International Conference and Study Tour

Reuse and Recycling through Deposit Systems

September 25-26, 2023 R

Riga, Latvia



Under the auspices of



State Environmental Service Republic of Latvia International Conference and Study Tour

Reuse and Recycling through Deposit Systems

September 25-26, 2023 **Riga**, Latvia

Mircea Fechet

Minister of Environment, Republic of Romania



MINISTERUL MEDIULUI, Apelor și pădurilor

DEPOSIT RETURN SYSTEM

Ministry of Enironment, Waters and Forests Romania September 2023 Mircea Fechet

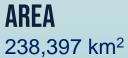
ROMANIA

BUCHAREST



POPULATION 19 MILLION PEOPLE Urban - 54.5% Rural - 45.5 %

* A 2





BEVERAGE CONTAINERS POM Over 6 billion / year



ROMANIA

European Objectives

Romanian pollution data

Infrigement procedures



TIMELINES Professional Presentation

INITIAL TIMELINES by LAW



Law 249/2015 amended through EO 74/2018

By 1st of January 2021, based on economical, social and environment efficiency evaluation, as well as of impact upon small and medium enterprises, through Government Decision is established a deposit return syste applicable to *primary single use beverage containers of glass, plastic and metal with volumes between 0.1 and 3L inclusive, used for putting on the national market of bere, beer mixes, alcoholic beverage mixes, cider, other fermented beverages, juices, nectars, soft drinks, mineral waters and waters of any kind, wines and spirits.*

ULTERIOR TIMELINES by LAW

2018	2019	2020	2021	2022	2023
Primary legislation stipulation			DRS start - 1st of Jan 1st delay to Oct 2022	DRS start - 1st of Oct 2nd delay to Nov 2023	30th of Novermber – official launch of DRS

ADMINITRATING THE DRS

Non for profit – centralized, national organization and administration

RETURO SISTEM GARANTIE RETURNARE

appointed through Gov Decision









MINISTERUL MEDIULUI APELOR SI PÅDURILOR

Brewers of Romania for **Environment Association** Association of Soft Drinks **Producers for** Sustainability

Retailers for Environment Association

Romanian State through Env Ministry

60%

20%



APPLICABILITY

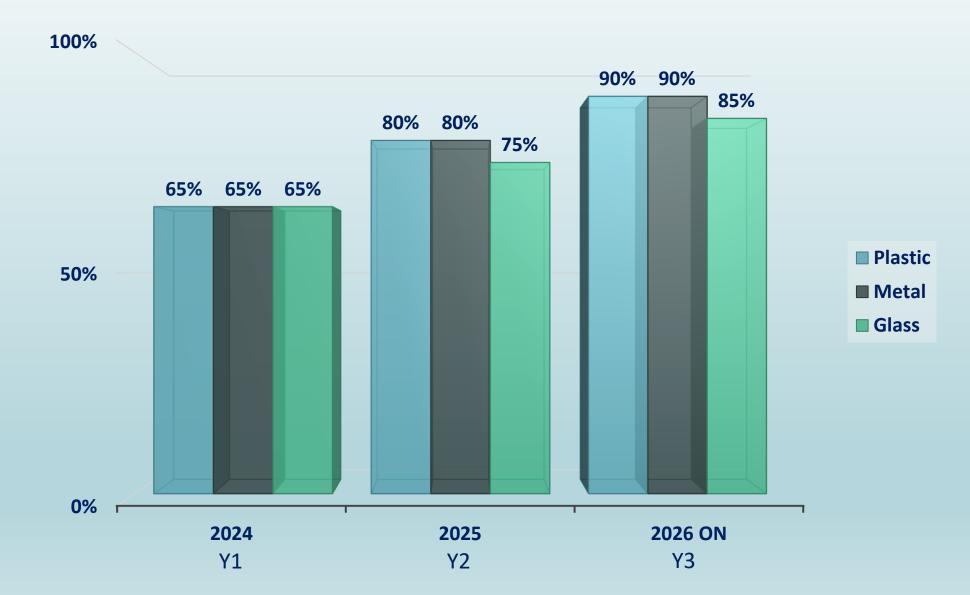
Single use primary beverage containers PLASTIC METAL GLASS



- beer
- beer mixes
- alcoholic beverage mixes
- cider
- other fermented beverages
- Juices

- nectars
- soft drinks
- mineral water
- drinking water of all kinds
- wines
- spirits

RETURN FOR RECYCLING TARGETS



RESPONSABILITIES AND OBLIGATIONS

SYSTEM ADMINISTRATOR:

- Issue the organization plan and operate accordingly
- Fulfill return for recycling targets
- Report to state bodies
- Fund the DRS scheme
- Pick up returned material
- Organize sale of returned material
- Close the contract with producers and retailers
- Issue automated technology standards
- > Pay handling fees to return points operators
- Organize public awarness and information

RESPONSABILITIES AND OBLIGATIONS

PRODUCERS AND IMPORTERS

- mark the packaging with national barcode and deposit mark
- > pay the deposit (0,10EUR) and administration fee
- close the contract with system administrator and register in the DRS
- separate reporting

RETAILERS

- > organize the return points under legal requirements
- > Pay, withhold and reimburse the deposit
- To communicate the deposit value separately from the product price on the shelf and in documents
- > To record and report DRS products according to legal requirements
- > To protect and hand over the collected DRS packaging
- Prohibit the sale of unregistered products
- Inform consumers



RETURN POINTS



Obligation to organize a return point: ALL RETAILERS that sell beverages under DRS scope, regardless their size

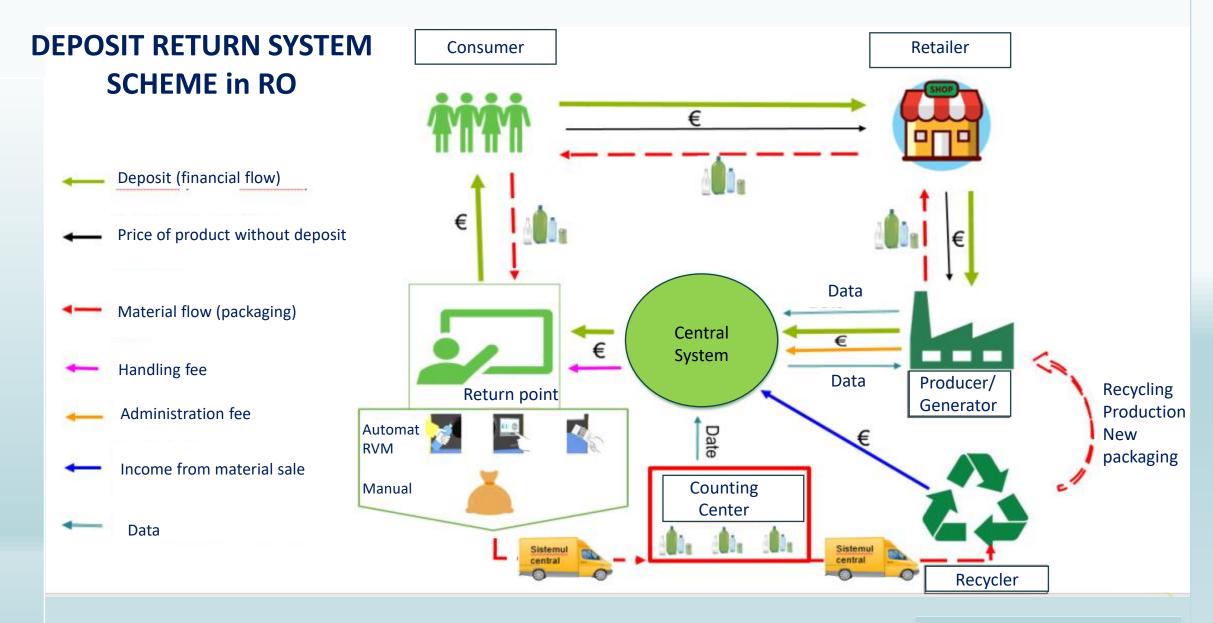
Return point location: at maximum 150 m from sale structure in urban area

and 500 m in rural area

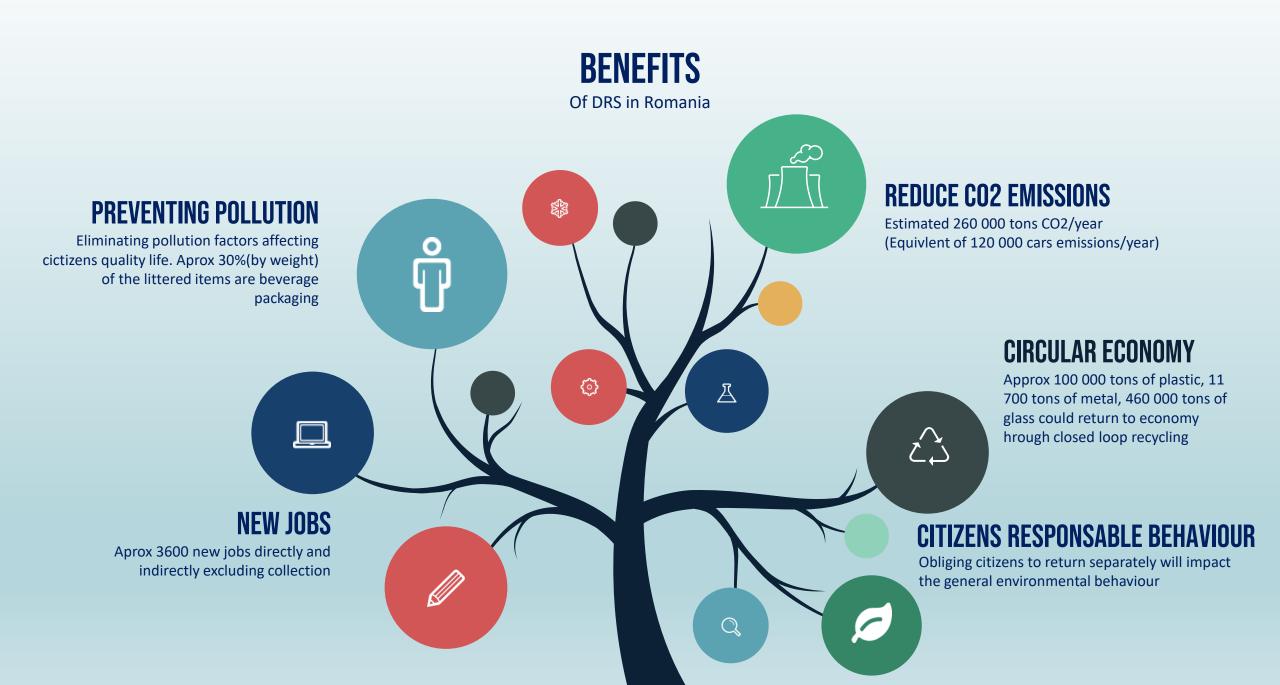
Operating ours: same as the shop

Options to take back : automated or manual

Deposit reimbursed in: cash, voucher or bank transfer



Source: ASE Feasability Study



MULTUMESC! Thank you! International Conference and Study Tour

Reuse and Recycling through **Deposit Systems**

September 25-26, 2023 **Riga**, Latvia

Martin Udengaard Olesen

Head of Business Development, Dansk Retursystem



Dansk Retursystem

Collection and clearing of single-use and refillable containers in Denmark

26th of September 2023



Agenda

- The history of Dansk Retursystem how we got to here
- Figures for Dansk Retursystem where we are
- Refillable vs. single use bottles and cans our considerations
- Recap

Background and history

~0







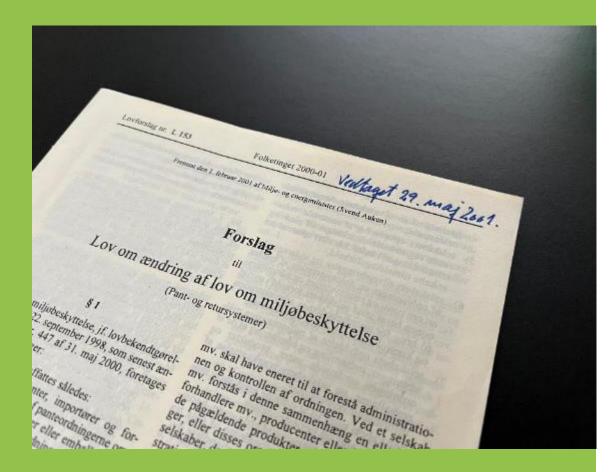
Denmark has a long tradition of collecting used bottles

Denmark has one deposit and return system, and it is easy to use



Dansk Retursystem is one of a kind

- Established 30 June 2000
- A non-profit company
- Owned by Denmark's breweries and regulated by Denmark's Ministry of Environment and Food
- Dansk Retursystem has exclusive rights to operate the deposit and return system governed by a Statutory Order on Deposits
- The Board of Directors comprise representatives from retail, breweries and importers
- Dansk Retursystem strives to maximize the return rate



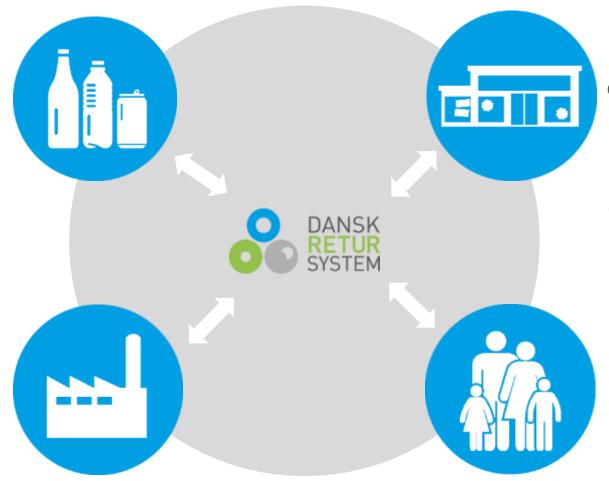


In collaboration with all actors

PRODUCERS Producers and importers register their products with the deposit and return system. We advise them on the correct labelling of bottles and cans

PROCESSORS

We collaborate with major European recycling plants on ensuring high quality in recycling



RETAILERS, RESTAURANTS, COMPANIES, ETC. Sales outlets must take back empty bottles and cans. We help by providing the equipment that makes it easy to refund the deposits and to collect and separate the returned packaging

CONSUMERS

We make it easy to return used bottles and cans. The deposit label guarantees that the packaging will be recycled to benefit both climate and environment



Deposit markings



Primary markings





Secondary markings





Active SKUs in the deposit system



Materials: Plastic bottles Metal cans Glass bottles The producer decides material, fee based on recyclability



24

Facts about Dansk Retursystem



DANSK RETUR SYSTEM

About us







2 bn bottles and cans returned i 2022

Recycling 2bn packaging in 2022 reduces carbon footprint by **223,000 tonnes**



27



Market

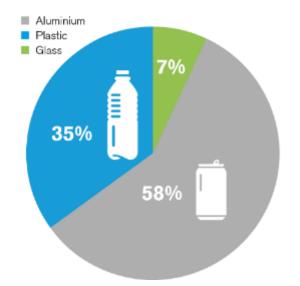




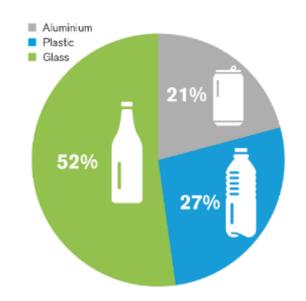


Single use packaging 2022 – material

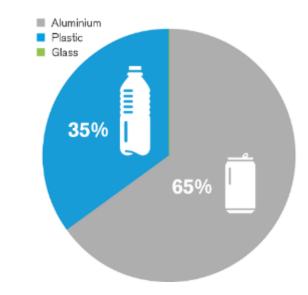
Collected single use packaging Pieces



Collected single use packaging Tonnes



Revenue from single use packaging sold to recycling DKK





Where are bottles and cans returned?



83%

Pantstations and reverse vending machines



17%

Convenience stores, restaurants and businesses



18% less CO₂



emitted per packaging in 2022 compared to 2019 2017 2018 2019 2020 2021 2022 2023 Expected

Øre/packaging

17 15 13

Average fee per packaging have been **reduced by 98%**

98%



Sorting and counting center Høje Taastrup - 2020









Deposit stations

Bulk setup for larger amounts



Refillable vs. single use bottles and cans





Refillable vs. single use Behind the scene

Refillable

- Registration and reporting, DRS
- Handling fees, **DRS**
- Validation of deposit, DRS
- Logistic to shops, **Brewery**
- Logistic from shops empty, Brewery
- Deposit collection and payment, **Brewery**
- Washing, **Brewery**

Single use

- Registration and reporting, **DRS**
- Handling fees, DRS
- Validation of deposit, DRS
- Logistic to shops, **Brewery**
- Logistic from shops empty, DRS
- Deposit collection and payment, DRS
- Recycling, DRS



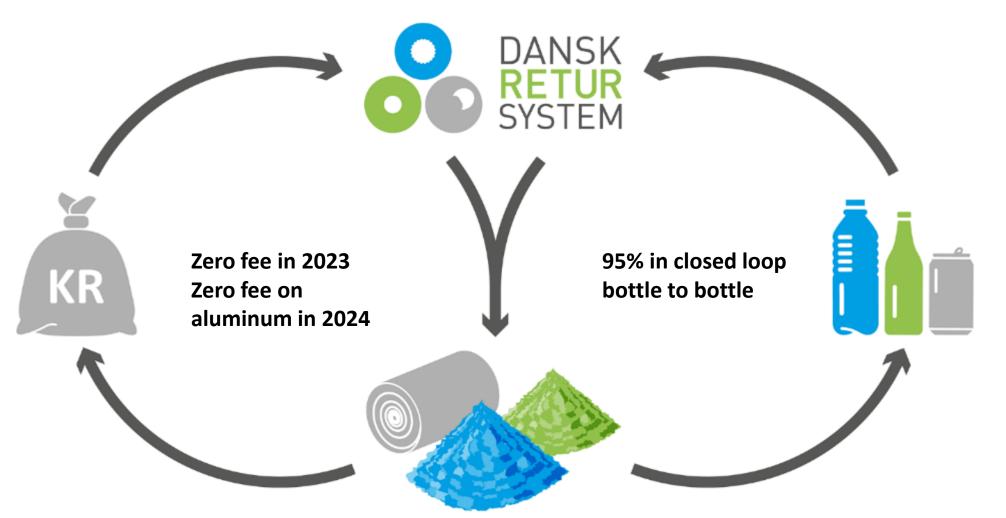
Consumers perspective Refillable vs. single use



One system

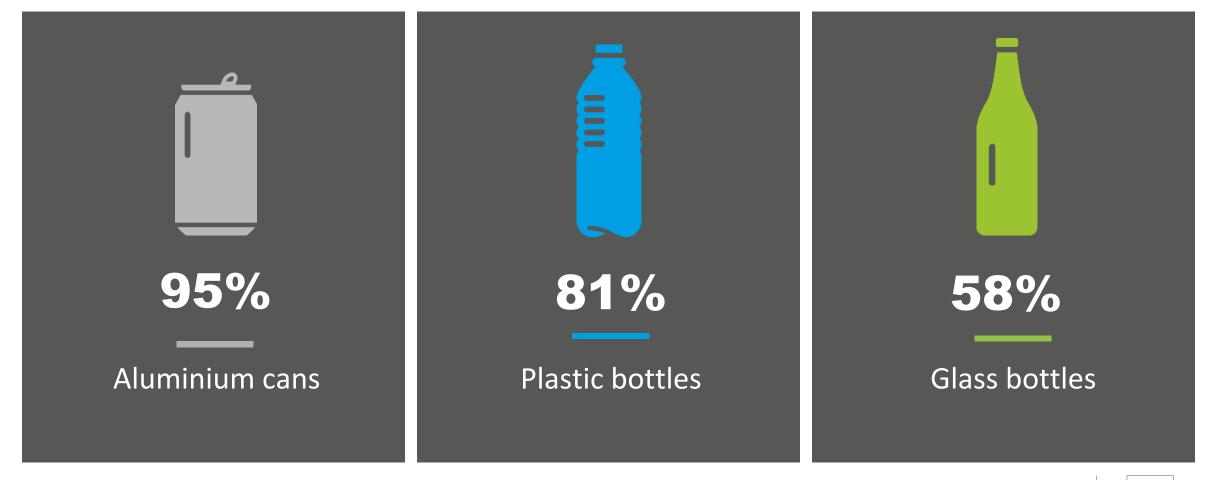


Circular Economy in Dansk Retursystem





CO₂ saved by recycling instead of producing a new container



Recap:

- Two string system in Denmark
- Consumer perspective (one string system)
- Producer perspective
- Packaging perspective

E.	



Reuse and Recycling through Deposit Systems

September 25-26, 2023 Riga, Latvia

Anna Larsson

Director, Circular Economy Development, Reloop Platform



for beverage containers

Anna Larsson

Director, Circular Economy Development

Reloop Platform





Vision World without waste pollution

Mission Implementation of Circular Economy

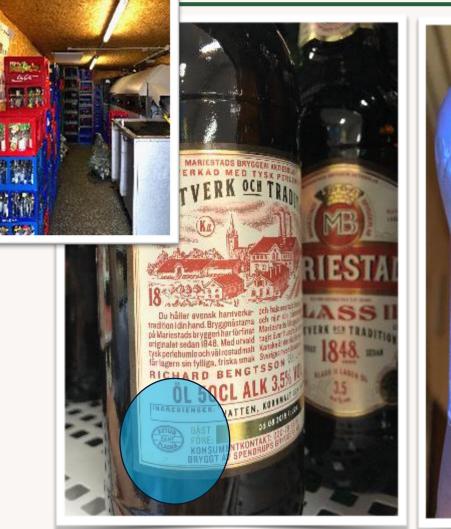






Deposit systems - history





Swedish refillable bottle



Slovak single use bottle

DRS has been used as a **method of the collection** of beverage containers for decades. Producers have used the deposit, id est, a monetary incentive, in order to guarantee **returns of refillable** containers.

Collection method based on deposit has been **adopted for single use** beverage containers.



Anna Larsson Q3 2023 • www.reloopplatform.org



Sweden

First country to introduce DRS for single use containers

1984 – DRS for cans 1994 – DRS for plastic

Shifting from refillable containers into single use packaging created risk for littering.

In order to prevent it, producers and government entered a dialog the result of which for first deposit system for beverage containers in Europe.



DRS in Europe

Fact Sheet: Deposit Return Systems Reduce Litter

 Attaching a monitary value to beverage containers, in the form of refundable deposits, decreases the likelihood that the containers will be littlered or remain as littler in the environment.

 The impact of a DRE or litter reduction depends on a number of factors, including the level of the deposit/refund and the program scope.

 There are different ways to menuals beverage containers as a proportion of littler, each of which has its own advantages and pitfells.

In addition to instraump recycling rates, one of the main benefits of discost relation adverses (OHS)and one that connot be decomposited without it is little reduction. Outlies simply, this is bedouge attaching a monotony value to a beverage container, in the form of a setted site deputit, decreases the isolation of that the containers will be littlered or remain as littler in the devicement, as containers and other citizens with be majored to inform them for a regulating containers.

It protably does not came as a surplue then that their concerns user a pulmary reason why logalised DRSs were invented and paised in the first proc. This first legislated arystim, established in British Columbia in 1970, bease os "The Littler Act" and was simpled a encourtainty concurrent to negcide between general came better instance of booling them to the side of the road. Near, pullter document to the DNSs and DBSs were also mainly passed as anti-filter level, including those in South Australia. Oregon, Version of Belleria.

In New South Weste (NSW), Australia, the state government identified DRI as one of the key octors it is being to achieve the observations in the 2019-2022 XSW Utiler Prevention Storlings. Moreover, the statist declarate to replement DRS to 2017 was principally based on the results of a cost-benefit analysis where benefits to promumbles from (Nar robustor) ware estimated using them willkonces to see for decreased site. The discussion document for the DRS decision steled that "by providing a reward, TDRSS provide a disclocative to the the DRS decision steled that "by providing a reward, TDRSS provide a disclocative to the and an interview to be the third work of remarks between the two threads of the section of the and an interview to be disclocated that "by providing continents that as thread or disposed to useful." The Tarraware appearance occurs decision to implement a DRS (planmad for 2023) was also inflamed and that the scheme site encourse decision to implement a DRS (planmad for 2023) was also inflamed by its effectives at encourse decision, to implement a DRS (planmad for 2023) was also inflamed by its effectives at encourse decision, normalized and the interview of the and the interview of the interview of encourse decision, normalized to 2023."

The effectivenesis of DRG at reduces littler has also been reconstant by the European Urient. In 2008, the European Parliament and Council asseed the Single-Use Pastic Directive, which introduced a under sange of measures to tackle commonly littlered plastic thirt, includes a reducement) for memory DRG collect at least 90% of plastic bottles by 2023. The Directive specifically relemence DRS is not every to ochise this.

We wanted to see what evidence there was for the impact of DRS on their reduction, to see set with of a task to complete all of the research we could mind on the subject. While we found was comparing and offers substantial priori that deposit systems are effective at decreasing littler. The following table summarizes the evidence we fruid. Decretion for mentiodological issues associated with the substantial priori.

reloop

Microsoft Word - DRS-Litter Fact Sheet (Summary)-14June2021.docx (reloopplatform.org)

Material fractions – single use





	Croatia	Denmark	Estonia	Finland	Germany	Island	Lithuania	Netherlands	Norway	Sweden
water (still, sparkling)	•	٠	•	٠	•	•	•	٠	•	•
Soft drinks	•	•	•	•	•	•	•	•	•	•
Juices and nectars	•		•	•		•	•		٠	
beer	•	•	•	•	•	•	•		•	•
cider	•	•	•	•	•	•	•		٠	•
Alcohol beverages	•	<10%	<6%	•	•	•	•		•	•
wines	•			•		٠	in PET		٠	In PET, can
liquers	•			•		•			•	
Spirits				•						In PET, can
milk	<0,21									







Centralized clearing	Island	Croatia	Sweden	Norway	Finland	Lithuania	Estonia	Denmark	Netherlands	Germany	Decentralized
System management by producers	Island	Holland	Sweden	Norway	Finland	Lithuania	Estonia	Denmark ¹	Croatia		State operator
Return to retail	Germany	Croatia	Sweden	Norway	Finland	Lithuania	Estonia	Denmark	Holland	Island	Redemption center
Bar code ²	Island	Germany	Sweden	Norway	Finland	Lithuania	Estonia	Denmark	Netherlands ³	Croatia	Tonnage
Obligatory by law	Island	Germany	Sweden	Croatia	Holland	Lithuania	Estonia	Denmark	Finland	Norway	Fee ⁴

1 upon public procurement

2 reporting on put to market and information on collected packages are based on EAN code identification

3 in border areas

4 fee for uncollected packaging (Norway) or fee applied if the producer has not joined the deposit system (Finland)



Centralized clearing	Slovakia	Latvia	Malta	Romania
System management by producers	Slovakia	Latvia	Malta	Romania and the State
Return to retail	Slovakia	Latvia	Malta	Romania
Bar code ²	Slovakia	Latvia	Malta	Romania
Obligatory by law	Slovakia	Latvia	Malta	Romania



\bigcirc

relcop



Governance and role of retail



Producers and retailers have played an important role in the collection activities and as co-founders of the system operator's entity.	BEVERAGE INDUSTRY	Europe* 90%	Fight 2 Creat life is an Bates for Shade-Use Divisis Containers in Disposit Return Rysterris in the USA, by State
TRADE	Participation of the retailers has important positive impact on collection rates as well as climate footprint of a deposit system.	Figure Decembers for Single-Use Diffine Containers in Depeck Return Sjetters in Europe, by Course of the Single-Use Diffine Containers in Depeck Return Sjetters in Europe, by Course of the Single-Use Diffine Containers in Depeck Return Sjetters in Europe, by Course of the Single-Use Diffine Containers in Depeck Return Sjetters in Europe, by Course of the Single-Use Diffine Containers in Depeck Return Sjetters in Europe, by Course of the Single-Use Diffine Containers in Depeck Return Sjetters in Europe, by Course of the Single-Use Diffine Containers in Depeck Return Sjetters in Europe, by Course of the Single-Use Diffine Containers in Depeck Return Sjetters in Europe, by Course of the Single-Use Diffine Containers in Depeck Return Sjetters in Europe, by Course of the Single-Use Diffine Containers in Depeck Return Sjetters in Europe, by Course of the Single-Use Diffine Containers in Depeck Return Sjetters in Europe, by Course of the Single-Use Diffine Containers in Depeck Return Sjetters in Europe, by Course of the Single-Use Diffine Containers in Depeck Return Sjetters in Europe, by Course of the Single-Use Diffine Containers in Depeck Return Sjetters in Europe, by Course of the Single-Use Diffine Containers in Depeck Return Sjetters in Europe, by Course of the Single-Use Diffine Containers in Depeck Return Sjetters in Europe, by Course of the Single-Use Diffine Containers in Depeck Return Sjetters i	65% usa*

Global circularity



How many resources are recirculated?



2018

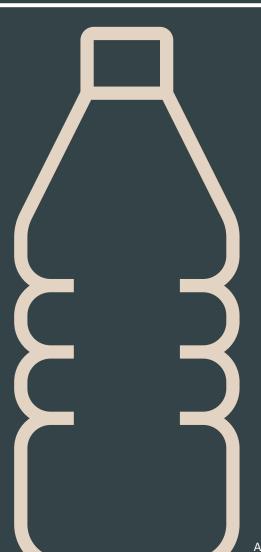
2020

2023

DRS based circularity



80-90%



DRS – Circular Economy Best Practice:

Figure 1 Overall Return Rates for Single-Use Drinks Containers in Deposit Return Systems in Europe, by Country

verali Return Rates for Single-Use officia containers in Deposit Return Systems in Europe, by Country



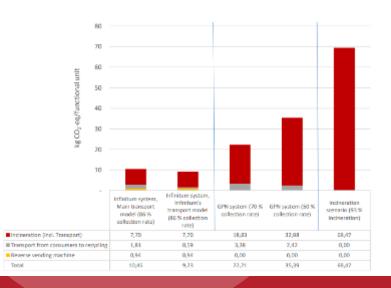
Deposit systems result with high collection rates exceeding 85%



CIRCULAR ECONOMY AT SCALE **CO**2

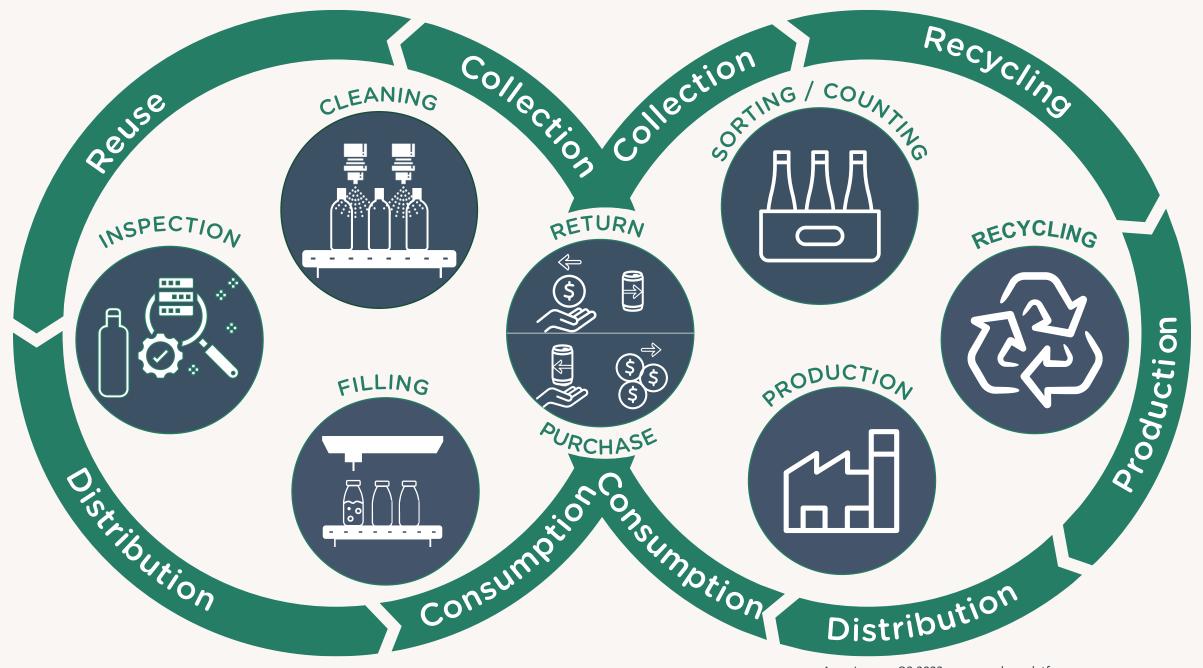
.004





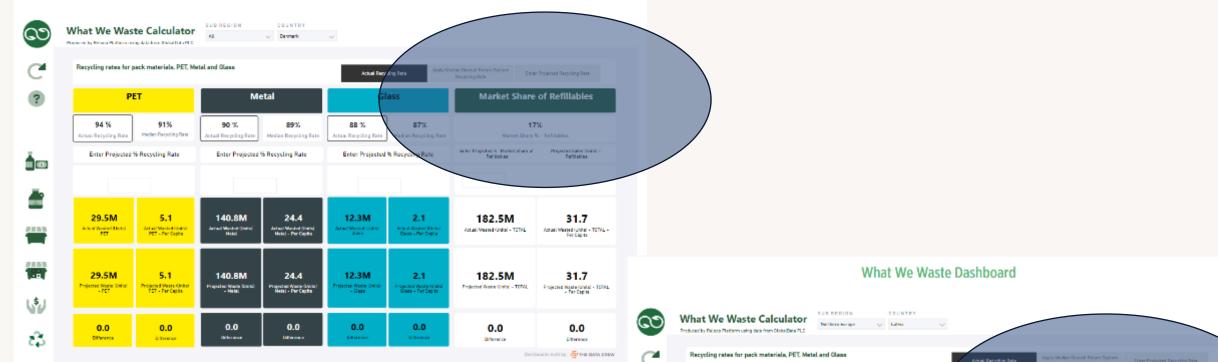
Collection of beverage containers through deposit system results with ca **30% lower carbon footprint** than traditional curbside system.

Source: LCA for existing deposit system in Norway and LCA calculated for Czech Republic



Anna Larsson Q3 2023 • www.reloopplatform.org

What We Waste Dashboard







DRS for refillables



Country	Reporting p o m/collected	Deposit clearing/ handling fee	Collection
Estonia	System operator (joint with SO for single use)	Filler individually	Filler individually
Lithuania, Finland	System operator (A separate entity)	Filler individually	Filler individually
Latvia – individual shapes	System operator (joint with SO for single use)	Filler individually	Filler individually
Latvia – standard shapes	System operator (joint with SO for single use)	System operator	System operator
Denmark	System operator (joint with SO for single use)	System operator (joint with SO for single use)	Filler individually
Germany*	Filler individually	Filler individually	Filler individually

Additional pooling systems

Anna Larsson Q3 2023 • www.reloopplatform.org

relapp

resources remain resources

www.reloopplatform.org

Reuse and Recycling through Deposit Systems





Reuse and Recycling through Deposit Systems

September 25-26, 2023 R

Riga, Latvia



Under the auspices of



State Environmental Service Republic of Latvia

Reuse and Recycling through Deposit Systems

September 25-26, 2023 Riga, Latvia

Laura Anteina

Deputy Director General, the State Environmental Service, Republic of Latvia



Establishment and monitoring of the deposit system in Latvia Laura Anteina Deputy Director General State Environmental Service The Republic of Latvia

26.09.2023

Why do we need a deposit system?

National Waste Management Plan 2021 - 2028

Achievable goals:

- By 2035 only 10% of household waste is buried in landfills
- △ By December 31, 2025 recycled 65% of annual used packaging
- By December 31, 2030 progress towards the target of recycling 70% of annual used packaging
- By 2025 77% collection rate of used single-use plastic beverage packaging based on the respective year's mass of beverages sold in the market
- By 2029 90% collection rate of used single-use plastic beverage packaging based on the respective year's mass of beverages sold in the market

Why do we need a deposit system?

Application of the deposit system to beverage packaging

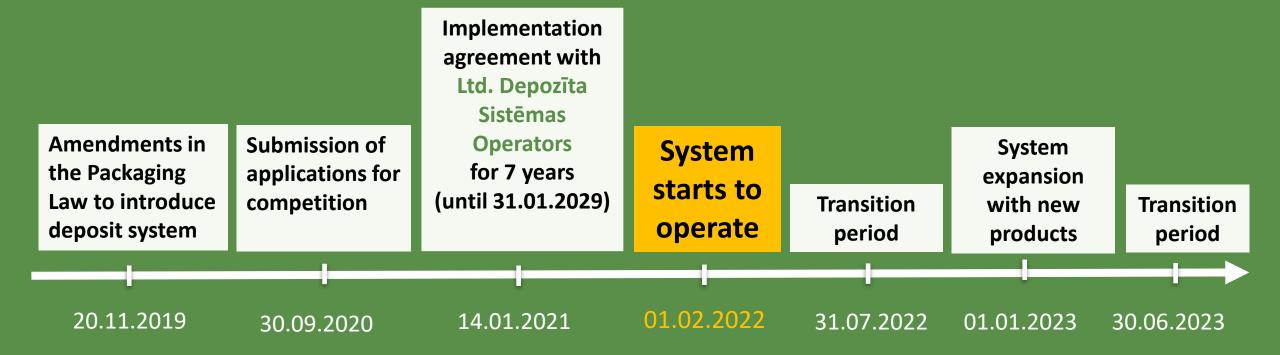
✓ contributes to the reduction of the amount of used packaging that is buried in a landfill

- ✓ makes Latvia cleaner, reducing environmental littering
- ✓ ensures the efficient use of natural resources by diverting plastic, glass and metal beverage packages for recycling
- ✓ encourages public involvement in packaging management



Mandatory, unified beverage packaging deposit system from 01.02.2022





F. Framework for deposit system operation

Amendments in the Packaging Law

https://likumi.lv/ta/en/en/id/57207

Regulations of the Cabinet of Ministers Regarding the Operation of the Deposit System

https://likumi.lv/ta/en/en/id/316731

Waste Management Law

A waste transport permit is not required for the transport of used beverage deposit packaging to the deposit packaging sorting center

https://likumi.lv/ta/en/en/id/221378-waste-management-law

Scope of the deposit system

Non-alcoholic drinks and syrups	All types of beer	Alcoholic cocktails (alcohol content up to 15%)	All types of alcoholic drinks
Except dairy products		Except wine, sparkling wine and fruit wine	For example, wine and strong alcoholic spirits
Cans	Cans	Cans	Cans
Glass bottles	Glass bottles	Glass bottles	
Plastic PET bottles	Plastic PET bottles	Plastic PET bottles	Plastic PET bottles

Volume of 0.1 to 3 l (not included)

2023 expanded to:

- Syrups
- All types of alcoholic drinks in plastic (PET) bottles or cans
- Alcoholic cocktails fermented drinks or spirits, increasing their alcohol content from 6% to 15%

Funding sources of the deposit system

The deposit system operates based on the zero-profit principle and all revenue earned needs to be reinvested into operation and development of the system

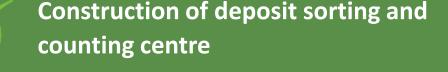
The deposit revenue:	system is financed by three main sources of
	 1.Income from materials collected and handed over for recycling 2.Deposit fee for any packaging not returned to the system by
	consumers 3.Payments of beverage producers for participation in the deposit
	system



Controlled areas by the State Environmental Service during deposit system introduction process

Deposit acceptance network establishment - involvement of retailers

Deposit collection infrastructure – reverse vending machine (RVM) network



Recycling of collected materials

Creation of logistics system



Implementation of IT solutions

Involvement of deposit packaging (beverage) producers

Implementation of public communication plan



And during deposit system implementation from 01.02.2022

Supervision of DS implementation

monthly operator reports, supervision meetings until the end of transition period

DS operation supervision according to the signed agreement, deposit collection, reuse and recycling rates Involvement of deposit packaging producers and their data credibility

Application of natural resource tax exemption for deposit packaging



Mandatory involvement of retailers



Obligation to participate in the system for producers

Mandatory requirement for **producers and importers** to sign a contract with the deposit packaging operator for participation in the system



313 contracts

The amount of beverage deposit packaging produced

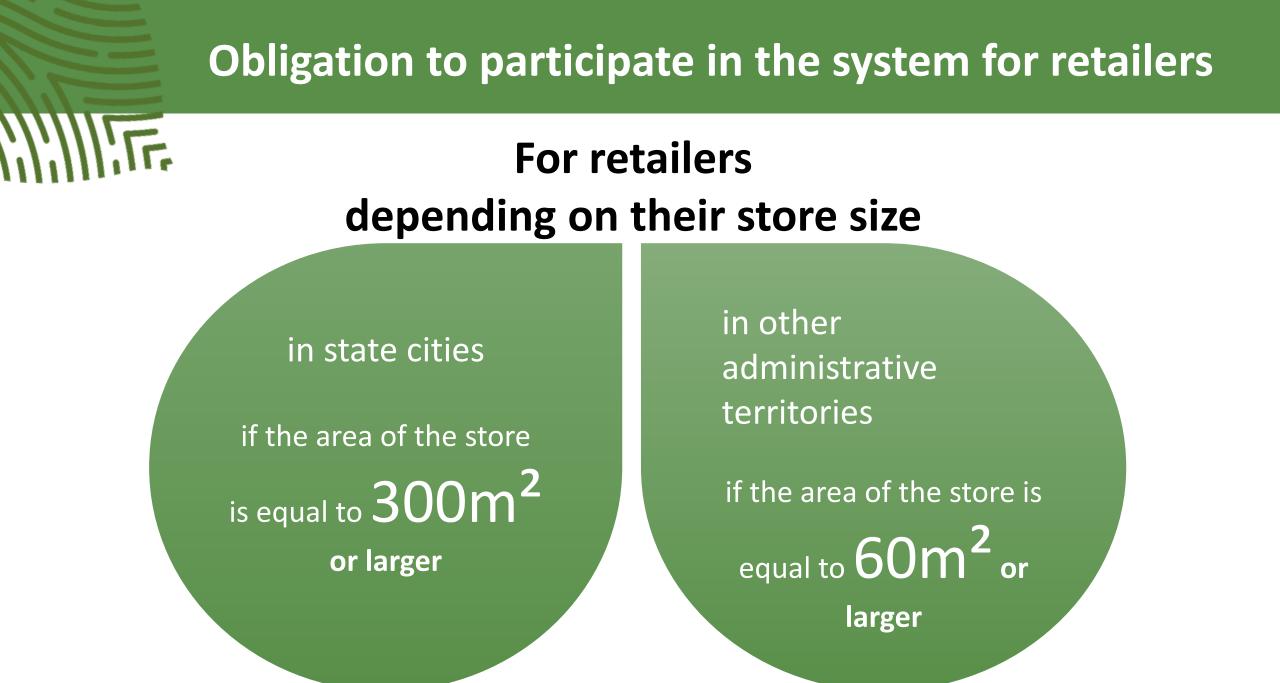
150 kg or more in a calendar year ~ 500 pcs. 0.5 l glass bottles or ~ 5,000 pcs. PET bottles or ~ 10,000 pcs. metal cans

Benefit for producers?

Producers and importers that join the deposit system receive **an exemption from the natural resources tax** for the containers that are managed within the deposit system

Type of material	Natural resources tax, EUR per kg	Deposit system participation fee, EUR per unit	Type of packaging	Natural resources tax, EUR	Deposit system participation fee, EUR
Plastic/PET bottles: colourless, transparent	1,22	0,0068	500 pcs. PET bottles: colourless, transparent	183	3,4
Plastic/PET bottles: other colours	1,22	0,0252	500 pcs. PET bottles: other colours	183	12,6

Natural resources tax exemption granted for 2022 EUR 16 million



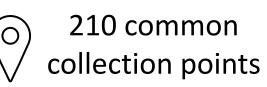
Deposit collection points



1409 collection points established

✓ 1014 - automated
✓ 395 - manual





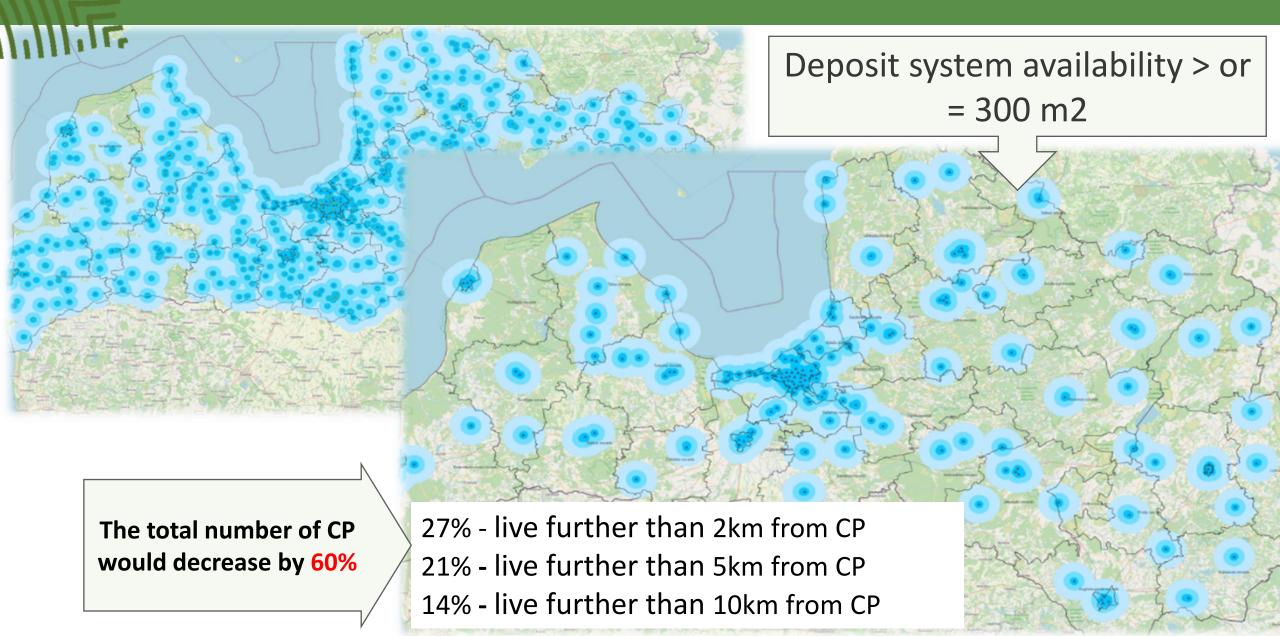
Deposit system availability

Latvian population

~ 1.9 million

14% - live further than 2 km from CP
6% - live further than 5 km from CP
1% - live further than 10 km from the CP

Deposit system availability



Challenges with participation of retailers

1.02.2022	1.02.2023	1.09.2023
80 retailers	12 retailers	3 retailers
144 stores	47 stores	4 stores



«Consult first» principle - SES has sent informative letters to 80 retailers

SES issued 53 decisions on actions to be taken to prevent inconsistencies

SES issued 31 executive orders on fines applying a total of 29 thousand EUR



Challenges for retailers

- Ensuring hygiene requirements
- Lack of storage facilities to store accepted packaging until collection by operator
- Additional workload for employees
- Employee resistance to the new duties
- Low priority of environmental sustainability in the value scale of business owners

Management fee (or benefit?) for retailers

The approved **deposit packaging management fee** for the first operating year of the deposit system (2022):

- Manual, per item: EUR 0.0203
- RVM with compaction, per item: EUR 0.0223
- RVM without compaction, per item: EUR 0.0195

Management fee, paid in 2022 EUR 4,8 million

After assessing the results of the first year of operation, the management fee for 2023 has been set by type of packaging material

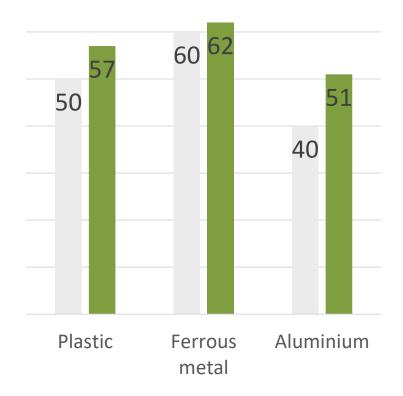


Results of the first operational year









■ Target ■ Recycled



Results of the first operational year

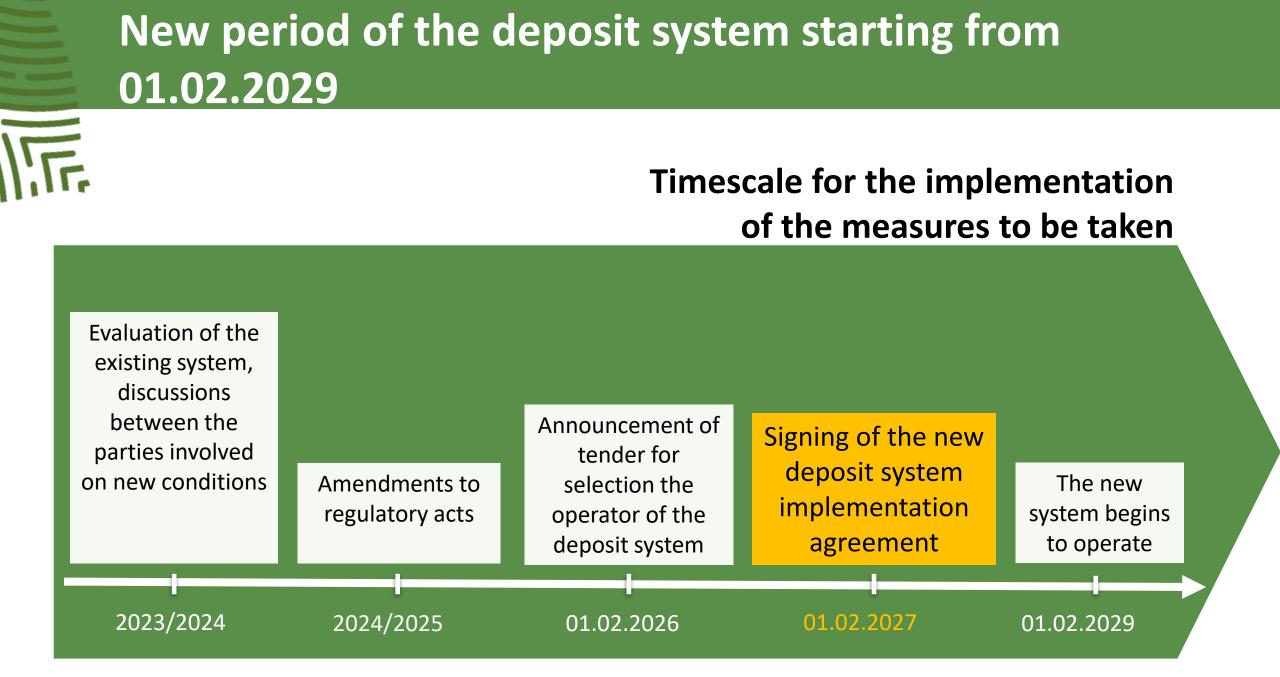
Glass collection and recycling rates (%)



Material	Packaging placed the first	Rotations per year	
	All packaging (kg)	Reusable packaging (kg)	Reusable sales packaging (kg)
Glass	15 666 720,43	8 447 100,59	21 935 373,20

Target

Collected, recycled, refilled



Thank you!

International Conference and Study Tour

Reuse and Recycling through Deposit Systems

September 25-26, 2023 Riga, Latvia

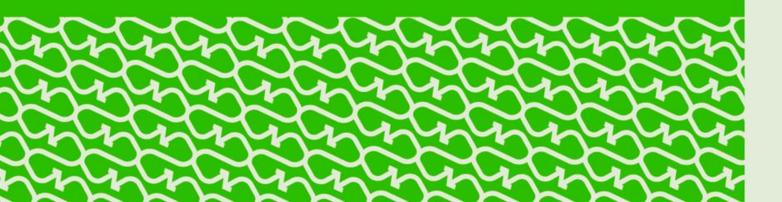
Miks Stūrītis

CEO, DIO

Deposit system and refillables in Latvia

Reuse and Recycling through Deposit Systems

conference in Riga, 26.09.2023

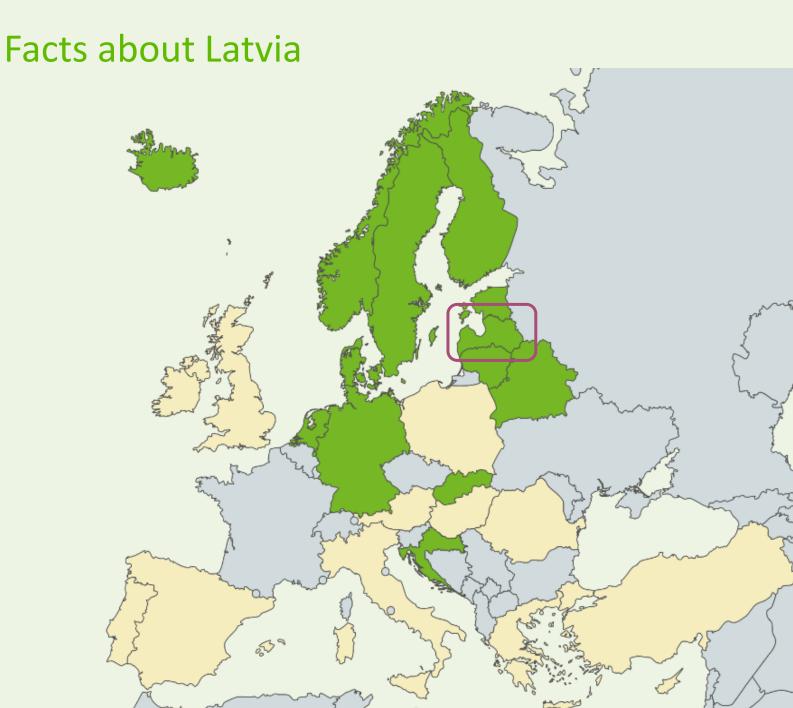




Miks Stūrītis, SIA Depozīta Iepakojuma Operators Chairman of the Board Population: ~1 884 000

Area: 64 594 km²

Annual deposit packaging volume: 500 million



Latvian deposit system

Infrastructure

- 1118 RVM's installed
- **174** outdoor kiosks installed
- **395** manual deposit points
- **590** HoReCa collection points

Partners

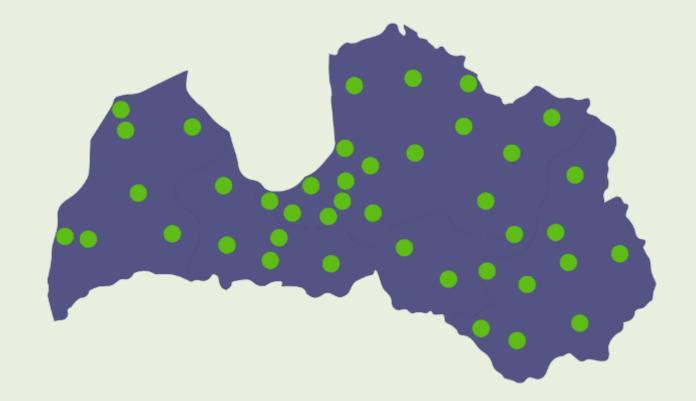
- Contracts with >400 retailers
- Contracts with >300 producers and importers

DIO team

• **20** employees

Packaging register

 > 8500 deposit products packagings registered



Latvian deposit system

Supervising authorities:

- The State Environmental Service of the Republic of Latvia
- Ministry of Environmental
 Protection and Regional
 Development of the Republic of
 Latvia
- The Public Utilities Commission



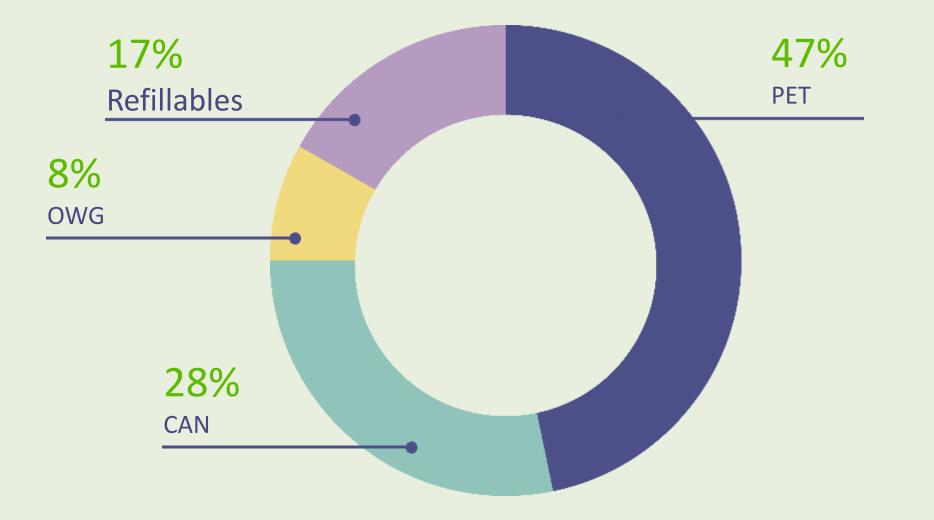
Deposit fee set for 0,10 €

What kind of packaging is included in DRS?



Deposit packages put on the market

01.02.2022.-31.08.2023.



The results





Since 01.02.2022. more than

515 million

beverage packages have been returned through deposit system

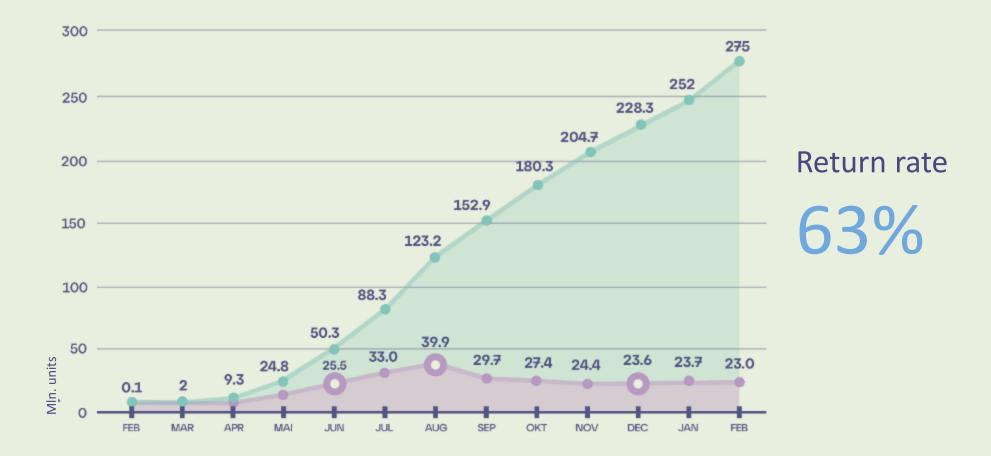


That is an average of

280 beverage packages per one Latvian resident

First year of operation

01.02.2022.-31.01.2023.



Returned per month

Returned in total

In 2023 so far

352 million

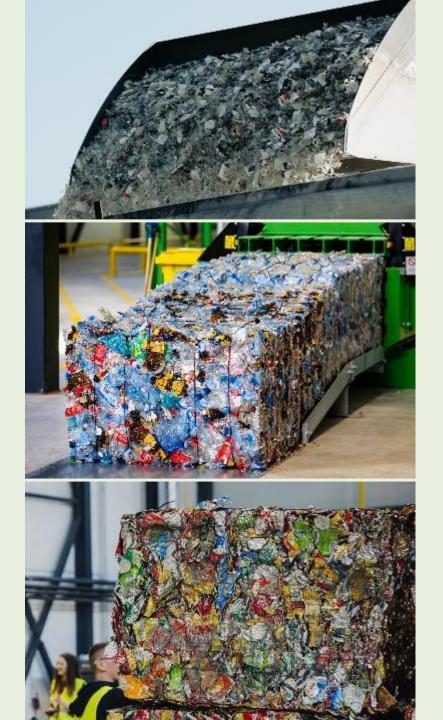
deposit packages were put on the market, but

272 million

were returned back through deposit system.

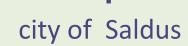
Current return rate:

77%



Collected packaging volumes

01.02.2022.-01.08.2023.



~1



tons of aluminium



tons of refillable bottles

50 810 = **1200** = tons of hectares

packaging

or

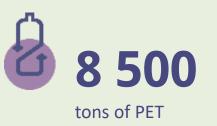
3 NY Central parks



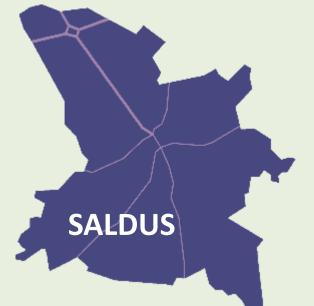
tons of steel



tons of glass (disposable)

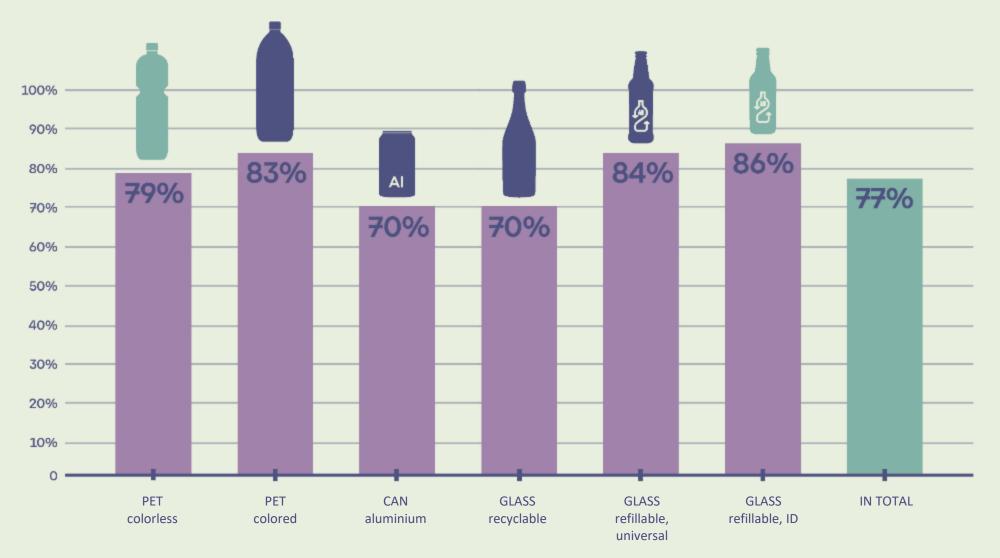


tons of PET packaging

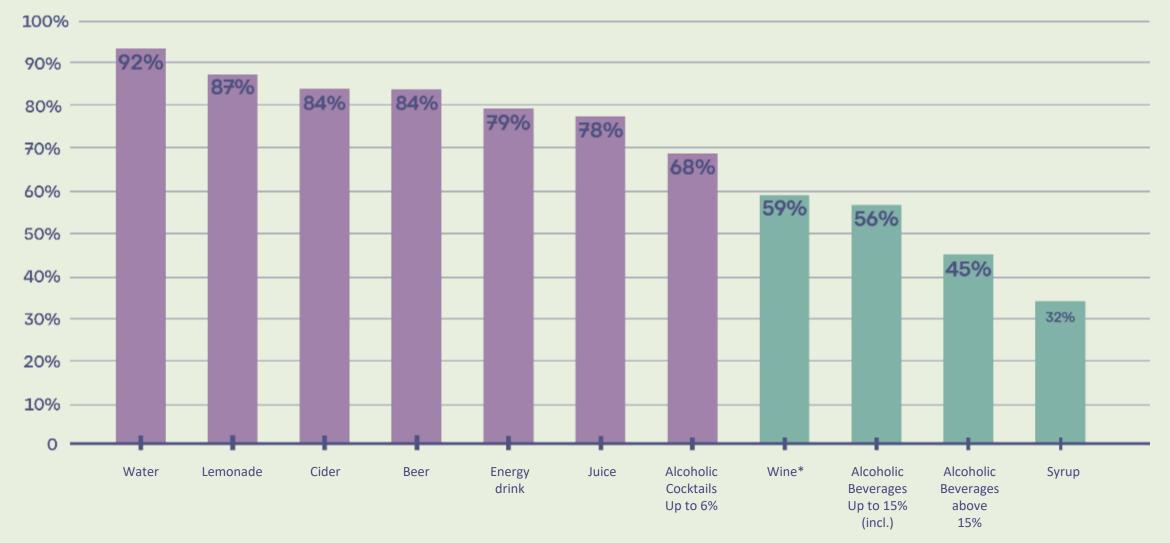




Return of packages by materials % of units 01.01.2023. - 01.09.2023.



Packaging return rates by product group 01.01.2023.-10.09.2023.



Glass packaging & refillables

184,15 million glass bottles put to the market so far

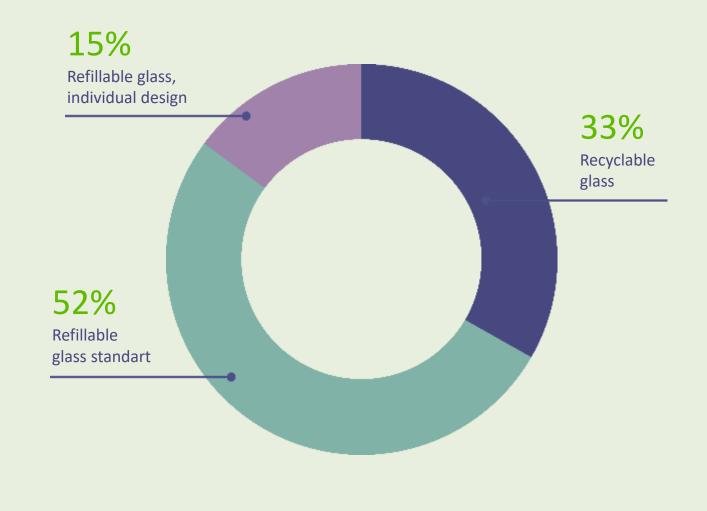
27% of all deposit packaging







Individual design refillable bottle 13 shapes



Refillable results so far

Returned to breweries

95 mln.

of refillables

Reused

30 000 t

of glass

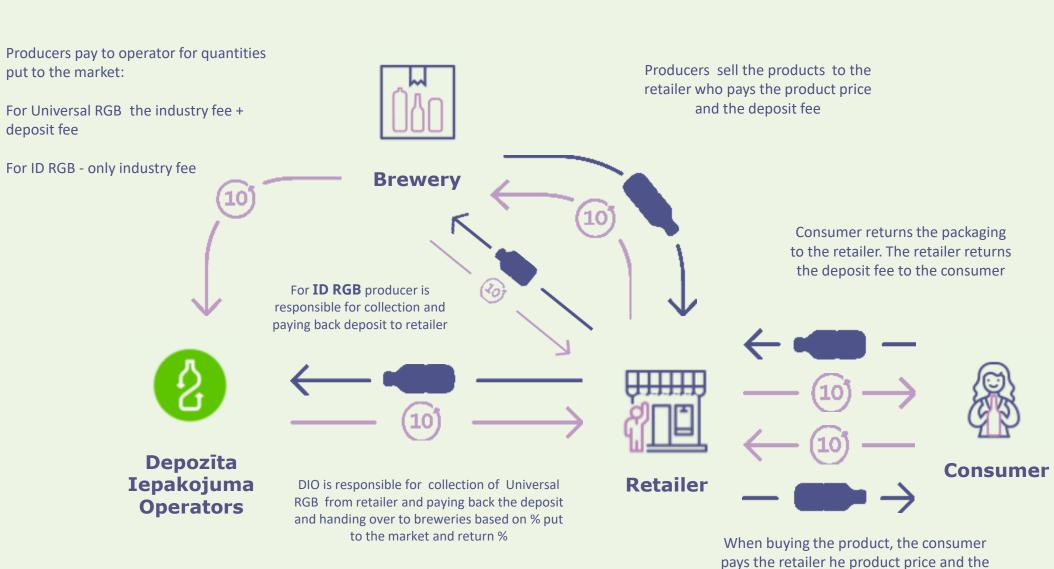
Suaal (8613	58441 (BOIS	Subal (Bdiğ
intai dalei	unsi dala	insi kabu
		DILL SUBS
eren i Bilue o	OLEN & BILLION	eksi i Silud u

Standard refillable bottle



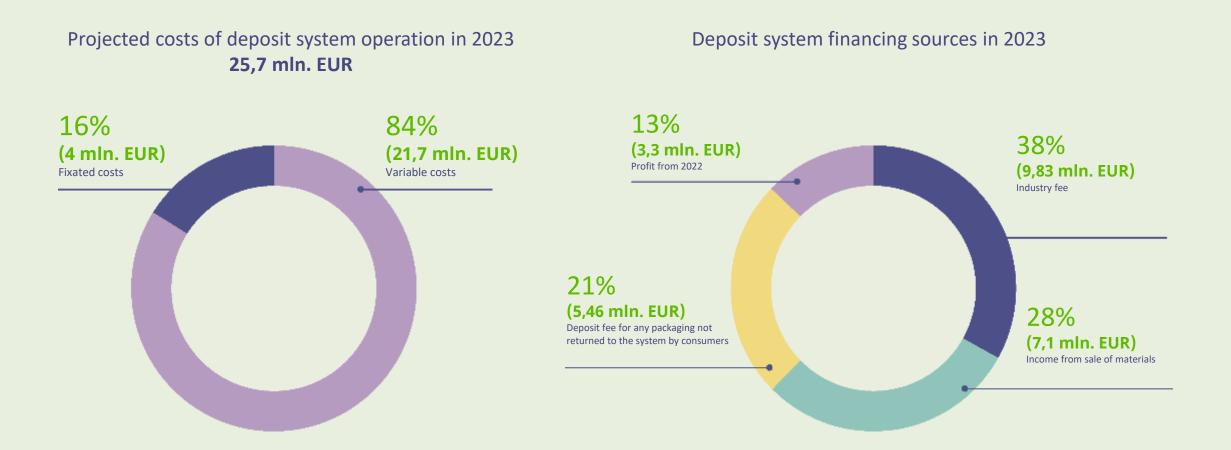
Responsibilities in refillable return





packaging deposit fee

The deposit system operates based on the zero-profit principle.



Where did the previous year's profit go?

In system development & financing of operations



202 new RVM's installed (by 22% more)



It is planned to install 3 bulk collection points in Riga



An additional glass counting device was installed



Investments in the improvement of packaging processing processes



Investments in the improvement of IT packaging accounting

Lessons learned – retailers

The participation of retailers in the deposit system is a key:

- 1. Taking responsibility for the collection;
- 2. Every day caring for the RVMs;
- **3.** Deposit system is not an extra duty, but also a competitive advantage.



Latvian residents' choice of stores is influenced by how well organized the acceptance of deposit packaging is



Lessons learned

- Support from government and authorities
- The transition period should be realistic, but as short as possible
 - Suggestion: 1 month from DS start for producers, 4 months for retailers to sell out stocks
- Antifraud measures on RVMs is a must
- Deposit sign must be significantly different from the neighboring countries





Lessons learned – work with producers and importers





Faulty labels

Shape variations

Society's habits after first 8 months of DRS operation



of Latvian residents use the deposit system regularly – at least once a month or more often The most active users of the deposit system are:

- 40-49 years old
- Living in 8 biggest cities
- 5+ people in the household
- Managers, office workers, unqualified workers

Donations option in RVMs

Deposit fee donated since Dec 2022

EUR 255 083,9

- 40,58% for children of Ukraine refugees in Latvia
- **40,24%** for pet shelters
- **19,18%** for seniors in need



Pārvērt savu taru ziedojumā vairāk nekā <u>1000</u> taromātos visā Latvijā



Thank you!



International Conference and Study Tour

Reuse and Recycling through Deposit Systems

September 25-26, 2023 Riga, Latvia

Maija Krastiņa Zero Waste Latvia

Environmental impact of the introduction of the

deposit system in Latvia

Maija Krastiņa



2023

The impact on the environment

DRS are one of the most efficient instruments to tackle plastic leakage into the oceans and the environment.

DRS can reduce drink containers in the ocean by up to 40%.

Keep the Pressure On with #BrandAudit2020



#breakfreefromplastic

THE 10 WORST PLASTIC POLLUTERS

Numbers of countries in which waste was found and pieces of waste recorded





 Annual clean up "Lielā talka"

> "Mana jurā" sea monitoring

+

#BrandAudit2020





#BrandAudit2023





2023: Latvia still cleaning up



2023: France hasn't yet closed the tap

1dechetparjour_1pieceofrubbish https://www.instagram.com/p/ClgM40RIfWC/?img_index=1

Impact on the environment: long lasting



Saving resources: refill



When properly implemented, DRS for refillables generate 50% less CO2 emissions than DRS for single-use items.

Facebook: **Zero Waste Latvija**

Instagram: @zerowastelatvija

Twitter: @ZWLatvija

info@zerowastelatvija.lv

Thank you!



International Conference and Study Tour

Reuse and Recycling through Deposit Systems





International Conference and Study Tour

Reuse and Recycling through Deposit Systems

September 25-26, 2023 R

Riga, Latvia



Under the auspices of



State Environmental Service Republic of Latvia