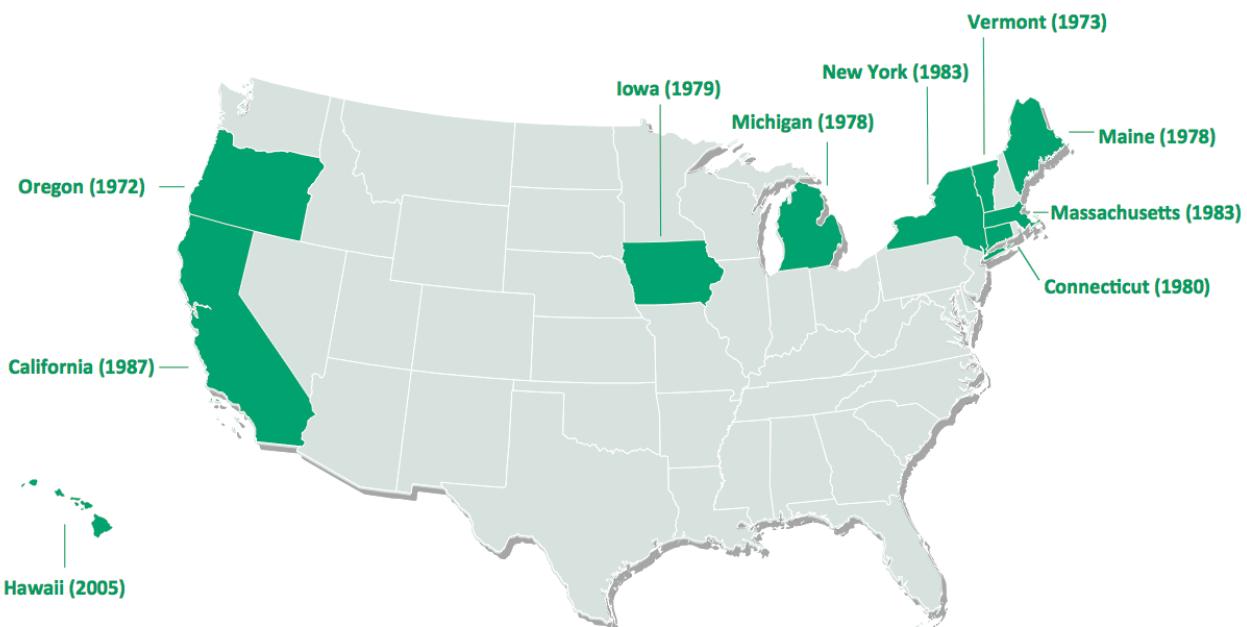


# USA

(88.6 million have access to DRS)



State	Population (million)	Mandate Enacted	Mandate Implemented
1. California	38.8	1986	1987
2. Connecticut	3.6	1978	1980, 2009 (Water)
3. Hawaii	1.3	2002	2005
4. Iowa	3.1	1978	1979
5. Maine	1.3	1976	1978
6. Massachusetts	6.6	1981	1983
7. Michigan	9.9	1976	1978
8. New York	19.5	1982	1983, 2009 (Water)
9. Oregon	3.9	1971	1972
10. Vermont	0.6	1972	1973

# CALIFORNIA

Population: 38m

Website: [www.calrecycle.ca.gov/bevcontainer/](http://www.calrecycle.ca.gov/bevcontainer/)



## MANDATE

California Beverage Container Recycling and Litter Reduction Act

Enacted:	1986
Implemented:	1987
Last Updated:	2012 (Enforcement & Payments)
Authority:	Department of Conservation (CalRecycle)
Target:	80% Recycling Rate

## PROGRAM SCOPE

Material:	Plastic, metal (aluminum), bimetal, glass
Beverage type:	Beer; malt; wine and distilled spirits; all non-alcoholic beverages
Excluded:	Milk; 100% fruit juice ≥46 oz.; vegetable juice ≥16 oz; refillables

## DEPOSITS AND FEES

Deposit:	Initiated by Producer/Distributor/Importer
Deposit value:	Containers < 24oz: USD \$0.05 Containers ≥ 24oz: USD \$0.10
Unredeemed deposits:	Escheated to state, used for program administration
Handling fee:	Paid to the operators of supermarket redemption sites to help cover the costs of operating the redemption system
Processing Fee (PF):	Paid by beverage manufacturers to the Department of Conservation, per container sold
Processing Payments:	Made to all certified recyclers and processors (by the Department) when the cost of recycling exceeds the value of material, per ton redeemed

## SYSTEM OPERATOR

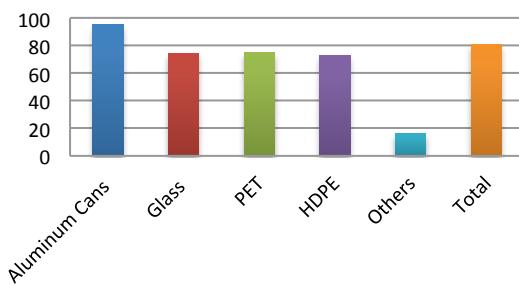
Clearing System:	Centralized
System Operator & Administrator:	CalRecycle (Government Operated)

## REDEMPTION SYSTEM

Return-to-Retail (25%)	Return-to-retail obligation with opt-out if certified recycling center is located in a Convenience Zone (CZ); non-handling fee recycling centers; curbside/drop-off recycling programs. CRV may be calculated by weight.
Return to certified recycler (55%-65%)	2,578 Recycling Centers (2012), 1,376 of which are CZ recyclers.
"Donate" to Curbside (15%-20%)	
Material owner:	Processor, Curbside

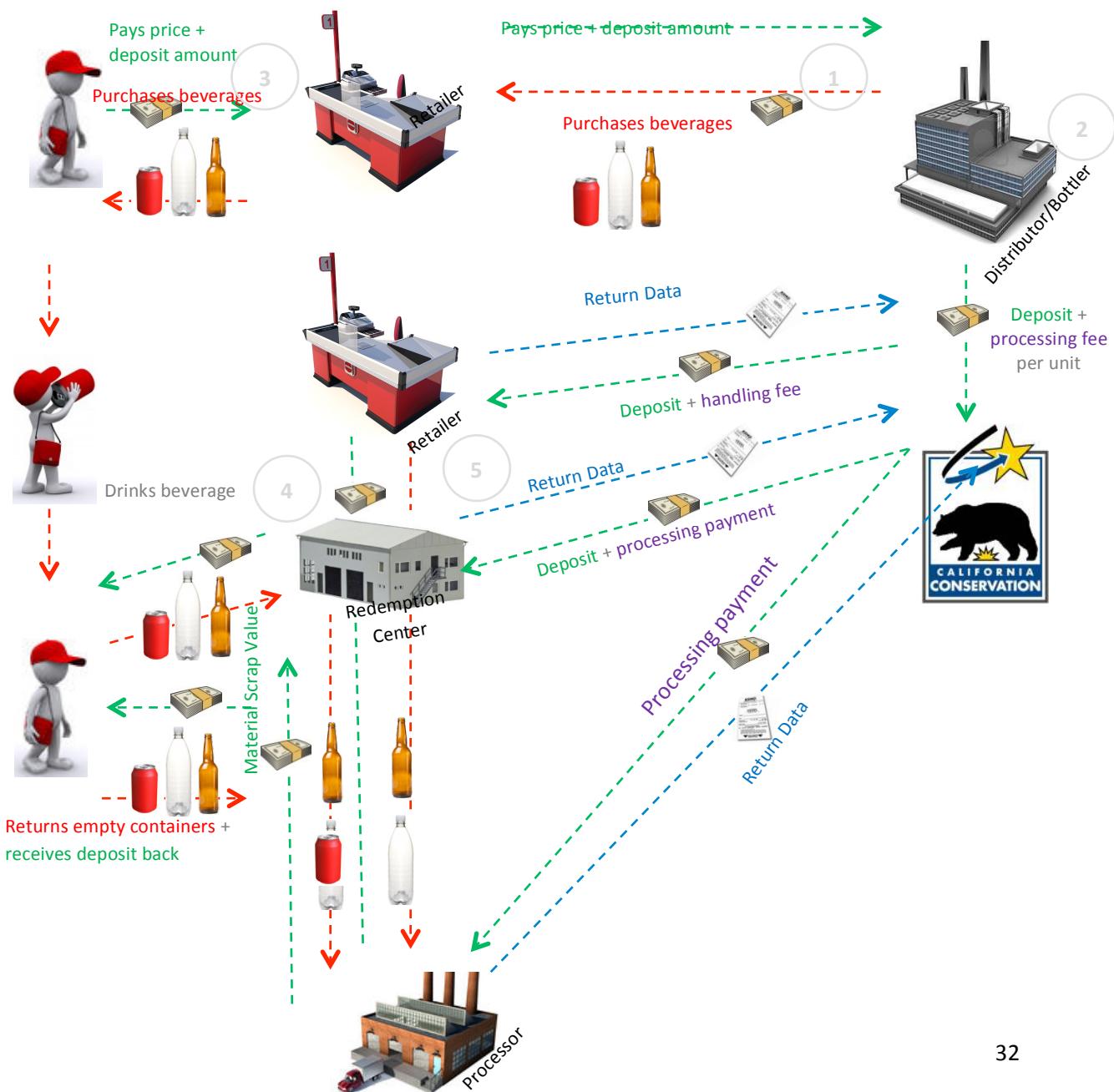
## SYSTEM RESULTS (2015)

Total Return Rate:	81%*
Aluminum	95%
Glass	74%
PET	75%
HDPE	73%
Others	16%



\*Curbside included in redemption rate; curbside programs collect 9% and other programs collect the other 72% of covered beverage containers.

## MONEY MATERIAL FLOW



# CONNECTICUT

**Population: 3.6m**

Website: [www.ct.gov/deep/cwp/view.asp?a=2714&q=324834](http://www.ct.gov/deep/cwp/view.asp?a=2714&q=324834)



## MANDATE

Beverage Container Deposit and Redemption Law

Enacted: 1978

Implemented: 1980

Last Updated: 2009 (Water added)

Authority: Department of Energy and Environmental Protection

## PROGRAM SCOPE

Material:	Plastic, metal (aluminum), glass (any individual, separate, sealed bottle, can, jar or carton containing a beverage <3l)
Beverage type:	Beer; malt; carbonated soft drinks (including mineral waters and soda waters); noncarbonated beverages (water, including flavored water, nutritionally enhanced water)
Excluded:	Other noncarbonated beverages; juices; HDPE containers

## DEPOSITS AND FEES

Deposit:	Initiated by Producer/Distributor/Importer
Deposit value:	Plastic, metal, glass: USD\$0.05
Unredeemed deposits:	Escheated to State
Handling Fee:	USD\$0.015 for beer, USD\$0.02 other beverages

## SYSTEM OPERATOR

Clearing System:	Decentralized, TOMRA
System Operator & Administrator:	Beverage Industry

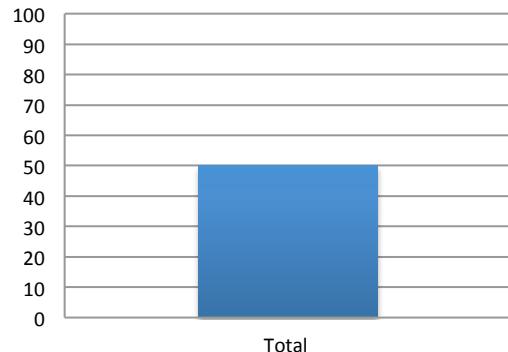
## REDEMPTION SYSTEM

Return-to-Retail / Return to Redemption Center	Stores are only required to take back the brands that they sell.
Material owner:	Deposit Initiator

## SYSTEM RESULTS (2015)

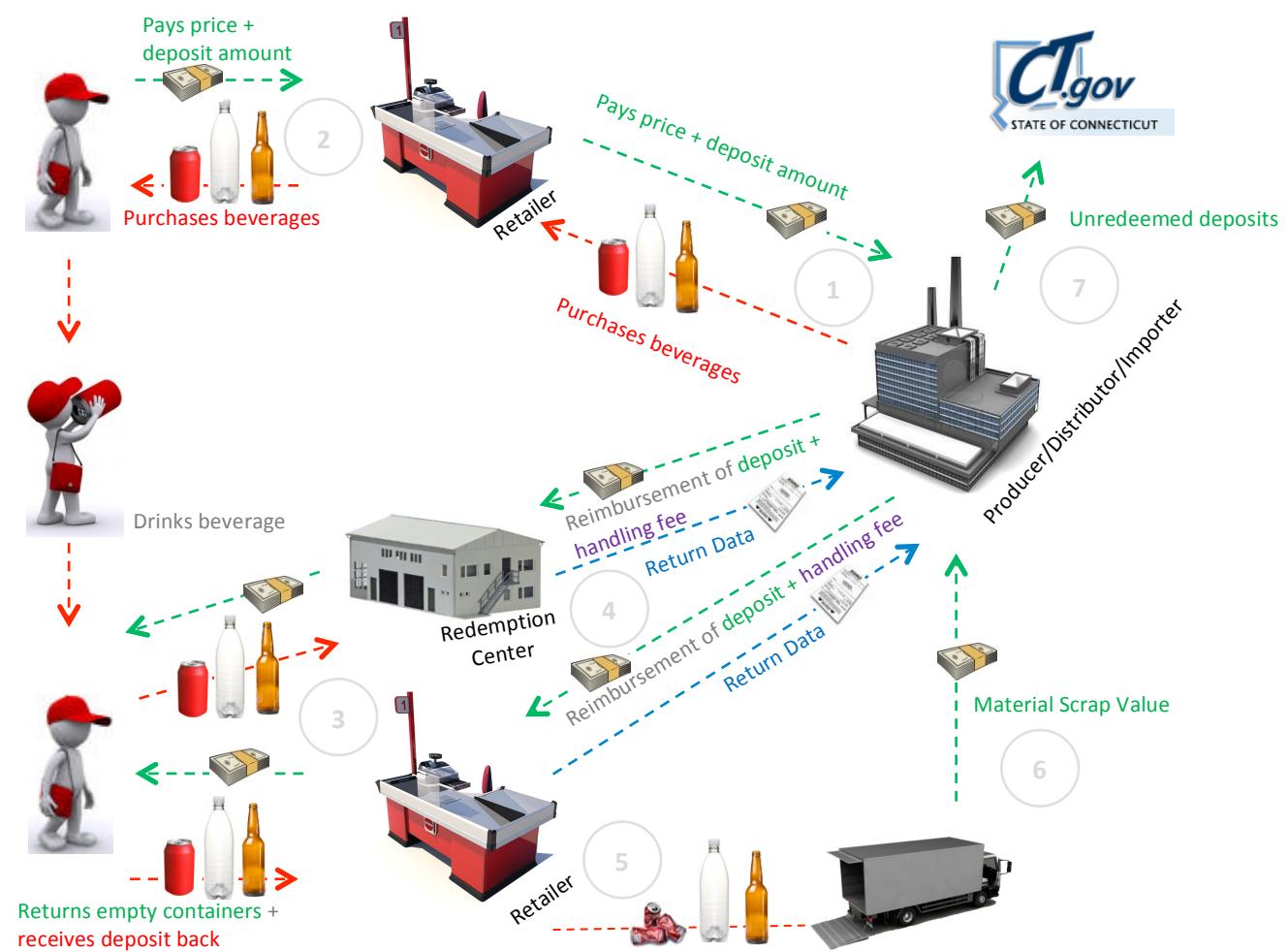
Return Rate:

50%\*



\*Does not include 3<sup>rd</sup> quarter. Before water bottles were added to the deposit system in 2009, redemption rates were higher (in the range of 65-70%).

## MONEY MATERIAL FLOW



# HAWAII

**Population: 1.3m**

Website: <http://health.hawaii.gov/hi5/>



## MANDATE

Deposit Beverage Container Law (Act 176)

Enacted:	2002
Implemented:	2005
Last Updated:	2013 (Energy Drinks & Dietary Supplements)
Authority:	Department of Health

## PROGRAM SCOPE

Material:	Plastic (PET, HDPE); metal (aluminum); bi-metal; glass ≤ 2l
Beverage type:	Beer; malt beverages; mixed spirits (< 15% alcohol content); mixed wine (< 7% alcohol content); all non-alcoholic beverages (e.g. juice, tea, etc.)
Excluded:	Milk; dairy products

## DEPOSITS AND FEES

Deposit:	Initiated by Producer/Distributor/Importer
Deposit value:	USD\$0.05
Unredeemed deposits:	Escheated to state, used for program administration
Handling Fee:	USD\$0.02 to \$0.04 (variable). Paid to redemption centers from the Deposit Beverage Container Fund.
Container Fee:	USD\$0.015 non-refundable fee paid by consumer on top of the deposit to fund redemption centers

## SYSTEM OPERATOR

Clearing System:	Centralized
System Operator & Administrator:	Department of Health (Government Operated)

## REDEMPTION SYSTEM

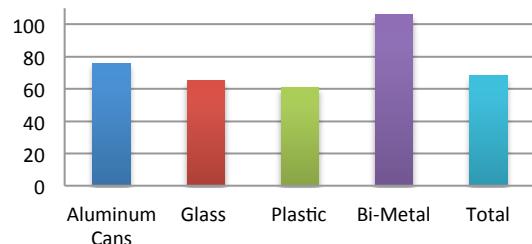
Return to Redemption Center

Persons who sell beverages in deposit containers to a consumer for off-premises consumption are required to operate redemption centers on-site, and must take back all empty beverage containers with a Hawaii refund value. Independent redemption centers are allowed by the law, but are subject to state certification.

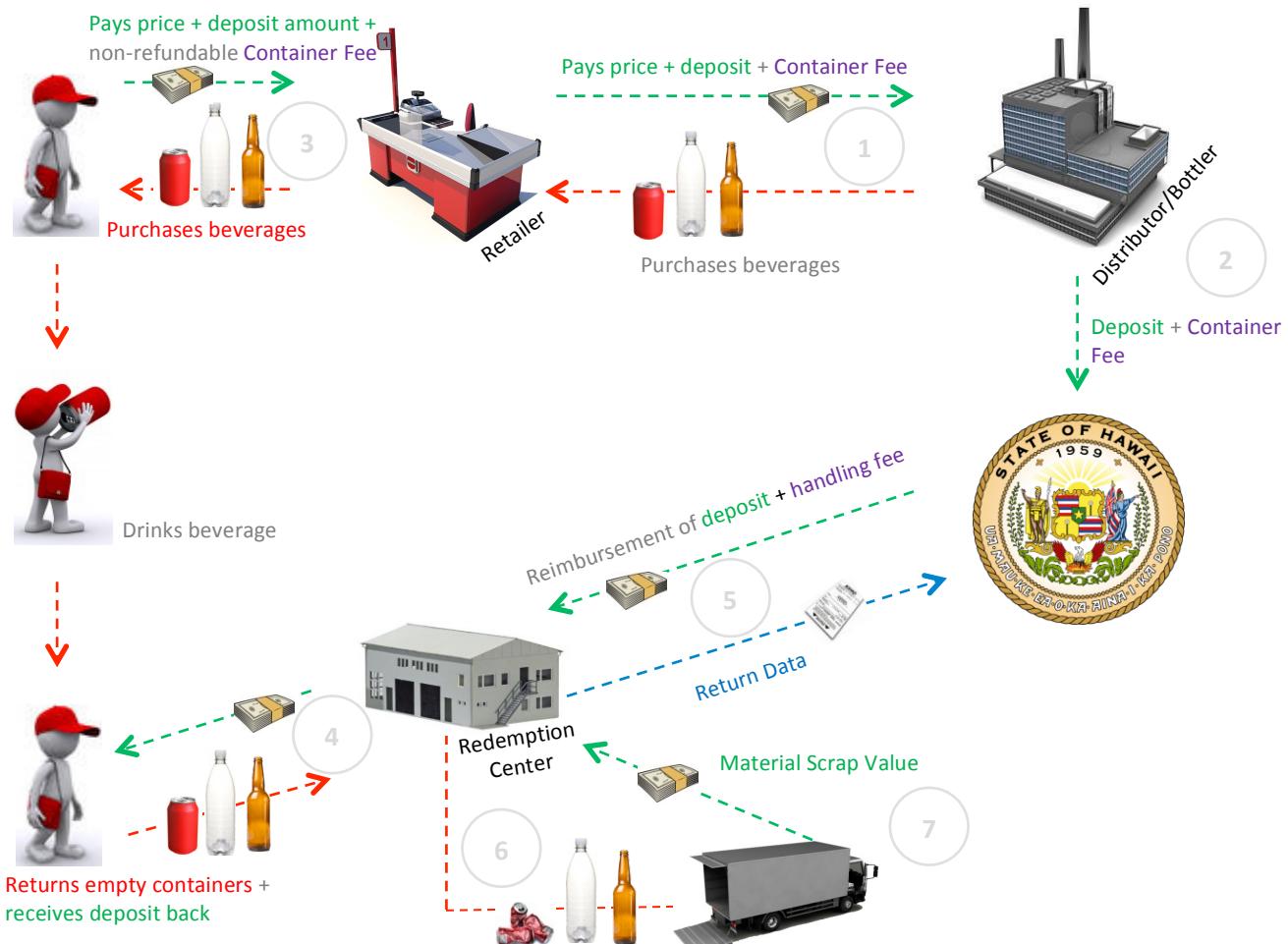
Material owner:	Redemption Center
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## SYSTEM RESULTS (2015)

Return Rate:	68%
Aluminum	76%
Glass	65%
Plastic	61%
Bi-metal	106%



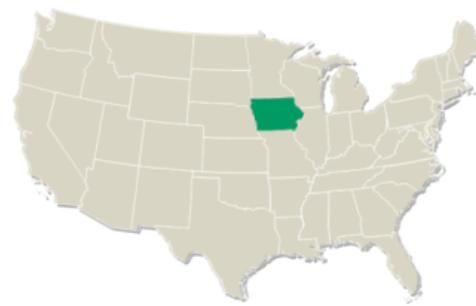
## MONEY MATERIAL FLOW



# IOWA

Population: 3.1m

Website: [www.iowadnr.gov/Environmental-Protection/  
Land-Quality/Waste-Planning-Recycling/Bottle-Deposit-Law](http://www.iowadnr.gov/Environmental-Protection/Land-Quality/Waste-Planning-Recycling/Bottle-Deposit-Law)



## MANDATE

Beverage Containers Control Law

Enacted: 1978

Implemented: 1979

Authority: Iowa Department of Natural Resources (DNR)

## PROGRAM SCOPE

Material:	Any sealed glass, plastic, or metal bottle, can, jar or carton containing a beverage
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Beverage type:	Beer; carbonated soft drinks; mineral water; wine coolers; wine & liquor
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Excluded:	Fruit and vegetable juices; fruit drinks; milk and milk products
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## DEPOSITS AND FEES

Deposit:	Initiated by Producer/Distributor/Importer
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Deposit value:	USD\$0.05
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Unredeemed deposits:	Distributor/Bottler
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Handling Fee:	USD\$0.01 paid by deposit initiator to retailers and redemption centers
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## SYSTEM OPERATOR

Clearing System:	Decentralized, CRINC
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System Operator & Administrator:	CRINC, Deposit Initiators
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## REDEMPTION SYSTEM

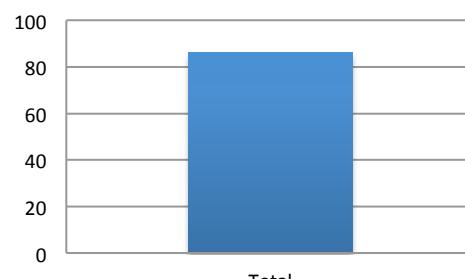
Return-to-Retail / Return to Redemption Center

Material owner:	Deposit Initiator
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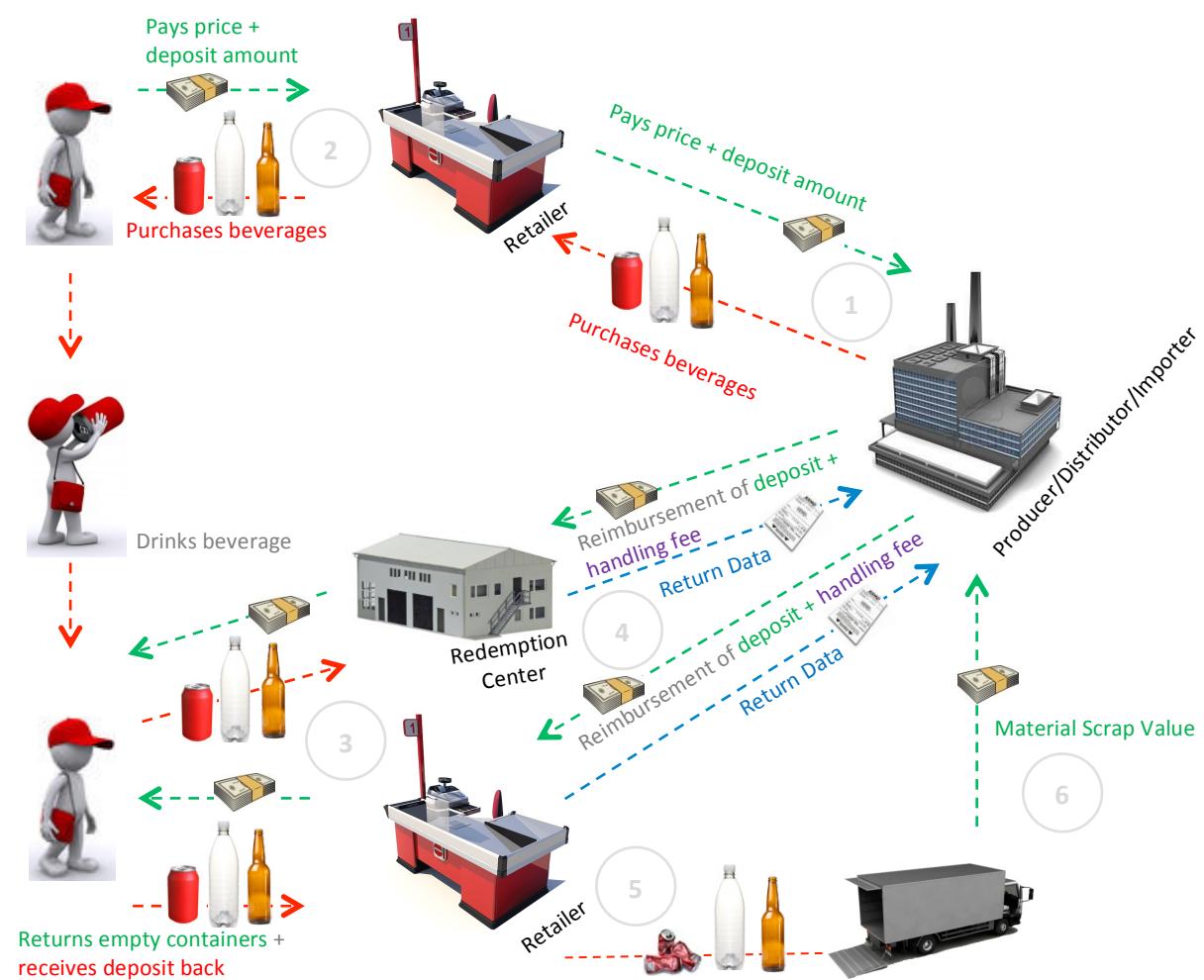
## SYSTEM RESULTS (2015)

Total Return Rate:	86%*
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\*Redemption rate is estimated based on data collected circa 2005; actual data has not been collected by the IOWA DNR since then.



## MONEY MATERIAL FLOW



# MAINE

**Population: 1.3m**

Website: <http://maine.gov/dep/sustainability/bottlebill/index.html>




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## MANDATE

Maine Returnable Beverage Container Law

Enacted:	1976
Implemented:	1978
Last Updated:	2011
Authority:	Department of Agriculture, Conservation and Forestry, Weights and Measures

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## PROGRAM SCOPE

Material:	Plastic, metal (aluminum/tinplate), glass (all sealed containers made of glass, plastic or metal, containing ≤ 4l)
Beverage type:	All
Excluded:	Dairy products; unprocessed cider

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## DEPOSITS AND FEES

Deposit:	Initiated by Producer/Distributor/Importer
Deposit value:	Plastic, metal, glass: USD\$0.05 Wine/liquor: USD\$0.15
Unredeemed deposits:	Escheated to state (when containers are not subject to a commingling agreement)
Handling Fee:	USD\$0.04 (\$0.005 less if deposit initiator participates in a qualified comingling agreement)

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## SYSTEM OPERATOR

Clearing System:	Decentralized, TOMRA
System Administrator:	Department of Agriculture, Conservation and Forestry
System Operator:	Beverage Industry

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## REDEMPTION SYSTEM

Return to Retail / Return to Redemption Center  
Retailers can opt-out if they have an agreement with a nearby redemption centre.

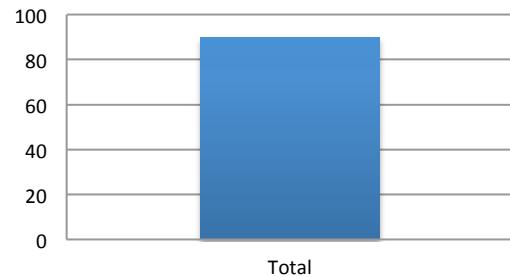
Material owner:	Producer/Distributor/Importer
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## SYSTEM RESULTS (2015)

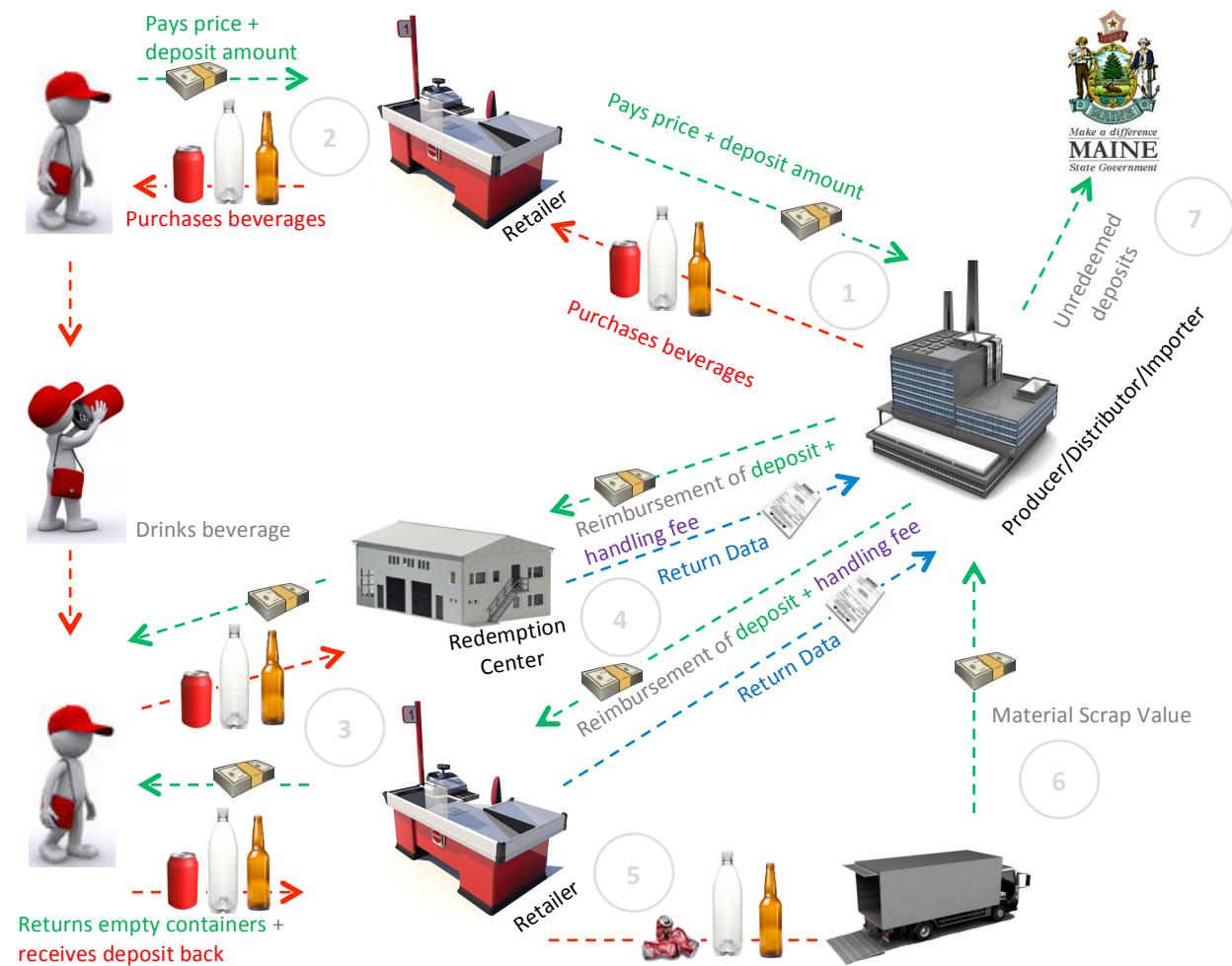
Total Return Rate:

90%\*

\*Informal recycling rate provided by beverage industry lobbyist in testimony to state.



## MONEY MATERIAL FLOW



# MASSACHUSETTS



**Population: 6.6m**

Website: [www.mass.gov/eea/agencies/massdep/recycle/reduce/bottle-and-can-recycling.html](http://www.mass.gov/eea/agencies/massdep/recycle/reduce/bottle-and-can-recycling.html)



## MANDATE

Beverage Container Recovery Law

Enacted:	1981
Implemented:	1983
Last Updated:	2013 (Handling Fee)
Authority:	Massachusetts Department of Environmental Protection

## PROGRAM SCOPE

Material:	Plastic, metal (aluminum), bimetal, glass (any sealable bottle, can, jar, or carton of glass, metal, plastic, or combination)
Beverage type:	Beer; malt; carbonated soft drinks; mineral water
Excluded:	Wine; dairy products; natural fruit juices; non-carbonated alcoholic beverages other than beer and malt

## DEPOSITS AND FEES

Deposit:	Initiated by Producer/Distributor/Importer
Plastic, metal, bimetal, glass:	USD\$0.05
Unredeemed deposits:	Escheated to State (Department of Revenue)
Handling Fee:	USD\$0.0225 Retailers (receive free pick-up of containers by deposit initiators) USD\$0.0325 Redemption Centers (RCs must deliver redeemed containers to central processing facility)

## SYSTEM OPERATOR

Clearing System:	Decentralized, TOMRA
System Operator & Administrator:	Beverage Industry, TOMRA

## REDEMPTION SYSTEM

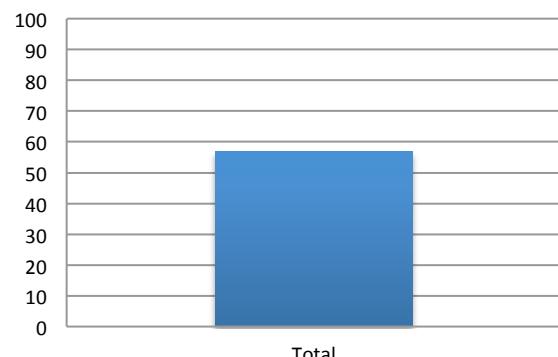
Return-to-Retail / Return to Redemption Center

Material owner:	Deposit Initiator
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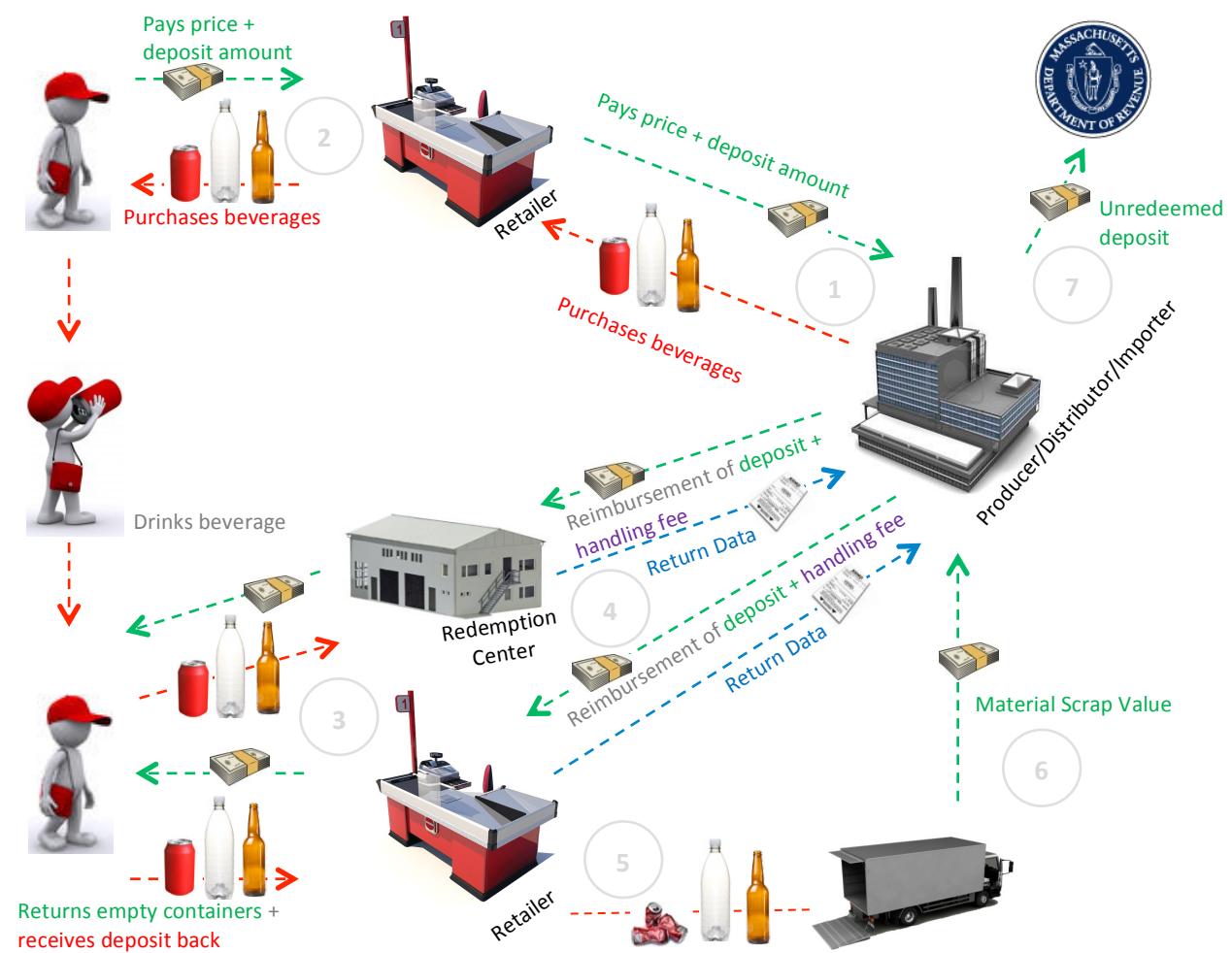
## SYSTEM RESULTS (2015)

Total Return Rate:

57%



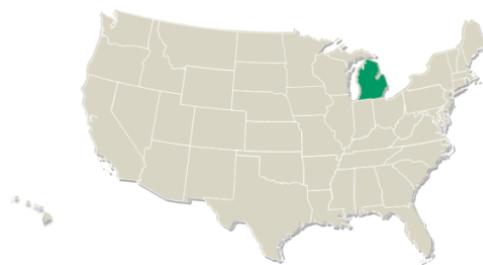
## MONEY MATERIAL FLOW



# MICHIGAN

**Population: 9.9m**

Website: [www.legislature.mi.gov](http://www.legislature.mi.gov)



## MANDATE

Michigan Container Law (MCL)

Enacted:	1976
Implemented:	1978
Last Updated:	2008 (Security Rules) 2012 (Excluded Pouches)
Authority:	Michigan Department of Treasury

## PROGRAM SCOPE

Material:	Plastic, metal (aluminum/tinplate), glass, paper (Any airtight metal, glass, paper, or plastic container, or a combination < 1 gallon)
Beverage type:	Beer/ale; soft drinks; carbonated and mineral water; wine coolers; canned cocktails; malt drink of whatever alcohol content
Excluded:	Milk; juice; water; tea; sport drinks; foil pouches

## DEPOSITS AND FEES

Deposit:	Initiated by Producer/Distributor/Importer
Deposit value:	Plastic, metal, glass: USD\$0.10
Unredeemed deposits:	75% escheated to State (to Clean-up and Redevelopment Trust Fund) / 25% available to retailers to cover handling costs
Handling Fee:	25% of unredeemed deposits

## SYSTEM OPERATOR

Clearing System:	Decentralized; Michigan Soft Drink Association (MSDA), Michigan Beer & Wine Wholesalers Association (MBWWA), TOMRA
System Operator & Administrator:	Beverage industry

## REDEMPTION SYSTEM

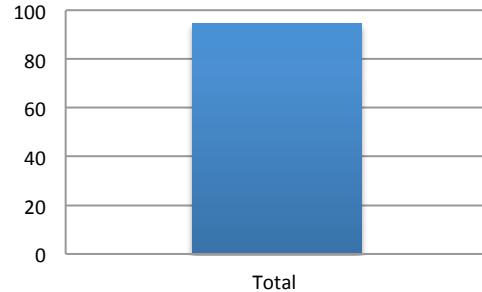
Return to Retail

Material owner:	Deposit Initiator
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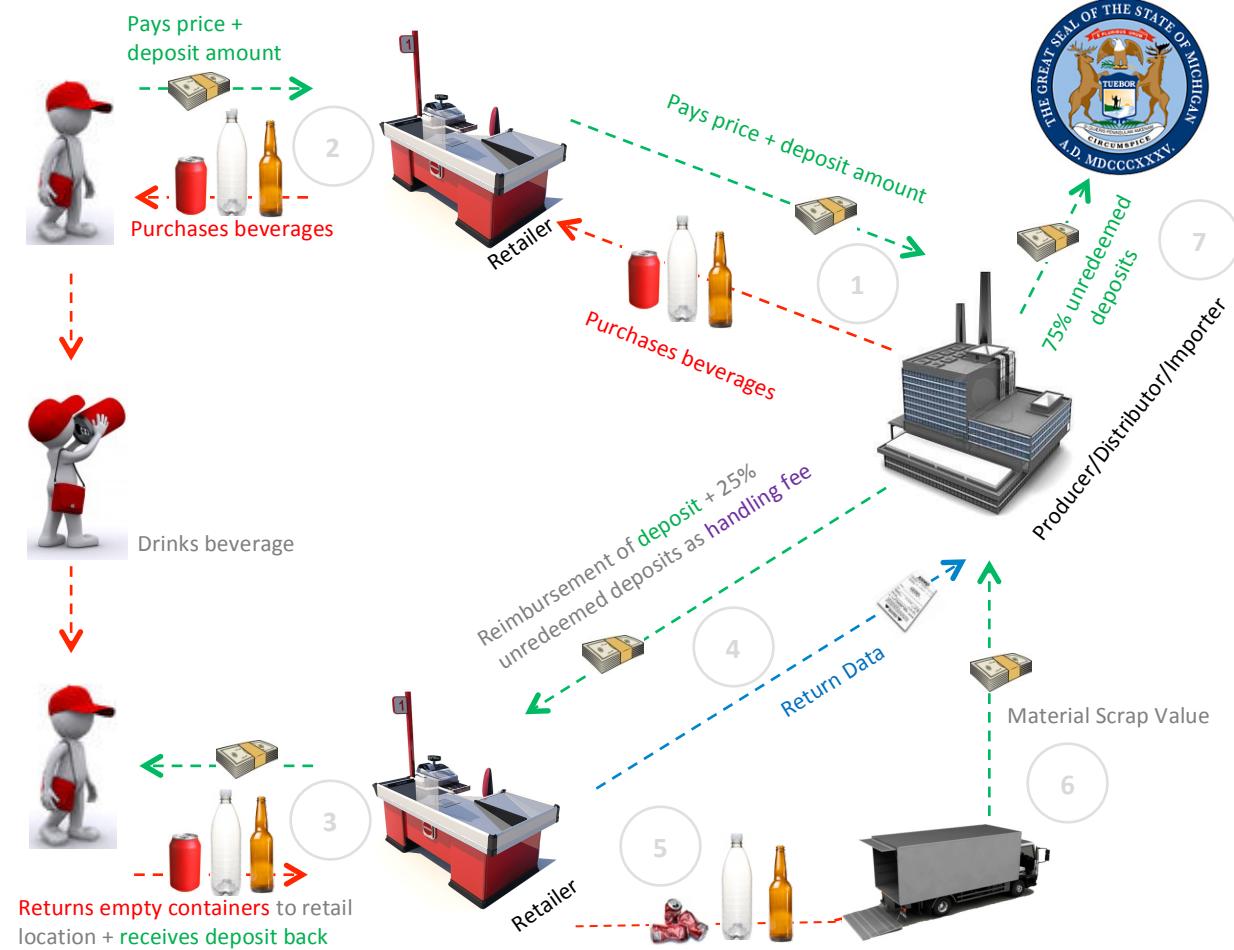
## SYSTEM RESULTS (2015)

Total Return Rate:

93%



## MONEY MATERIAL FLOW



# NEW YORK

**Population: 19.5m**

Website: [www.dec.ny.gov/chemical/8500.html](http://www.dec.ny.gov/chemical/8500.html)



## MANDATE

New York State Returnable Container Act

Enacted: 1982

Implemented: 1983

Last Updated: 2009 (Added Water)

2012 (Rules)

Authority: New York State Department of Environmental Conservation

## PROGRAM SCOPE

Material:	Plastic, metal (aluminum), glass (any individual, separate, sealed glass, metal, aluminum, steel or plastic bottle, can or jar containing ≤ 3.78l)
Beverage type:	Carbonated soft drinks; soda water; energy drinks, juices (anything < 100% juice, containing added sugar or water); beer and other malt beverages; mineral water (carbonated and non-carbonated); wine products; water that does not contain sugar, including flavored or nutritionally enhanced water
Excluded:	Milk products; wine and liquors; tea; sports drinks; juice; drink boxes; water containing sugar

## DEPOSITS AND FEES

Deposit:	Initiated by Producer/Distributor/Importer
Deposit value:	Plastic, metal, glass: USD\$0.05
Unredeemed deposits:	80% to the New York State Department of Taxation and Finance (quarterly basis); 20% retained by Deposit Initiator
Handling Fee:	USD\$0.035

## SYSTEM OPERATOR

Clearing System:	Decentralized / TOMRA
System Operator & Administrator:	Beverage Industry; TNYR, Western New York Beverage Industry Collection & Sorting (WNYBICS)

## REDEMPTION SYSTEM

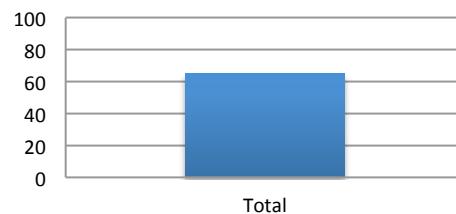
Return-to-Retail / Return to Redemption Center	Stores are only required to take back the brands that they sell
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Material owner:	Deposit Initiator
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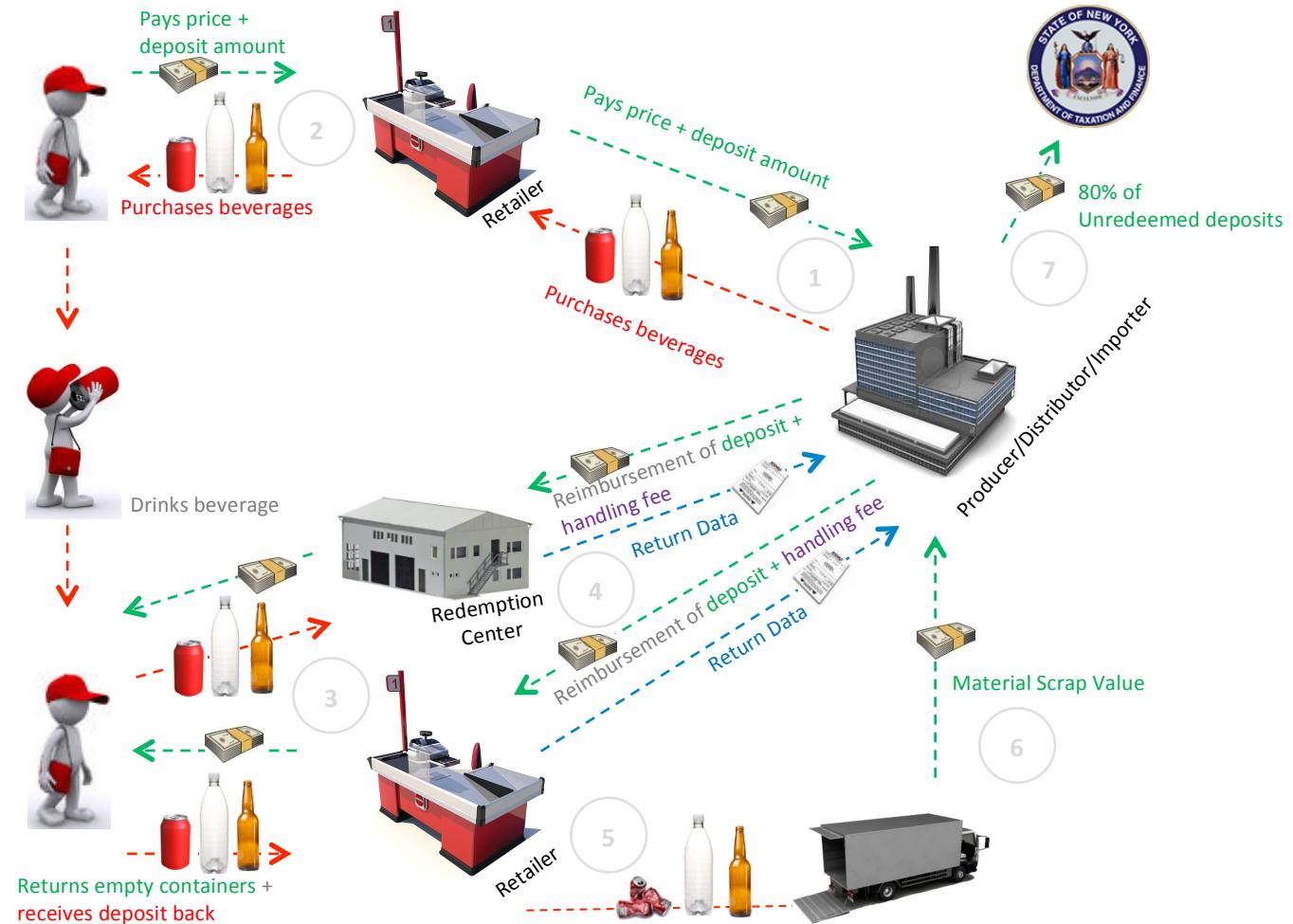
## SYSTEM RESULTS (2015)

Total Return Rate:

65%



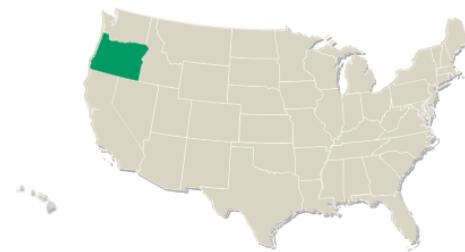
## MONEY MATERIAL FLOW



# OREGON

**Population: 3.9m**

**Website:** [www.oregon.gov/OLCC/pages/bottle\\_bill.aspx](http://www.oregon.gov/OLCC/pages/bottle_bill.aspx)




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## MANDATE

The Beverage Container Act

Enacted: 1971

Implemented: 1972

Last Updated: 2011 (Redemption Centers)

2016 (Evaluate Deposit Level)

2018 (Expansion Effective)

Authority: Oregon Liquor Control Commission (OLCC)

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## PROGRAM SCOPE

Material:	Plastic, metal (aluminum/tinplate), glass (any individual, separate, sealed glass, metal or plastic bottle, can, jar containing a beverage)
Beverage type:	Water/flavored water; beer/malt beverages; soda/mineral water; carbonated soft drinks ≤ 3l; isotonics; teas; juice
Excluded:	Wine & liquor; milk & milk substitutes

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## DEPOSITS AND FEES

Deposit:	Initiated by Producer/Distributor/Importer
Deposit value:	Plastic, metal, glass: USD\$0.10
Unredeemed deposits:	Producer/Distributor/Importer
Handling Fee:	None

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## SYSTEM OPERATOR

Clearing System:	Centralized, Oregon Beverage Recycling Cooperative (OBRC)
System Operator & Administrator:	Beverage Industry
System Finance:	Material revenue/unredeemed deposits

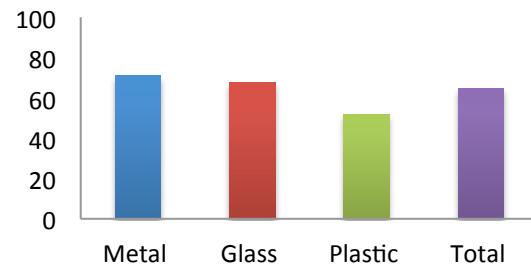
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## REDEMPTION SYSTEM

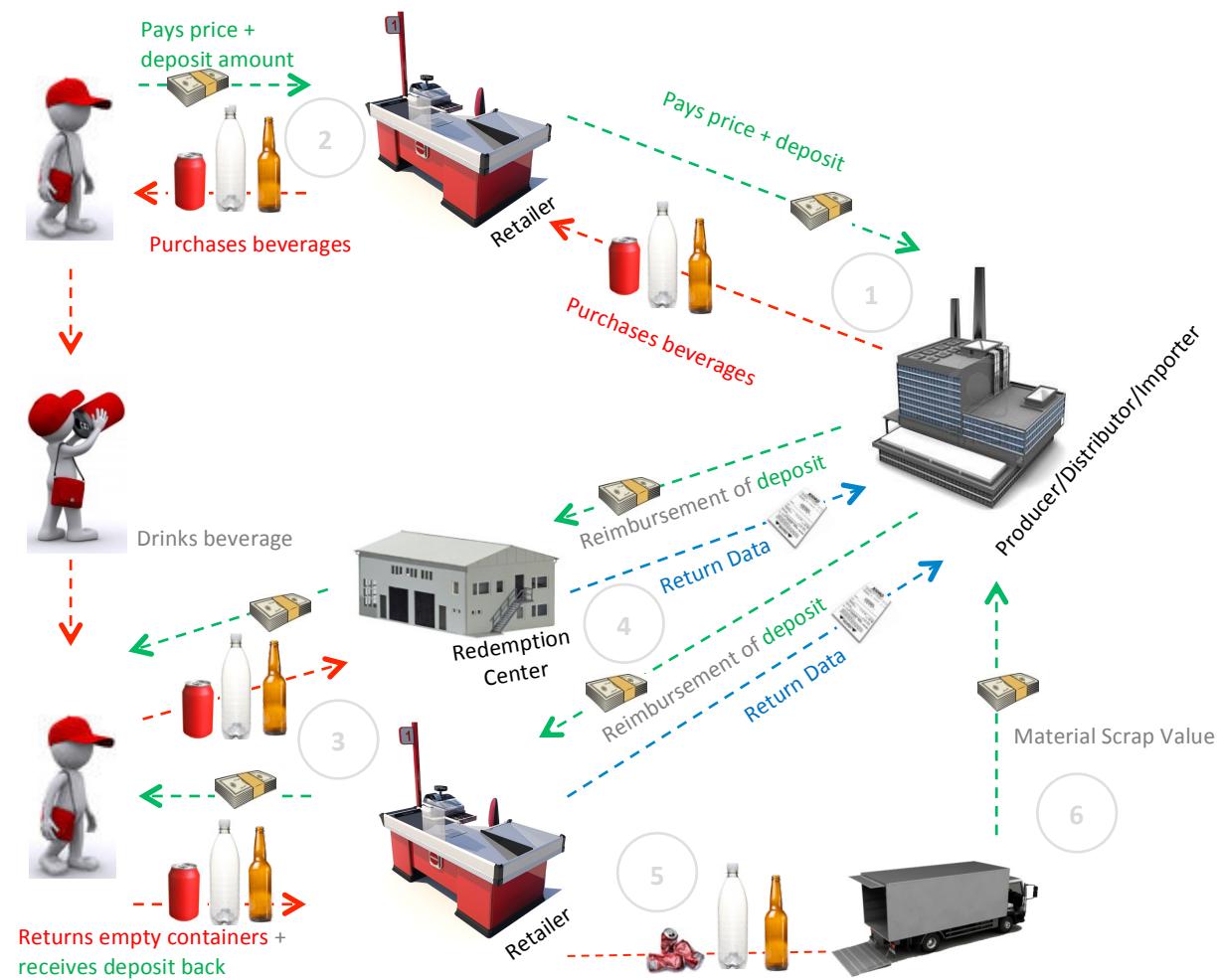
Return-to-Retail / R2RC	Note: Retail outlets ≥ 5,000 ft. <sup>2</sup> are required to take back all brands and sizes of beverage containers for each kind they sell. Retailers < 5,000 ft. <sup>2</sup> may take back only brands and sizes that they sell.
Material owner:	Deposit Initiator

## SYSTEM RESULTS (2015)

Total Return Rate:	64.45%
Metal	70.89%
Glass	67.60%
Plastic	51.90%



## MONEY MATERIAL FLOW





# VERMONT

**Population: 0.6m**

Website: [http://dec.vermont.gov/waste-management/  
solid/product-stewardship/bottle-bill](http://dec.vermont.gov/waste-management/solid/product-stewardship/bottle-bill)



## MANDATE

Beverage Container Law (1972), Solid Waste Act (1987)

Enacted:	1972
Implemented:	1973
Last Updated:	1991
Authority:	Agency of Natural Resources

## PROGRAM SCOPE

Material:	Plastic, metal (aluminum/tinplate), glass (or any combination of these materials)
Beverage type:	Liquor & spirits; beer, wine coolers and other malt beverages; soft drinks and other carbonated beverages
Excluded:	Wine and hard cider; water; milk; juices; sports drinks; other non-carbonated beverages

## DEPOSITS AND FEES

Deposit:	Initiated by Producer/Distributor/Importer
Deposit value:	Plastic, metal, glass: USD\$0.05 Liquor: USD\$0.15
Unredeemed deposits:	Producer/Distributor/Importer
Handling Fee:	USD\$0.04 for brand-sorted containers, USD\$0.035 for comingled

## SYSTEM OPERATOR

Clearing System:	Decentralized, TOMRA
System Operator & Administrator:	Beverage Industry, TOMRA
System Finance:	Material Revenue/Unredeemed deposits

## REDEMPTION SYSTEM

Return-to-Retail / Return to Redemption Center

Retailers can gain State approval to opt-out of the program if they are located near a licensed redemption centre.

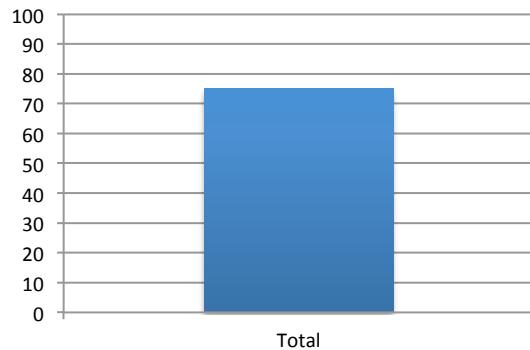
Material owner:	Deposit Initiator
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## SYSTEM RESULTS (2015)

Total Return Rate:

75%\*

\*Estimate is from a 2012-2013 study  
commissioned by the State.



## MONEY MATERIAL FLOW

