



**EESTI
PANDIPAKEND**

DRS

Deposit return system

 /eestipandipakend

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General Manager



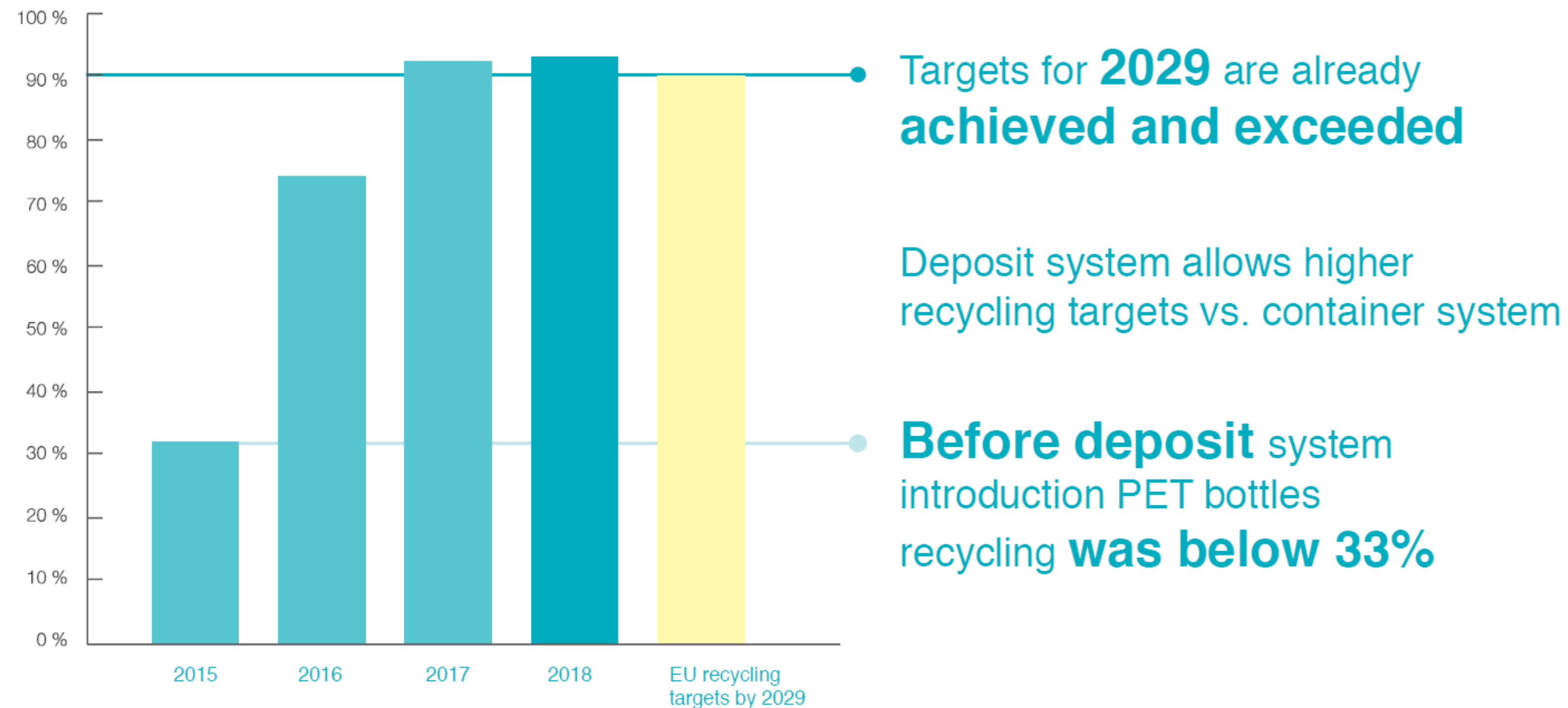
DRS – why?

- EU target 90% of single-use beverage bottles placed on the market are collected
- DRS is the most effective and almost the only way to achieve 90% and beyond
- DRS enables a high level of closed-loop recycling
 - 2025 – beverage packaging (PET) must contain 25% recycled plastic
 - 2030 – beverage packaging (all plastics) must contain 30% recycled plastic
- 13 countries in Europe have implemented DRS and the following European countries expected to join in the coming years:
 - Romania ('23), Hungary ('23/'24), Ireland ('24), Portugal ('24), Greece ('24), Cyprus ('24), Austria ('25)



DRS – why?



Collection & recycling results



Lithuania started DRS beginning of 2016. *Source: USAD*



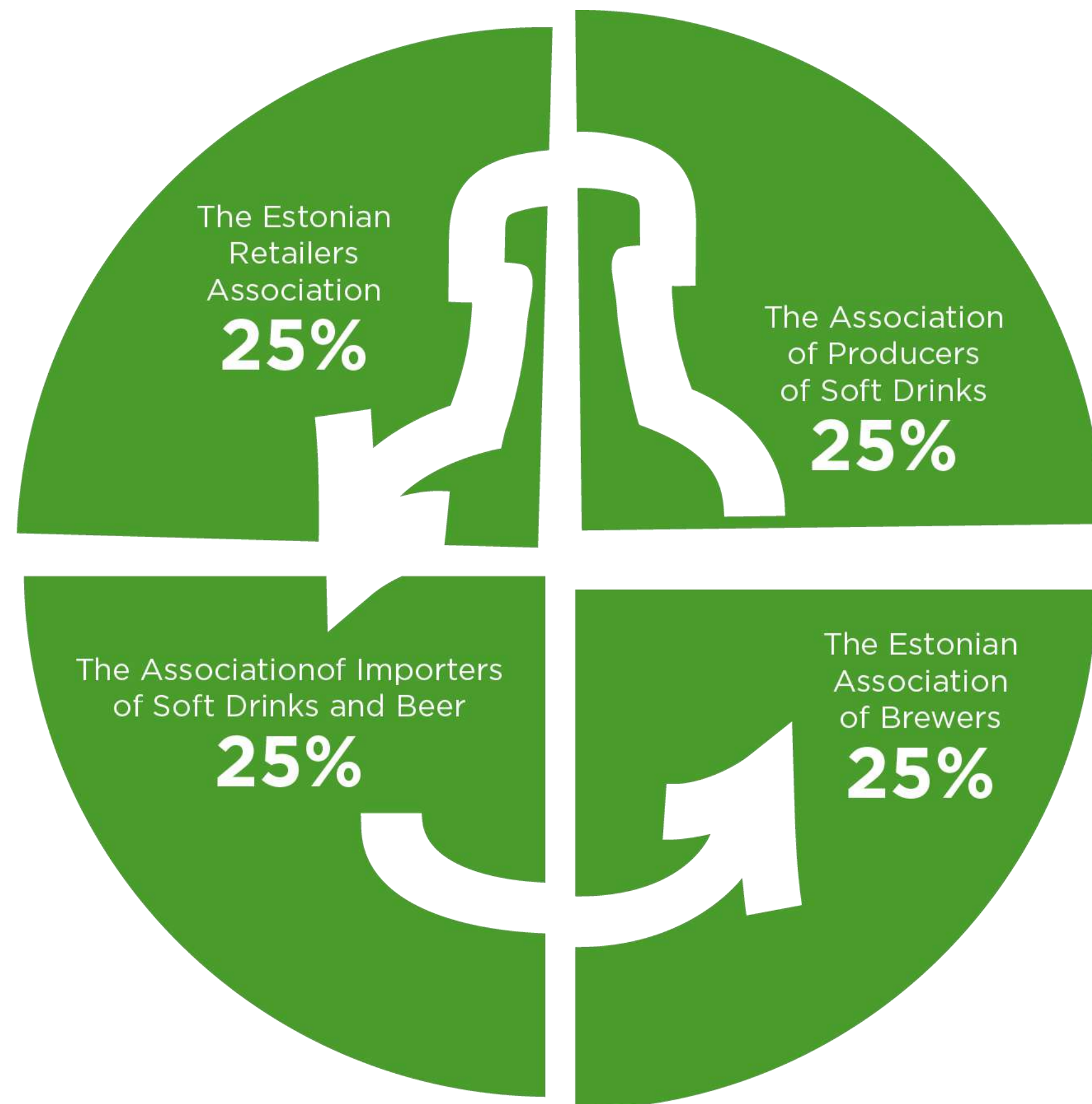
Eesti Pandipakend – Estonian DRS

-  Eesti Pandipakend is a producer responsibility organization established in 2005, which organizes the recycling of beverage packaging by producers, importers and retailers. Our task is to manage and organize the collection, transport, sorting, counting and recycling of deposit packaging all over Estonia
-  Packaging and Packaging Excise Tax Act sets minimum mandatory recycling rates for beverage packaging, non-compliance with which is subject to packaging excise tax (on the missing part):

	Material	Excise tax in € per kg
	Plastic	2,5
	Metal	2,5
	Glass	0,6



Eesti Pandipakend



-  The Estonian Retailers Association
-  The Association of Producers of Soft Drinks
-  The Association of Importers of Soft Drinks and Beer
-  The Estonian Association of Brewers

Accredited by Ministry of Environment
since 03/2005
Operating from 05/2005
Centralized system



Implementation



Hygiene



Investment



Sorting/counting center(s)



Collection infrastructure



IT system/reporting



Free riders



Logistic



Marketing campaign










Scandinavian experience only



Product categories and materials




PRODUCT CATEGORIES UNDER DEPOSIT:

-  Soft drink
-  Water
-  Beer
-  Cider, perry
-  Low-ethanol alcoholic beverages
-  Juice, juice concentrate, nectar

-  *Since July 2021 – alcoholic beverages of a alcohol content exceeding 6% and syrups can be added to the DRS on **a voluntary basis***



Deposit value

-  Deposit does not raise the price of the product, but it is a separate price component that the consumer returns when he returns the package
-  The value of the deposit must be indicated separately in every transaction made with package, the value is always the same
-  Deposit in Estonia is VAT free



DEPOSIT PACKAGING PRICE

0,10€/packaging



One-way plastic packaging

Up to 0,5 l



One-way plastic packaging

Over 0,5 l



One-way metal packaging

All sizes



One-way glass packaging

All sizes



Refillable glass packaging

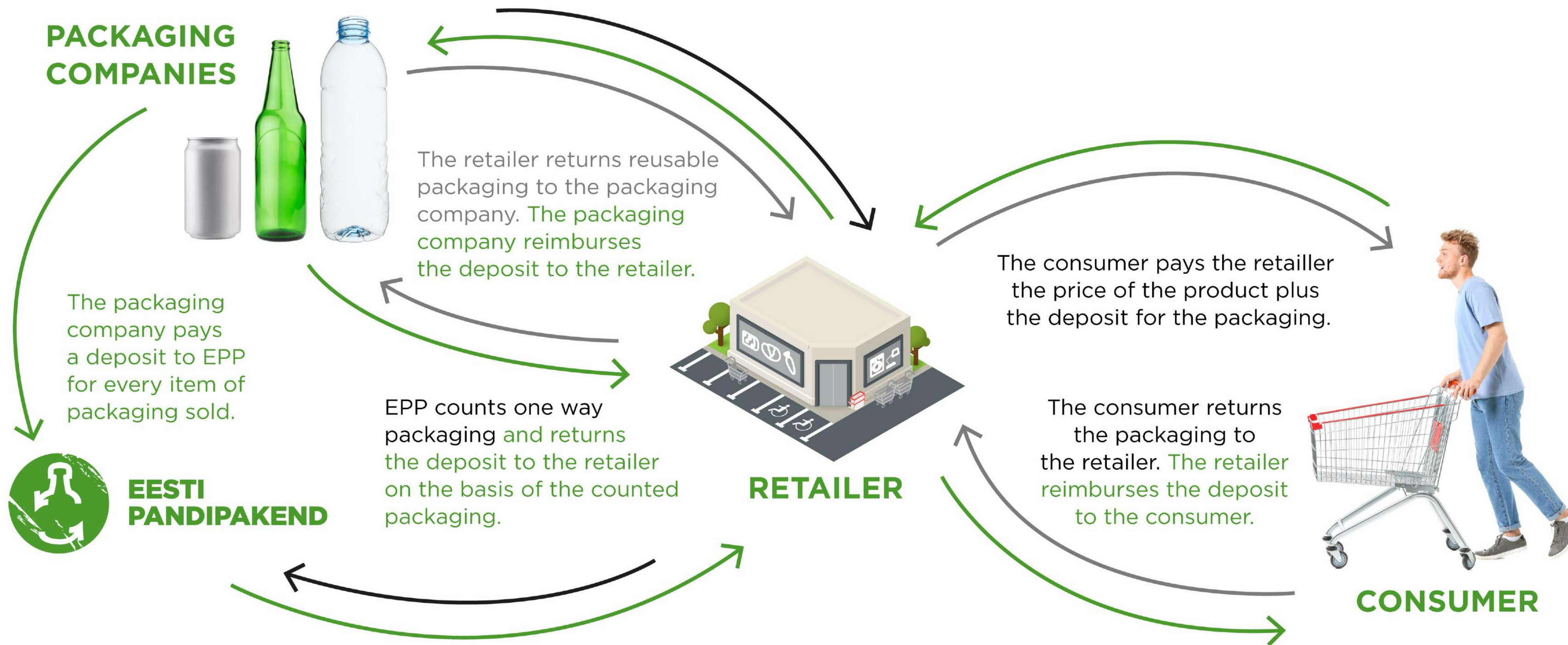
All sizes

KORDUS-KASUTATAV



How the DRS works?

- Movement of packaging
- Movement of deposit
- Movement of reusable packaging





Involvement of the deposit return system



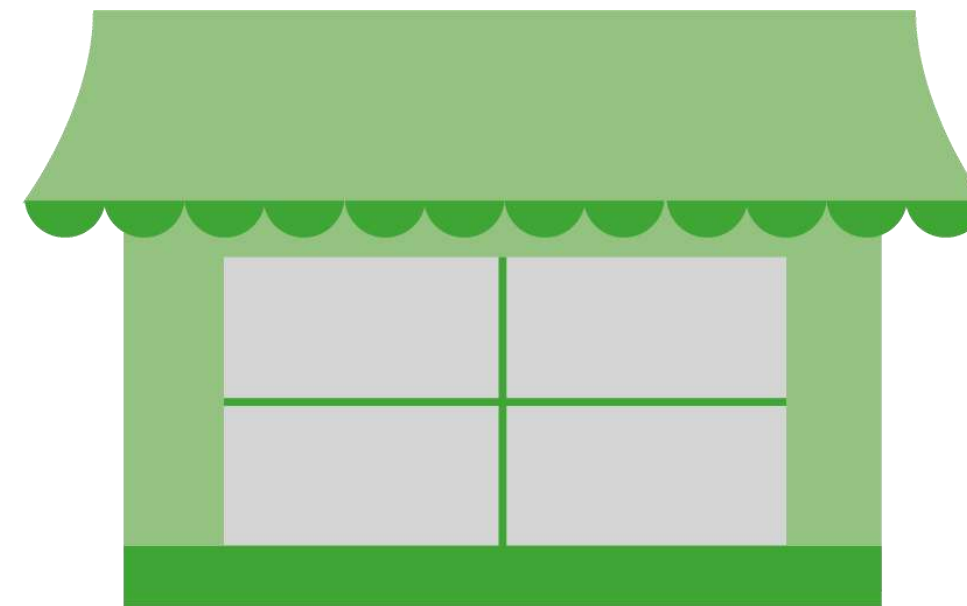
PRODUCERS/IMPORTERS

 349

Packages registered in the packaging register:

 22 000 packages (since 2005)

 ~5500 active packages



RETAILERS

 1260 collection points

800 manual

460 automated (566 reverse vending machines)





Horeca:

 448 pick-up points





Retailers structure

Estonian legislation (take back obligation):



-  Sales area
 -  Up to 20 sqm – voluntary
 -  20-199 sqm – it is possible to apply for an exemption from the local authority
 -  Over 200 sqm – an obligation to take back packaging at the point of sale or its service area

Collection structure

In 2006

-  80% manual collection
-  20% RVM (reverse vending machine)

Since 2015

-  6-7% manual collection
-  93-94% RVM




Deposit packages collection & recycling in Estonia



One-way packages	2022 (2021)	Min requirement by excise law
Sales, million pieces	389 (348)	
Returns, million pieces	320 (293)	
PET return	88% (87%)	85%
CAN return	83% (89%)	50%
OWG return	93% (86%)	85%

A total of over **5.1 billion deposit packages collected** and recycled/reused (as of May 2023)

Keys to a successful deposit return system

-  **Non-profit principle**
-  **Correct initial setup** – law, handling/ baling centres, logistics, etc
-  **Stakeholders involvement** – producers, retailers
-  **Controlling**
-  **Constant awareness building** towards public and stakeholders



The journey of a deposit packaging



Refillable glass bottle is sent from the store to the factory of the beverage maker, where it will be carefully washed, refilled and resold.



Plastic bottles are sorted into two groups: transparent and coloured bottles, and then they are flaked and granulated.



New cans are lacquered, sprayed with a protective layer from the inside, which prevents the corrosion of the can, and covered with a lid after the can has been filled with the beverage.

