



## DEPOSIT SYSTEM ABC

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ZERO WASTE EUROPE 03.06.2019

## WHICH COLLECTION SYSTEM?

#### **DEPOSIT RETURN SYSTEM**



**CURBSIDE** 





**CONTAINER** 



**PACKAGES BAG** 



## WHY DRS?

#### **PLUSES**

- ✓ Highest littering risk packages taken under control (incl marine littering)
- √ 85-98% of packages put to the market are collected
- ✓ Very clean and high quality material, 100% recyclable
- ✓ Reusable packages development
- ✓ Very fast results due to monetary incentive as non-environmental friendly consumers also contribute
- √ Transparent data and reporting

#### **MINUSES**

- ✓ Potential consumer/producer/retailer fraud, needs detailed controlling logics from day one
- Stakeholder (producer, retailer)
   management, needs very active
   coordination especially in the beginning
- ✓ Simple logic for consumer, but quite complex "kitchen side"



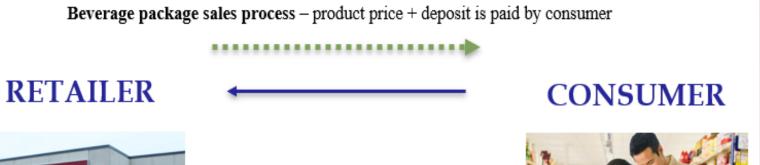


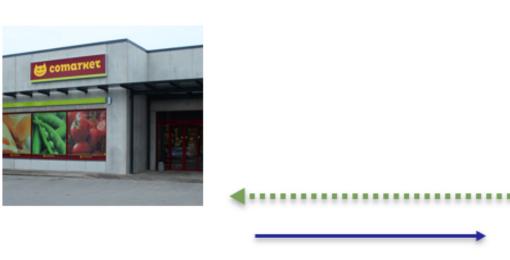






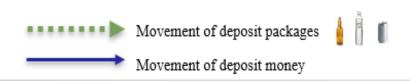








Beverage package return process - package is returned, deposit paid back to consumer









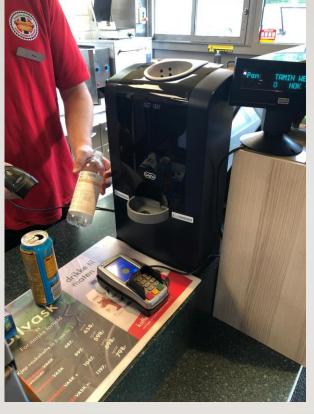






**OUTSIDE/NEAR SHOP** collection options





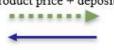




#### **INDUSTRY**



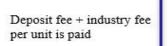
Retailer is invoiced product price + deposit



RETAILER

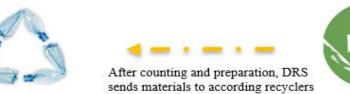


DRS receives material from retailer and pays out deposits +handling fee by RVM readings and its handling centre countings

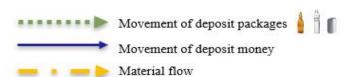


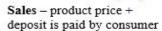
#### RECYCLERS







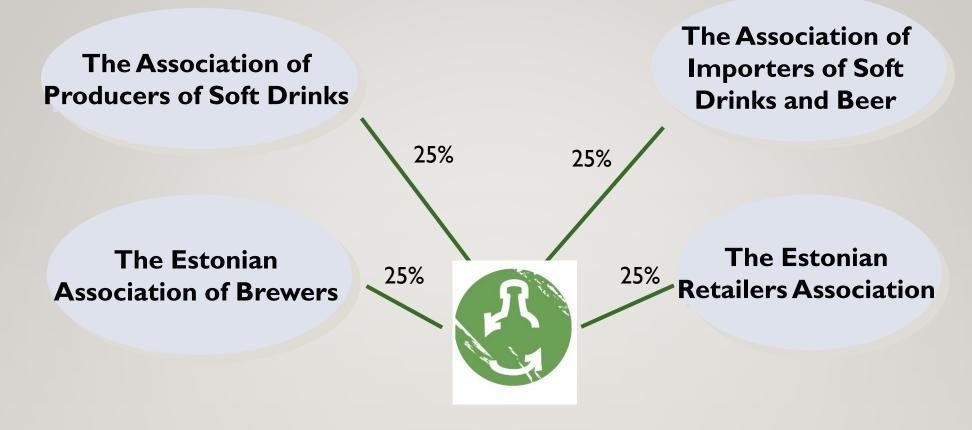




Return - package is returned, deposit paid back to consumer

#### **CONSUMER**





#### **ESTONIAN DEPOSIT SYSTEM**

Producer responsibility organization working on non-profit principle
Accreditated by Ministry of Environment
since May 2005





### PRODUCERS/ IMPORTERS (350)

The packages register consists of:

- **15 800** packages (since 2005)
- 5 500 active packages





#### **RETAILERS**

- 820 collection points (manual or automated)
- 570 reverse vending machines

#### Horeca:

• 420 pick-up points

# Products categories under deposit:

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



## Packages under

deposit value (EUR)

## deposit:

- Plastics (PET)
- Metals (CAN)
- Glass (oneway and refillable)



0,10

0,10







## **COLLECTION STRUCTURE**

#### <u>in 2006</u>

80% manual collection

20% RVM (reverse vending machine)

#### <u>in 2018</u>

6% of packages from manual collection

94% of packages from RVMs

(NB! 80% already compacted at retailer)













## DEPOSIT PACKAGES COLLECTED IN ESTONIA



Deposit packages 2018	Oneway 2018 (2017)	Min requirement by excise law
Sales, million peaces	277,4 (291,3)	
Returns, million peaces	239,5 (231,3)	
PET return	85,5% (87,8%)	85%
CAN return	96,1% (73,5%)	50%
OWG return	89,8% (88,7%)	85%

**Grand Total** 

3 800 779 981 packages

*May* 2005 – *May* 2019 (oneway+refillable)

## SUCCESSFUL DEPOSIT SYSTEM KEYS

- ✓ Non-profit principle, producers responsibility organization
- ✓ Stakeholders involvement producers, retailers, partners (transport, recyclers)
- ✓ Correct initial setup law, handling centres, logistics, collection infrastructure, etc.
- ✓ Controlling one of the cornerstones
- ✓ Constant awareness building towards public and stakeholders



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