0.20) on PET, GLASS and **CANS**
 Operator: Circularity Scotland

ENGLAND, WALES, NI
 Go live delayed until **2024 (tbc)**; waiting results of consultation
 PET, GLASS and **CANS** at the moment; possible variable deposit

IRELAND
 Go live planned for Q3 2022
 Currently PET and **CANS** only. Variable deposit is a possibility

FRANCE
 DRS for glass refillables will be approved for 2025. Recycling DRS for PET and cans if EU recycling targets are not met in 2023

PORTUGAL
 Go live **Jan 2022 - likely to be delayed until 2023**.
 Proposed variable deposit on PET, GLASS and **CANS**

SPAIN
 DRS for refillables but not for recycling at the moment.
 No set date but likely 2023/2025

ITALY
 Introduction of DRS approved; likely PET, glass and **CANS**.

AUSTRIA
 Scoping DRS study underway.
 Pressure to meet CEP targets and link to refillable quota

LATVIA
 Go live in **Feb 2022**
 Flat rate deposit (€0.10) PET, GLASS and **CANS**

BELARUS
 Go live in **2021**
 Flat rate deposit on PET, GLASS and **CANS**

POLAND
 Gov. considering all options of DRS and EPR

SLOVAKIA
 Go live in **2022**
Variable deposit ((€0.10) **CANS** and (€0.12) on PET)

ROMANIA
 Go live 31 Mar 2022
 Flat rate deposit 0.5 RON on PET, GLASS and **CANS**

SERBIA
 DRS announced, likely **2023/2024 (no clear indication)**

TURKEY
 Go live **1st Jan 2022**
 Likely to incl. PET, GLASS and **CANS (no clear indication)**

GREECE
 Planned for **5 Jan 2023**. PET only (tbc)

HUNGARY
 Proposed for 2023
 PET, GLASS and **CANS**. Likely to be gov. operated

CZECH REPUBLIC
 DRS being considered

MALTA
 Go live postponed **until 2022**
 Flat rate deposit €0.10 on OW PET, GLASS and **CANS** + refillables

KEY CONCERNS ABOUT DRS FROM INDUSTRY STAKEHOLDERS



SPACE

Retailers are concerned about losing premium space to RVMs.



GLASS

Retailers are also concerned about the noise, weight and hazardous nature of one way glass in RVMs.



COST

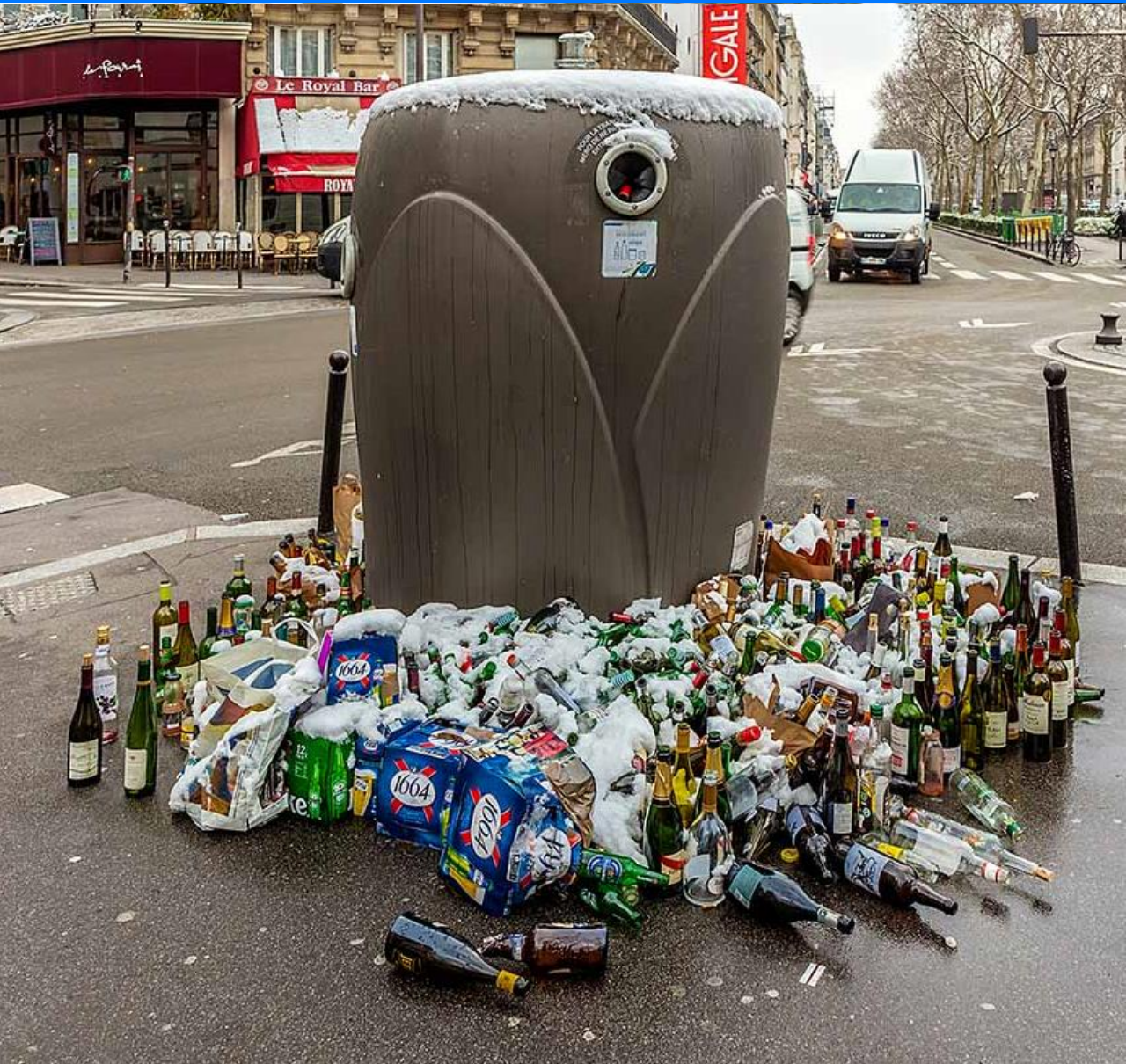
Conventional DRS requires minimum infrastructure based on expensive RVMs – typically circa \$25,000



INTEROPERABILITY BETWEEN SCHEMES

Danger of proliferation on non-harmonised, non-compatible DRS in each country/state and use of DRS as a protectionist measure against the EU single market

CURRENT ON-THE-GO 'SOLUTION' IN DRS



THE ROLE OF A SMART DRS

SERIALISATION-ENABLED DRS CONCEPT



+



+



Individualised and unique marking with security feature

Inexpensive collection points adapted to different (consumption) environments

Centralised ownership and data management allowing flexibility

CONVENTIONAL DRS

COLLECTION METHODS



"Return to retail"

MARKING METHOD



DRS mark and EAN code

PRODUCT COVERAGE



GLASS PET ALU

SYSTEM ORGANISATION

- Decentralised / Centralised
- Stakeholder Owned
- ...



SMART DRS



Collection beyond "Return to retail"



Unique data matrix code and security mark to limit fraud



Anything of fixed form
Any beverege packaging

- Flexible:
 - Stakeholder Owned
 - Not for Profit
 - Material Sales



THANK YOU!

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