

# EPR – The Unintended Consequences

2015 Conference on Canadian Stewardship

RCA Waste Reduction Conference

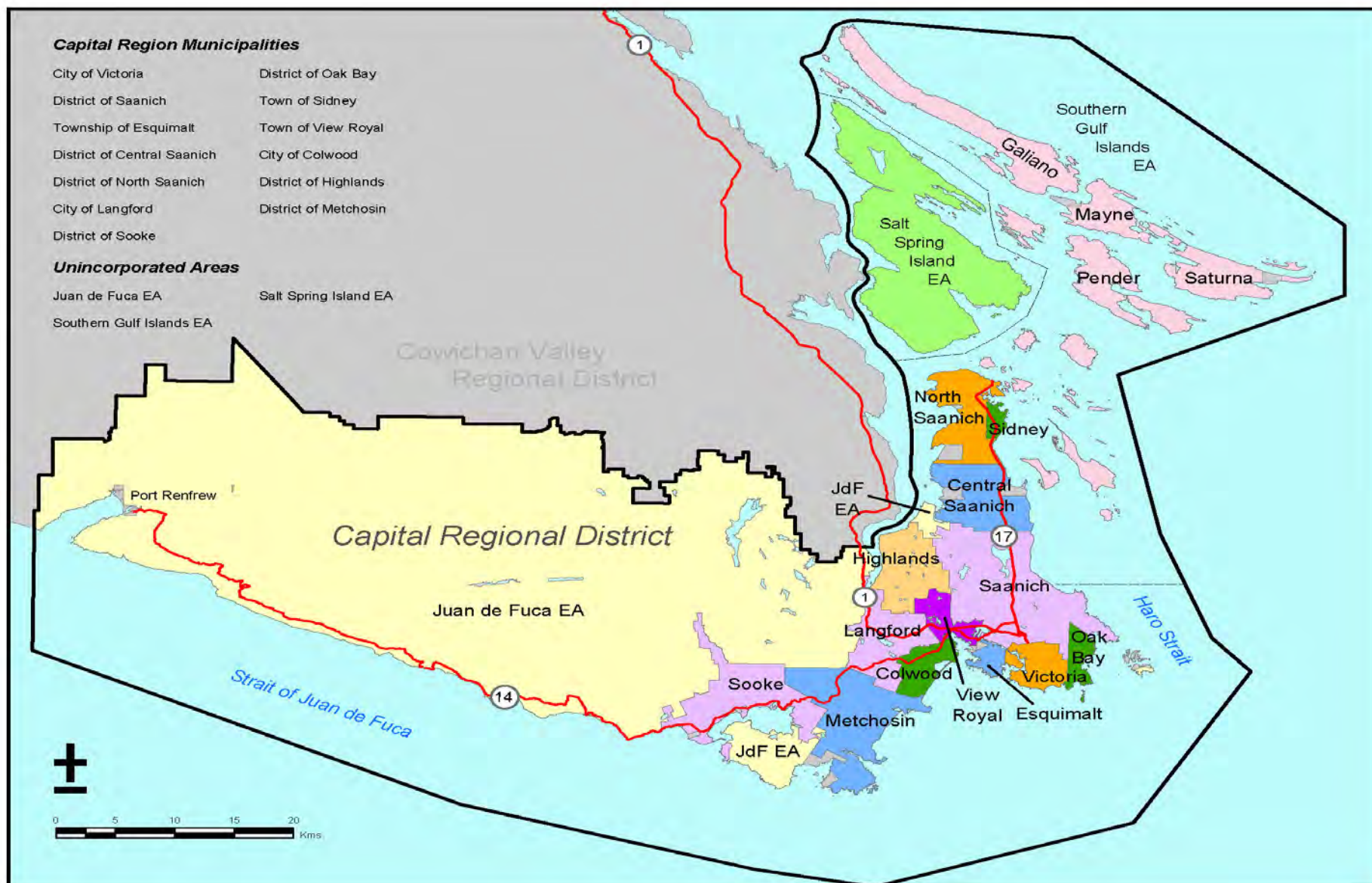
October 2, 2015

# Capital Regional District



**Capital Regional District**

# CRD – 13 Municipalities & 3 Electoral Areas



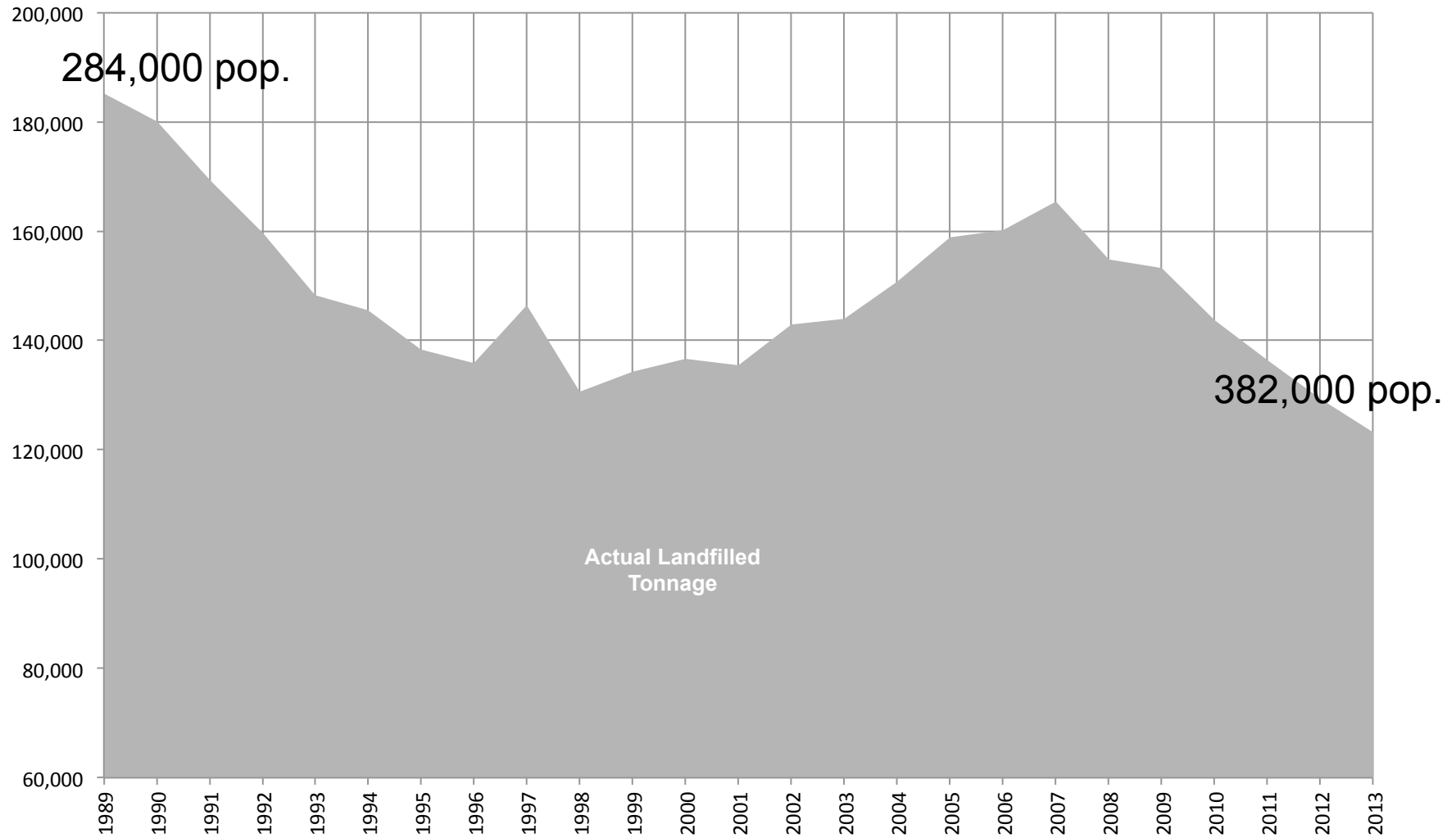
# Regional Solid Waste System



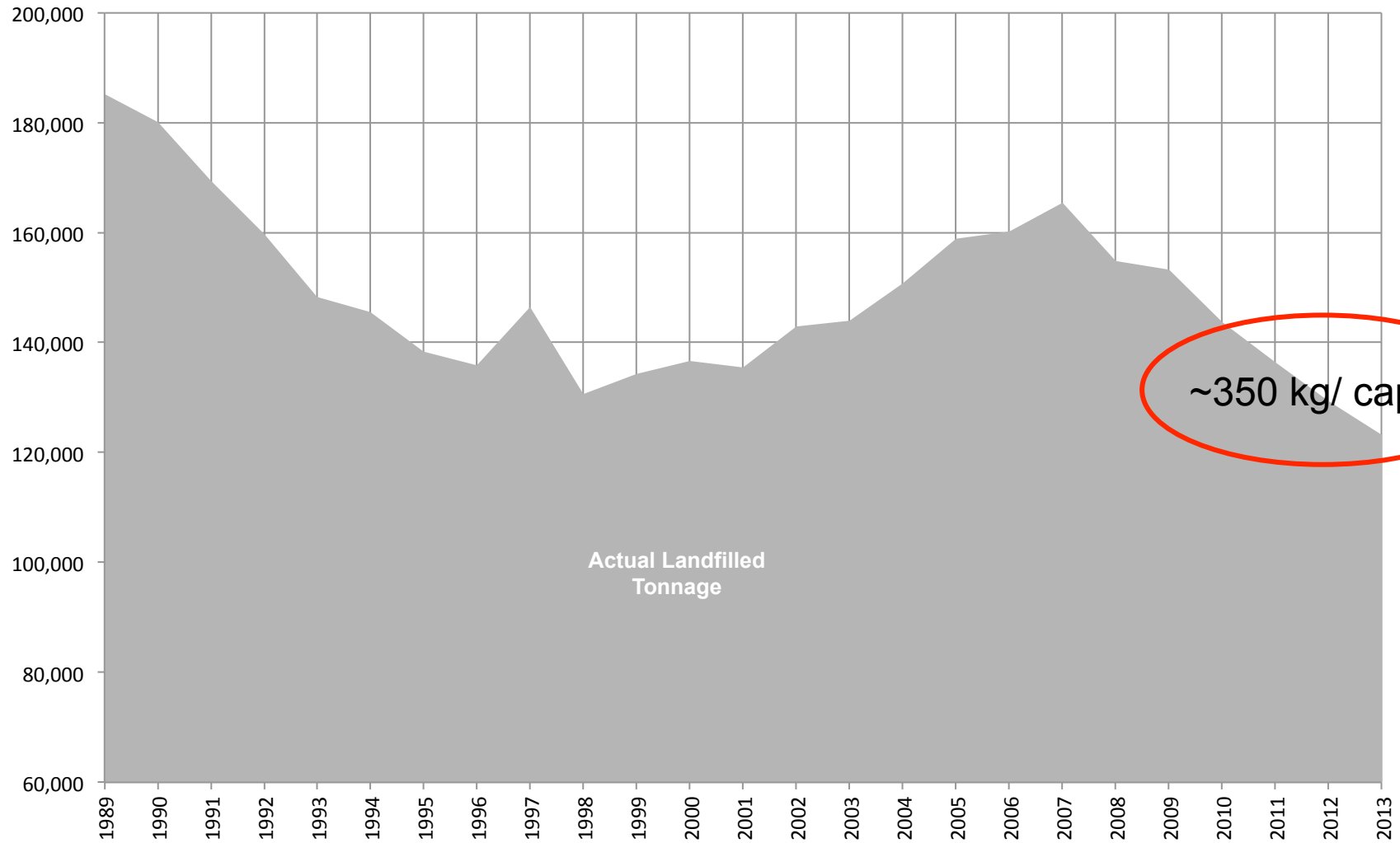
- Greater Victoria ~ 400,000 population
- CRD Regional Landfill
- CRD Blue Box and Depot System
- Municipal / Private Waste Collection
- Private Waste Diversion / Processing Facilities



# Solid Waste Disposal – Hartland Landfill



# Solid Waste Disposal – Hartland Landfill



~350 kg/ capita

Actual Landfilled  
Tonnage

# History of Solid Waste Tipping Fees



Date	Price per Tonne	Date	Price per Tonne
January 1985	\$8.50	January 1993	\$75.00
January 1986	\$9.50	January 2004	\$79.00
January 1987	\$10.50	January 2005	\$82.00
May 1988	\$13.00	January 2006	\$85.00
January 1989	\$16.00	January 2008	\$90.00
January 1990	\$22.00	January 2009	\$95.00
July 1990	\$30.00	January 2010	\$100.00
January 1991	\$45.00	January 2011	\$107.00
July 1991	\$55.00	January 2015	\$110.00
January 1992	\$70.00		

- Incentive to reduce solid waste at the landfill
- Funding for solid waste services
- Differential tipping fees for various materials

# Vancouver Island – Tipping Fees



\$120/tonne – Comox Valley

\$125/tonne - Nanaimo

\$140/tonne – Cowichan Valley

\$110/tonne – Capital Region

\$80/tonne – Metro Vancouver

\$60/tonne USD – Washington State



Off-island transportation costs ~ \$20-\$30/tonne

# Waste Diversion Strategies



- Education & communication programs
- Product stewardship programs
- Household Hazardous Waste
- Landfill material restrictions
- Community Clean-Up
- Landfill disposal charges
- Residential user pay garbage collection
- Recycling and composting programs

# Landfill Restrictions



Drywall 1991



Cardboard 1993



Tires 1993



# Landfill Restrictions

CRD



White Goods 1993



Scrap Metal 1995



Paper Fibers 1998

# Landfill Restrictions

CRD



Yard & Garden Material 2006



All Product Stewardship Items 2011

# Product Stewardship Programs

Provincial Regulation

CRD



Product stewardship programs in BC provide consumers with the opportunity to recycle or safely dispose of leftover, expired or end-of-life products. Materials currently under product stewardship in BC include:

- beverage containers
- paint
- solvents and flammable liquids
- gasoline and pesticides
- pharmaceuticals
- tires
- automotive batteries
- used motor oil, motor oil containers and oil filters
- electronics including computers, televisions, printers, monitors



MULTI  
MATERIAL  
BC

Residential Packaging and Printed Paper



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# Blue Box and Blue Bag Program



Program started in 1989

Over 113,000 homes on curbside program

90% participation

~100% funded by MMBC (since 2014)



# CRD Composting Strategy

CRD



- Backyard composting (1992)
- Composting facilities bylaw (2005)
- Yard and garden waste ban (2006)
- Organics collection pilots (2007)
- General consultation (2010)
- Business consultation (2011)
- Landfill Ban on Kitchen Scraps (2015)

# Waste Diversion Initiatives

CRD

Wood Waste 2006



Large Rigid Plastics 2006



Toilets 2007



# Waste Diversion Initiatives

CRD



Cooking Oil 2007



Electronics 2007



Film Plastics 2008

# Waste Diversion Initiatives

CRD



Fluorescent Tubes 2008

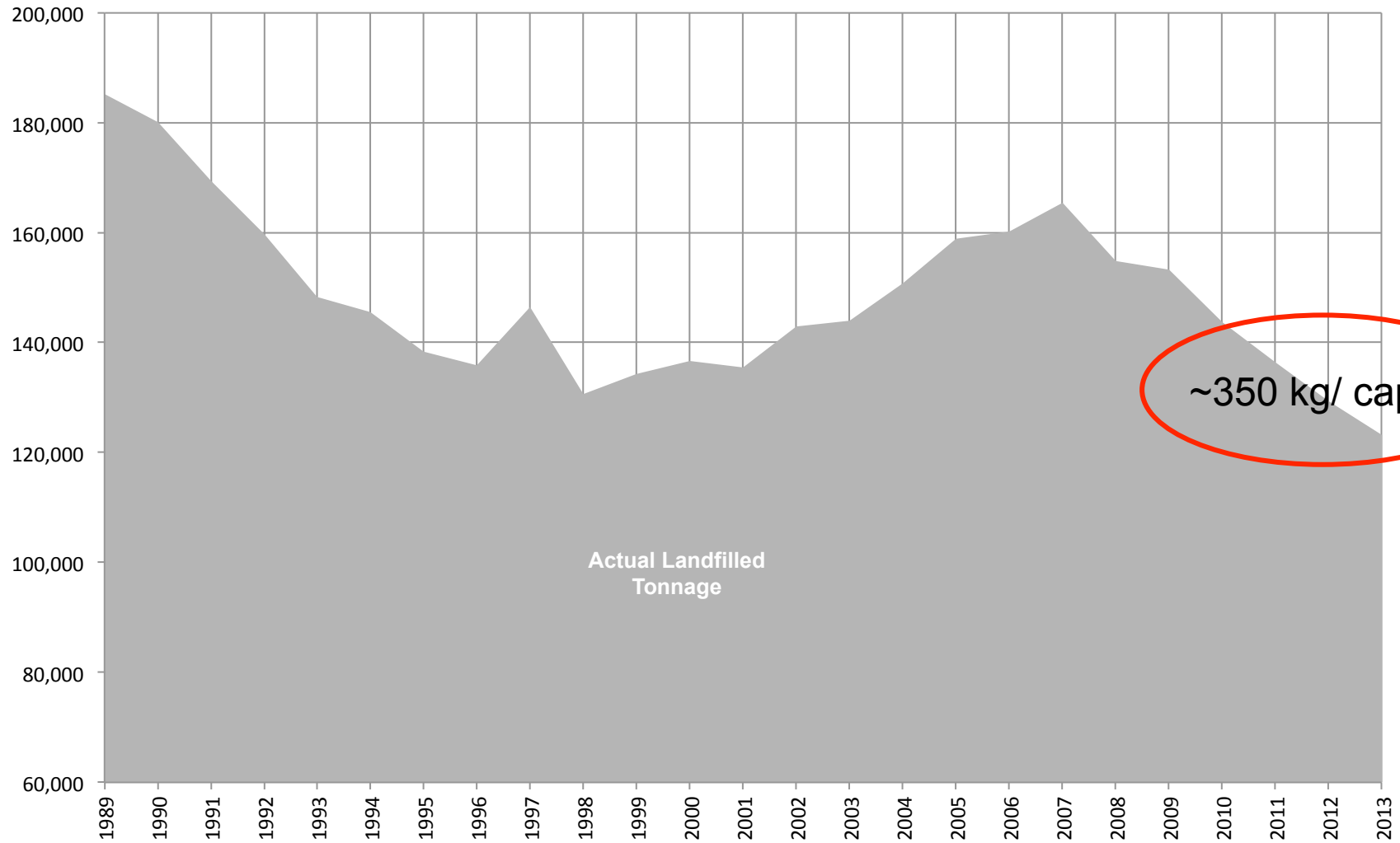


Mattresses 2008



Bicycle Tires and Tubes 2011

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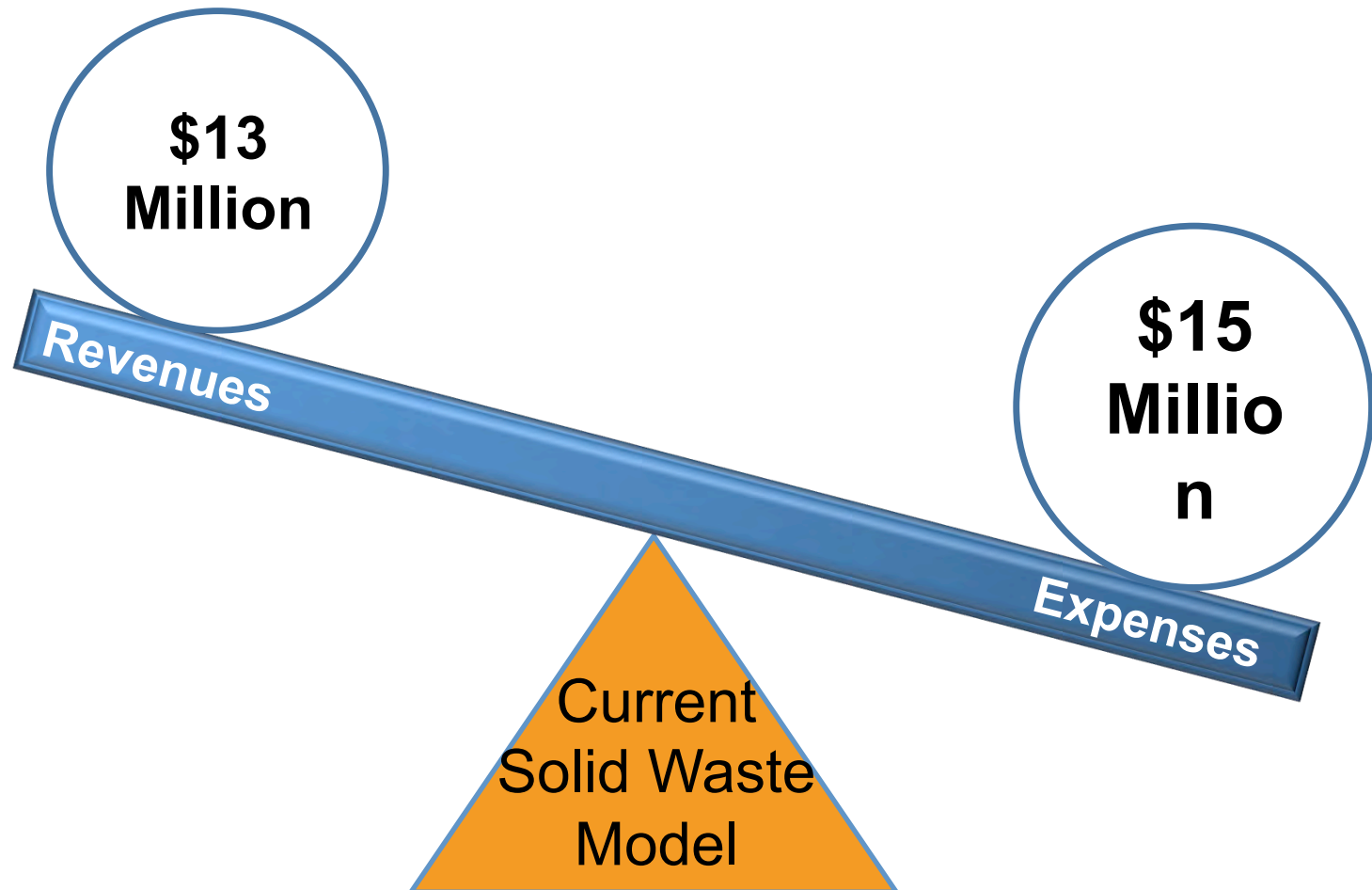
Actual Landfilled  
Tonnage

## CRD Solid Waste function (Diversion, Disposal, Resource Recovery) is self-funded

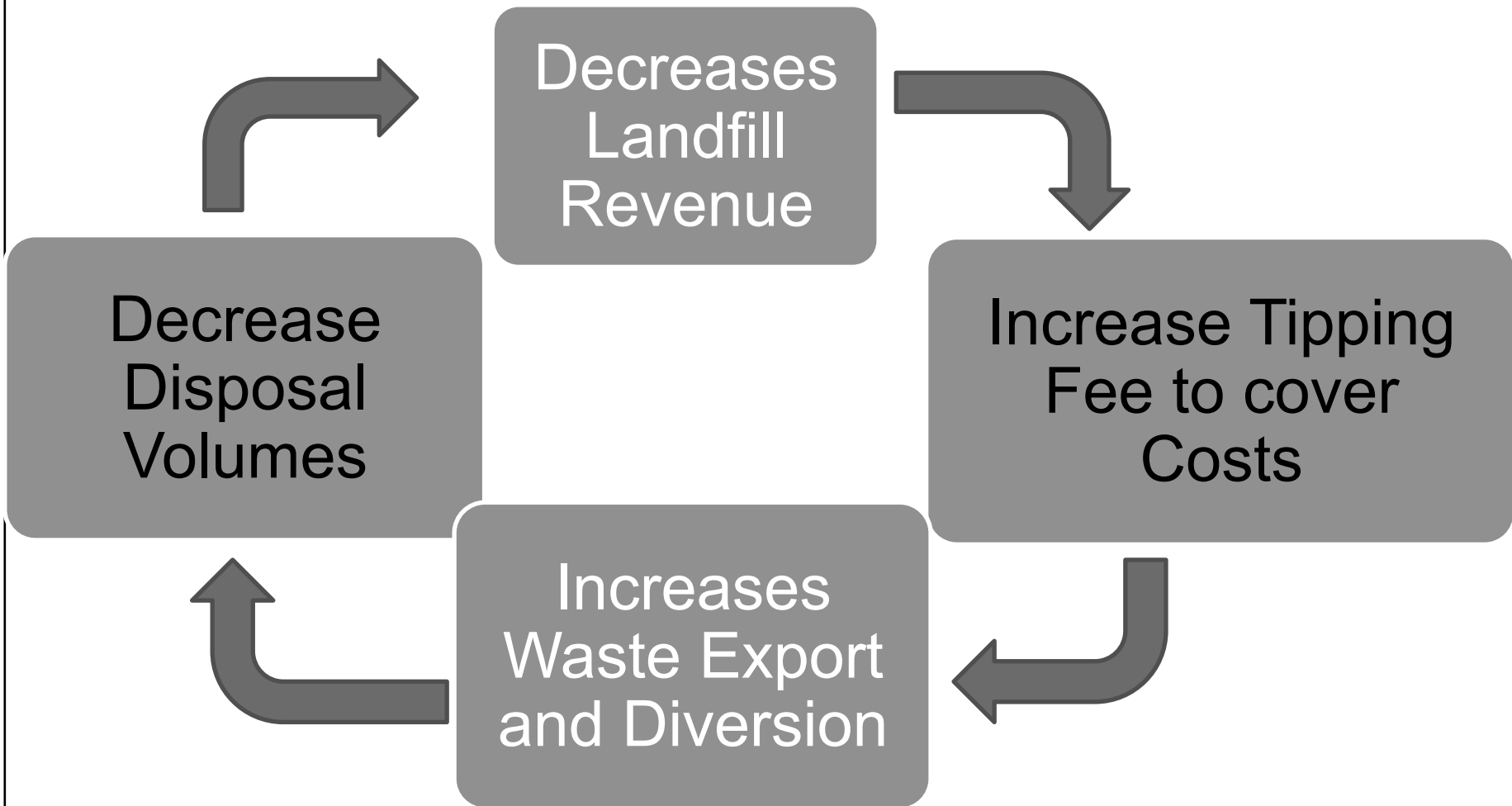


### Primary Funding Sources:

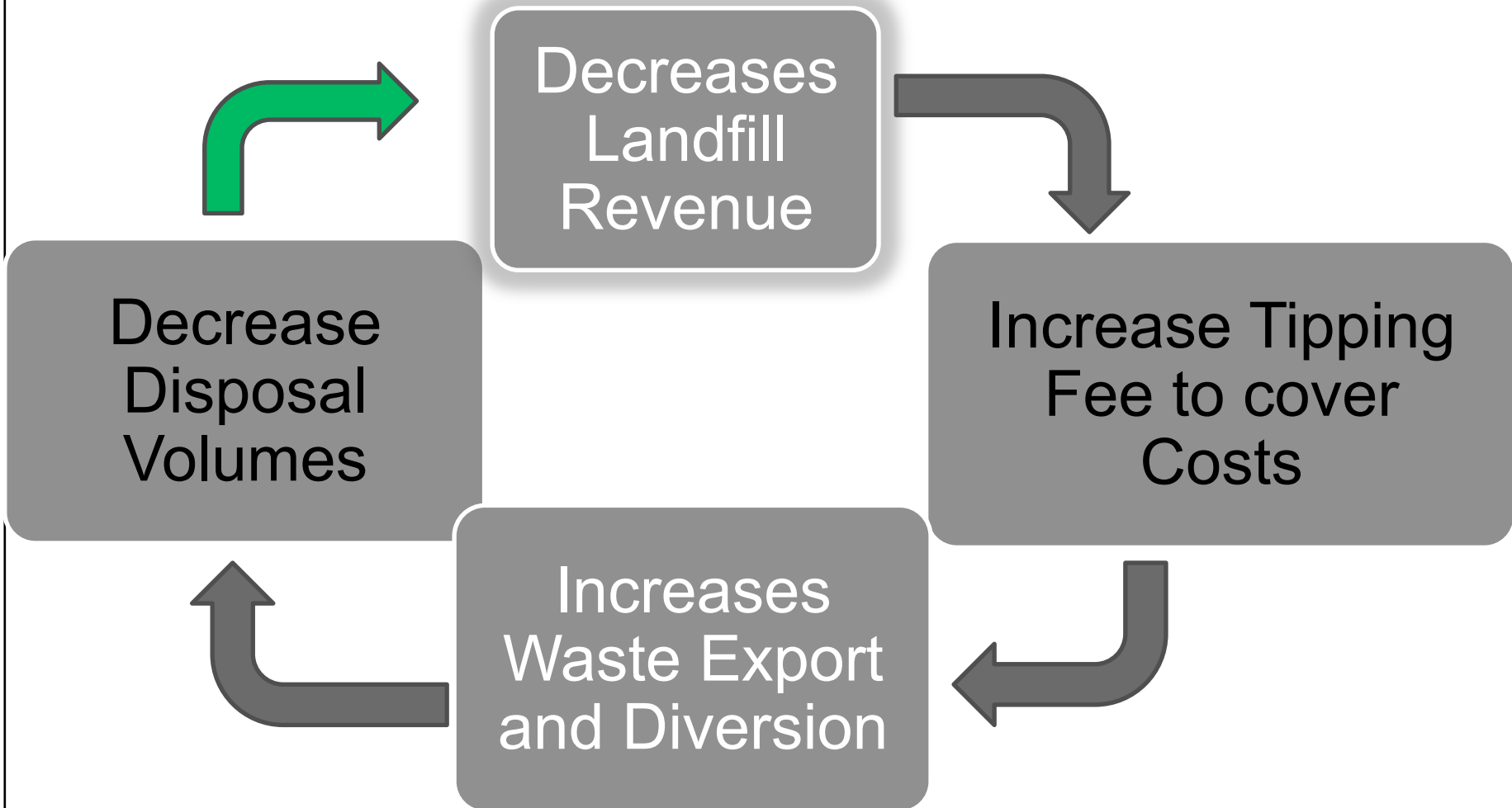
- Tipping fee Revenue
- Revenue from:
  - Stewardship programs
  - Resource recovery



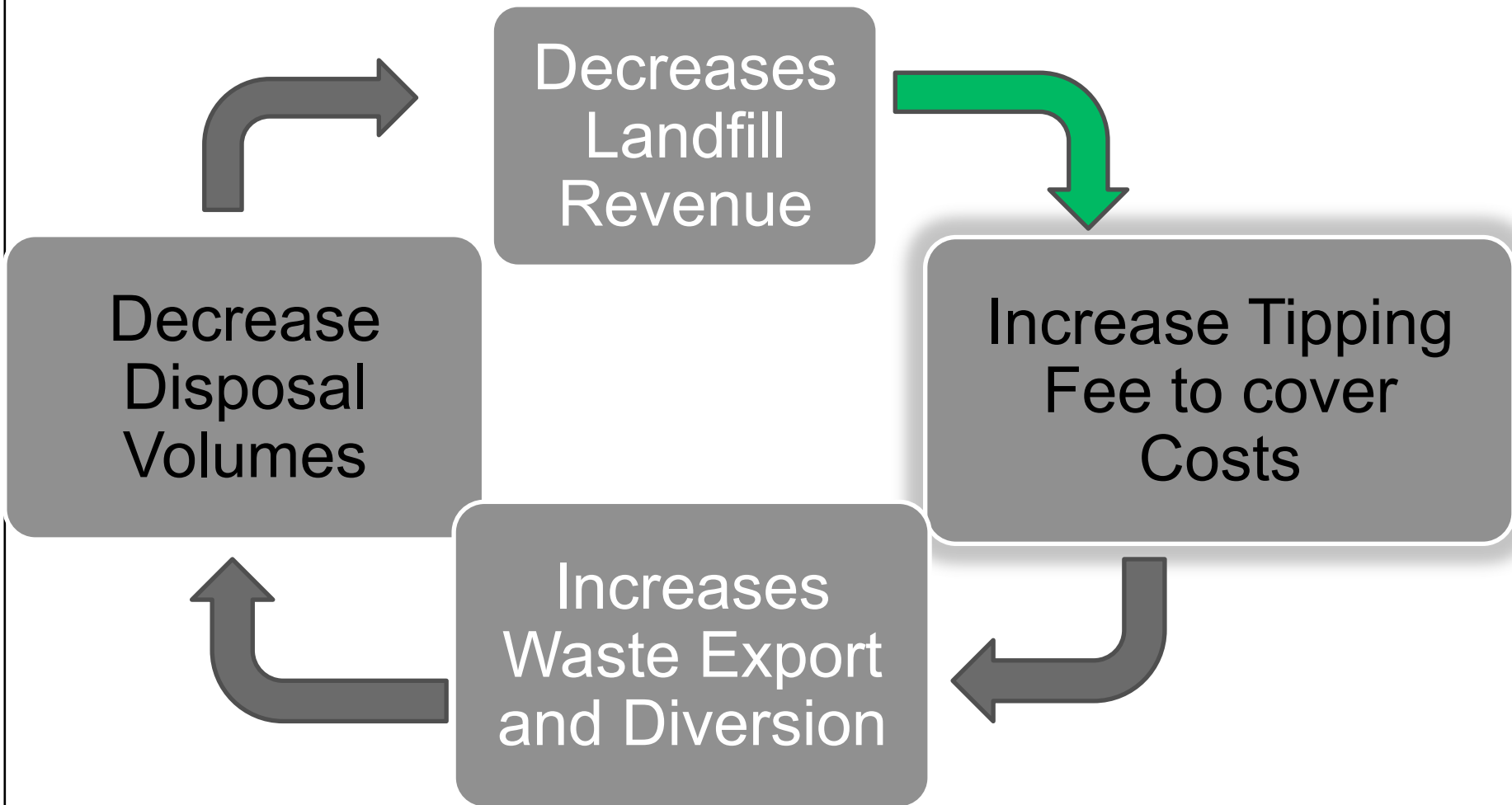
## Current Business Model



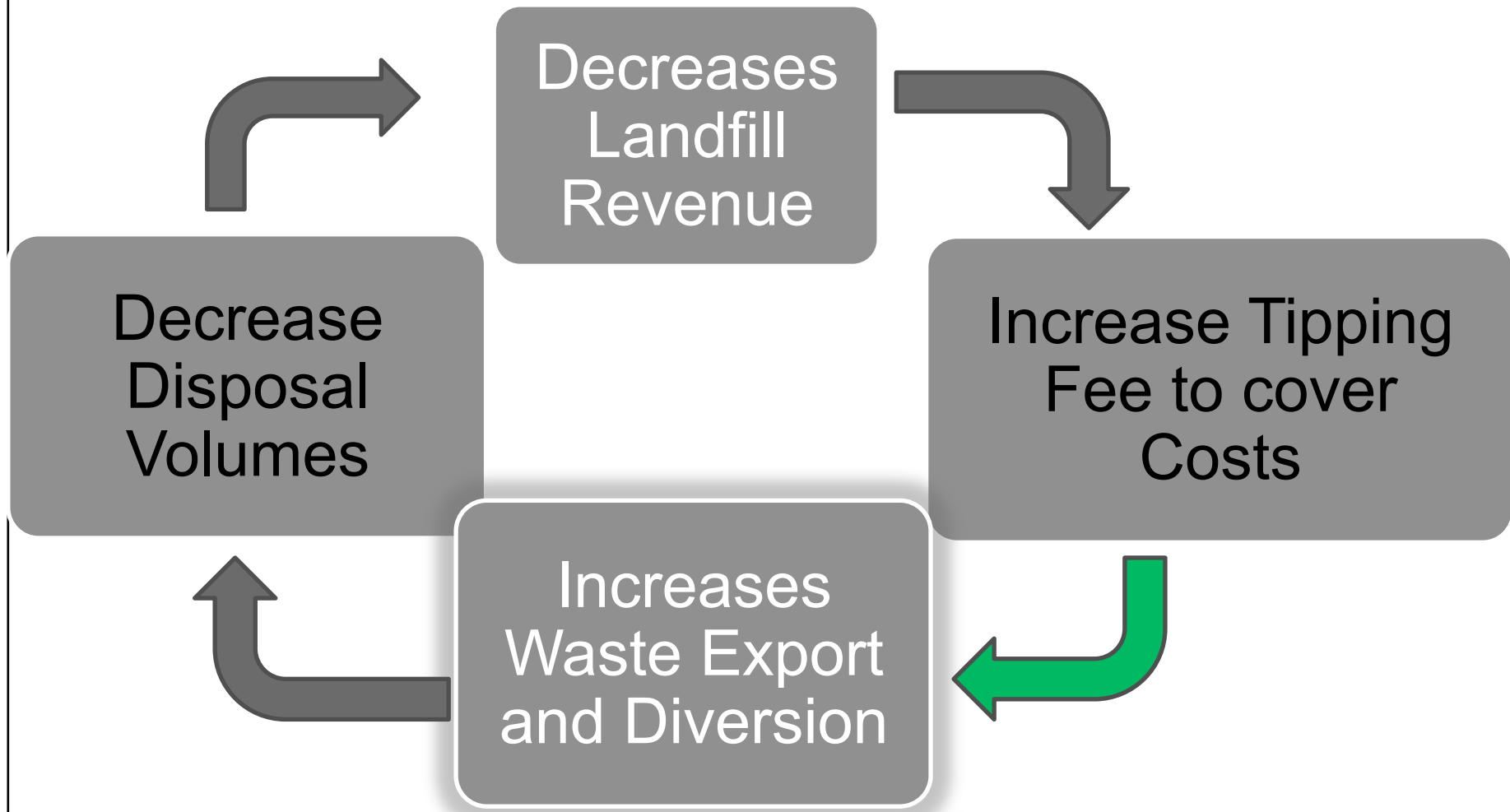
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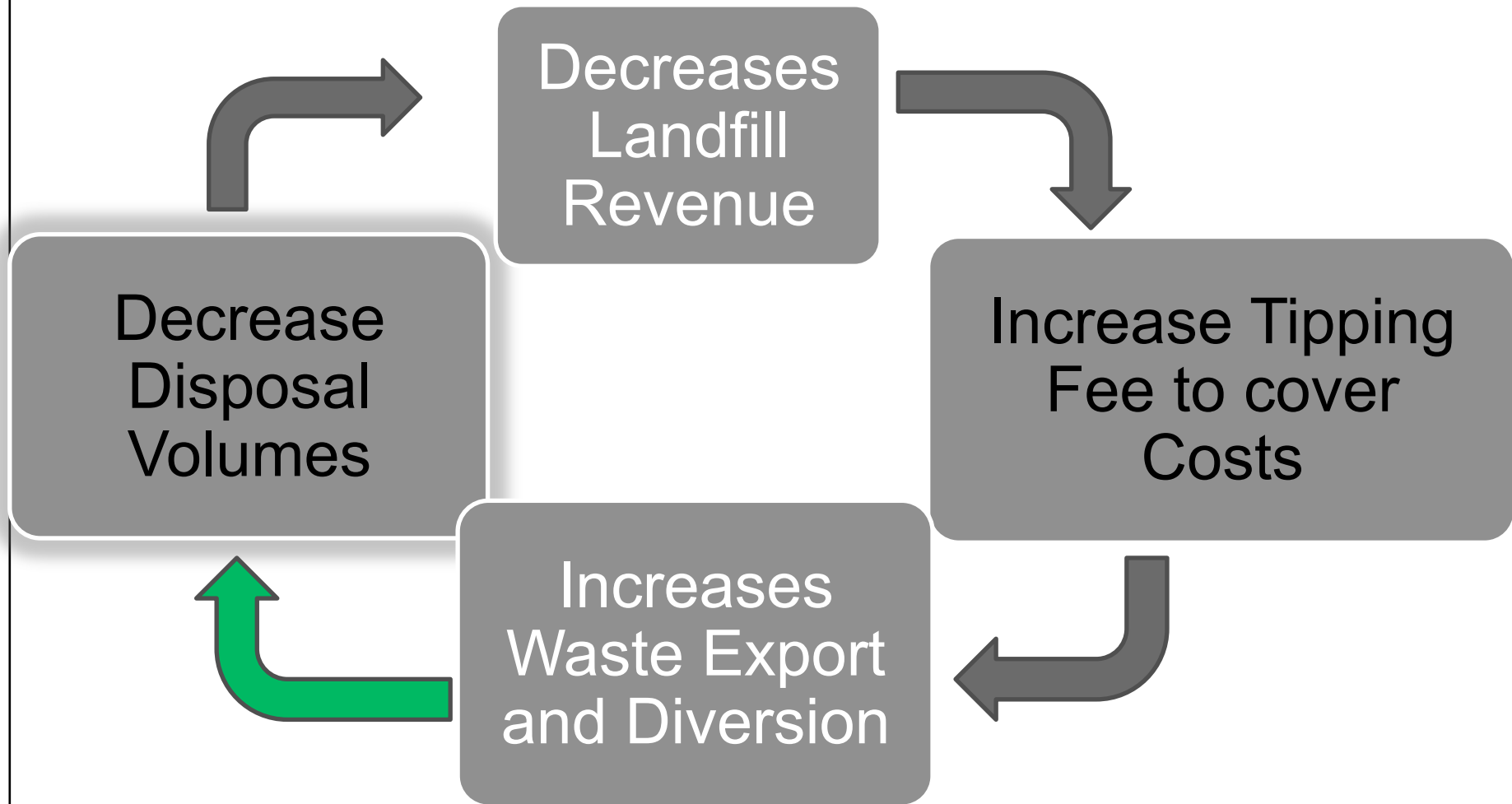
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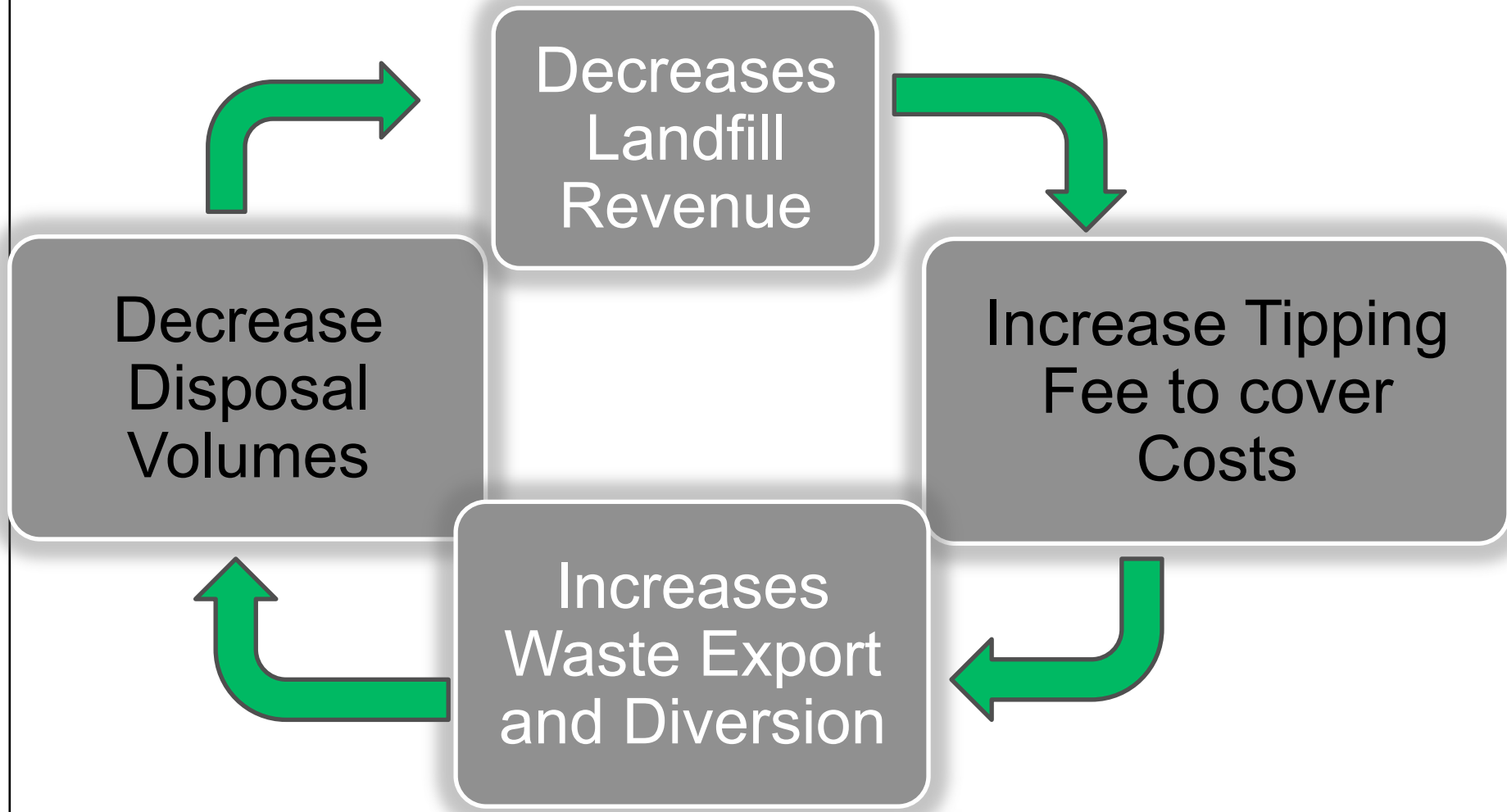
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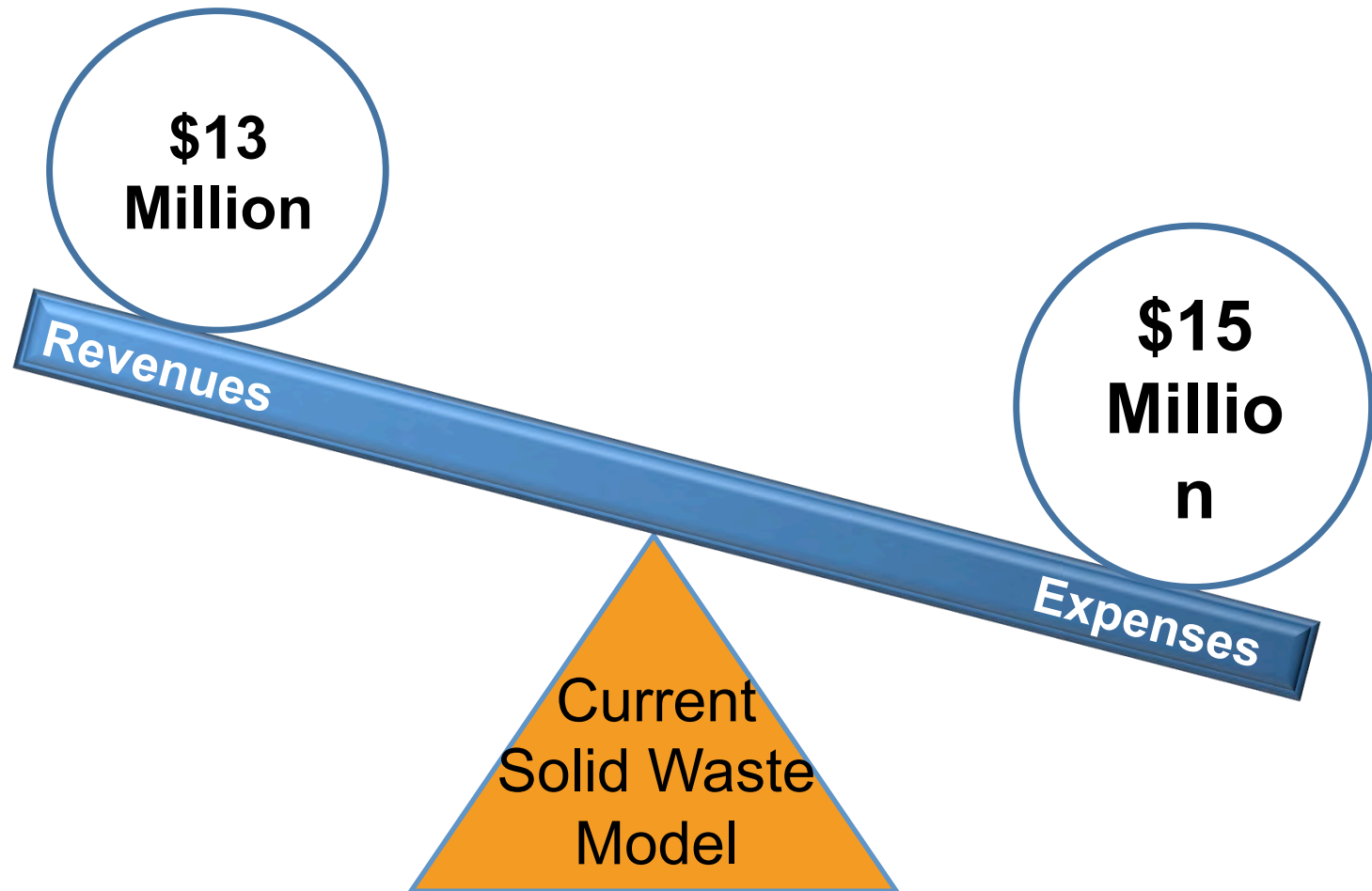


## Current Business Model



## Current Business Model





# DIVERSION

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# Financial Sustainability Options

## Increase Revenue

- ~~– Tipping Fees – waste leakage~~
- ~~– Flow Control – regulatory challenges~~
- ~~– Resource Revenue (LFG, RDF...)~~
- Increase Disposal



## Tax Requisition

- Socialize Diversion / Disposal Costs

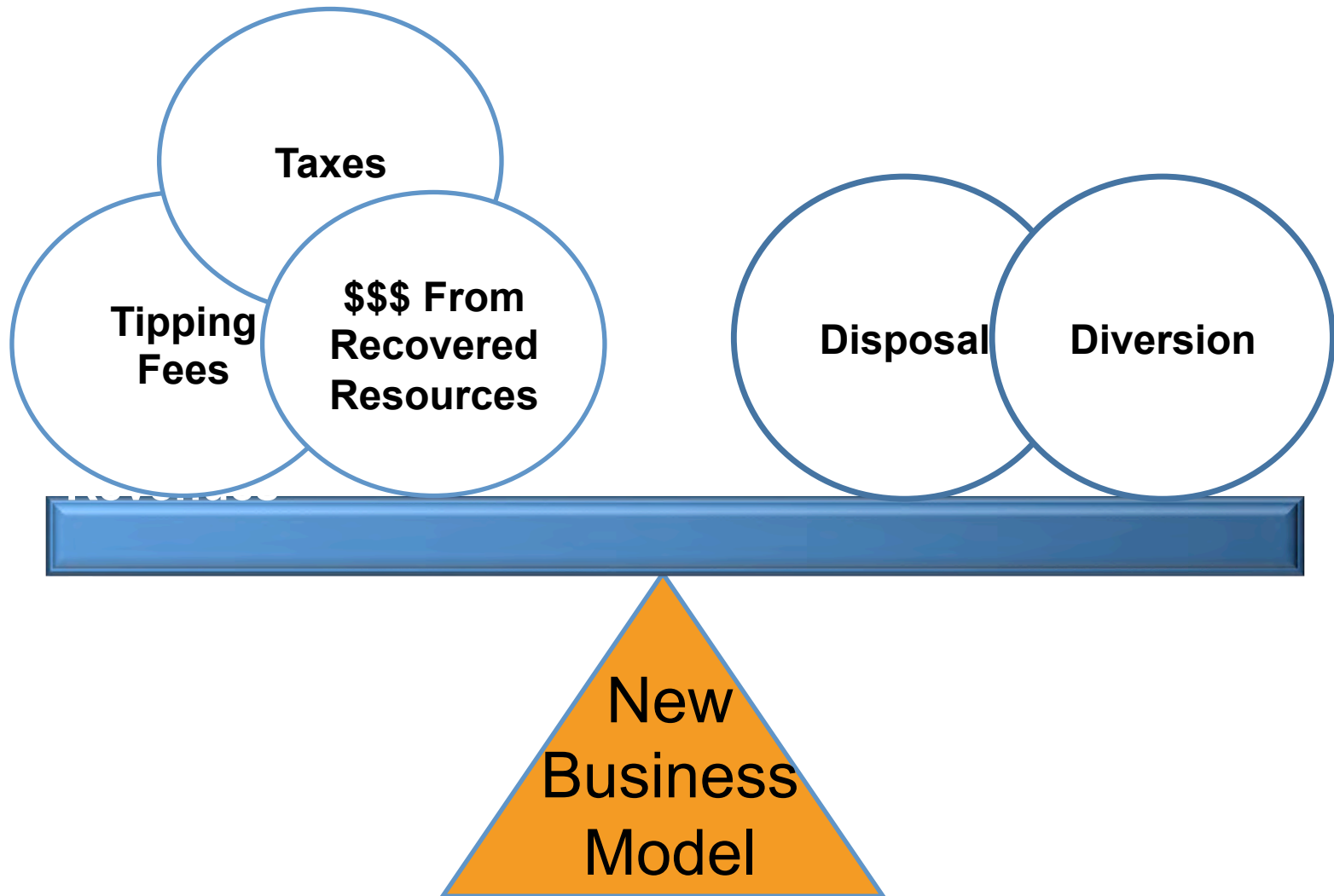


## Reduce System Costs

- ~~– Program rationalization~~
- ~~– Service level adjustments~~



# New Business Model



# Unintended Consequences of Diversion

Revenue < Cost = Financially Unsustainable

## Increase Landfill Revenue

- Increase Disposal
- Waste Import

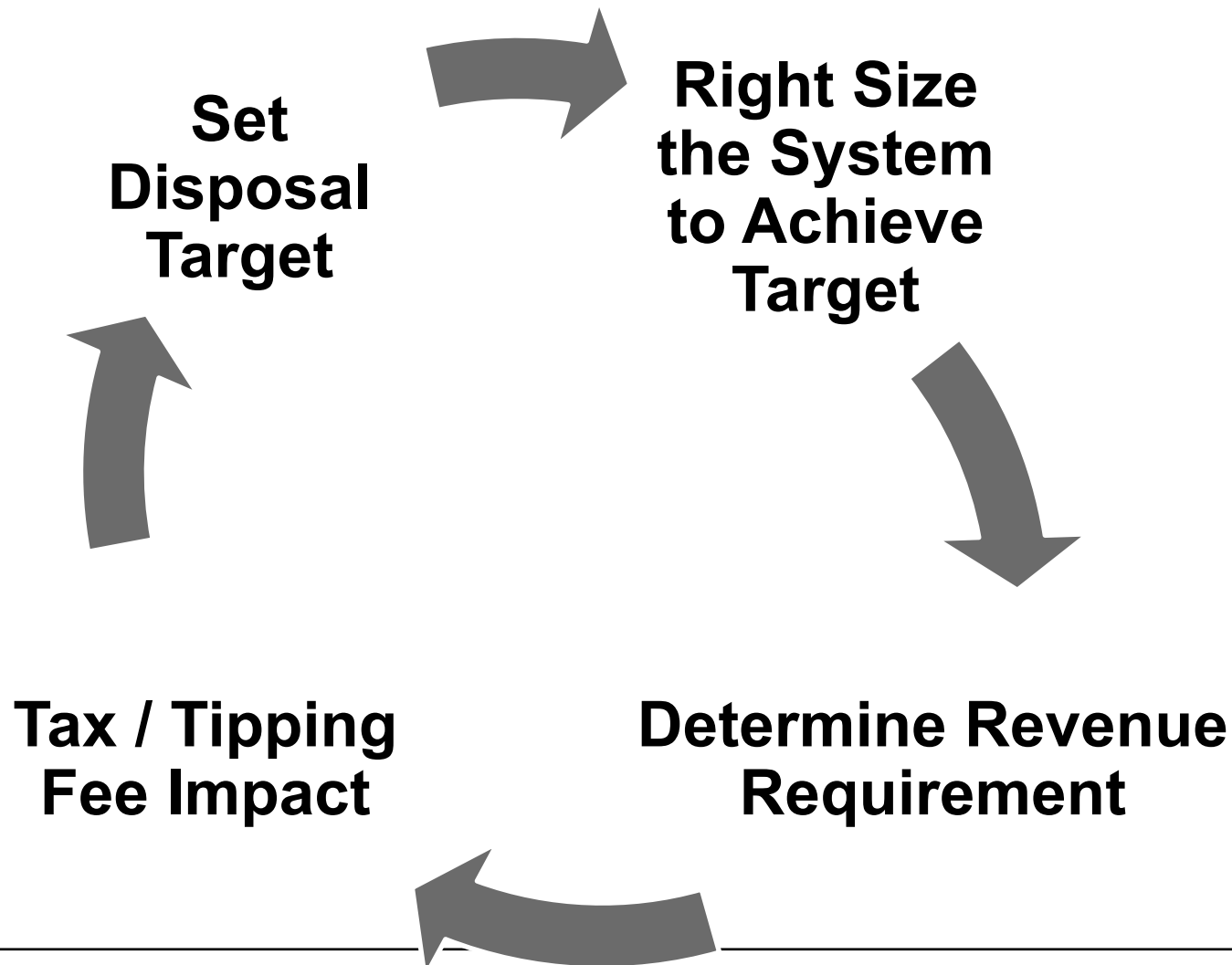


## Increase Tax Revenue

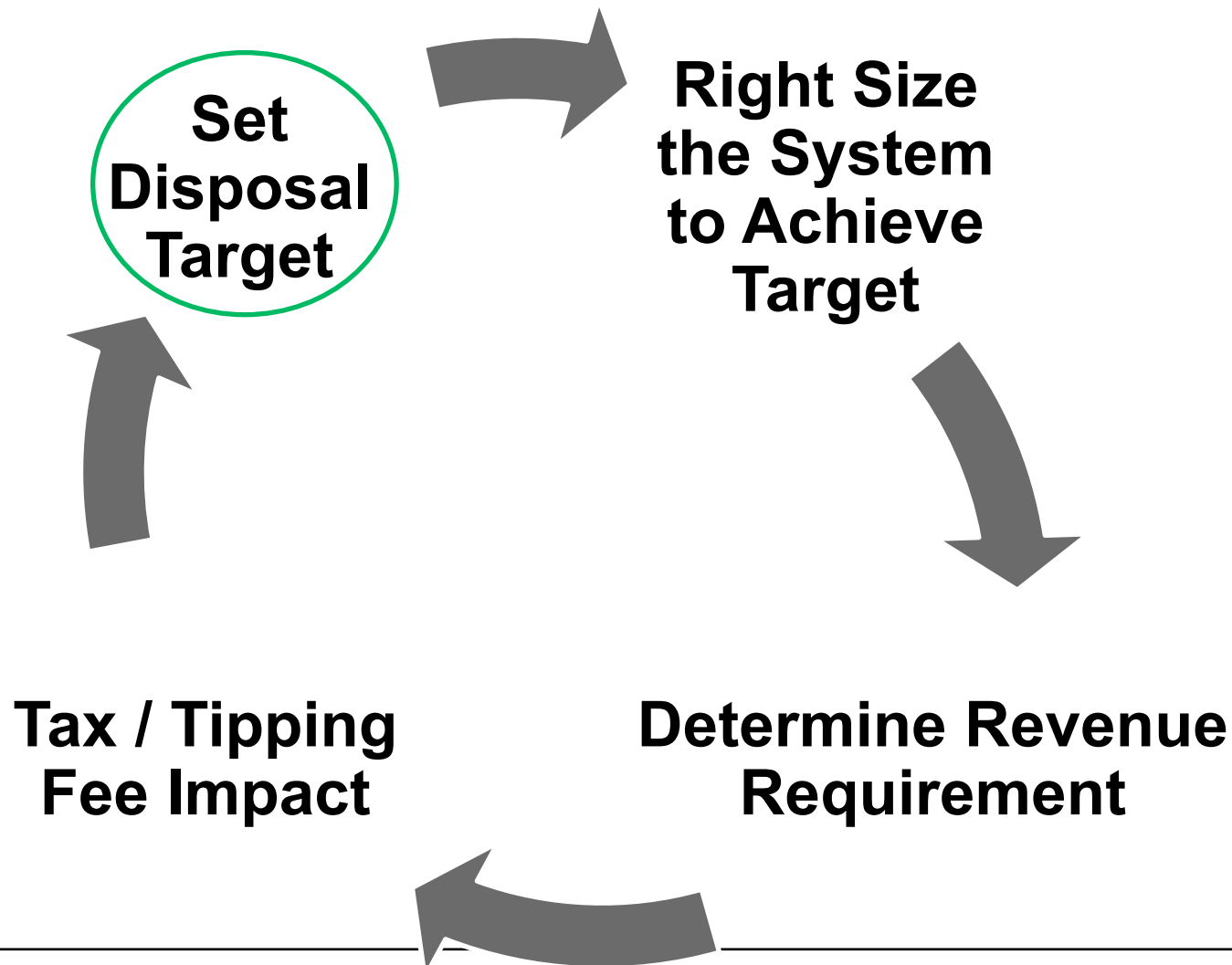
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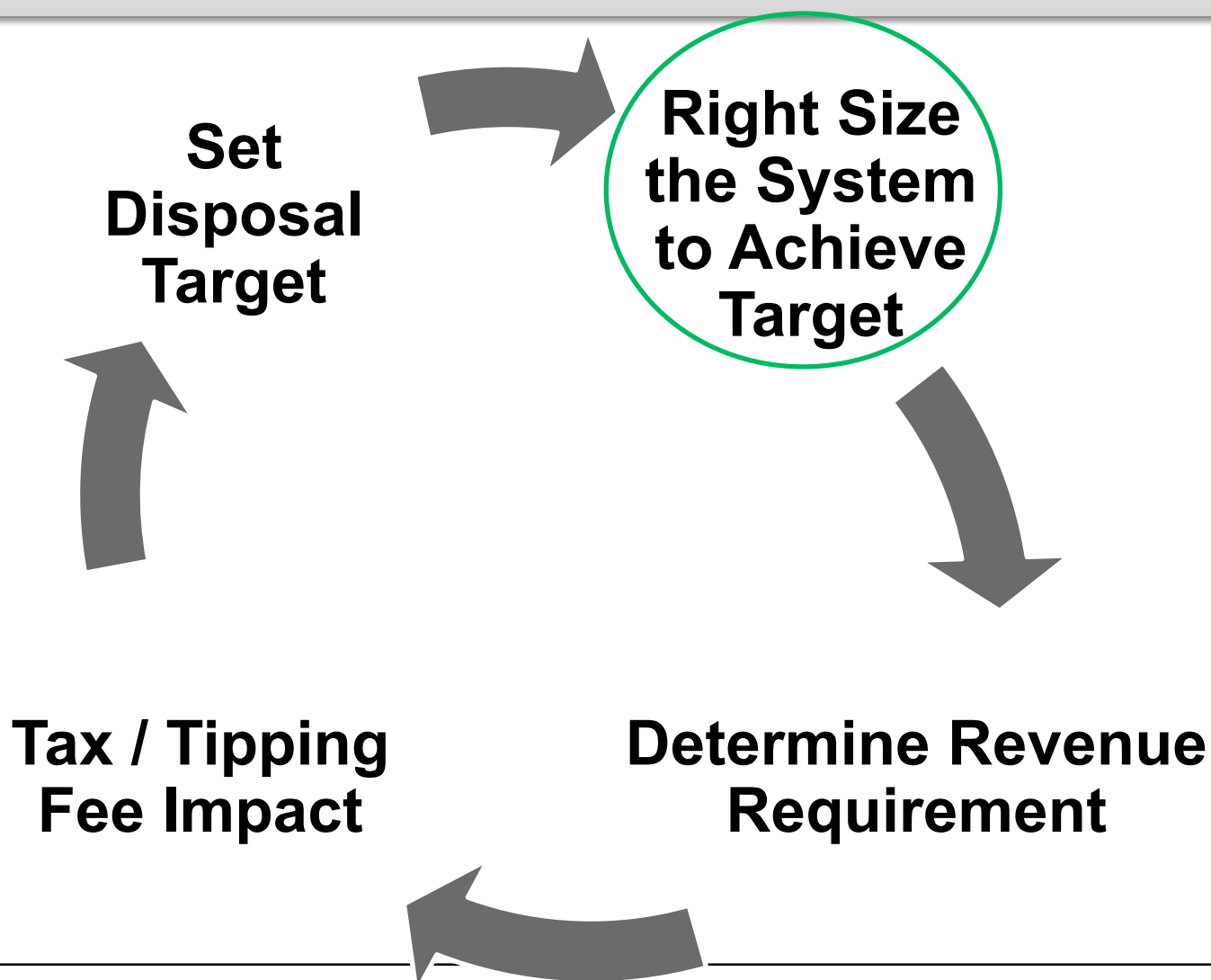
## Update CRD Solid Waste Management Plan



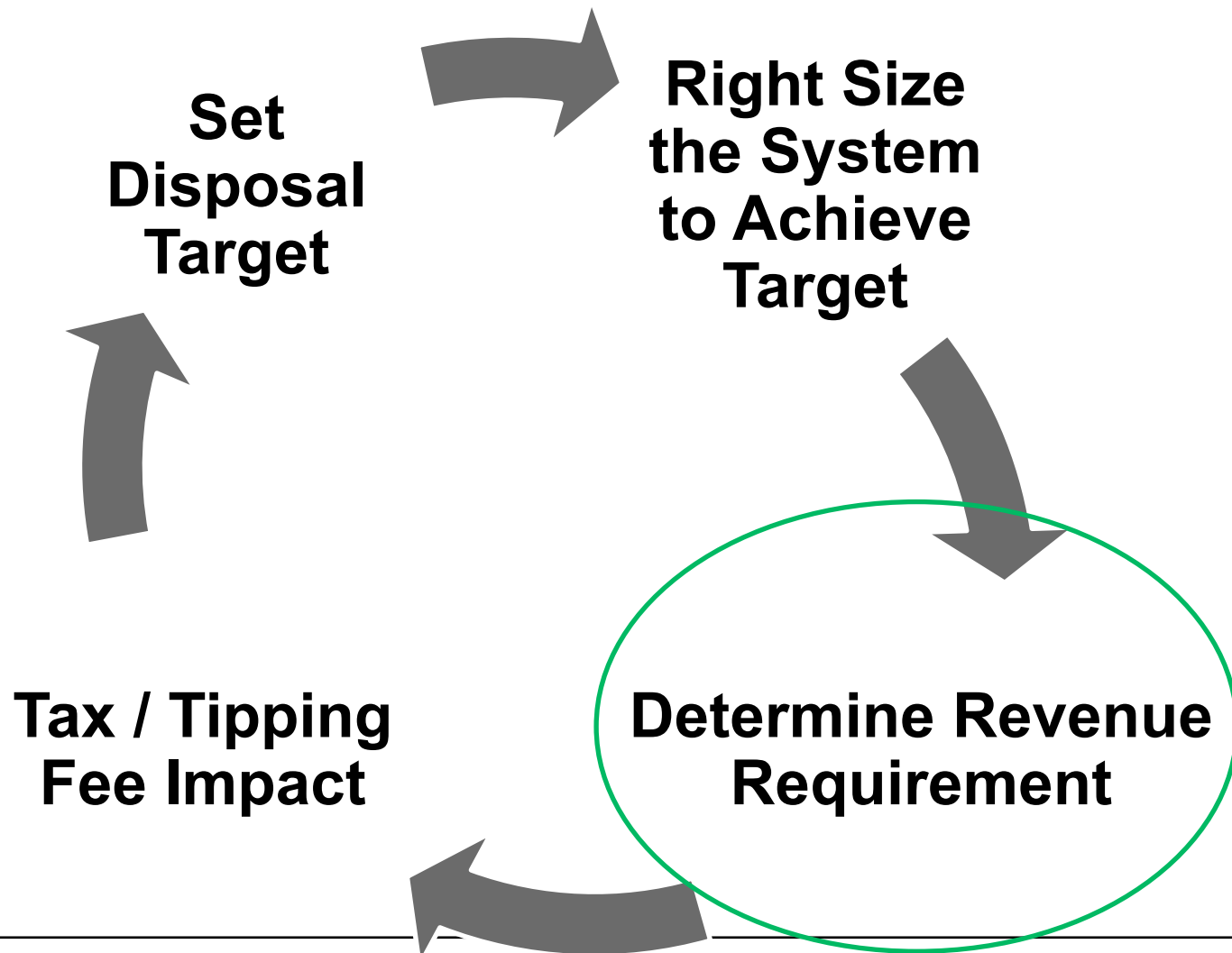
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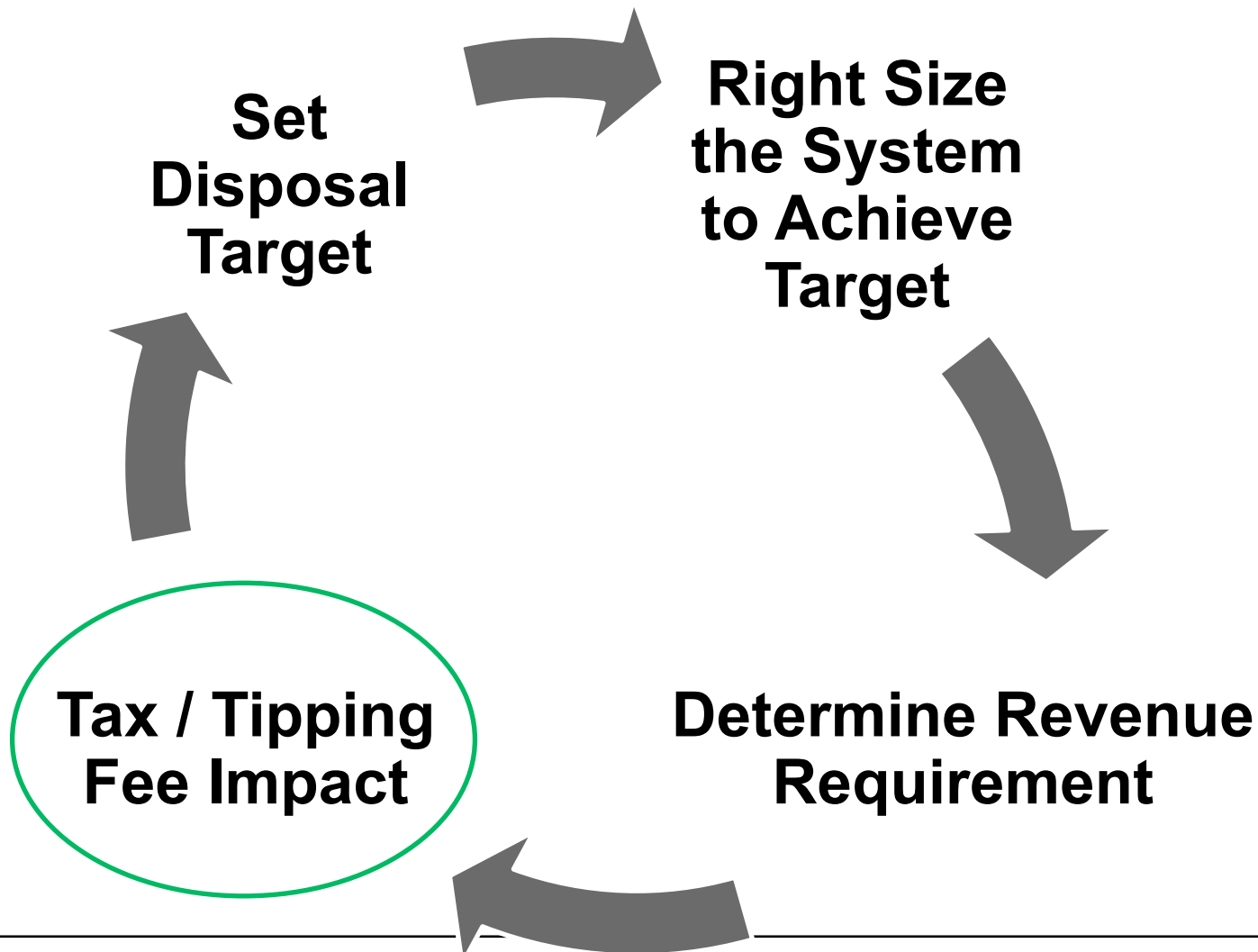
## SWMP Consultation



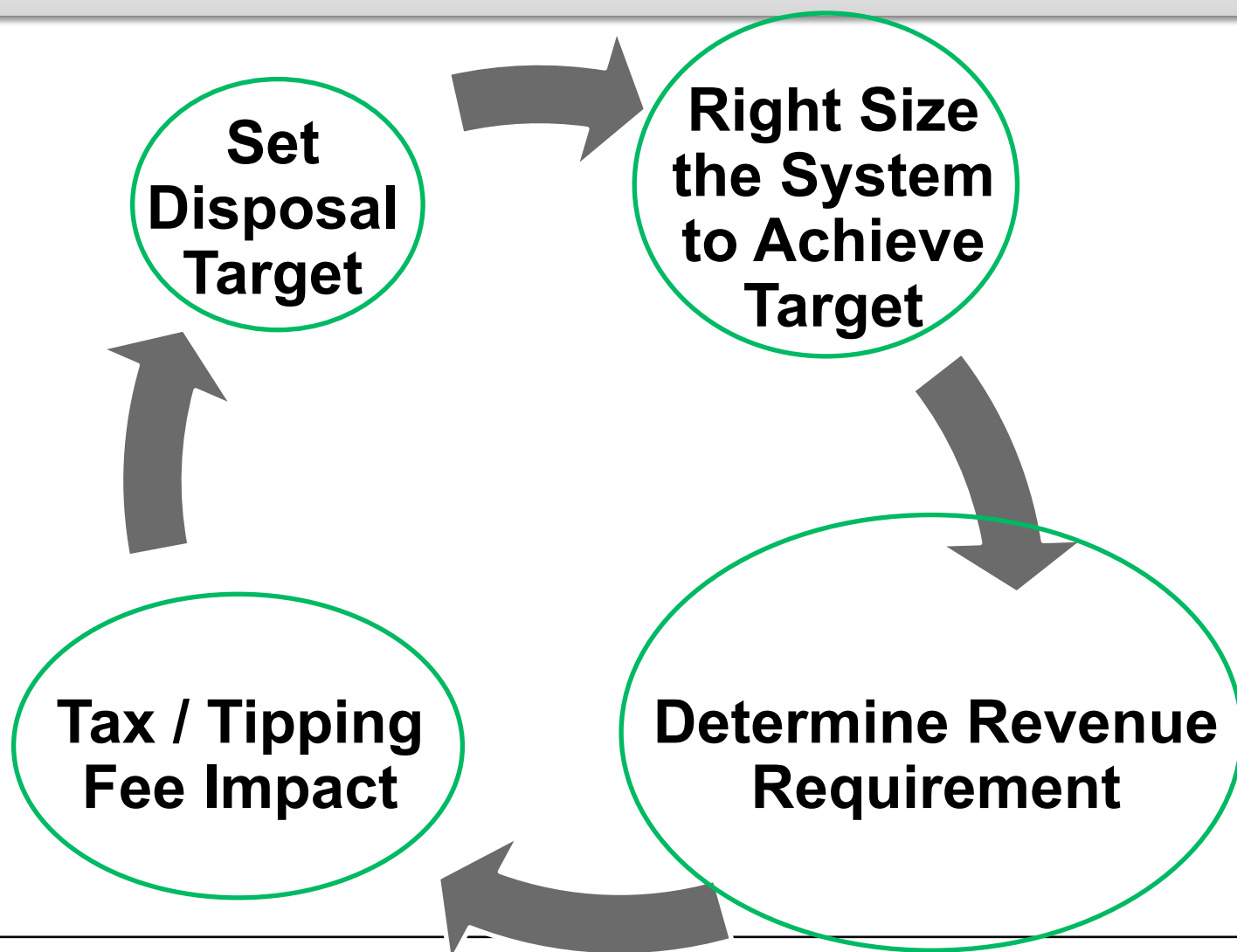
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## SWMP Consultation



Thank you.

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