



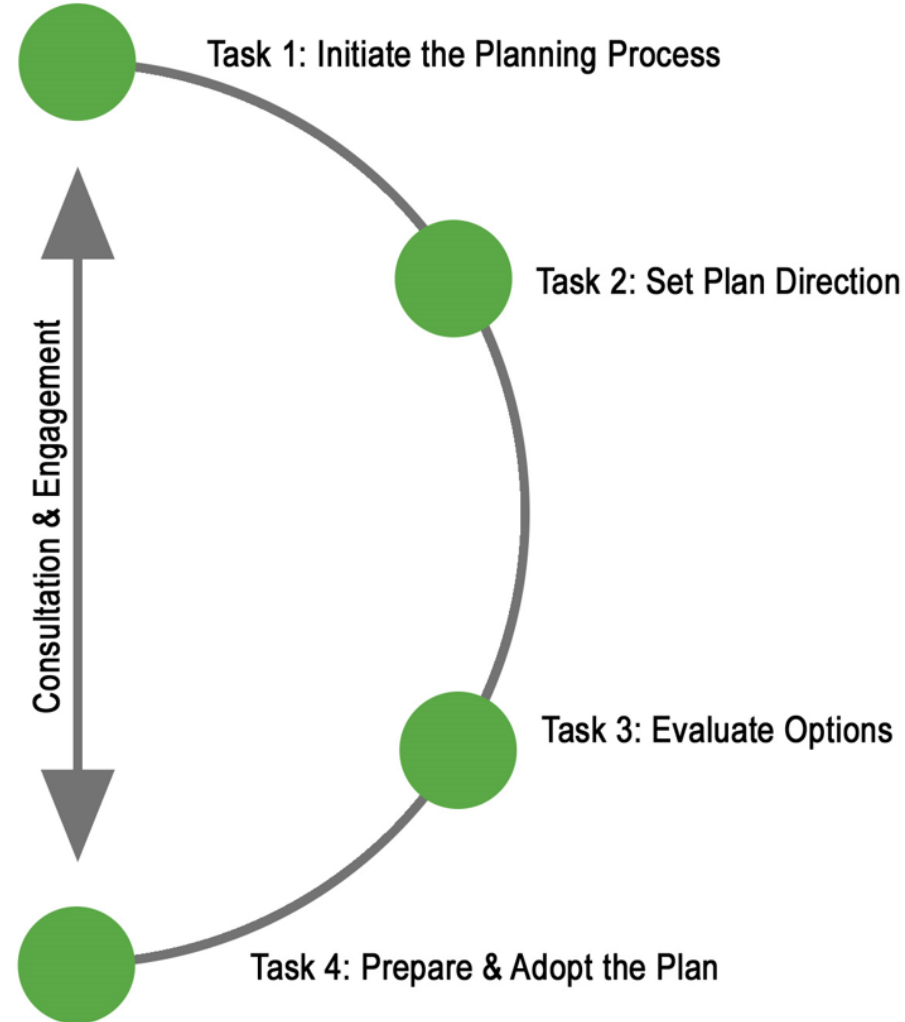
MORRISON HERSHFIELD

# Facility Focused Opportunities/Issues for the CSRD's SWMP Update

Presentation to PTAC on May 2, 2024



# Plan Update Process



# Meeting Outline

- Plan update process (*<5 min*)
- Review ‘what we have heard’
  - *Identified Opportunities/Issues (15 min)*
- Facility Focused Options (*60-80 min*)
  - *Discussion on potential options and actions*
- Potential impacts (*5 min*)
- Next steps (*5 min*)

## **After Meeting:**

Follow-up survey to gauge your priorities and any additional feedback



# Strategy Overview - What we have heard

1

Improve Waste Prevention (Memo 1)

2

Improve Access to Three-Stream Curbside Collection (Memo 1)

3

Improve Organics Diversion (Memo 1)

4

Improve Education and Enforcement (Memo 1)

5

Improve ICI Waste Diversion Through Regulatory Requirements and Education (Memo 2)

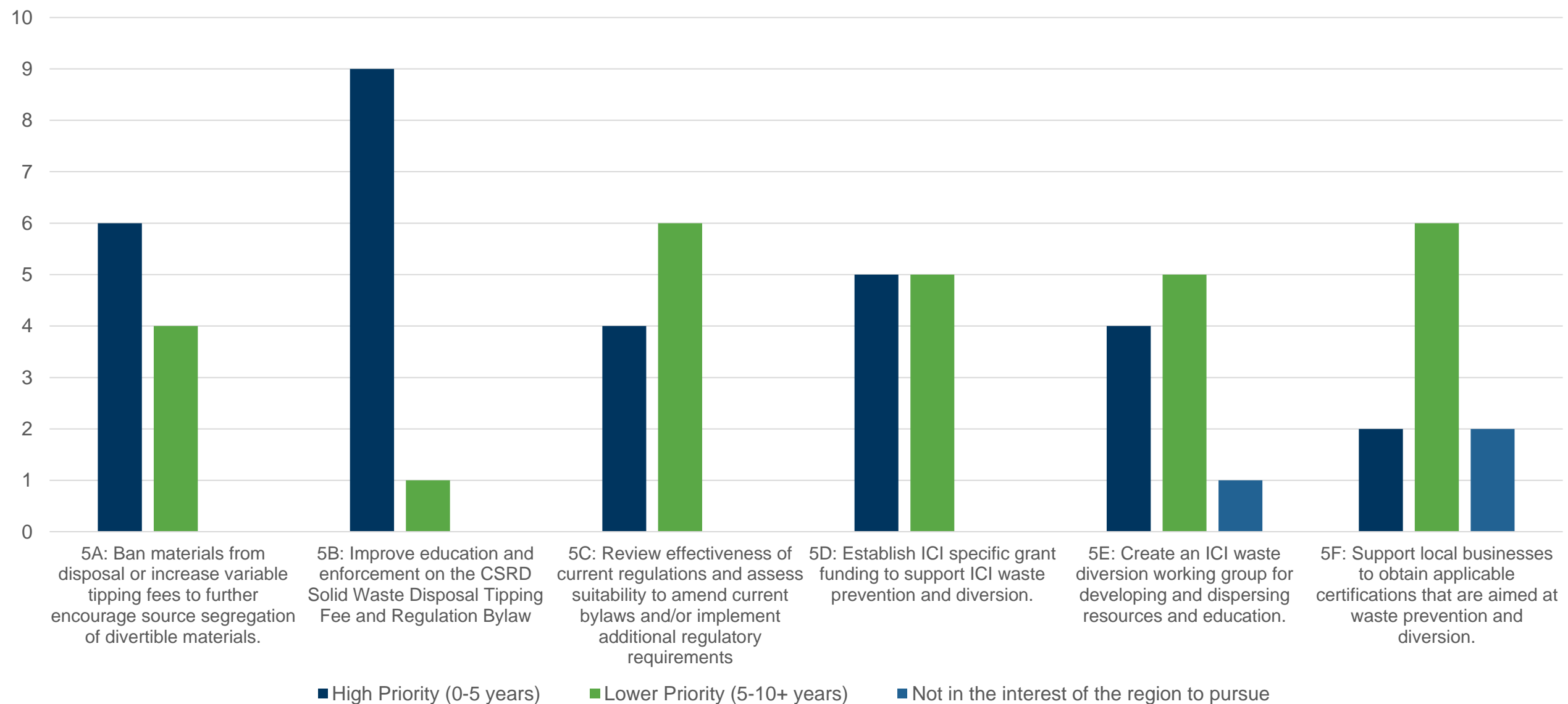
6

Improve C&D Waste Diversion (Memo 2)

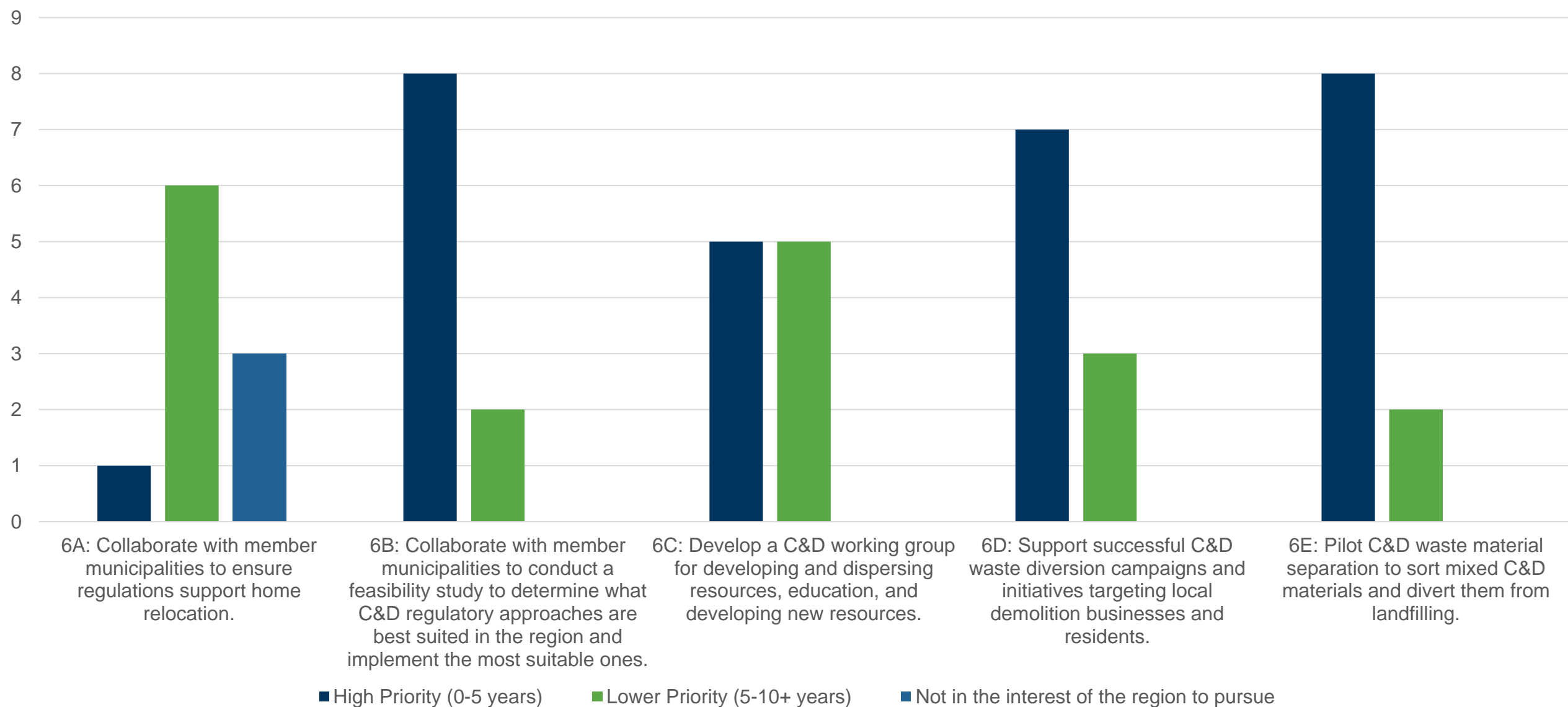


# ICI and C&D Waste Reduction PTAC Priorities and Feedback on Strategies 5&6

# Priorities – Strategy 5: ICI Waste Diversion



# Priorities – Strategy 6: C&D Waste Diversion



Questions/Feedback?

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# Overview of Potential Facility Focused Strategies

7

Regionalize the CSRD Landfills

30 min

8

Improve Transfer Station Network to Increase the Operational Efficiency and Level of Service to Users

20 min

9

Continue to Subsidize Recycling Services in the CSRD Where Appropriate

15 min



# Facility Focused Options

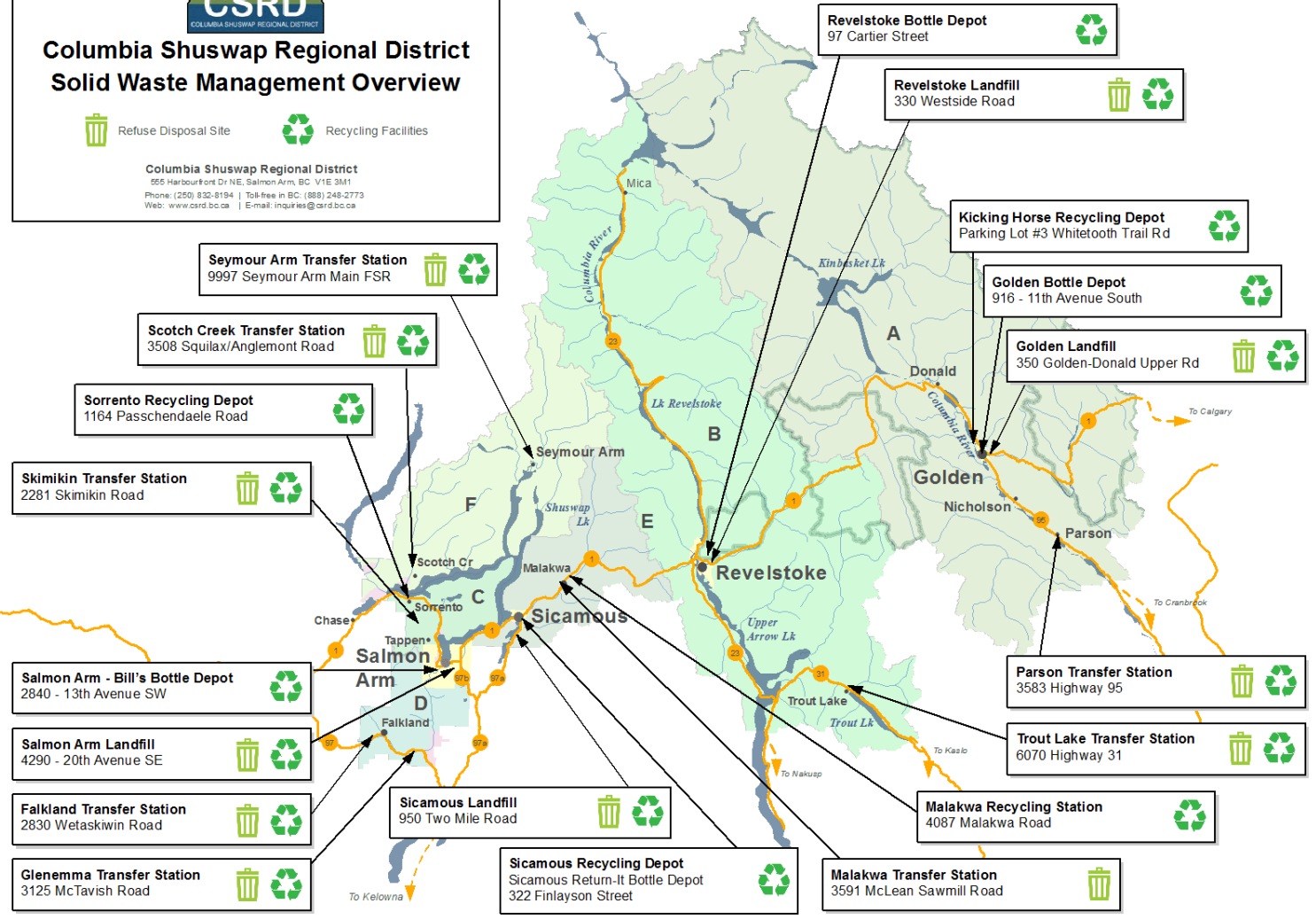
## Strategies 7- 9



**Columbia Shuswap Regional District**  
Solid Waste Management Overview

 Refuse Disposal Site    
  Recycling Facilities

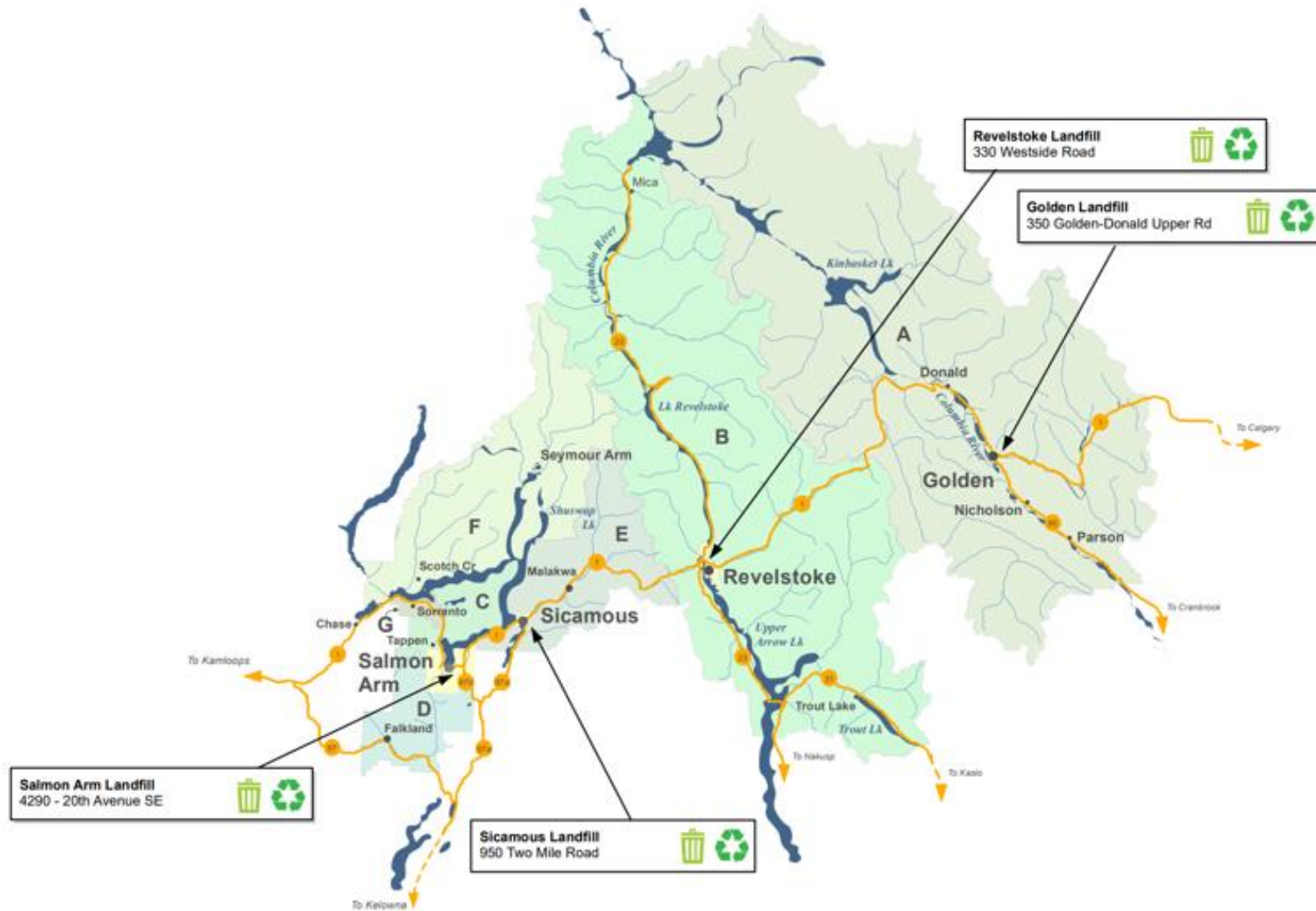
Columbia Shuswap Regional District  
 555 Harbourfort Dr NE, Salmon Arm, BC V1E 3M1  
 Phone: (250) 832-8194 | Toll-free in BC: (888) 248-2773  
 Web: www.csr.bc.ca | E-mail: inquiries@csr.bc.ca



# Context:

- 18 facilities
  - 4 landfills
  - 8 transfer stations
  - 3 private depots

# The CSRD Landfills



# The CSRD Wastesheds

<b>Golden</b>	<ul style="list-style-type: none"><li>▪ Servicing 7,300 people</li><li>▪ Golden Landfill and one unscaled transfer station (Parson Transfer Station)</li></ul>
<b>Revelstoke</b>	<ul style="list-style-type: none"><li>▪ Servicing 8,900 people (population fluctuates due to tourism)</li><li>▪ Revelstoke Landfill and one unscaled transfer station (Trout Lake Transfer Station)</li></ul>
<b>Salmon Arm</b>	<ul style="list-style-type: none"><li>▪ Servicing 36,400 people</li><li>▪ Salmon Arm Landfill, two scaled transfer stations (Skimikin, Scotch Creek) and four unscaled transfer stations (Falkland, Glenemma, Malakwa, and Seymour Arm)</li></ul>
<b>Sicamous</b>	<ul style="list-style-type: none"><li>▪ Servicing 3,400 people (population fluctuates due to tourism)</li><li>▪ Sicamous Landfill</li></ul>

# The CSRD Wastesheds

## % Waste in Year per Wasteshed

<b>Golden</b> <b>11%</b>	<ul style="list-style-type: none"><li>▪ Servicing 7,300 people</li><li>▪ Golden Landfill and one unscaled transfer station (Parson Transfer Station)</li></ul>
<b>Revelstoke</b> <b>16%</b>	<ul style="list-style-type: none"><li>▪ Servicing 8,900 people (population fluctuates due to tourism)</li><li>▪ Revelstoke Landfill and one unscaled transfer station (Trout Lake Transfer Station)</li></ul>
<b>Salmon Arm</b> <b>66%</b>	<ul style="list-style-type: none"><li>▪ Servicing 36,400 people</li><li>▪ Salmon Arm Landfill, two scaled transfer stations (Skimikin, Scotch Creek) and four unscaled transfer stations (Falkland, Glenemma, Malakwa, and Seymour Arm)</li></ul>
<b>Sicamous</b> <b>7%</b>	<ul style="list-style-type: none"><li>▪ Servicing 3,400 people (population fluctuates due to tourism)</li><li>▪ Sicamous Landfill</li></ul>

# Potential Facility Focused Strategies

## Strategy 7: Regionalize the CSRD Landfills

7A: Collaborate with the MoE to find solutions for compliance issues related to natural attenuation landfills

7B: Lobby the MoE to standardize requirements on landfills in BC (e.g., litter control)



Golden Landfill

# Compliance Issues for the CSRDs Landfills

- Ongoing compliance issues at the landfills
- Only Phase 2 of Salmon Arm Landfill is an engineered landfill
- All four CSRD landfills are natural attenuation landfills





# What Does This Mean?

- Significant cost increases through either fines (MoE), costs to address compliance, or future landfill expansion.
- Three of the four landfills will need major capital upgrades.

## **Options:**

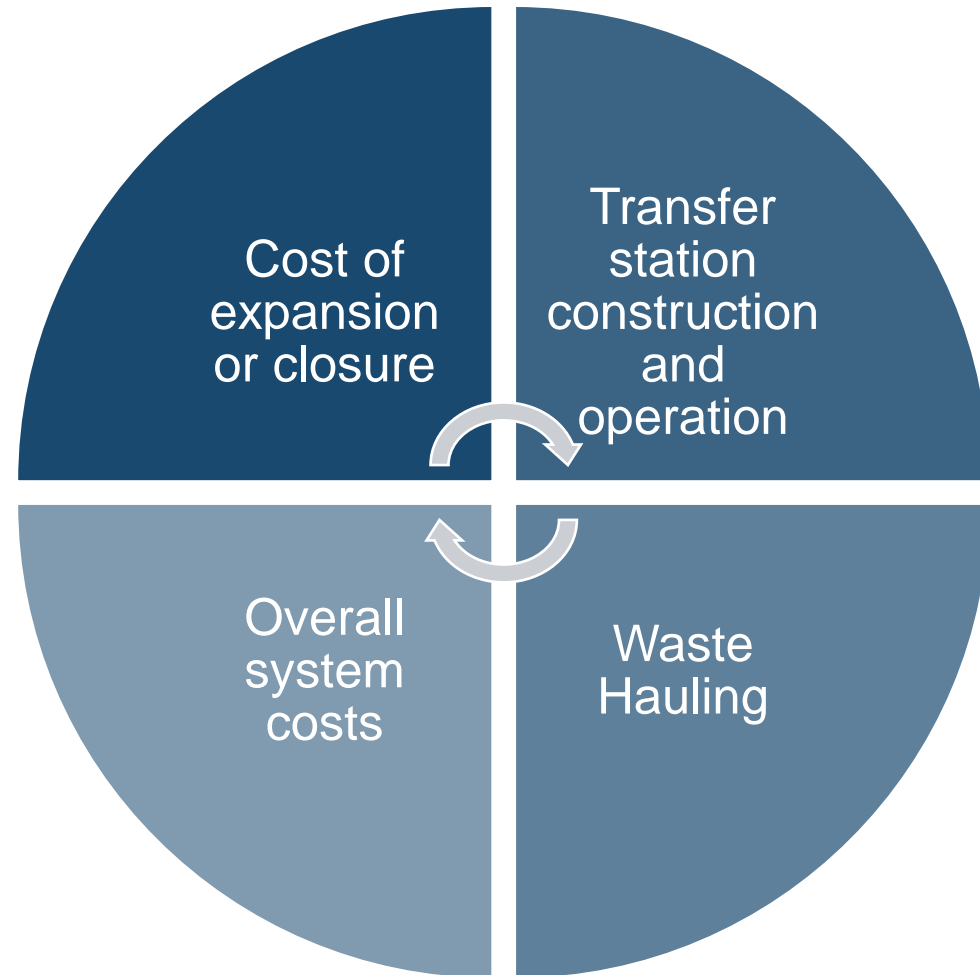
- Upgrading existing landfills to engineered landfills
- Choosing one or more landfills and converting them to transfer stations

# Overview of CSRD's Landfills and Potential Options

Landfill	Type	Capacity	Potential Options
<b>Golden</b>	Natural attenuation	Phase 1 = 3 years (2027) Other phases = 59 years	<ol style="list-style-type: none"> <li>1. Continue operations with engineered phase</li> <li>2. Close and haul waste</li> <li>3. Close and develop new landfill</li> <li>4. Close and build WTE facility</li> </ol>
<b>Revelstoke</b>	Natural attenuation	Phase 2 Closure in 2026 Phase 3 = 43 years	Options not yet assessed
<b>Salmon Arm</b>	Natural attenuation and engineered landfill	All phases = 71 years	No options considered - continue operation
<b>Sicamous</b>	Natural attenuation	All phases = 40 years	<ol style="list-style-type: none"> <li>1. Vertical build-out</li> <li>2. Short-term closure</li> <li>3. Progressive closure</li> </ol>

# Next Steps to Determine Future of CSRD's Landfills

- Assess impacts on all regional landfills in the context of the entire solid waste system



# Comments/ Questions on Strategy 7

## Strategy 7: Regionalize the CSRD Landfills

7A: Collaborate with the MoE to find solutions for compliance issues related to natural attenuation landfills.

7B: Lobby the MoE to standardize requirements on landfills in BC (e.g., litter control).



# Potential Facility Focused Strategies

## Strategy 8: Improve transfer station network to increase the operational efficiency and level of service to users

8A: Assess user demands at facilities and increase operational hours at selected sites to improve access and meet seasonal demands.

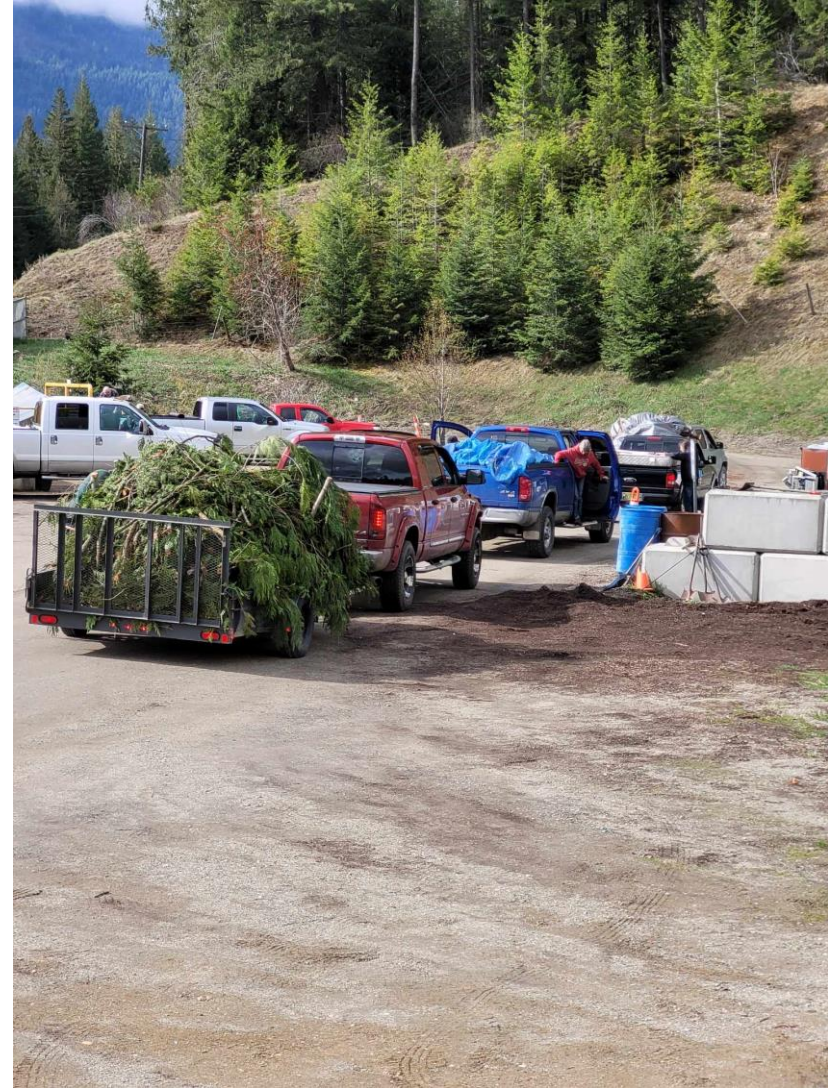
8B: Conduct a transfer station assessment with siting and design options for sites that justify being amalgamated into centralized upgraded transfer station facilities.



Skimikin Transfer Station: customer lineup

# Feedback from Residents about Transfer Stations

- Higher levels of services
  - Acceptance of a wider range of materials (composting, recycling)
  - Improved operational hours
  - Increase in facility capacity: Scotch Creek and Skimikin
- Better signage at facilities



Skimikin Transfer Station: customer lineup

# Potential Improvements in the Salmon Arm Wasteshed

- Opportunity for developing to “one-stop-drop” facilities:
  - Unscaled transfer stations in Falkland and Glenema
  - Skimikin Transfer Station, Sorrento and Tappen Co-Op Recycling Depots
  - Malakwa Recycling Depot and Malakwa Transfer Station
  - Scotch Creek Transfer Station
  - Skimikin Transfer Station serving



# One-Stop-Drop Facilities Example

## The South Thompson (Pritchard) Eco-Depot

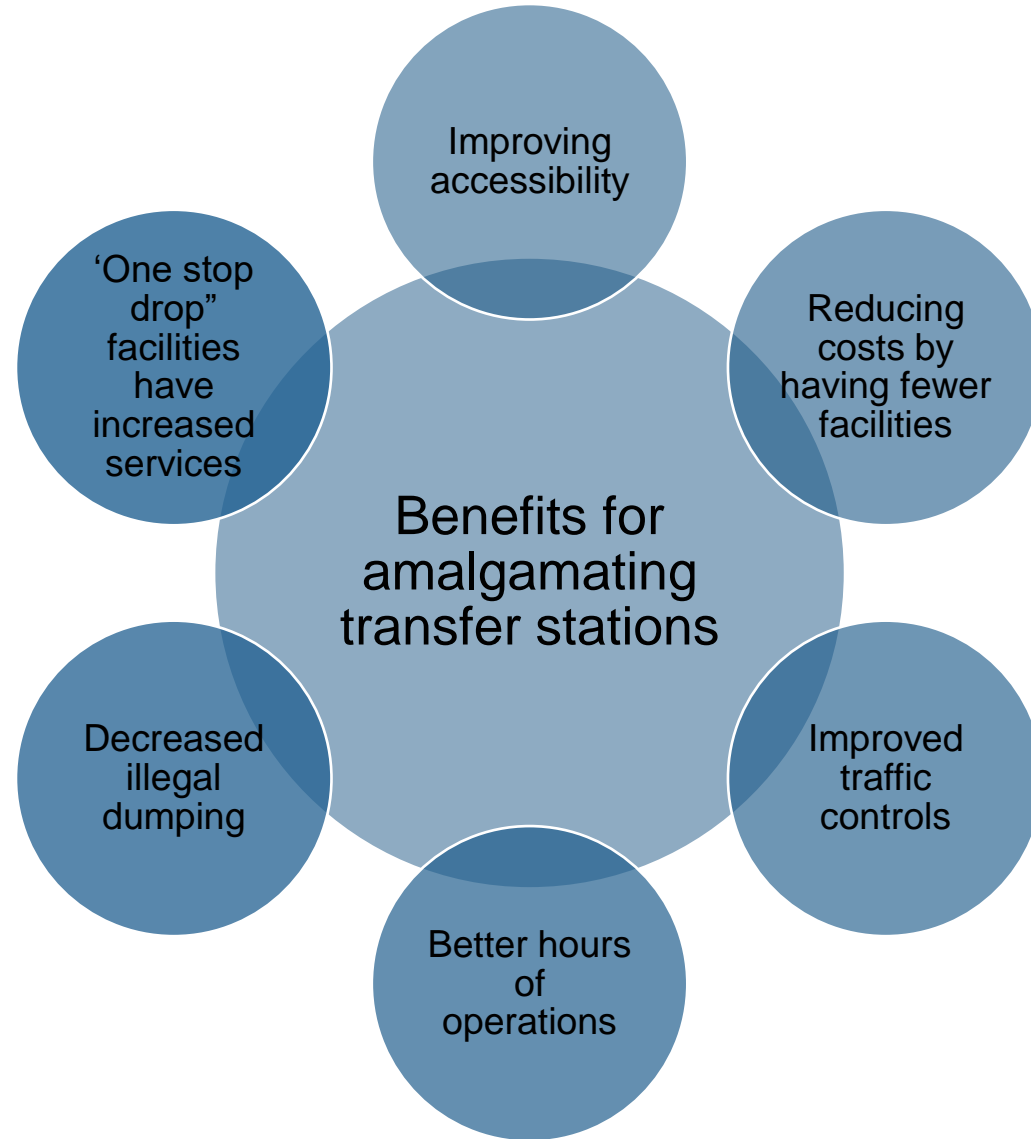
- Accepts materials (yard/garden waste, C&D waste, household hazardous waste, major appliances, mattresses, etc.)
- Materials that have no charge are collected before the scale
- Covered building where waste materials can be loaded for hauling





# Opportunity to Improve the Transfer Station Network

- Complete a transfer station review to determine costs and implications of building new facilities and amalgamating current sites



# Comments/ Questions on Strategy 8

## Strategy 8: Improve transfer station network to increase the operational efficiency and level of service to users

8A: Assess user demands at facilities and increase operational hours at selected sites to improve access and meet seasonal demands.

8B: Conduct a transfer station assessment with siting and design options for sites that justify being amalgamated into centralized upgraded transfer station facilities.



# Potential Facility Focused Strategies

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## **Strategy 9: Continue to Subsidize Recycling Services in the CSRD Where Appropriate**

9A: Continue to support recycling depots through subsidies.

9B: Continue to offer current or improved recycling services at CSRD's facilities, where appropriate.

9C: Advocate for increased stewardship support to improve accessibility to recycling and cover recycling costs.

# EPR Programs

- The cost to recycle and haul materials regulated under EPR exceeds revenue and funds from EPR.
- Partnerships with stewardship agencies offers recycling options beyond materials covered in EPR
- These services costs an extra \$300,000-\$400,000 per year to manage PPP and HHW.



# Advocating for Better Support for EPR Management

- CSRD is already member of the BC Product Stewardship Council
- Continue to engage with stewardship agencies to discuss how access can be improved
- Continue to advocate for additional funding for existing programs and services



# Comments/ Questions on Strategy 8

## Strategy 9: Continue to Subsidize Recycling Services in the CSRD Where Appropriate

9A: Continue to support recycling depots through subsidies.

9B: Continue to offer current or improved recycling services at CSRD's facilities, where appropriate.

9C: Advocate for increased stewardship support to improve accessibility to recycling and cover recycling costs.





# Potential Impacts from Strategies

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Strategy #	Strategy Theme	Costs	Staffing	Waste Hierarchy	Diversion Potential
7	Regionalize the CSRD Landfills	High	Low- Medium	Residuals Management	Low - High
8	Improve Transfer Station Network	High	Medium-High	Residuals Management & Recycling	Medium
9	Continue to Subsidize Recycling Services	Low-Medium	Low-Medium	Recycling	Medium

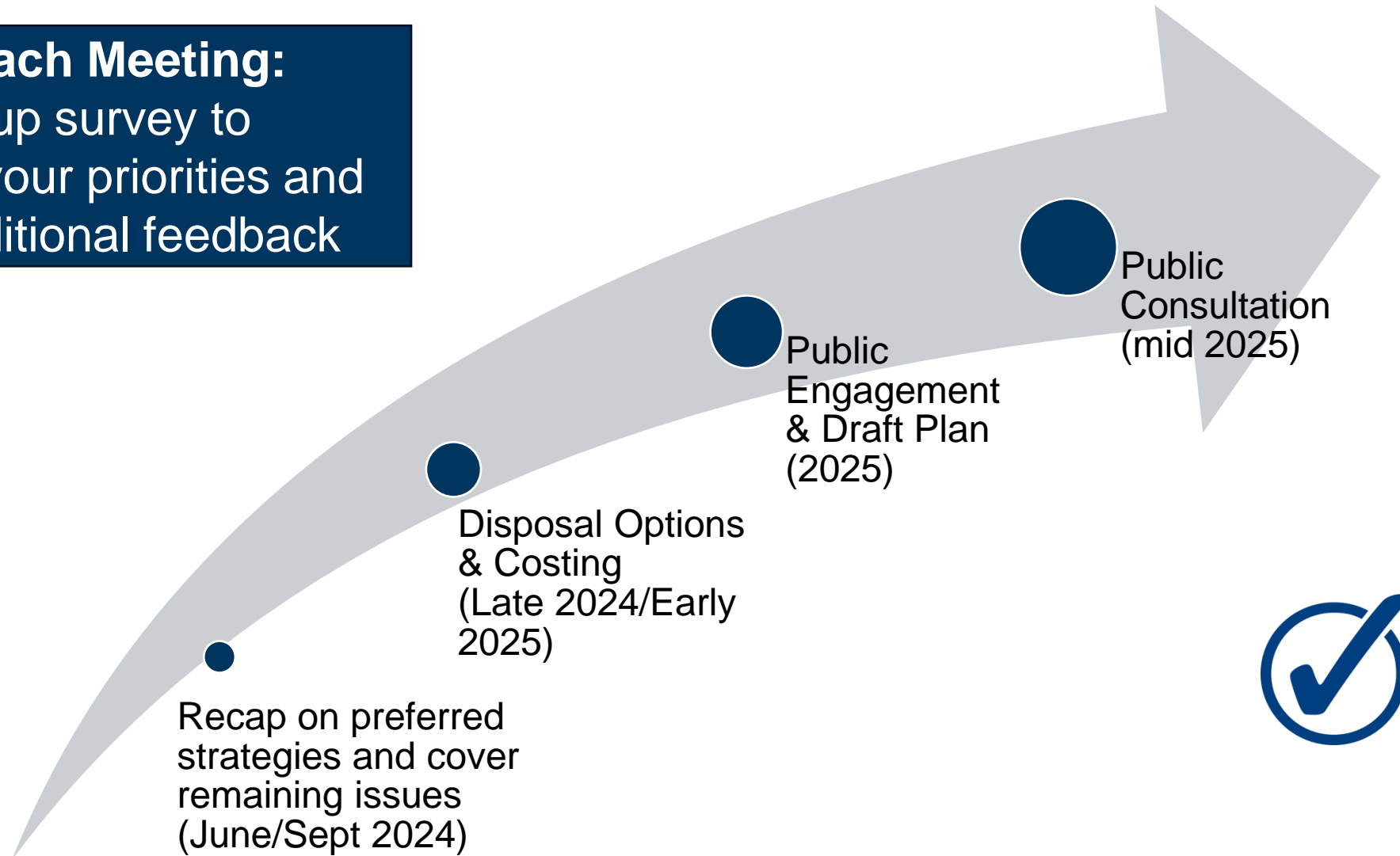




# Next Steps

# Next Steps – Future PTAC Meetings

**After Each Meeting:**  
Follow-up survey to gauge your priorities and any additional feedback



By end of 2025

- Board Approval
- Submit to MOE

Questions/Feedback?

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# Thank you!

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