



MORRISON HERSHFIELD

Potential Waste Prevention and Diversion Strategies to Address Construction, Demolition, and Renovation Waste & Other Issues

Presentation to PTAC on November 21, 2023

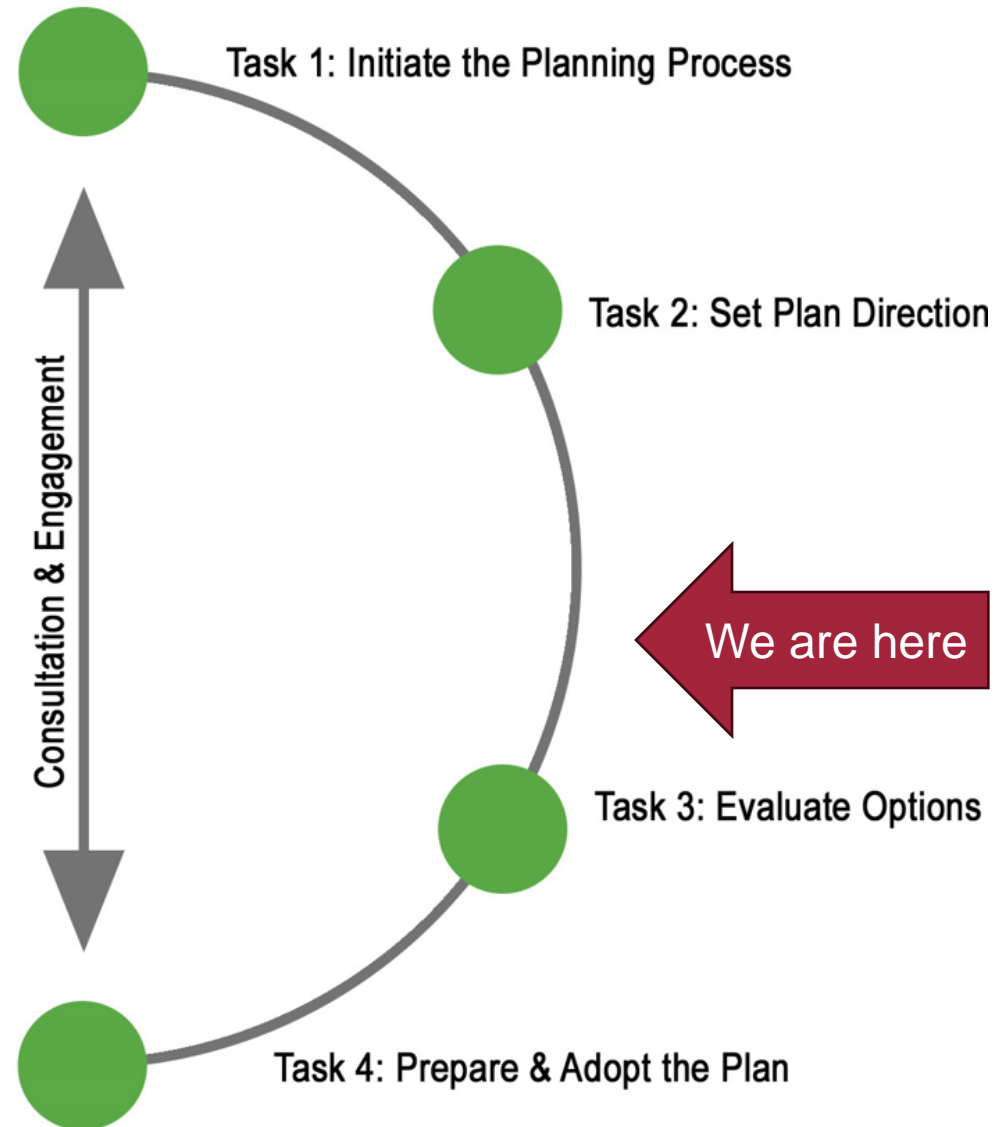


Meeting Outline

- Plan process and context (< 5 min)
- Review waste prevention and diversion priorities on strategies 1-6 from last meeting (15 min)
 - Brief discussion priorities
- Six potential strategies for construction, demolition, and renovation (CDR) and non-sector specific issues (80 min)
 - Brief discussion on each
- Potential impacts from strategies (5 min)
- Next steps (5 min)



Where We Are At

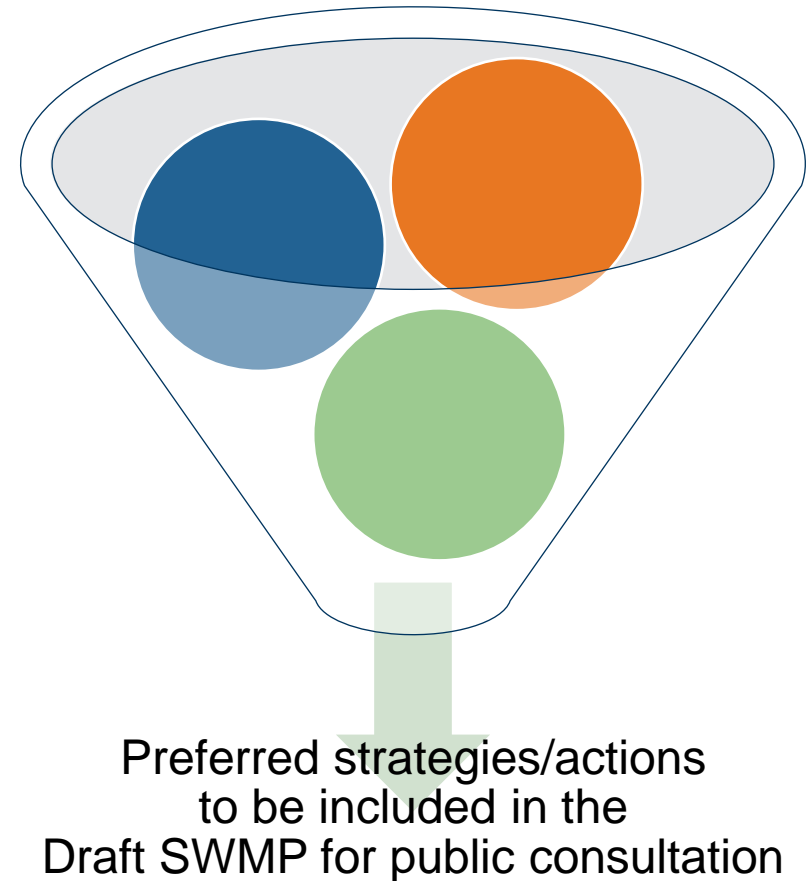


Meeting Purpose

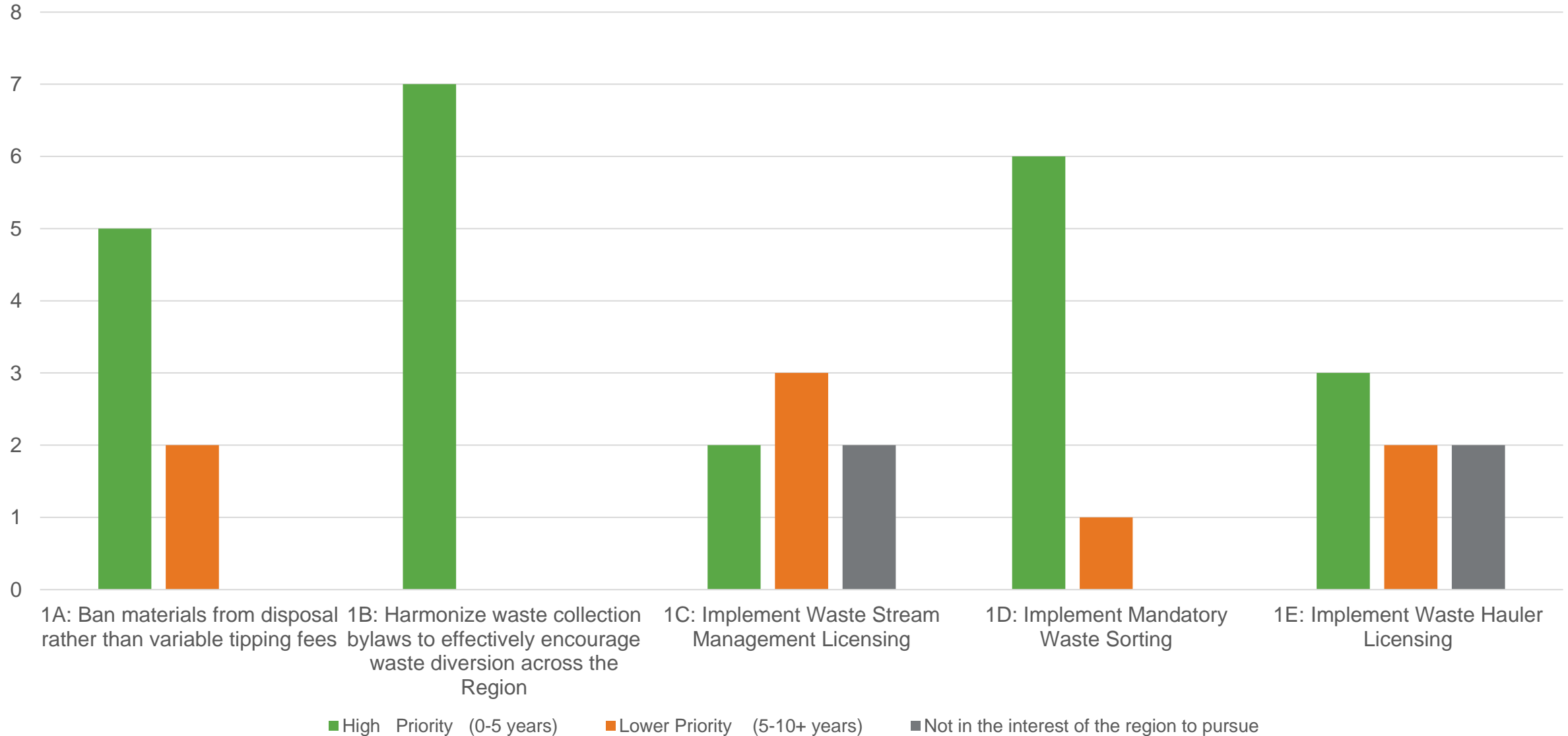
- Outline possible CDR and non-sector specific strategies and potential impacts
- Narrow down these strategies which will form the preferred strategies and actions for the Plan

After Meeting:

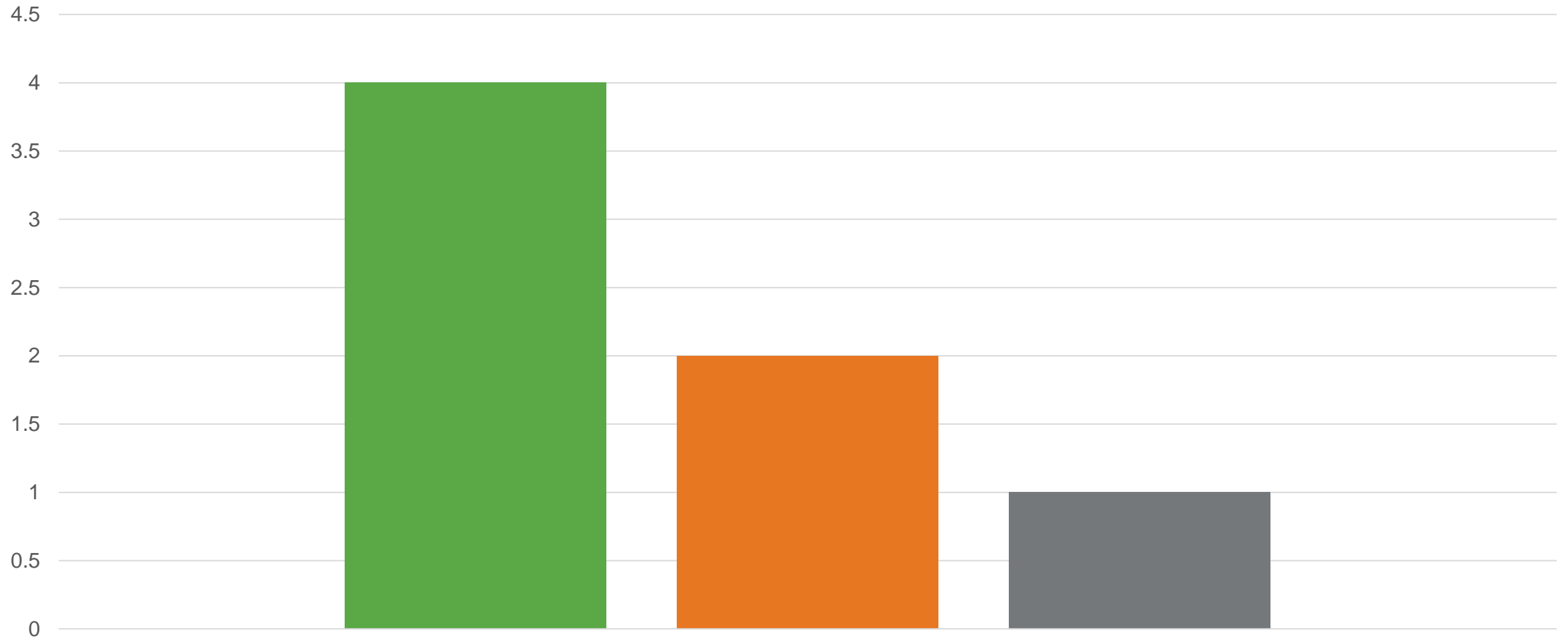
Follow-up survey to gauge your priorities and any additional feedback



Priorities - Strategy 1

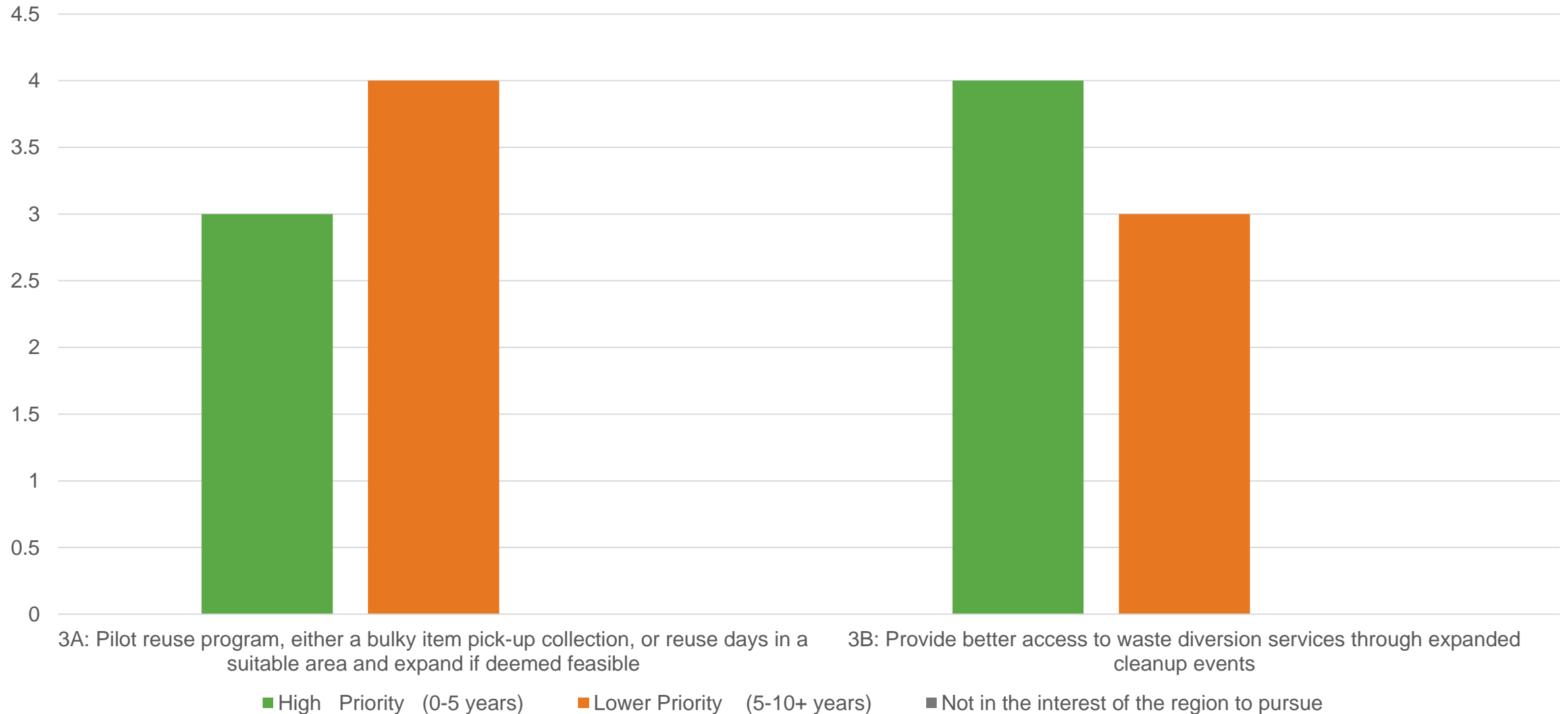


Priorities - Strategy 2

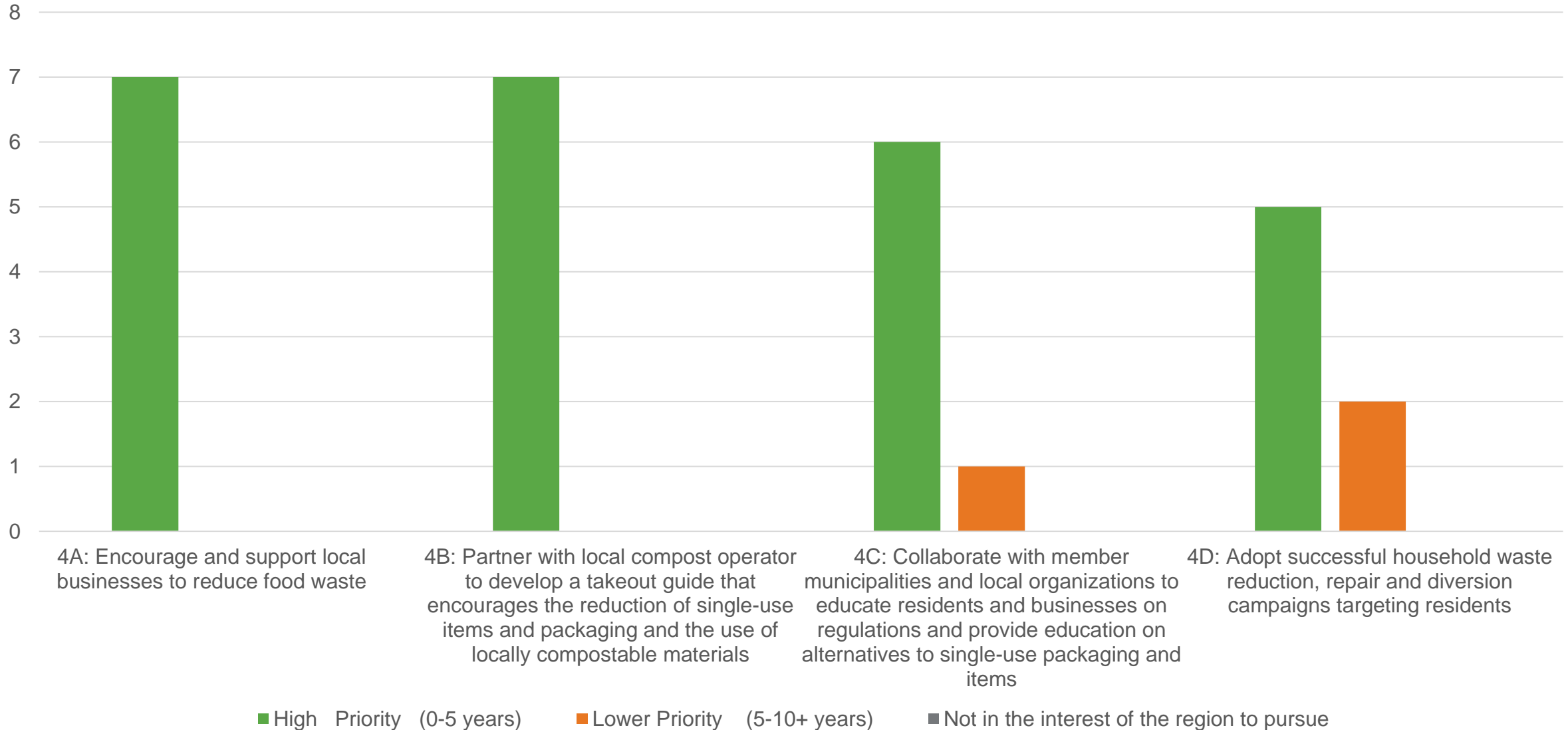


2A: Re-assess curbside recycling costs and provide better access to curbside recycling collection, if deemed desirable by residents

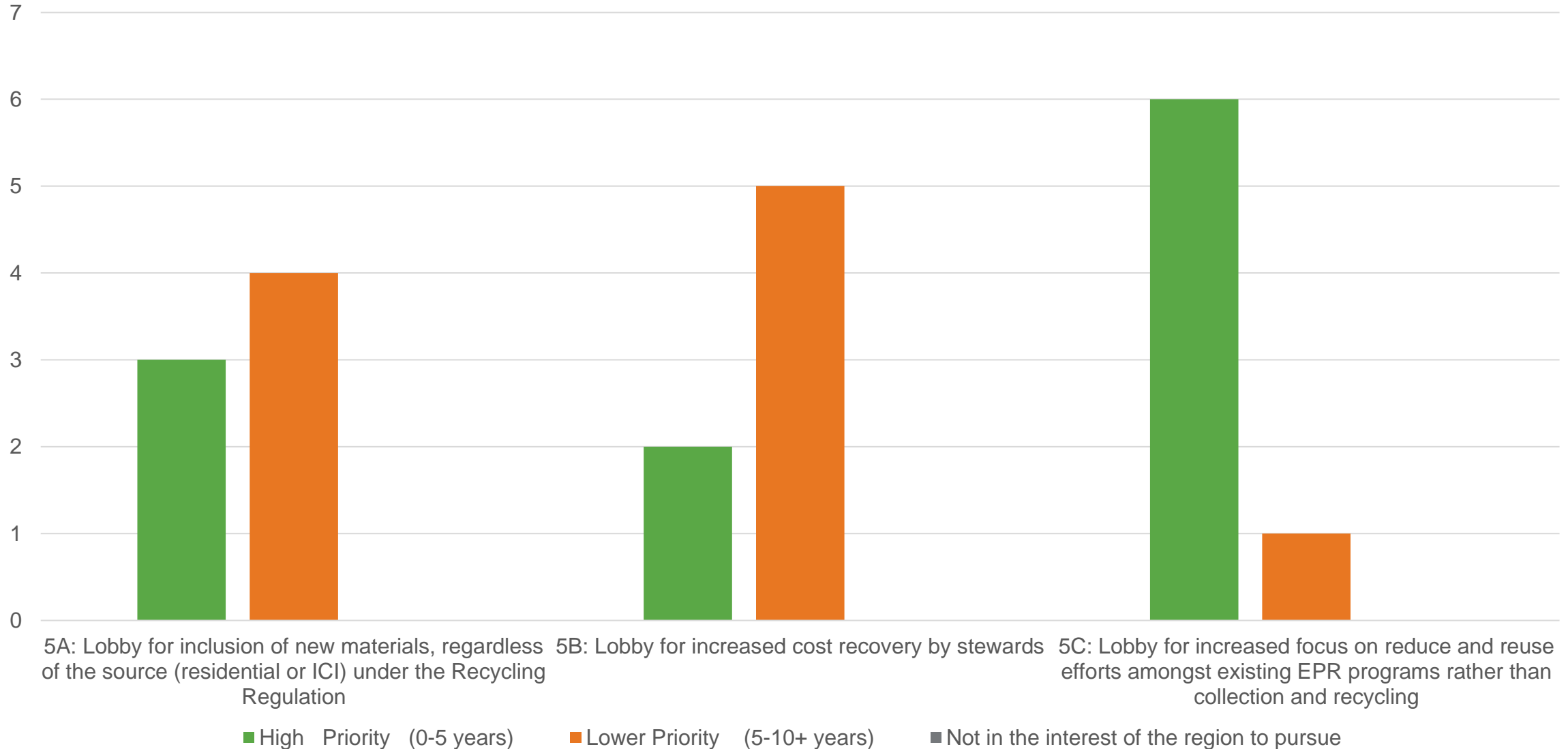
Priorities - Strategy 3



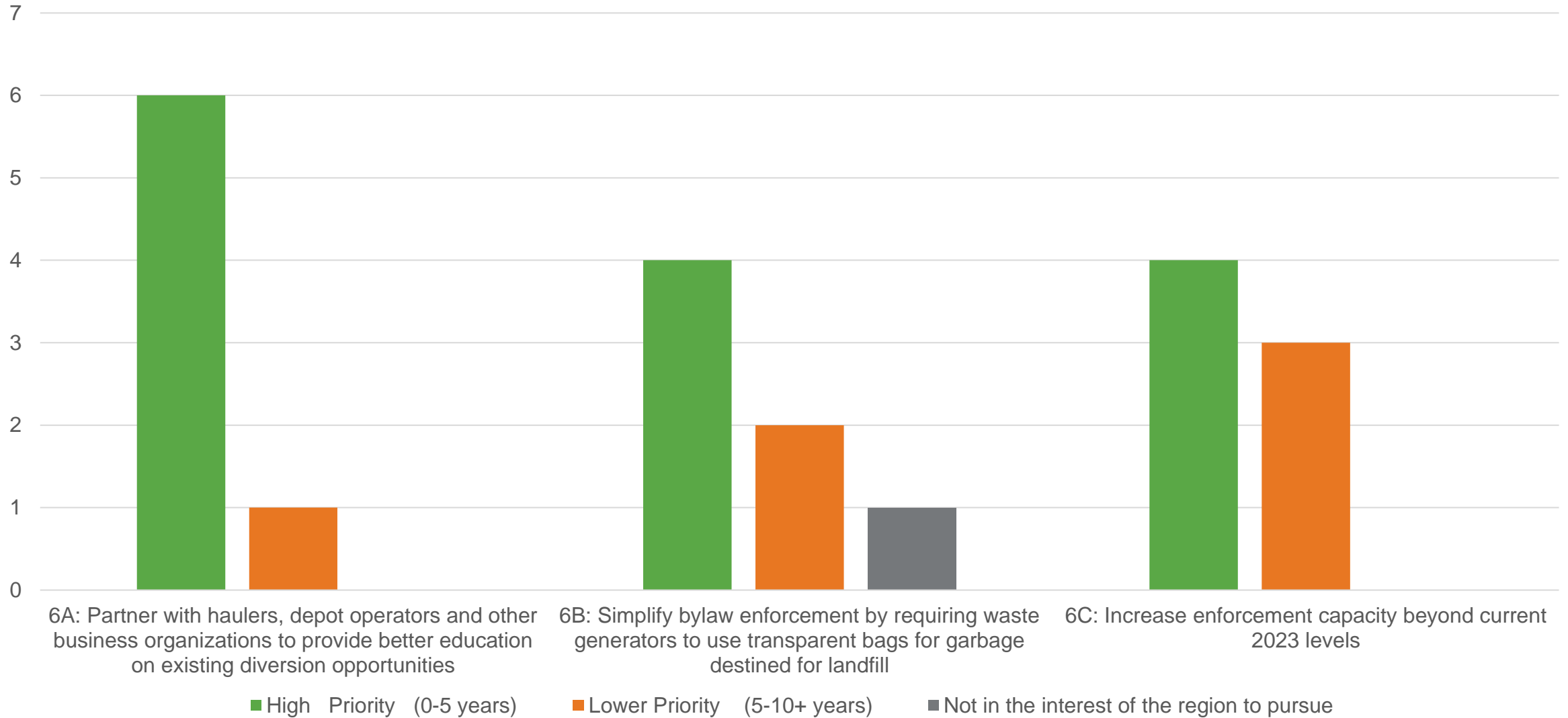
Priorities - Strategy 4



Priorities - Strategy 5



Priorities - Strategy 6



Questions/ Comments on Strategies 1 - 6

Any other comments/ questions



Overview of Potential Waste Prevention and Diversion Strategies

- 7 Improve CDR waste prevention and diversion 20 min
- 8 Improve circular economy opportunities for local businesses 15 min
- 9 Reduce tourist & event waste and increase waste diversion 10 min
- 10 Prevent and address illegal dumping 15 min
- 11 Prevent and address marine debris 10 min
- 12 Improve wildlife management related to waste management 10 min

Potential Waste Prevention and Diversion Strategies

Strategy 7: Improve CDR Waste Prevention and Diversion

- Regulatory options to improve CDR waste prevention and diversion
 - 7A: Develop a salvage, recycling, and/or deconstruction bylaw in partnership with municipalities.
 - 7B: Collaborate with member municipalities to ensure regulations support home relocation.
- Options to improve CDR waste prevention and diversion through education
 - 7C: Develop a CDR working group for developing and dispersing resource, education, and develop new resources as a group.
 - 7D: Investigate feasibility of recycling additional C&D materials, such as carpets, and implement pilot when deemed feasible.

Current CDR Initiatives

- Deconstruction and recycling info on SCRD website
- CDR materials diverted from landfilling:
 - Gypsum (not containing asbestos)
 - Clean wood
 - Contaminated wood waste
- The 2022 waste composition results show there are still opportunities to divert more



7A: Develop a Salvage, Recycling, and/or Deconstruction Bylaw in Partnership with Municipalities

Example: District of North Vancouver, Demolition Waste Reduction Bylaw

- Single-family homes built prior to 1950 and are slated for demolition must have 3.5kg (2.6 board feet) of lumber per sq. foot of finish floor space salvaged.
- At the beginning, all projects must:
 - Fill out a wood salvage plan
 - Pay a non-refundable fee of \$250 for administration
 - Pay a \$15,000 refundable deposit, which is refunded based on the amount of salvaged wood (e.g., if 3.5kg per sq. foot is salvaged, 100% is refunded).
- After completion, all project must:
 - Provide a wood salvage compliance report
 - Provide copies of original receipts, weight bills, and other materials demonstrating salvage requirements were met

7B: Collaborate with Member Municipalities to Ensure Regulations Support Home Relocation

- SCRD Bylaw No. 687 supports home relocation
- Estimated 20% of the 3,800 single-family homes slated for demolition in Metro Vancouver are viable for relocation



*Relocation of Little Yellow School House,
Squamish Nation Repurpose Project, From: renewaldevelopment.ca*

7C/D Options to Improve CDR Waste Prevention & Diversion Through Education

- **CDR working groups:** collaboration between member municipalities, contractors, and other CDR industry parties will help with education, developing and dispersing resources
- **Research and Education:** options for CDR materials that cannot be recycled or diverted is important



Comment/ Questions on Strategy 7

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Potential Waste Prevention and Diversion Strategies

Strategy 8: Improve Circular Economy Opportunities for Local Businesses

8A: Develop grant funding to support local recyclers

8B: Support local circular innovation by funding a training program for start-ups

8C: Partner with suitable member municipalities to provide space at a site for local recyclers

8D: Revisit procurement policies to better include circular economy aspect and encourage member municipalities to follow its example



Potential Waste Prevention and Diversion Strategies

Strategy 8: Improve Circular Economy Opportunities for Local Businesses

- Waste Reduction Initiative Program (WRIP) not designed to support local recyclers
- Partnership opportunities exist

Key benefits from supporting a local circular economy

Job creation

Waste diversion

Circulate products/
materials back into economy

Support local businesses/non-
profits

8A: Develop Grant Funding to Support Local Recyclers

Funding Recipients:



GABRIOLA ISLAND
RECYCLING ORGANIZATION



Habitat for Humanity®

Mid-Vancouver Island

Island Futures

Creating Our Future Through Collaboration

Example

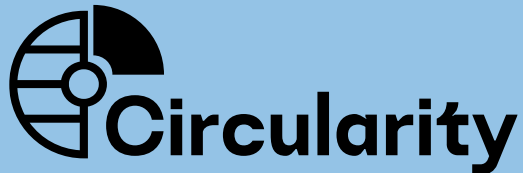
- Regional District of Nanaimo identified \$300,000 in annual grant funding in its 'Zero Waste Recycling Funding' program

8B: Support Local Circular Innovation by Funding a Training Program For Start-ups

Examples:

Vancouver's Zero Waste
Demonstration Site:

mosa.
your first sustainable step

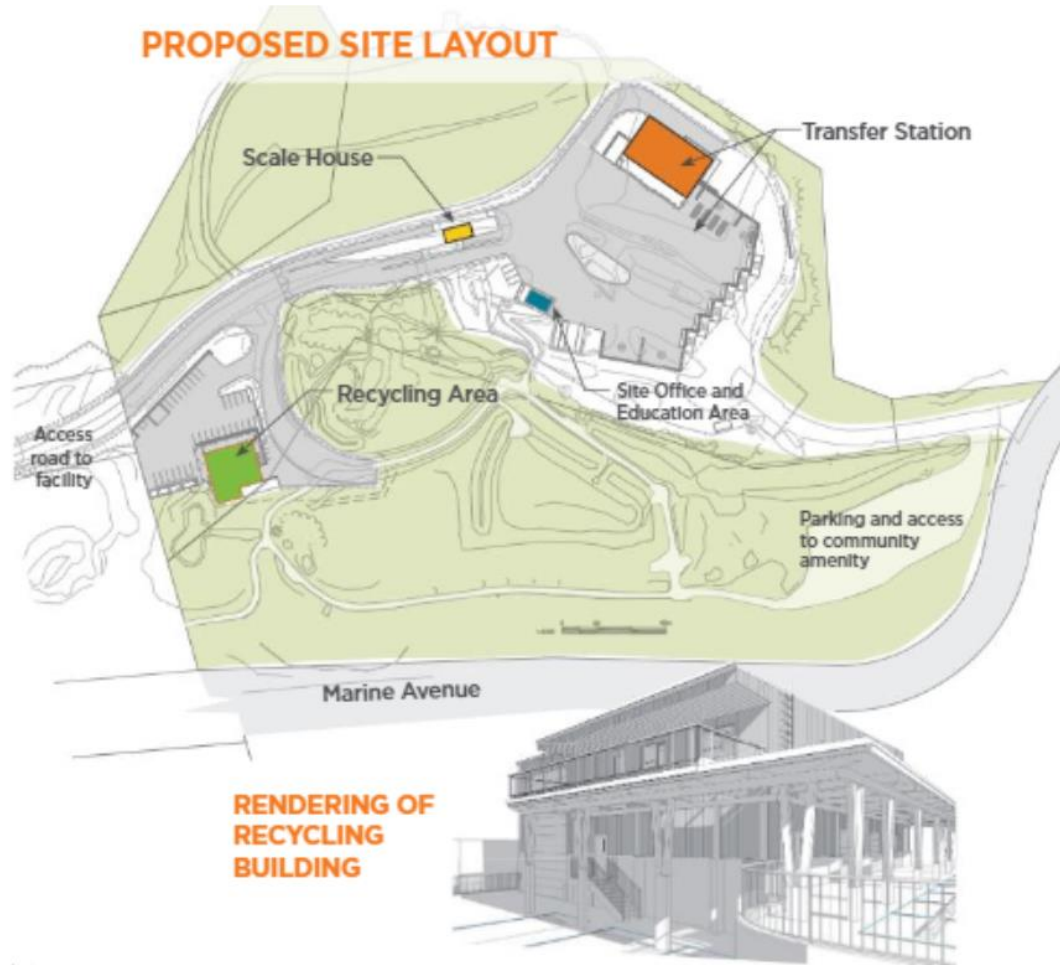


**Circular Opportunity
Innovation Launchpad**

Guelph-Wellington program to help
innovative companies grow their
circular economy business through:

- Funding
- Mentorship
- Education

8C: Partner With Suitable Member Municipalities to Provide Space at a Site for Local Recyclers



Example:

qathet Regional District Resource Recovery Centre in Powell River:

- Received \$6 million in federal funding for construction
- Divert waste products from the solid waste stream
- Contribute to up-cycling, re-cycling, and re-purposing materials, and GHG emission reduction

From: [Resource Recovery Centre - qathet Regional District](#)

8D: Revisit Procurement Policies to Better Include Circular Economy Aspects



Consider expanding procurement policies, by including:

- Commitment to reducing waste (avoid single-use items)
- Require a minimum amount of recycled content in purchases where possible
- Use locally generated compost internally
- Update demolition procurement for public projects to prioritize relocation and deconstruction

Questions/ Comments on Strategy 8

Strategy 8: Improve Circular Economy Opportunities for Local Businesses

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8D: Revisit procurement policies to better include circular economy aspect and encourage member municipalities to follow its example



Potential Waste Prevention and Diversion Strategies

Strategy 9: Reduce Tourist and Event Waste and Increase Waste Diversion

9A: Develop educational materials for high-tourist areas to inform tourists of regional district practices.

9B: Encourage organizations, such as BC Ferries, to avoid sending waste for landfilling to the Sunshine Coast, where other disposal locations are available.

9C: Provide resources (e.g., education and equipment) that can help event organizers prevent waste and enhance diversion.

Tourist and Event Waste on the Sunshine Coast

- Seasonal population changes (e.g., influx of tourists during the summer months) influences the amount of waste and recyclables managed in the region
- Opportunities to :
 - Improve signage/educational materials in high-tourist areas
 - Direct BC ferry waste away from the Coast
 - Promote Event waste diversion



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Potential Waste Prevention and Diversion Strategies

Strategy 10: Prevent and Address Illegal Dumping

10A: Establish an Illegal Dumping Task Force and develop an illegal dumping strategy aimed to improve tracking and reduce the number of illegal dumping incidents.

10B: Develop an education and awareness campaign around illegal dumping.

Current Initiatives to Prevent and Address Illegal Dumping

- Good Samaritan Program
 - Pays landfill tipping fees for materials collected from illegal dumping sites
- Backroad Trash Bash
 - Volunteering initiative for collecting illegally dumped material
- Islands Clean Up Program
 - Waste management services to islands off the SCRD coast
- Promotion of Report All Poachers and Polluters (RAPP) hotline



Potential Waste Prevention and Diversion Strategies

10 A: Task Force

Made up of members from the public, member municipalities and electoral areas, Conservation Office, RCMP, and SCRD

Identify problem areas and mitigation strategies

Develop an Illegal Dumping Strategy

10 B: Education and Awareness

Conduct a survey to determine most common materials illegally discarded and frequent problem areas

Develop campaigns based on findings of survey

Use information to inform the task force

Questions/ Comments on Strategy 10

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Potential Waste Prevention and Diversion Strategies

Strategy 11: Prevent and Address Marine Debris

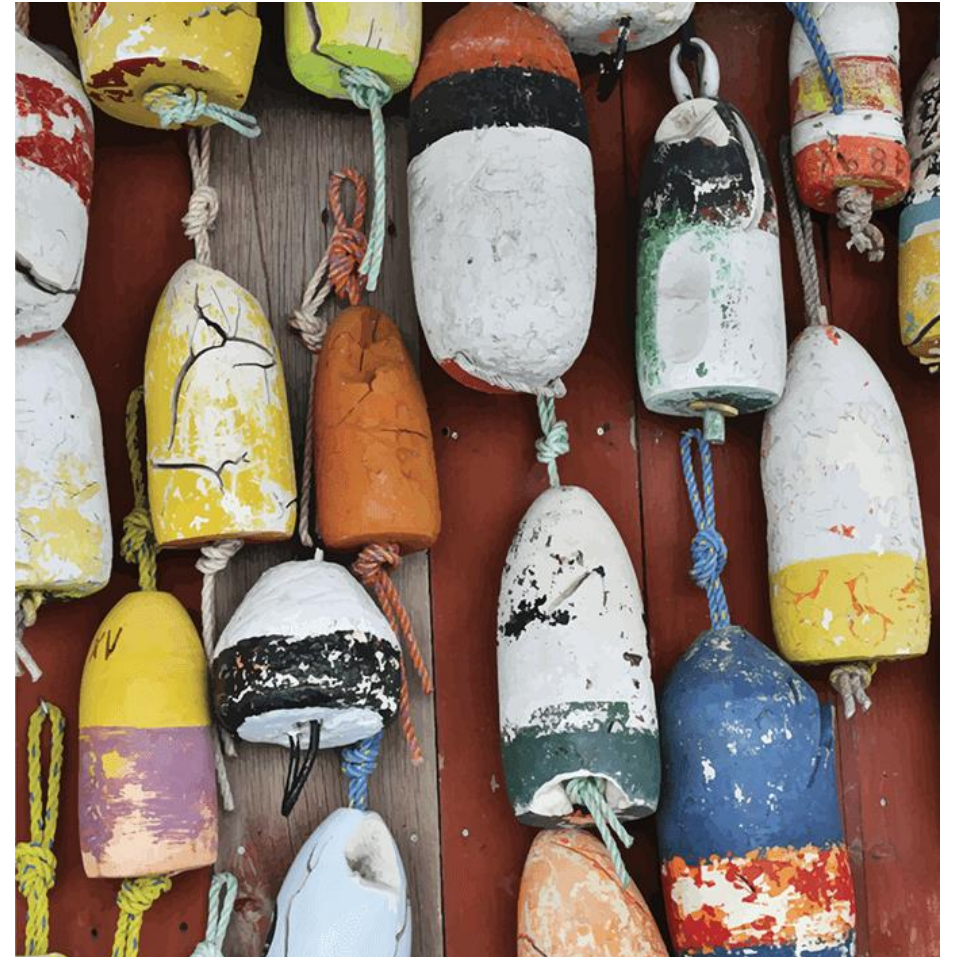
11A: Seek funding to help initiatives that address marine debris and the removal of abandoned boats.

11B: Collaborate with member municipalities and other organizations to promote cleanups and educate residents and businesses on the issue of marine debris and abandoned vessels.

11C: Assess opportunities to improve marine debris collection abilities at marinas and implement if deemed feasible.

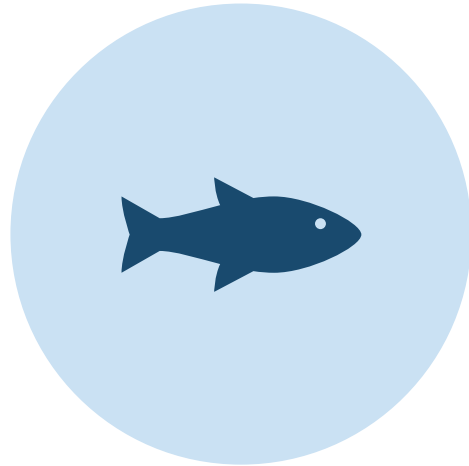
Current Initiatives to Prevent and Address Marine Debris

- Two different BC ministries have policies and initiatives relating to marine debris and derelict vessels
 - Clean Coast, Clean Waters Initiative has funded the removal of over 100 derelict vessels since 2020
 - Coastal Marine Strategy aims to prevent and clean up marine pollution, coastal cleanups of plastics and other debris
- SCRD started the Ocean Plastic Depot Pilot Program in 2023



Options to Prevent and Address Marine Debris

11A: Seek Funding to Help Initiatives that Address Marine Debris and the Removal of Abandoned Boats



CLEAN WATERS
INITIATIVE FUND



ABANDONED BOATS
PROGRAM

Options to Prevent and Address Marine Debris

- Awareness campaign specific to marine litter
- Look at promoting cleanups
- Promote community-led clean-up events,
- Improve infrastructure in high-population areas along the shoreline, if external funding is available



Questions/ Comments on Strategy 11

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Potential Waste Prevention and Diversion Strategies

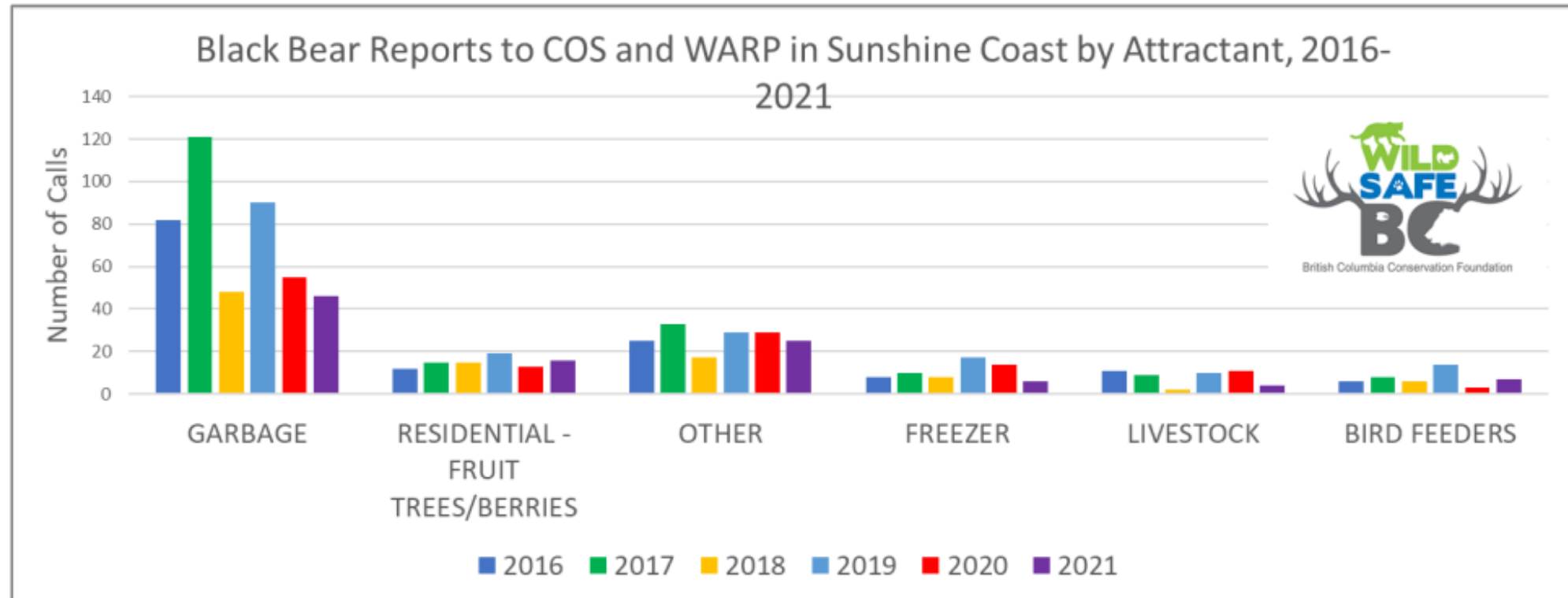
Strategy 12: Improve Wildlife Management related to Waste Management

12A: Revise the SCRD Waste Collection Bylaw No. 431 to integrate requirements around wildlife attractants.

12B: Develop an education campaign, including info sessions for residents, around improving wildlife management.

Wildlife and Waste Management in the Region

- 345 wildlife reports between Jan 2021 and Oct 2021 (201 black bears)
- The SCRD has a WildSafeBC Community Coordinator responsible for outreach and education with the local communities



Wildlife and Waste Management in the Region

- Wildlife awareness via messaging on the SCRD website
- The SCRD Waste Collection Bylaw 431 puts responsibility on owner/ occupier of residential premise to prevent wildlife accessing garbage and food waste
- Wildlife attractants requirements:
 - District of Sechelt - Solid Waste Control and Collection Bylaw 47
 - Town of Gibsons - Wildlife Bylaw 1294

Questions/ Comments on Strategy 12

Strategy 12: Improve Wildlife Management related to Waste Management

12A: Revise the SCRD Waste Collection Bylaw No. 431 to integrate requirements around wildlife attractants.

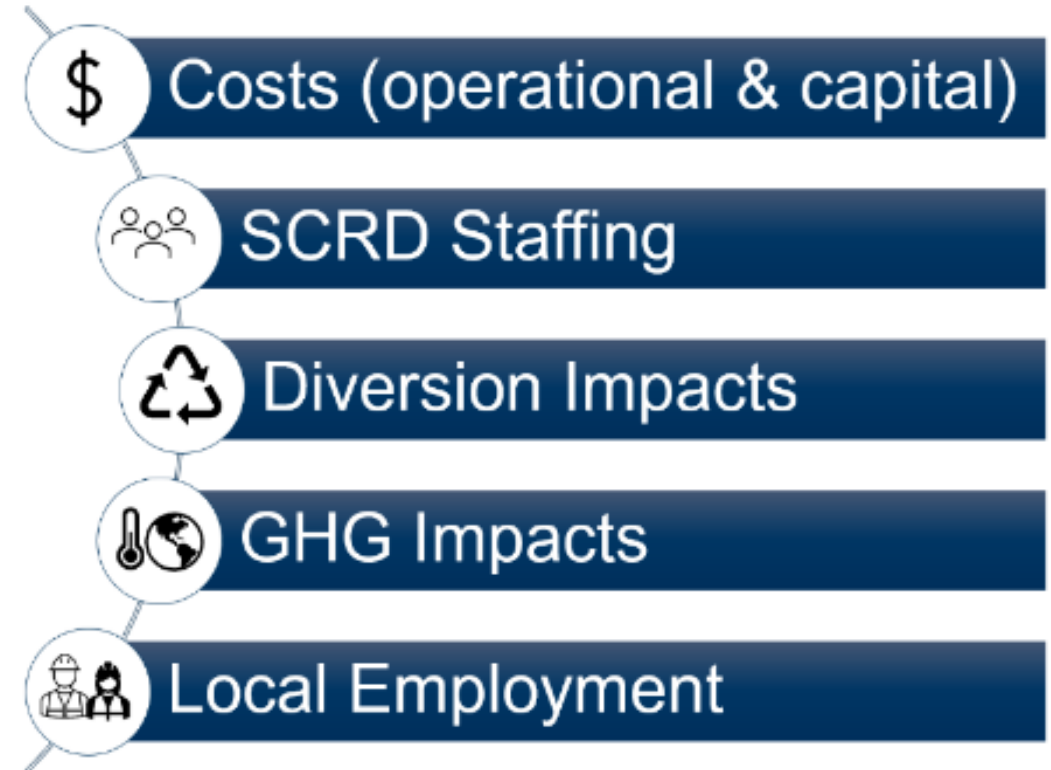
12B: Develop an education campaign, including info sessions for residents, around improving wildlife management.



Impacts from Strategies

Approach for evaluating strategies:

- Waste hierarchy considerations added

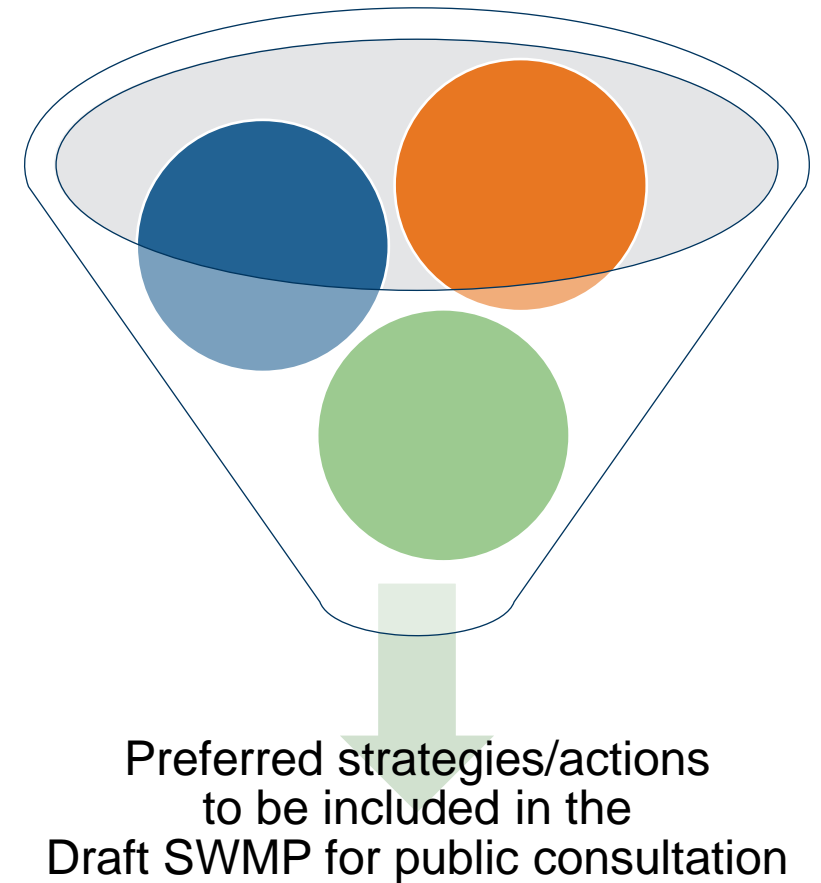


Impacts from Strategies

Strategy #	Strategy Theme	Costs	Staffing	Diversion Potential	Waste Hierarchy	GHG	Local Employment
7	CDR Waste	Low - Medium	Medium	Medium - High	Reuse & Recycling	Medium - High	Medium - High
8	Circular Economy	Low - Medium	Low - Medium	Low - Medium	Reduce, reuse & recycling	Low	Medium - High
9	Tourist Waste	Low - Medium	Low - Medium	Low	Reduce, reuse & recycling	Low	Low
10	Illegal Dumping	Low - Medium	Low - Medium	Low	Recycling & residual management	Low	Low
11	Marine Debris	Low - Medium	Low - Medium	Low	Recycling & residual management	Low	Low
12	Wildlife Management	Low - Medium	Low - Medium	Low	Recycling & residual management	Low - Medium	Low

Next Steps – Help Prioritize

- Post-Meeting: PTAC members will receive a follow-up survey to gauge your priorities and any additional feedback
- MH to listen to feedback, review priorities based on impacts discussed
- MH will present these at the next meeting to finalize which strategies and actions are preferred

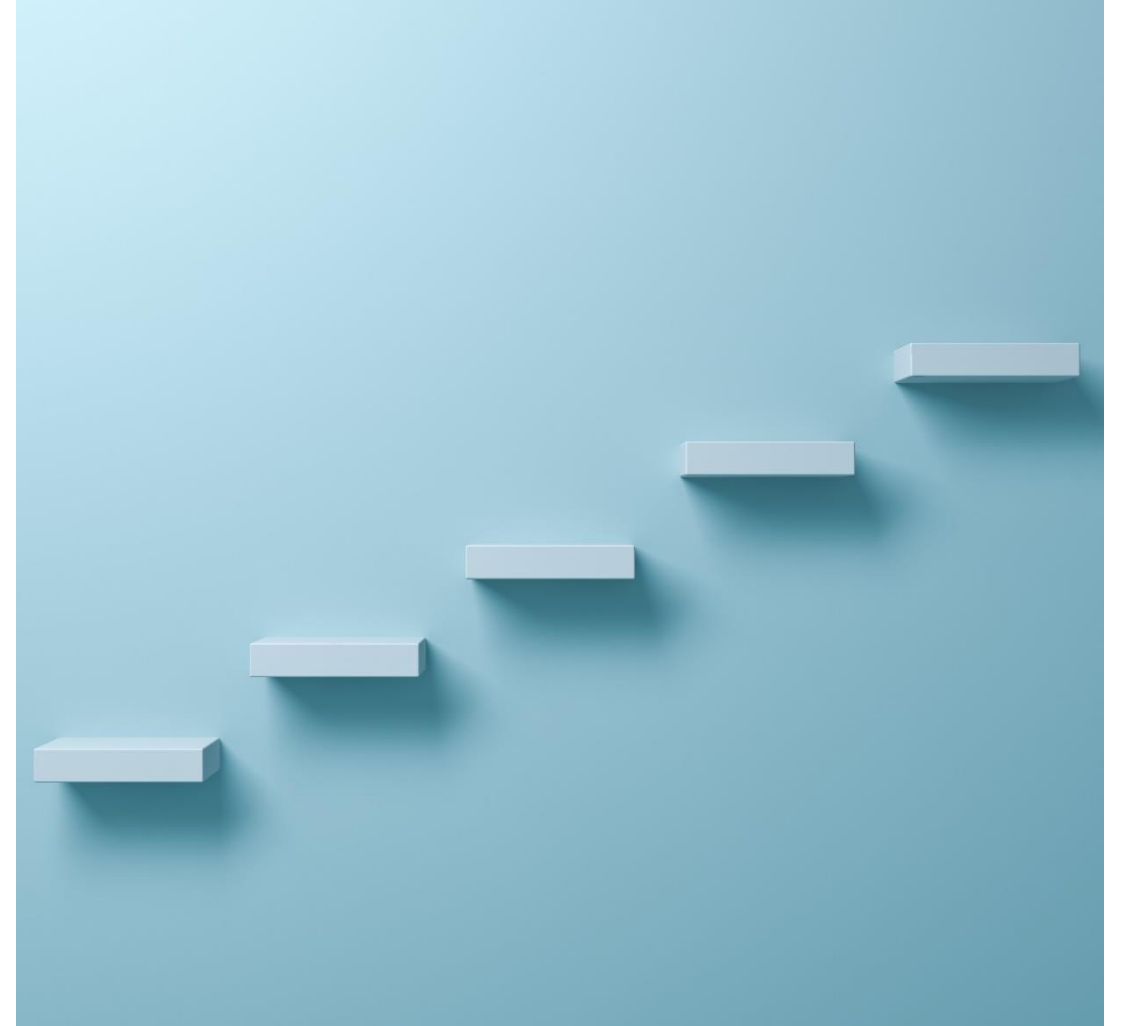


Questions/ Comments on Impacts



Future Meeting Topics

- Disposal options and system financing (Jan/Feb 2024)
- Preferred strategies in a draft SWMP (Late spring 2024)



Remaining Discussion Topics

- Invasive species management and disposal
- Recovery of energy/heat from waste for useful purposes
- Emergency debris management
- System efficiency and harmonizing services
- Disposal options
- How to finance our waste management system

Thank you!



MORRISON HERSHFIELD

People • Culture • Capabilities

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