



Getting the most from  
DRS:

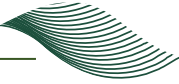
Clarissa Morawski

LISBON, PORTUGAL

February 22, 2019

# Who we are:

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Brussels-based not-for-profit association

4 founders from Industry, ENGO and Government.

Reloop is founded on the principal of working on issues which have broad support from governments, industry and ENGOs and in line with transitioning to a circular economy.

The transition to a circular economy depends on the development of **policy drivers** that keep resources within the economy.



# Working for

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1. Mandated **Minimum recycled content** in products and packaging
2. Increased market share of **reusable** consumer, transport and industrial **packaging**
3. A new **recycling calculation** which excludes all contamination & losses after sorting until final recycling
4. Introduction of **deposit return systems** for beverage containers
5. Increased **collection and sorting** system



# Membership



Front commun québécois pour une gestion écologique des déchets



Private Brauereien Deutschland



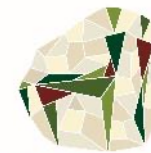
BUNDESVERBAND DES DEUTSCHEN GETRÄNKEFACHGROSSHANDELS E.V.



envision | new zealand



Zalā brīvība

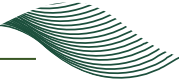


InteliConS  
CONSULTING & SUPPORT



# 5 Trend Considerations

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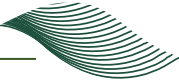


1. **Rising share of financial obligation** for producers with greater EPR minimum requirements and **litter clean up** costs.
2. Increasing need for **access to post consumer resin** to meet national recycled-content mandates in plastic beverage bottles.

25% rPet by 2025,  
30% recycled plastic by 2030




# Rising Demand in Recycled Content - rPET



- **Proctor & Gamble** – Goal to have 99% of all hair care bottles sold in Europe converted to include 25% post-consumed recycled content by the end of 2018
- **Danone / Evian** – Announced that it will make all of its plastic bottles from 100% recycled plastic by 2025
- **Ecover** – Has set a goal to use 100% recycled plastic in all bottles by 2020 and to introduce recycled content into its caps from 2018
- **Nestle** – Goal to increase its use of recycled plastics, including the use of 25% rPET in its bottles across Europe by 2025
- **Coca Cola** – Goal to have 50% recycled content in its packaging by 2030
- **Unilever** – Goal to increase use of recycled plastic content in its packaging to at least 25% by 2025 (compared to 2015)
- **Werner & Mertz** – Has committed to use 100% recycled plastic in at least 70 million bottles/year as of 2017

evian.  
commits to be a  
**100%**  
circular brand by 2025




MADE FROM  
**100%**  
RECYCLED  
PLASTIC\*

\*excludes label & cap



**PLASTIC WASTE?**

**WE'RE CRUSHING IT.**



#LETLIVECLEAN

**OUR NEW 100% RECYCLED BOTTLE**



More plastic is polluting's views.  
So meet our new reusable, 100% liquid bottle,  
made from 100% recycled PET plastic that  
you can keep recycling again and again.  
It's what we mean by clean.

#LETLIVECLEAN

### 3. Higher targets for PET Recycling



#### Voluntary Commitment/Pledges

- ✓ PET Industry target of 65% by 2030
- ✓ European Federation of Bottled Water commitment of 90% collection by 2025

#### Legislated

- ✓ PPWD: Plastic packaging recycling 55% by 2030
- ✓ SUPD Plastic beverage bottles with caps collected for recycling, 90% by 2029

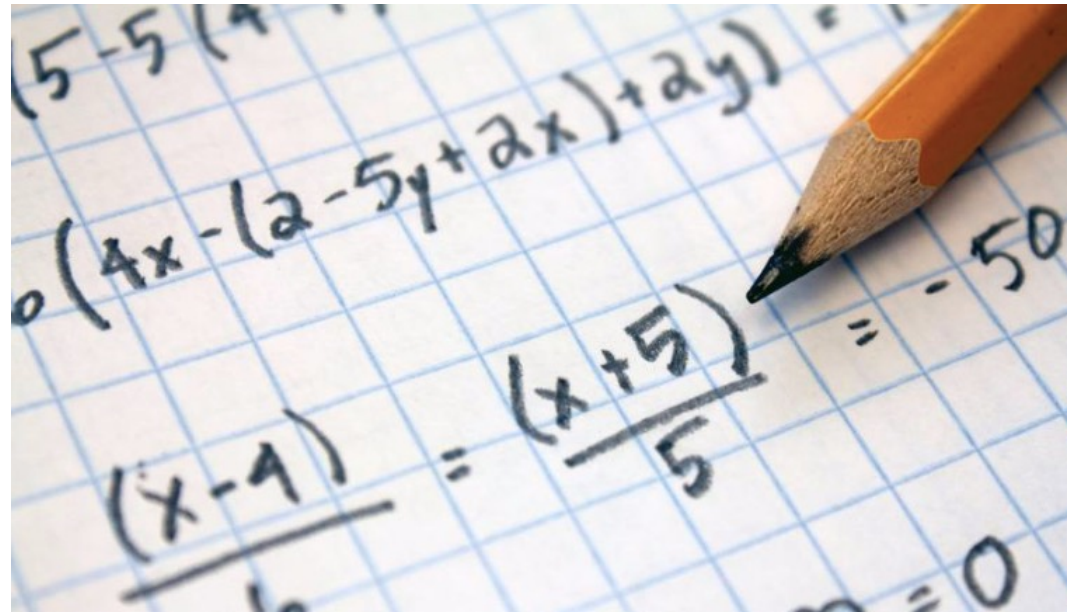
*Defined in SUPD as:*

***“Beverage bottles with a capacity of up to three litres, including their caps and lids”***



4. New recycling calculation method to **net out contaminants in collection and new rules on reporting weight of packaging waste generated.** (by spring 2019).

New methodology for calculation and verification of **“collection for recycling” target for in SUPD.** (by spring 2020).



# THE TOP TEN

## PLASTIC POLLUTERS 2018

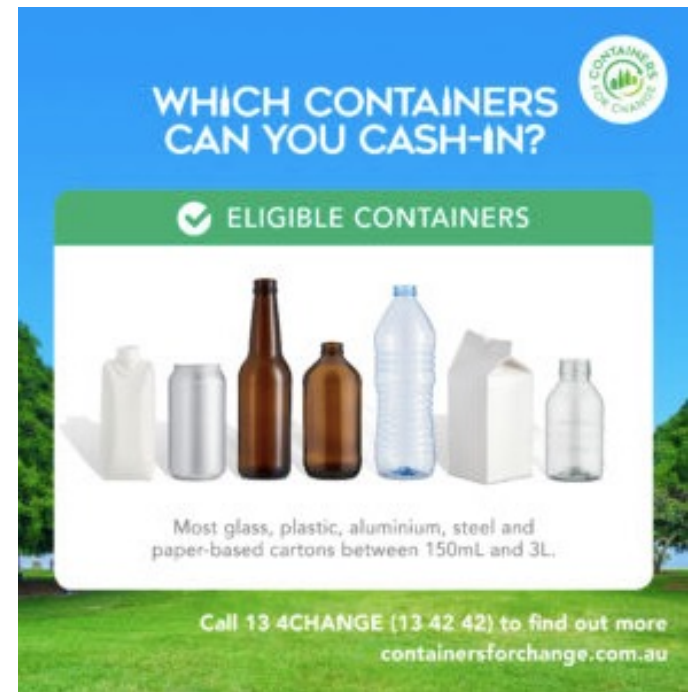


#breakfreefromplastic

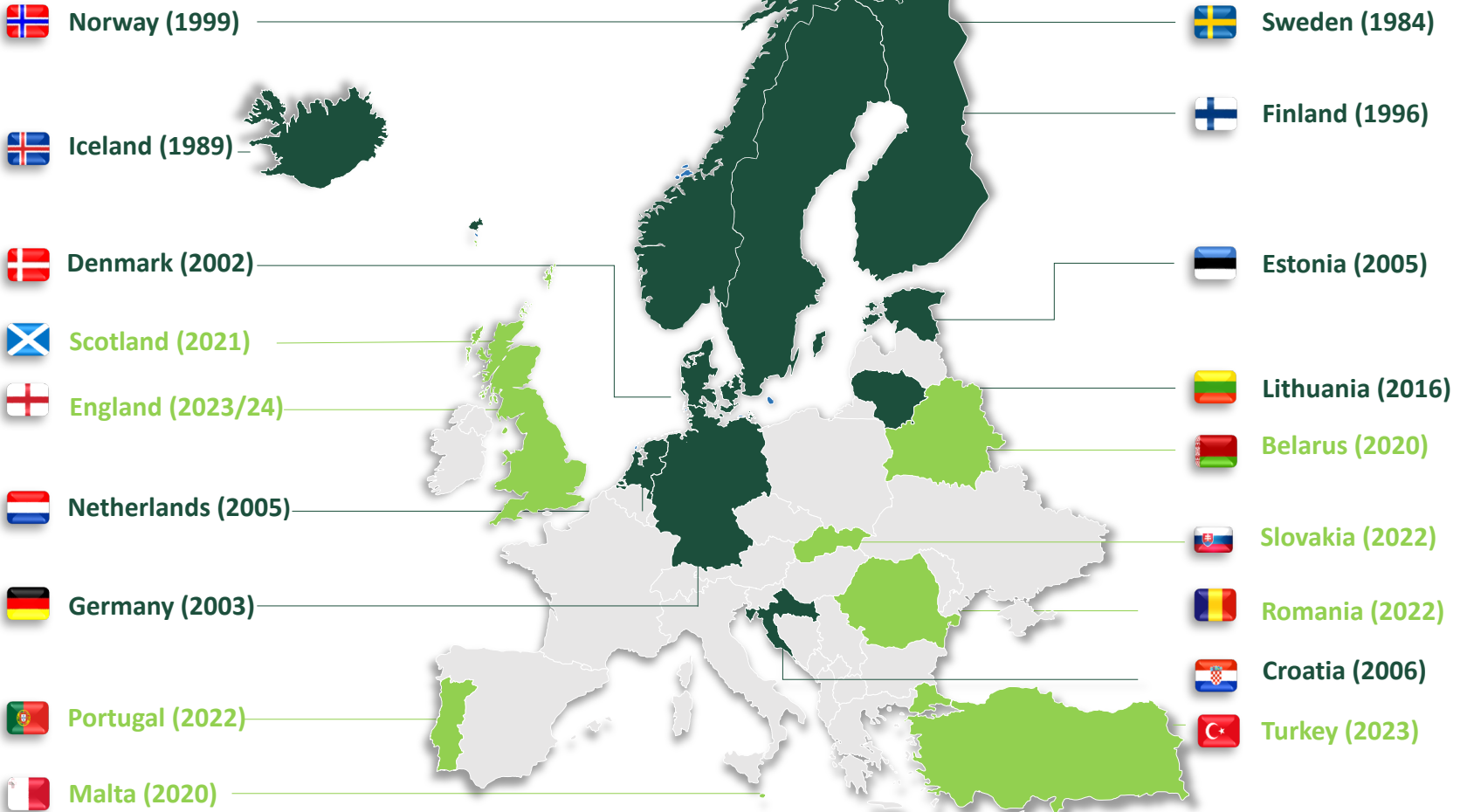
# DRS Update

# DRS Action Across the Globe

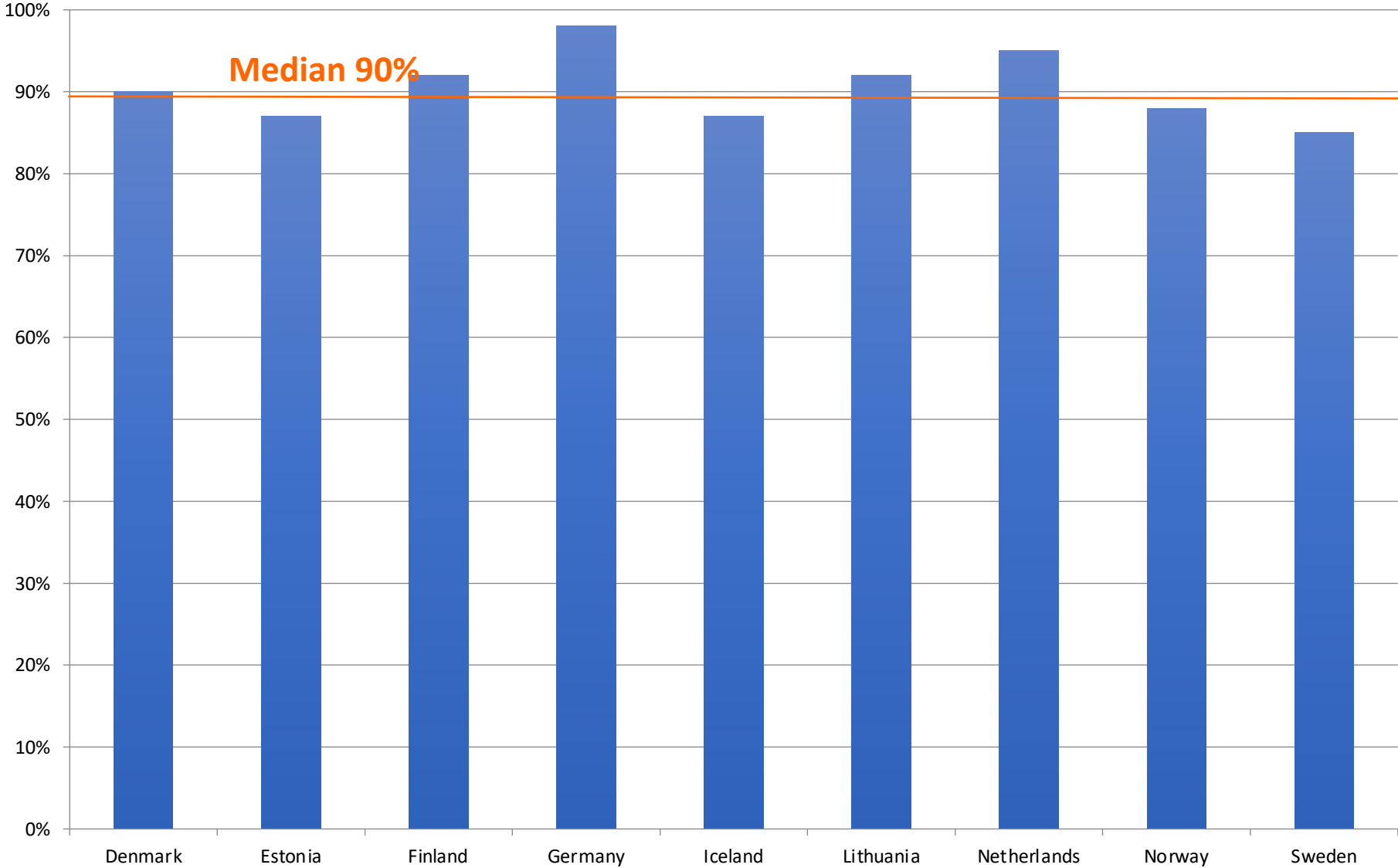
- The latest jurisdiction to implement a DRS was
- **NEW SOUTH WALES , DECEMBER 1, 2017**
- **QUEENSLAND, NOVEMBER 1, 2018**
- **WESTERN AUSTRALIA, EXPECTED BY 2020**
- **VICTORIA, LIKELY BY 2021.**



# European deposit return systems implemented and planned



# Plastic Bottle Return/Recycling Rate in 9 European Countries with Deposit Return



# *And what about the Caps ?*



Reloop asked:

*“ We are gathering some data about the percent of PET bottles which come back with caps on in a deposit return system. Can you each provide your own ranges based on your own program’s and experience?”*

**Approximately 90%-99% of plastic bottles have their caps on.**

Respondents from system operators in Norway, Estonia, Lithuania, Oregon.

The German Packaging Institute GVM did a short study/analysis on the cap topic, commissioned by IK  
Industrieverband Kunststoffverpackungen e.V.

# ter·roir

/ter'wär/

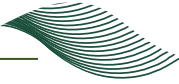








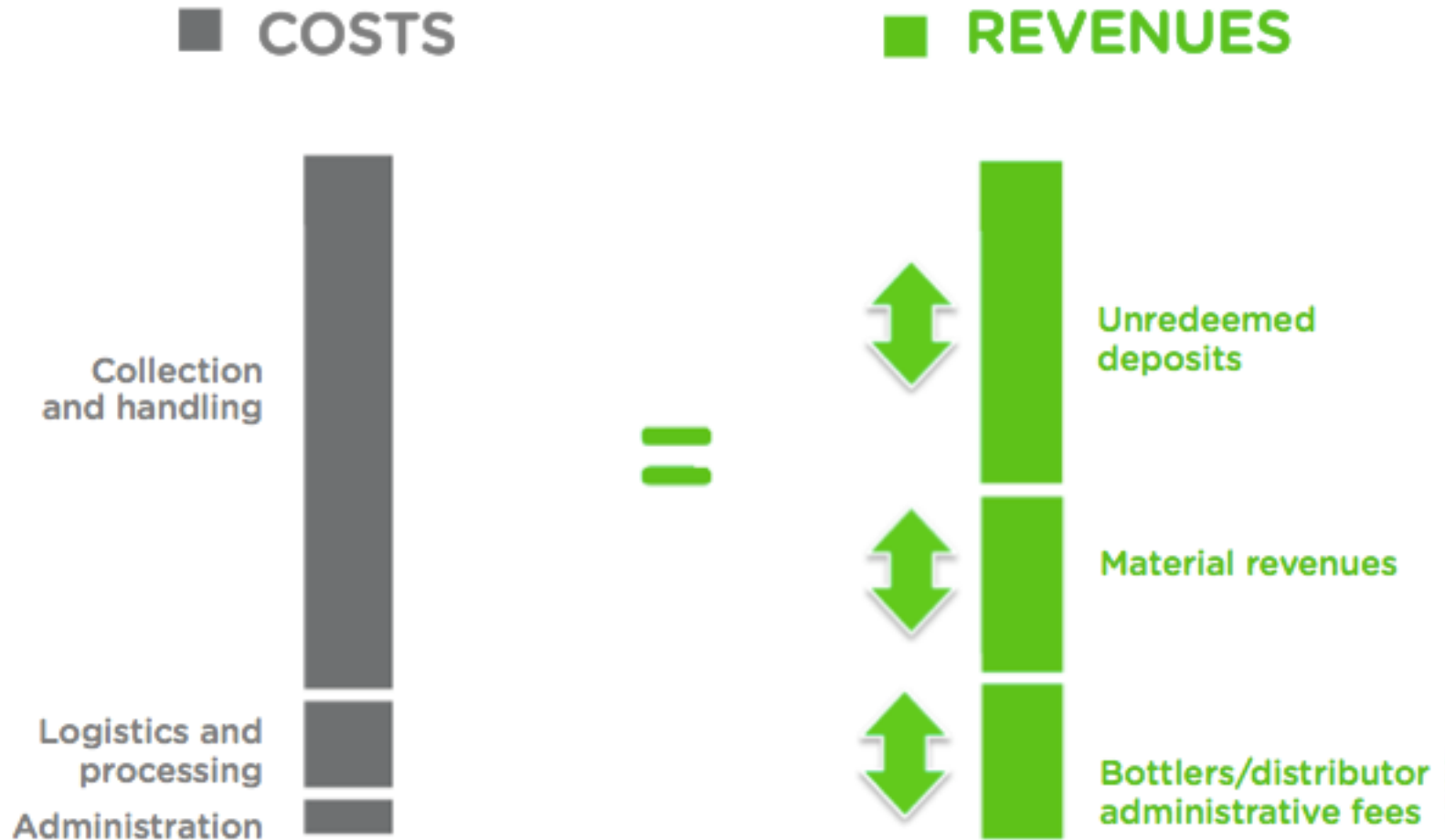
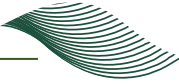
# Mechanisms which decide about success or failure of DRS



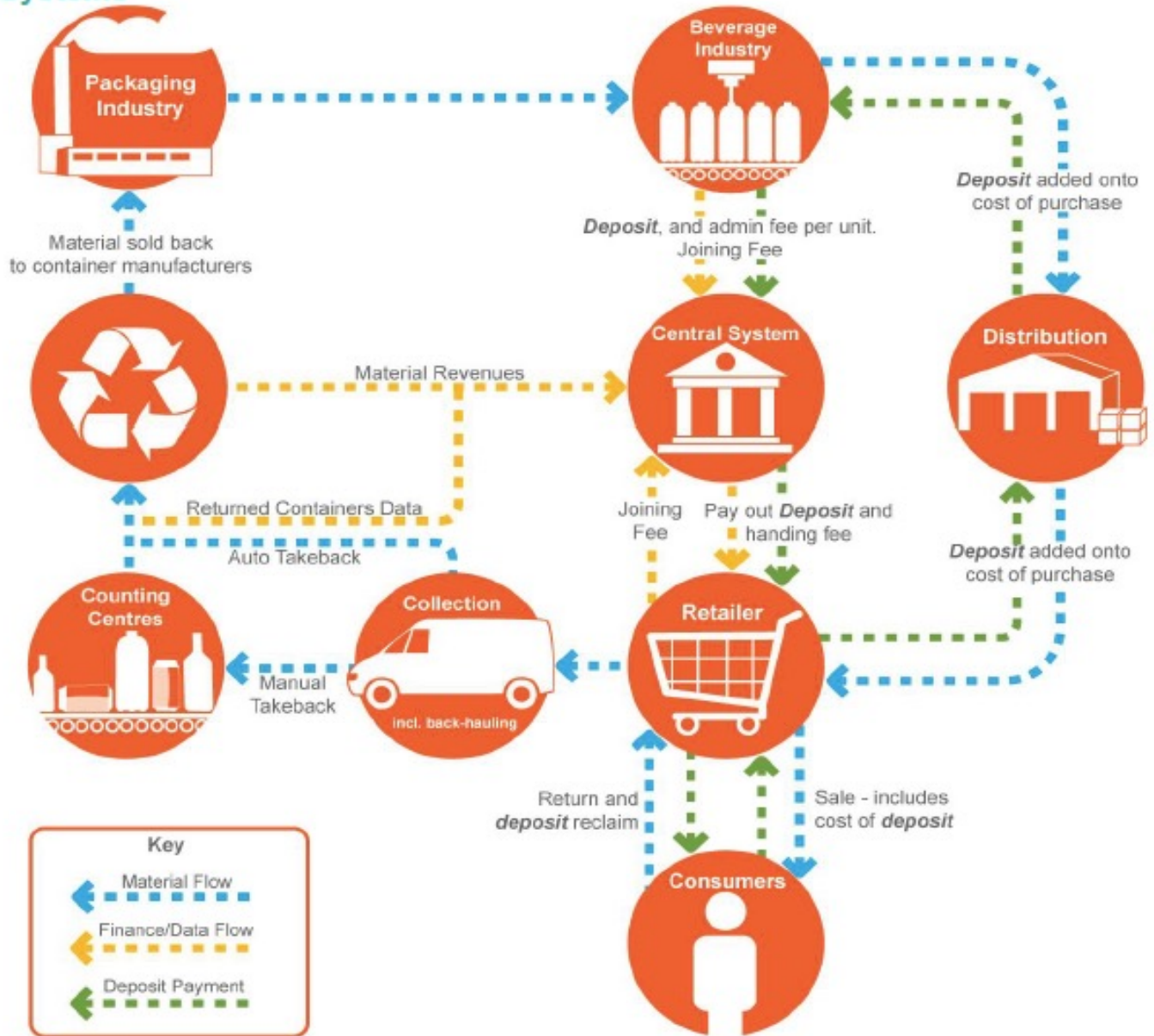
- ✓ **Deposit level** must be high enough to incentivize collection.
- ✓ **Centrally reported sales** data by size and material type.
- ✓ **Convenient collection points** / no extra trips minimal extra time to redeem containers.
- ✓ **Modern data management system** (Bar code recognition / on-site compaction).
- ✓ **Compatibility with Green Dot System** producers. Many case studies of jurisdictions which offer both comprehensive deposit return in addition to separate collection of recyclables (paper and containers).



# System Costs = Revenues



**Figure E-1: General Material and Financial Flows in Deposit Refund Systems**



Source: Eunomia (2015)

**What is the impact on  
municipal recycling?**

Study Title, Author and Year	Summary of Findings
<b>Study Title, Author and Year</b> <b>recycling and councils</b> <sup>xxii</sup> <b>Mike Ritchie &amp; Associates (prepared for Local Government Association of NSW), 2012</b>	<b>\$62M/year</b>

Study Title, Author and Year	Summary of Findings
<b>Understanding the Impacts of Vermont's Beverage Container Deposit System</b> <sup>xxiv</sup> <b>CM CONSULTING</b>	

Study Title, Author and Year	Summary of Findings
7 <b>An Assessment of the Potential Financial Impacts of a Container Deposit System on Local Government in Tasmania.</b> Equilibrium Association of Tasmania, 2013	<ul style="list-style-type: none"> <li>Reduced treatment costs: final treatment (€6,029,656, or €903 per 1,000 pop.); Waste Disposal Tax (€6,029,170, or €81 per 1,000 pop.); DMGW (€6,655,042; €75 per 1,000 pop.);</li> <li>Retain of the waste disposal tax/collection fee: €1,106,523</li> <li>Reduced street cleaning costs: €13,176,732/year (€17.95 per 1,000 pop.);</li> <li>Reduced batch cleaning costs: €590,483/year (€77 per 1,000 pop.);</li> <li>Reduced collection costs: €237,000/year (€31.73/service/year) (\$497 per 1,000 pop.);</li> <li>Reduced processing costs: \$440,000/year (€1,450 per 1,000 pop.);</li> <li>Reduced material value: \$750,000/year (€1,450 per 1,000 pop.);</li> <li>Improved material value: \$250,000/year (€327.77/service/year) (\$497 per 1,000 pop.);</li> <li>Net savings: \$1.3M/year (€3,514 per 1,000 pop.);</li> <li>Net savings: €1.3M/year (€3,514 per 1,000 pop.);</li> <li>Reduced processing costs: \$440,000/year (€1,450 per 1,000 pop.);</li> <li>Improved material value: \$250,000/year (€327.77/service/year) (\$497 per 1,000 pop.);</li> <li>Net savings: €1.3M/year (€3,514 per 1,000 pop.);</li> <li>Reduced litter management costs: \$80,000/year (€837 per 1,000 pop.);</li> <li>Reduced collection costs: €24,242/year (€637 per 1,000 pop.);</li> <li>Net savings: €35,372/year (€637 per 1,000 pop.);</li> <li>Net savings: €35,372/year (€637 per 1,000 pop.);</li> <li>Reduced litter management costs: €1,240/year (€1.73 per 1,000 pop.);</li> <li>Net savings: €35,372/year (€637 per 1,000 pop.);</li> <li>Reduced litter management costs: €1,240/year (€1.73 per 1,000 pop.);</li> <li>Net savings: €35,372/year (€637 per 1,000 pop.);</li> <li>Reduced litter management costs: €1,240/year (€1.73 per 1,000 pop.);</li> <li>Net savings: €35,372/year (€637 per 1,000 pop.);</li> </ul>
8 <b>Executive Summary: Report on the Temporary Implementation of a Deposit and Return Scheme in Catalonia.</b> Retoma, 2015	<ul style="list-style-type: none"> <li>Estimated value of litter reduction: \$85,000 to \$1.3M (€1,301 per 1,000 pop.);</li> <li>Net savings: \$1.1M to \$1.3M (€1,730 to \$18,050 per 1,000 pop.);</li> <li>Estimated value of litter reduction: \$85,000 to \$1.3M (€1,301 per 1,000 pop.);</li> <li>Net savings: \$1.1M to \$1.3M (€1,730 to \$18,050 per 1,000 pop.);</li> <li>Estimated value of litter reduction: \$85,000 to \$1.3M (€1,301 per 1,000 pop.);</li> <li>Net savings: \$1.1M to \$1.3M (€1,730 to \$18,050 per 1,000 pop.);</li> <li>Estimated value of litter reduction: \$85,000 to \$1.3M (€1,301 per 1,000 pop.);</li> <li>Net savings: \$1.1M to \$1.3M (€1,730 to \$18,050 per 1,000 pop.);</li> </ul>
9 <b>Comparison of System Costs and Material Recovery Rates: Implementation of Universal Single Stream Recycling With and without Beverage Container Deposits - Draft Report.</b> GH Environmental (prepared for Vermont Agency of Natural Resources), 2015	<ul style="list-style-type: none"> <li>Recycling savings: \$9 to \$24/household</li> <li>Potential savings for local governments: \$29M/year to \$23M/year (\$3,010 to \$8,915 per 1,000 pop.)<sup>21</sup></li> <li>Increased material revenues: \$2.3M (\$3,674 per 1,000 pop.)<sup>22</sup></li> <li>Reduced garbage, recycling, and litter management costs: \$10M/year (beyond the scope of this study); however, materials management in Vermont is estimated to cost \$90/ton to \$100/ton for disposal and \$1,200/ton for litter collection.</li> <li>Total savings to municipality: \$27M/year to \$39M/year (€1,227 to \$1,587 per 1,000 pop.)<sup>23</sup></li> <li>Net savings: \$27M to \$39M (€1,227 to \$1,587 per 1,000 pop.)</li> <li>Net savings: \$27M to \$39M (€1,227 to \$1,587 per 1,000 pop.)</li> <li>Net savings: \$27M to \$39M (€1,227 to \$1,587 per 1,000 pop.)</li> <li>Net savings: \$27M to \$39M (€1,227 to \$1,587 per 1,000 pop.)</li> </ul>
10 <b>The Impacts (Cost/Benefits) of the Introduction of a Container Deposit/Return System (CDS) on Recycling and Waste Management.</b> Mike Ritchie & Associates (prepared for Local Government Association of NSW), 2012	<ul style="list-style-type: none"> <li>Increased material revenues: \$2.3M (\$3,674 per 1,000 pop.)<sup>22</sup></li> <li>Reduced garbage, recycling, and litter management costs: \$10M/year (beyond the scope of this study); however, materials management in Vermont is estimated to cost \$90/ton to \$100/ton for disposal and \$1,200/ton for litter collection.</li> <li>Total savings to municipality: \$27M/year to \$39M/year (€1,227 to \$1,587 per 1,000 pop.)<sup>23</sup></li> <li>Net savings: \$27M to \$39M (€1,227 to \$1,587 per 1,000 pop.)</li> <li>Net savings: \$27M to \$39M (€1,227 to \$1,587 per 1,000 pop.)</li> <li>Net savings: \$27M to \$39M (€1,227 to \$1,587 per 1,000 pop.)</li> <li>Net savings: \$27M to \$39M (€1,227 to \$1,587 per 1,000 pop.)</li> </ul>
11 <b>Understanding the Impacts of Expanding Vermont's Beverage Container Program.</b> CM Consulting (prepared for Vermont Public Research Interest Group (VPIRG)), 2012	<ul style="list-style-type: none"> <li>Over 20 years, a CDS is estimated to result in:</li> <li>Avoided collection, transport and litter clean up: \$247M</li> <li>Other avoided costs (landfill and recycling costs): \$2.72 billion</li> <li>Reduced recycling/MRF processing costs: \$6,277,919 (\$1,102 per 1,000 pop.)</li> <li>Reduced waste costs (landfill gate fee and levy): \$5,070,851 (\$850 per 1,000 pop.)</li> <li>Reduced litter collection costs: \$8.8M (\$1,475 per 1,000 pop.)</li> </ul>
12 <b>Packaging Impact Constabulary Regulation and Consulting (prepared for Retoma), 2012</b>	<ul style="list-style-type: none"> <li>Over 20 years, a CDS is estimated to result in:</li> <li>Avoided collection, transport and litter clean up: \$247M</li> <li>Other avoided costs (landfill and recycling costs): \$2.72 billion</li> <li>Reduced recycling/MRF processing costs: \$6,277,919 (\$1,102 per 1,000 pop.)</li> <li>Reduced waste costs (landfill gate fee and levy): \$5,070,851 (\$850 per 1,000 pop.)</li> <li>Reduced litter collection costs: \$8.8M (\$1,475 per 1,000 pop.)</li> </ul>
13 <b>Tearing Publish into Community Money: The Benefits of a Deposit System on Drink Containers in Victoria.</b> Office of Colleen Hartland HCL, 2011	<ul style="list-style-type: none"> <li>Over 20 years, a CDS is estimated to result in:</li> <li>Avoided collection, transport and litter clean up: \$247M</li> <li>Other avoided costs (landfill and recycling costs): \$2.72 billion</li> <li>Reduced recycling/MRF processing costs: \$6,277,919 (\$1,102 per 1,000 pop.)</li> <li>Reduced waste costs (landfill gate fee and levy): \$5,070,851 (\$850 per 1,000 pop.)</li> <li>Reduced litter collection costs: \$8.8M (\$1,475 per 1,000 pop.)</li> </ul>

Study Title, Author and Year	Summary of Findings
15 <b>Have We Got the Bottles Implementing a Deposit Return Scheme in the UK? Findings from Research &amp; Consulting (prepared for the Campaign to Protect Rural England), 2010</b>	<ul style="list-style-type: none"> <li>Net savings: \$32,925,183/year (€5,468 per 1,000 pop.)</li> <li>Complementary DRS revenue</li> <li>Reduced recycling collection costs: €129M/year (€1,982 per 1,000 pop.)</li> <li>Reduced household waste recycling costs (MWRCC) costs: €94M/year (€1,315 per 1,000 pop.)</li> <li>Reduced litter collection costs: €27M/year (€415 per 1,000 pop.)</li> <li>Net savings: €159M/year (€2,463 per 1,000 pop.)</li> </ul>
16 <b>Analysis of the Impact of an Expanded Bottle Deposit System on Recycling and Environmental Protection (MassDEP), 2009</b>	<ul style="list-style-type: none"> <li>Net savings: \$3,737,921/year (€559 per 1,000 pop.)</li> <li>Reduced recycling collection costs: €129M/year (€1,982 per 1,000 pop.)</li> <li>Reduced household waste recycling costs (MWRCC) costs: €94M/year (€1,315 per 1,000 pop.)</li> <li>Reduced litter collection costs: €27M/year (€415 per 1,000 pop.)</li> <li>Net savings: €159M/year (€2,463 per 1,000 pop.)</li> </ul>
17 <b>Analysis of Beverage Container Redemption System Options to Increase Municipal Recycling in Rhode Island.</b> GH Environmental (prepared for Rhode Island Resource Recovery Corporation), 2009	<ul style="list-style-type: none"> <li>Net savings: \$1.7M/year (€2,355 per 1,000 pop.)</li> <li>Reduced disposal costs: \$170,000/year (€224 per 1,000 pop.)</li> <li>Reduced recycling costs: \$13M/year (€1,725 per 1,000 pop.)</li> <li>Net savings: \$13,000,000/year (\$195,000 per 1,000 pop.)</li> <li>Net savings: \$13,000,000/year (\$195,000 per 1,000 pop.)</li> <li>Net savings: \$13,000,000/year (\$195,000 per 1,000 pop.)</li> <li>Net savings: \$13,000,000/year (\$195,000 per 1,000 pop.)</li> <li>Net savings: \$13,000,000/year (\$195,000 per 1,000 pop.)</li> </ul>
18 <b>Beverage Container Investigation</b> , BDA Group (prepared for the ERIC Beverage Container Working Group), 2008	<ul style="list-style-type: none"> <li>Net savings: \$1.7M/year (€2,355 per 1,000 pop.)</li> <li>Reduced disposal costs: \$170,000/year (€224 per 1,000 pop.)</li> <li>Reduced recycling costs: \$13M/year (€1,725 per 1,000 pop.)</li> <li>Net savings: \$13,000,000/year (\$195,000 per 1,000 pop.)</li> <li>Net savings: \$13,000,000/year (\$195,000 per 1,000 pop.)</li> <li>Net savings: \$13,000,000/year (\$195,000 per 1,000 pop.)</li> <li>Net savings: \$13,000,000/year (\$195,000 per 1,000 pop.)</li> <li>Net savings: \$13,000,000/year (\$195,000 per 1,000 pop.)</li> </ul>
19 <b>City of Toronto Staff Report: Amendments to Processing Fee Due to CDS Deposit Return Program.</b> City of Toronto General Manager, Solid Waste Management Services (prepared for Public Works and Infrastructure Committee), 2008	<ul style="list-style-type: none"> <li>Net savings: \$447,918 (€161 per 1,000 pop.)</li> <li>Net savings: \$447,918 (€161 per 1,000 pop.)</li> <li>Net savings: \$447,918 (€161 per 1,000 pop.)</li> <li>Net savings: \$447,918 (€161 per 1,000 pop.)</li> <li>Net savings: \$447,918 (€161 per 1,000 pop.)</li> <li>Net savings: \$447,918 (€161 per 1,000 pop.)</li> <li>Net savings: \$447,918 (€161 per 1,000 pop.)</li> <li>Net savings: \$447,918 (€161 per 1,000 pop.)</li> </ul>
20 <b>Economic &amp; Environmental Benefits of a Deposit System for Beverage Containers in the State of Washington.</b> Jeffrey Morris (Sound Resource Management Group, Bill Smith (City of Tacoma), and Rick Hanks (Green Solutions) (prepared for City of Tacoma Solid Waste Management), 2008	<ul style="list-style-type: none"> <li>Net savings: \$24,050 (€3,287 per 1,000 pop.)</li> <li>Net savings: \$24,050 (€3,287 per 1,000 pop.)</li> <li>Net savings: \$24,050 (€3,287 per 1,000 pop.)</li> <li>Net savings: \$24,050 (€3,287 per 1,000 pop.)</li> <li>Net savings: \$24,050 (€3,287 per 1,000 pop.)</li> <li>Net savings: \$24,050 (€3,287 per 1,000 pop.)</li> <li>Net savings: \$24,050 (€3,287 per 1,000 pop.)</li> <li>Net savings: \$24,050 (€3,287 per 1,000 pop.)</li> </ul>

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1 <b>Summary Review of the Impacts of Container Deposit Schemes on Australia.</b> MIRA (prepared for Local Government Association of NSW), 2012	<ul style="list-style-type: none"> <li>Reduced landfill gate fee: \$10.1M/year (€5,462 per 1,000 pop.)</li> <li>Reduced recycling costs: \$2.9M/year (€3,922 per 1,000 pop.)</li> <li>Reduced litter collection costs: \$9.9M/year (€13,336 per 1,000 pop.)</li> <li>Net savings: \$4.3M/year (€5,736 per 1,000 pop.)</li> </ul>
2 <b>The Incentive to Recycle: The Case for a Deposit System in New Zealand.</b> Environmental New Zealand Ltd., 2015	<ul style="list-style-type: none"> <li>Net savings: \$4.3M/year (€5,736 per 1,000 pop.)</li> <li>Reduced landfill gate fee: \$10.1M/year (€5,462 per 1,000 pop.)</li> <li>Reduced recycling costs: \$2.9M/year (€3,922 per 1,000 pop.)</li> <li>Reduced litter collection costs: \$9.9M/year (€13,336 per 1,000 pop.)</li> <li>Net savings: \$4.3M/year (€5,736 per 1,000 pop.)</li> <li>Net savings: \$4.3M/year (€5,736 per 1,000 pop.)</li> <li>Net savings: \$4.3M/year (€5,736 per 1,000 pop.)</li> <li>Net savings: \$4.3M/year (€5,736 per 1,000 pop.)</li> </ul>
3 <b>A Scottish Deposit Return System: Feasibility Research &amp; Consulting (prepared for Zero Waste Scotland), 2015</b>	<ul style="list-style-type: none"> <li>Net savings: \$4.3M/year (€5,736 per 1,000 pop.)</li> <li>Reduced landfill gate fee: \$10.1M/year (€5,462 per 1,000 pop.)</li> <li>Reduced recycling costs: \$2.9M/year (€3,922 per 1,000 pop.)</li> <li>Reduced litter collection costs: \$9.9M/year (€13,336 per 1,000 pop.)</li> <li>Net savings: \$4.3M/year (€5,736 per 1,000 pop.)</li> <li>Net savings: \$4.3M/year (€5,736 per 1,000 pop.)</li> <li>Net savings: \$4.3M/year (€5,736 per 1,000 pop.)</li> <li>Net savings: \$4.3M/year (€5,736 per 1,000 pop.)</li> </ul>
4 <b>Cost-Benefit Analysis of a Recycling Deposit System in Wisconsin.</b> Retoma Research (prepared for Wisconsin Recycling Authority), 2012	<ul style="list-style-type: none"> <li>Net savings: \$4.3M/year (€5,736 per 1,000 pop.)</li> <li>Reduced landfill gate fee: \$10.1M/year (€5,462 per 1,000 pop.)</li> <li>Reduced recycling costs: \$2.9M/year (€3,922 per 1,000 pop.)</li> <li>Reduced litter collection costs: \$9.9M/year (€13,336 per 1,000 pop.)</li> <li>Net savings: \$4.3M/year (€5,736 per 1,000 pop.)</li> <li>Net savings: \$4.3M/year (€5,736 per 1,000 pop.)</li> <li>Net savings: \$4.3M/year (€5,736 per 1,000 pop.)</li> <li>Net savings: \$4.3M/year (€5,736 per 1,000 pop.)</li> </ul>
5 <b>Executive Summary: Implementing a Deposit and Return Scheme in Catalonia.</b> Retoma, 2015	<ul style="list-style-type: none"> <li>Net savings: \$4.3M/year (€5,736 per 1,000 pop.)</li> <li>Reduced landfill gate fee: \$10.1M/year (€5,462 per 1,000 pop.)</li> <li>Reduced recycling costs: \$2.9M/year (€3,922 per 1,000 pop.)</li> <li>Reduced litter collection costs: \$9.9M/year (€13,336 per 1,000 pop.)</li> <li>Net savings: \$4.3M/year (€5,736 per 1,000 pop.)</li> <li>Net savings: \$4.3M/year (€5,736 per 1,000 pop.)</li> <li>Net savings: \$4.3M/year (€5,736 per 1,000 pop.)</li> <li>Net savings: \$4.3M/year (€5,736 per 1,000 pop.)</li> </ul>
6 <b>Community Drinking Containers in California.</b> Office of Colleen Hartland	<ul style="list-style-type: none"> <li>Net savings: \$4.3M/year (€5,736 per 1,000 pop.)</li> <li>Reduced landfill gate fee: \$10.1M/year (€5,462 per 1,000 pop.)</li> <li>Reduced recycling costs: \$2.9M/year (€3,922 per 1,000 pop.)</li> <li>Reduced litter collection costs: \$9.9M/year (€13,336 per 1,000 pop.)</li> <li>Net savings: \$4.3M/year (€5,736 per 1,000 pop.)</li> <li>Net savings: \$4.3M/year (€5,736 per 1,000 pop.)</li> <li>Net savings: \$4.3M/year (€5,736 per 1,000 pop.)</li> <li>Net savings: \$4.3M/year (€5,736 per 1,000 pop.)</li> </ul>

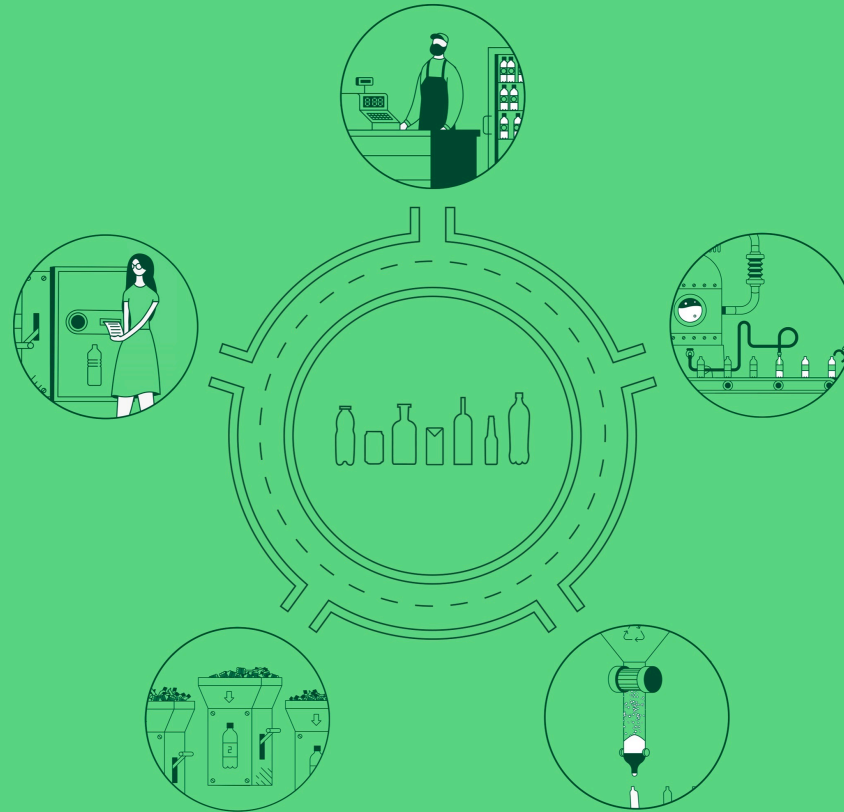
- to result in:
- transport and recycling costs:
- to result in:
- transport and recycling costs:
- Reduced recycling/MRF processing costs: \$6,577,919 (\$1,102 per 1,000 pop.)<sup>xxxi</sup>
  - Reduced waste costs (landfill gate fee and levy): \$5,070,851 (\$850 per 1,000 pop.)
  - Reduced litter collection costs: \$8.8M (\$1,475 per 1,000 pop.)
- to result in:
- transport and recycling costs:
- to result in:
- transport and recycling costs:
- to result in:
- transport and recycling costs:

All 27 Studies show “net savings” for municipalities



# DEPOSIT SYSTEMS FOR ONE-WAY BEVERAGE CONTAINERS: GLOBAL OVERVIEW

2018





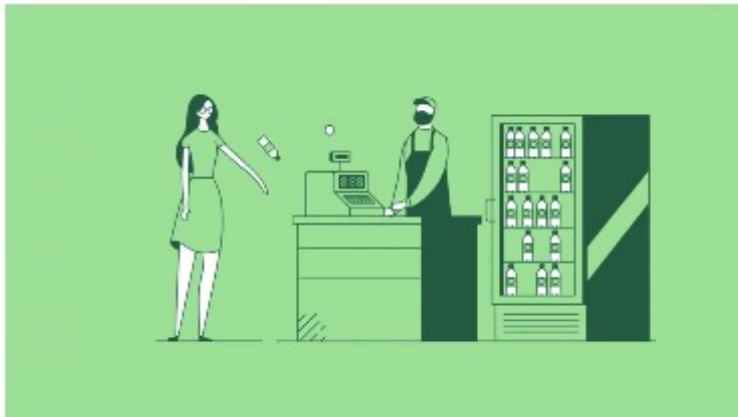
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