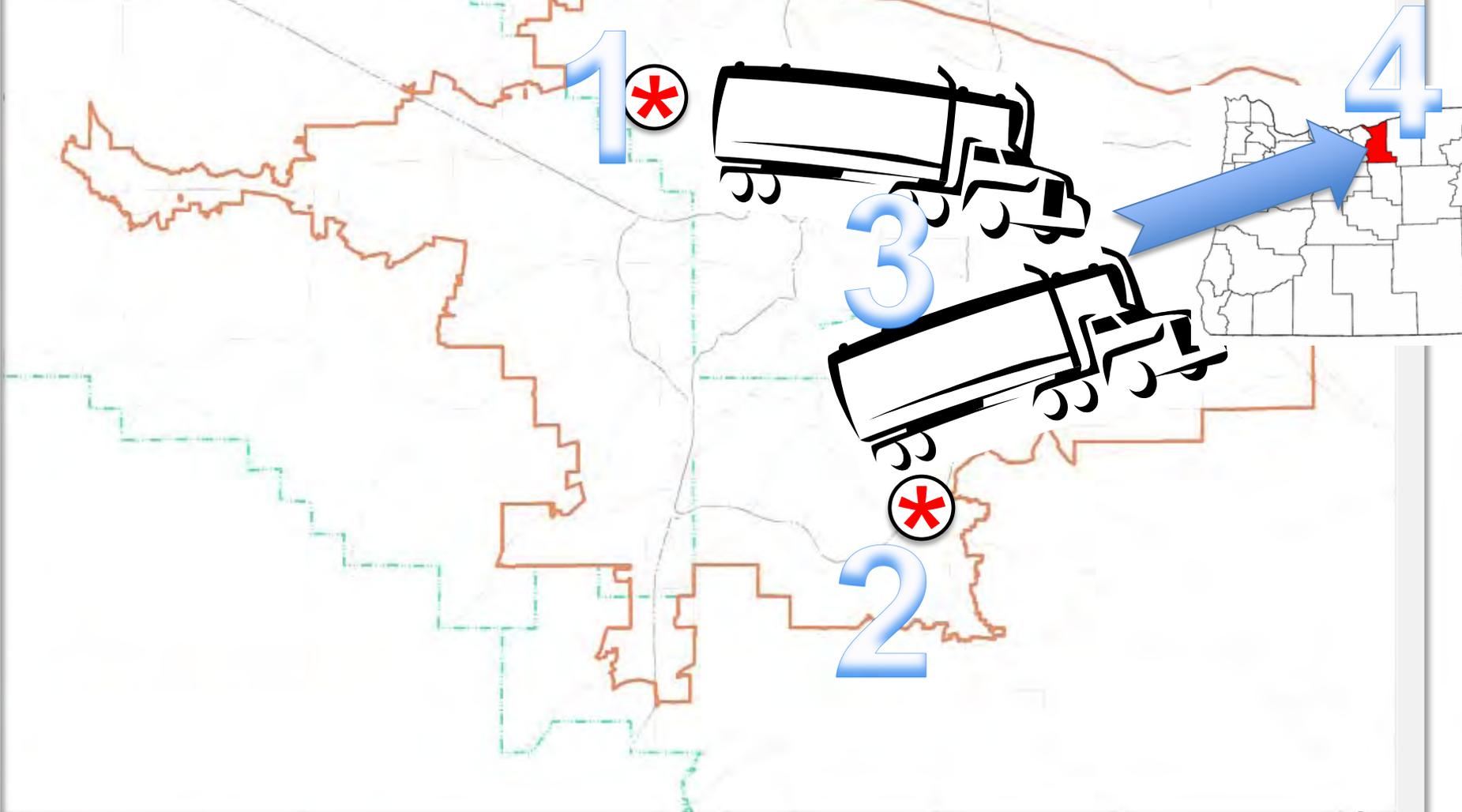




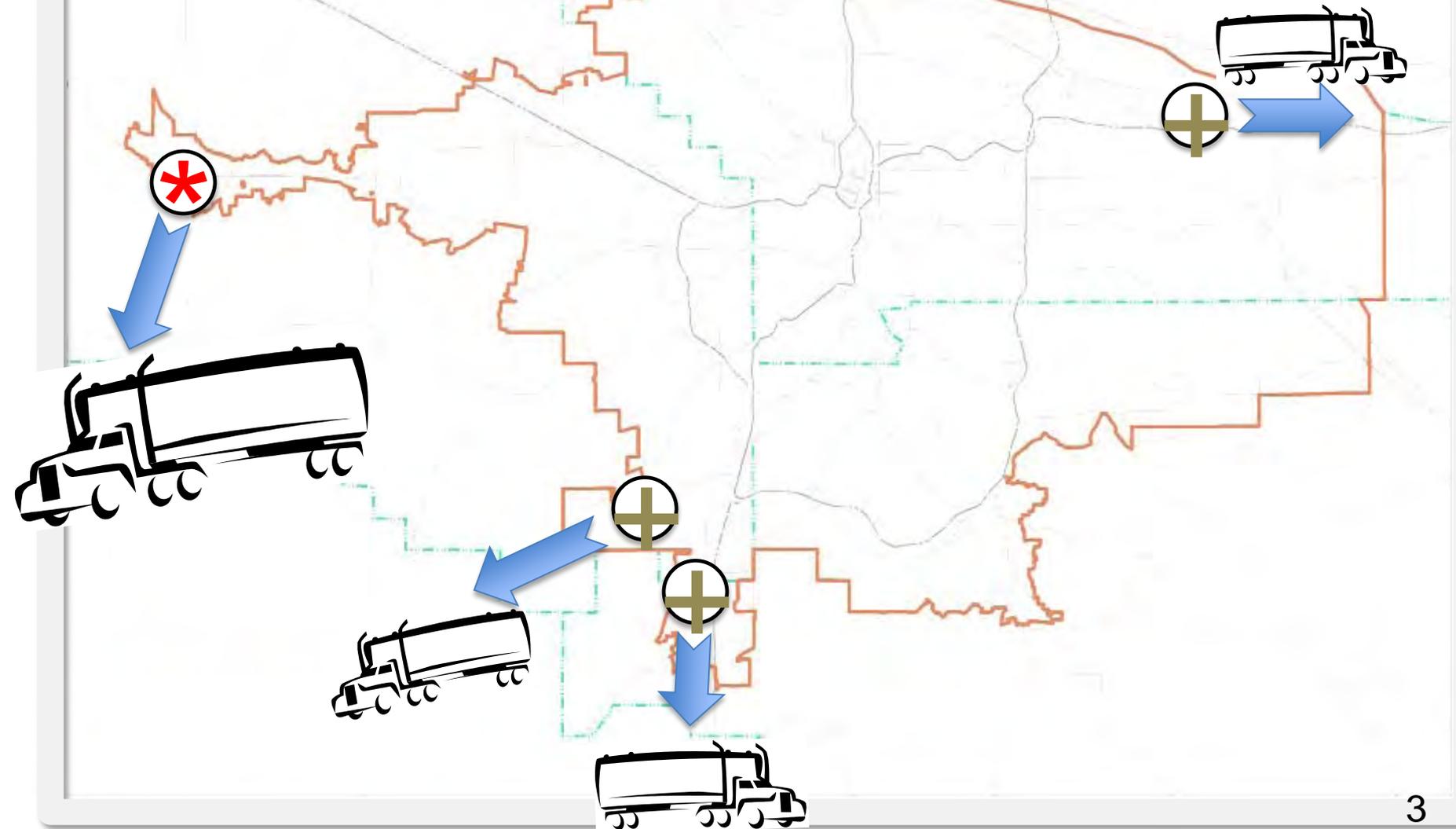
Solid Waste Roadmap Strategic Questions and High-Level Work Plan

September 27, 2011

Public Garbage Transfer & Disposal: Four Big Contracts



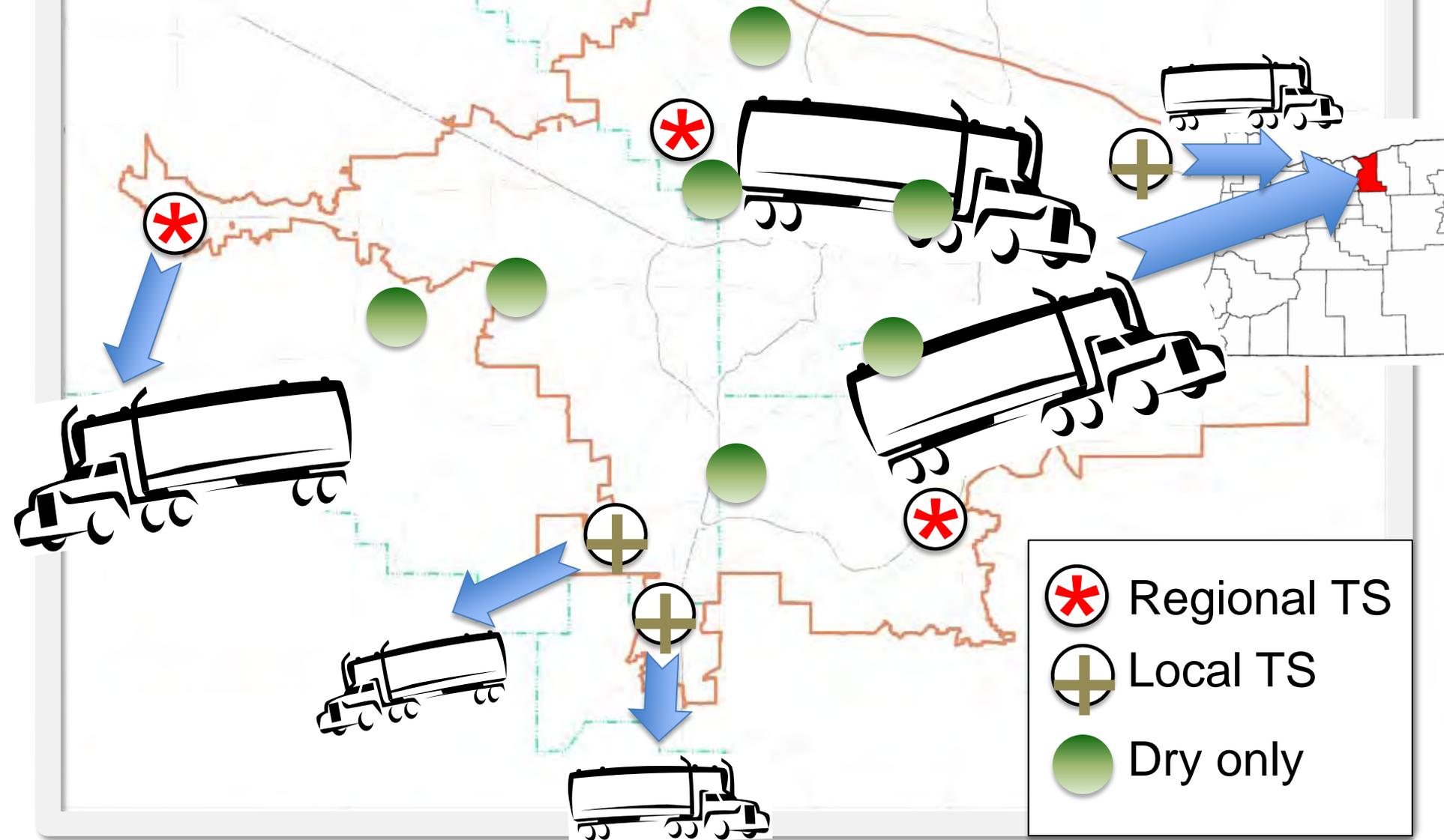
Private Garbage Transfer & Disposal: Transfer stations



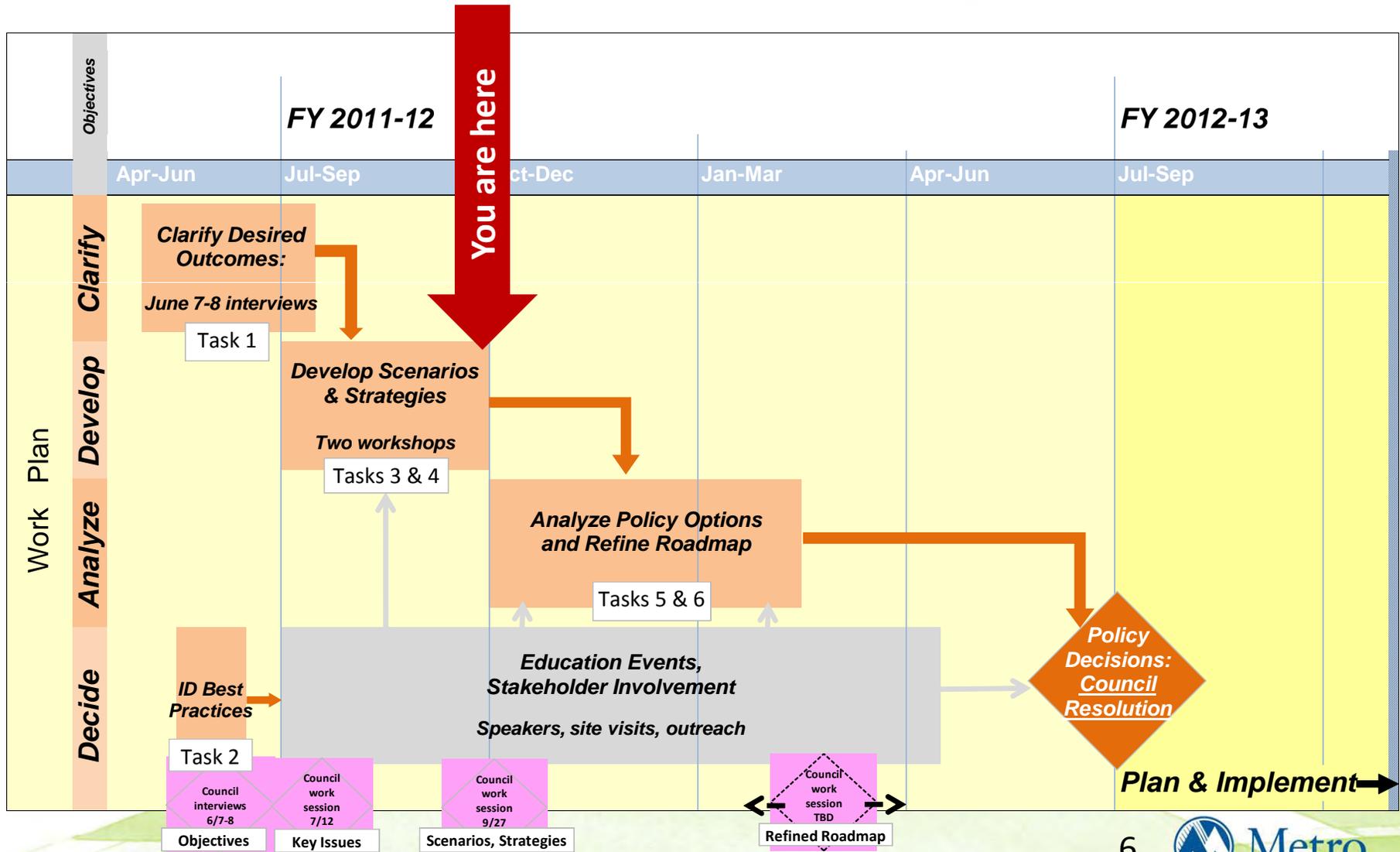
Private Garbage Transfer & Disposal: Transfer stations plus Dry waste facilities



Public-Private Hybrid System



Solid Waste Roadmap Process: Where are we today?



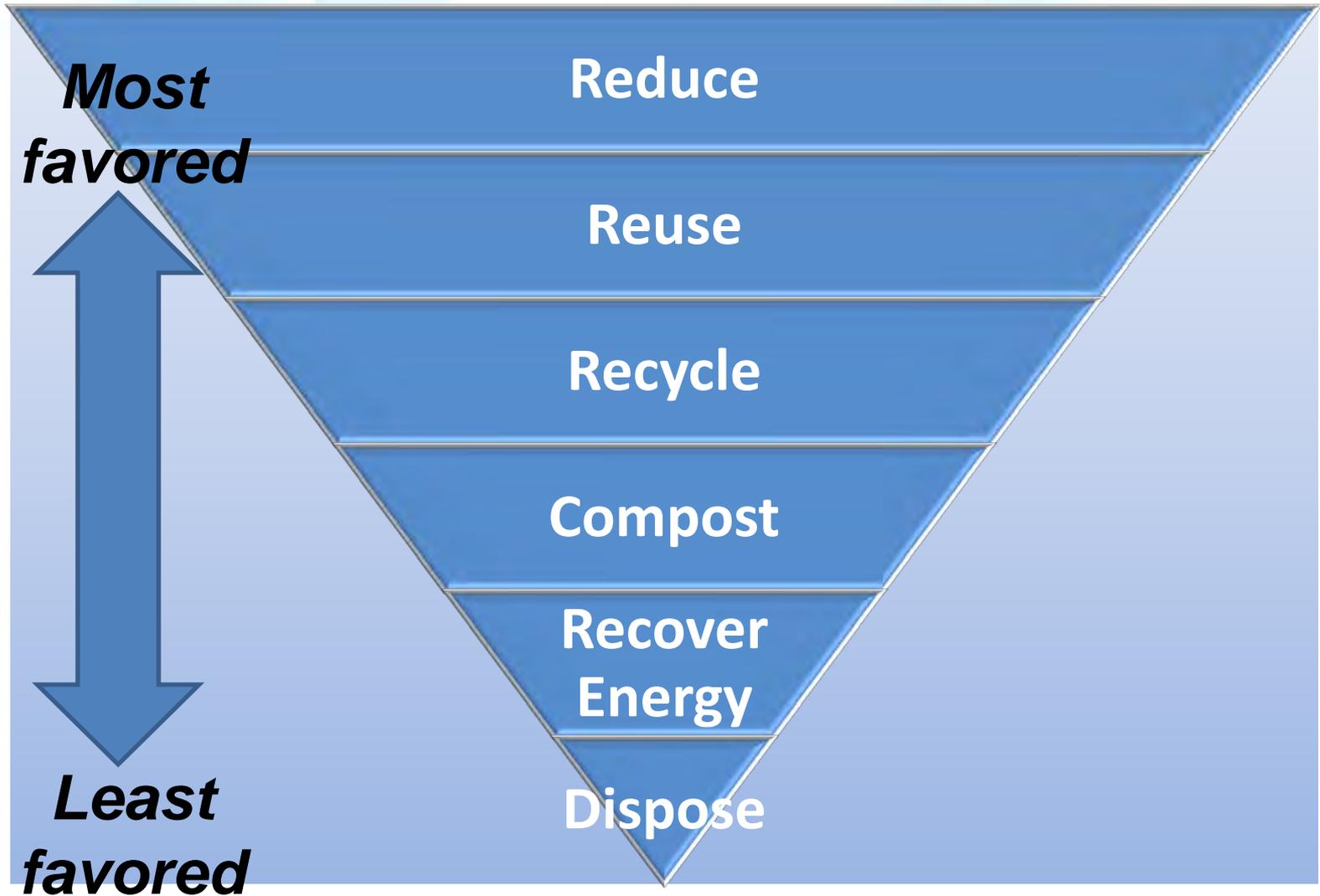
Today's Objectives

- Waste management hierarchy primer
- Council endorsement of strategic questions
- Council input on community engagement

Agenda

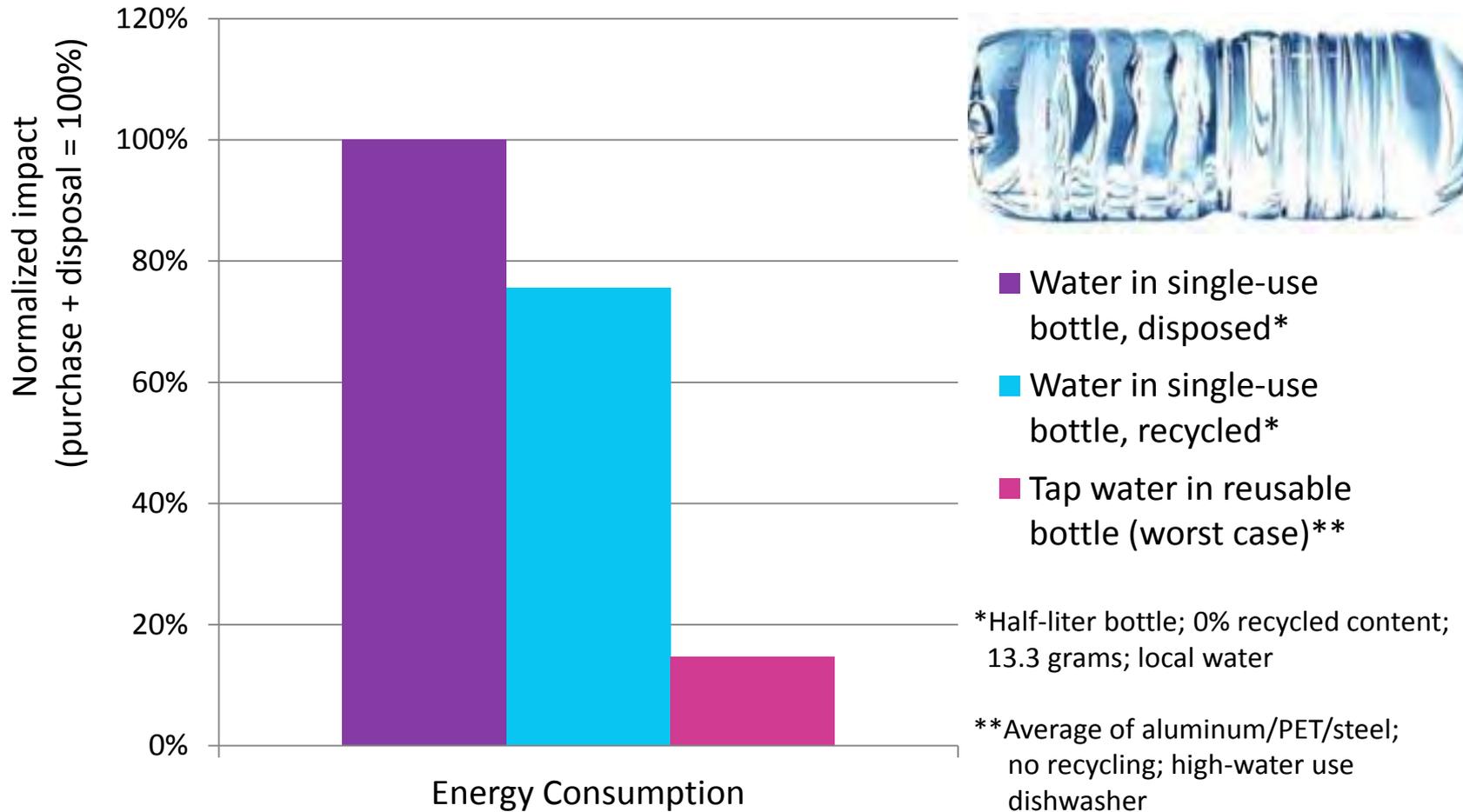
- Introduction, context (5 min)
- Background & Education (20 min)
 - Waste Management Hierarchy
 - Links to Regional Solid Waste Management Plan
- Solid Waste Roadmap workshop report (30 min)
 - Strategic Questions for Metro to pursue
- Stakeholder engagement plan (10 min)
- Q&A (25 min)

Waste Management Hierarchy

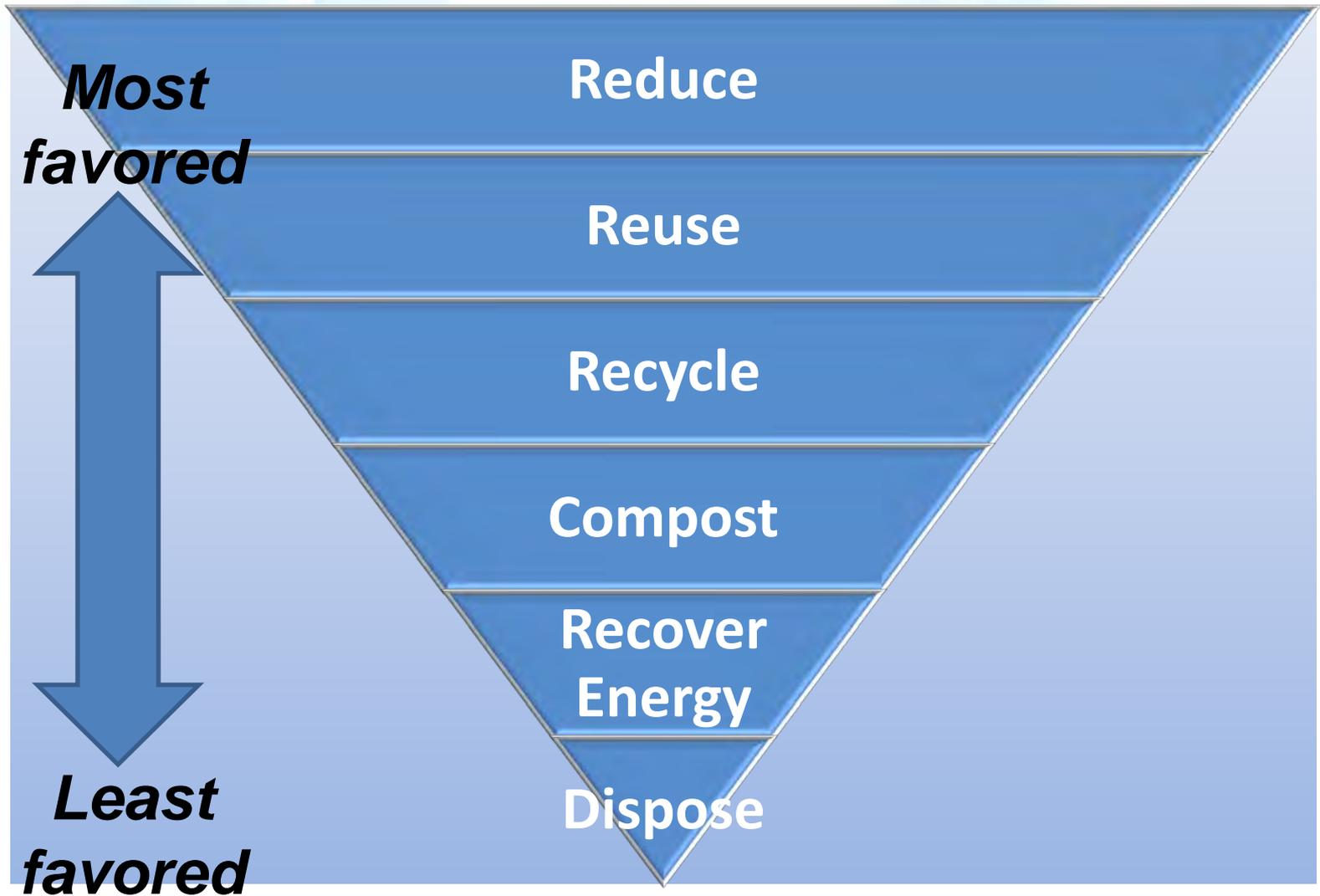


The Hierarchy – Conserving Resources

DEQ's Life Cycle Analysis of Drinking Water Delivery Options

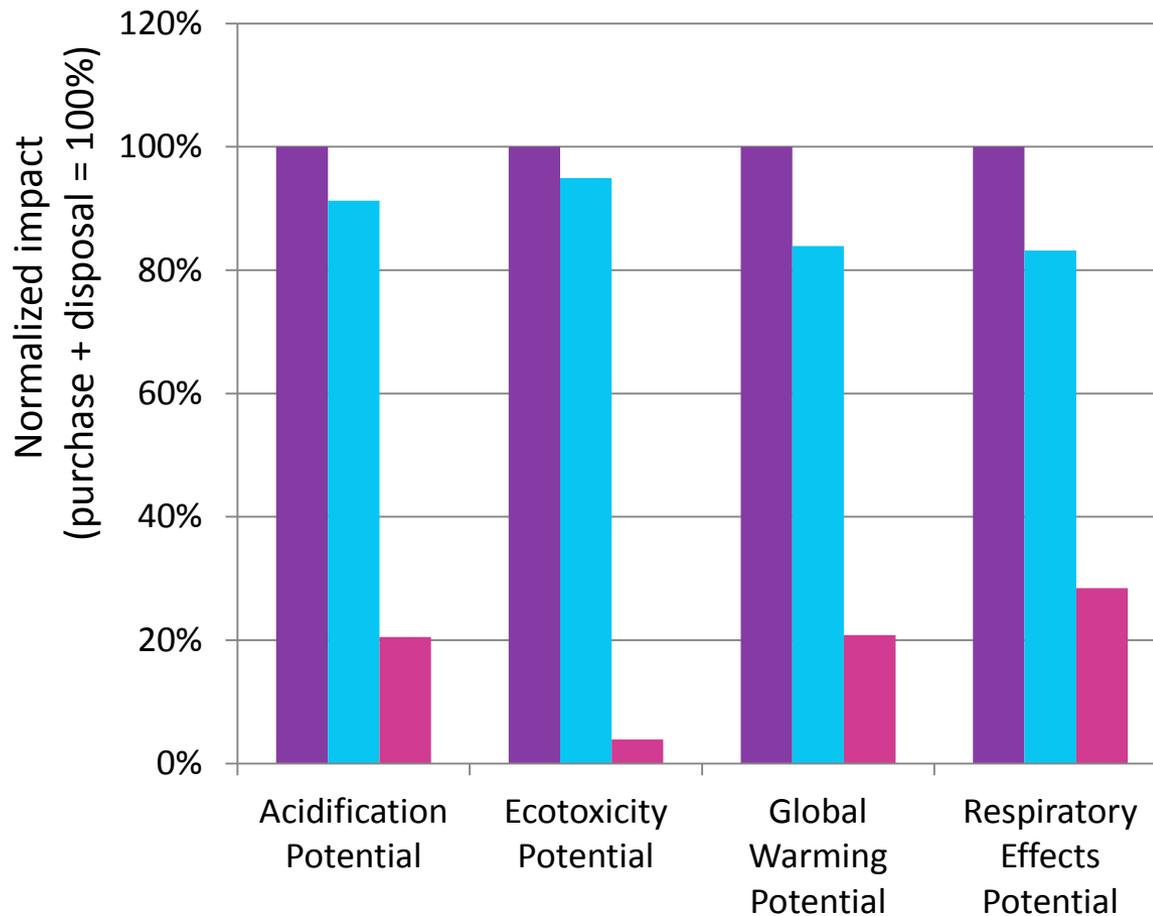


Waste Management Hierarchy



The Hierarchy – Reducing Pollution

DEQ's Life Cycle Analysis of Drinking Water Delivery Options



- Water in single-use bottle, disposed*
- Water in single-use bottle, recycled*
- Tap water in reusable bottle (worst case)**

*Half-liter bottle; 0% recycled content; 13.3 grams; local water

**Average of aluminum/PET/steel; no recycling; high-water use dishwasher

Limitations of the Hierarchy

- Not 100% reliable
- Not sensitive to competing objectives
- Very broad categories
- Less helpful for purchasing decisions

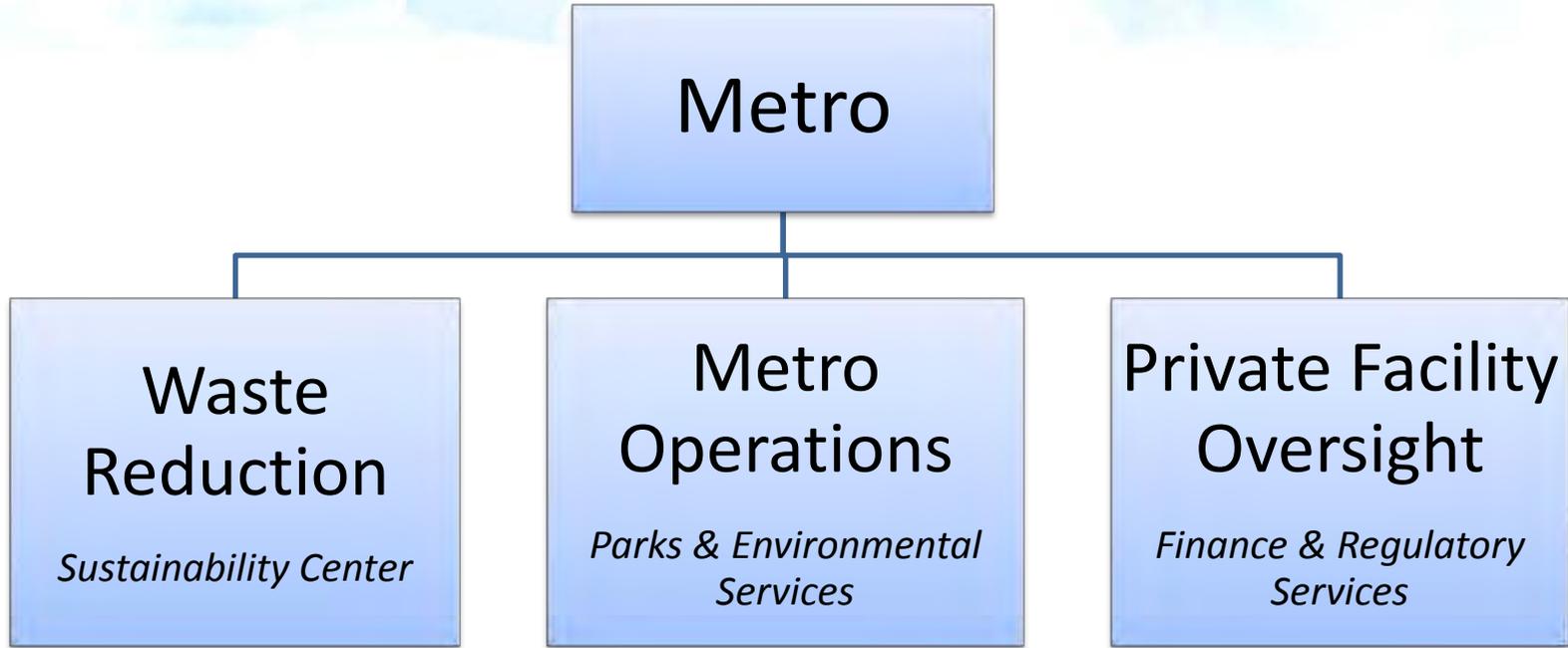
Are Landfills the Problem?



DEQ's Solid Waste Plan Update: A Vision of Materials Management

- From “solid waste management” to “materials management”
- Hierarchy to be revisited





Waste
Reduction

Metro
Operations

Private Facility
Oversight

RSWMP

Single-family residential

Youth

Multi-family residential

Food

Businesses

Toxic consumer products

Building industry

Product stewardship

Waste
Reduction

Metro
Operations

Private Facility
Oversight

Metro Paint

Transfer Station Dry Waste Recovery

Metro Central Organics Contract

Household Hazardous Waste

Waste
Reduction

Metro
Operations

Private Facility
Oversight

Source-separated recyclables

Dry waste recovery

Food and Wet Waste

Energy recovery

System Planning Components

RSWMP



Roadmap



+

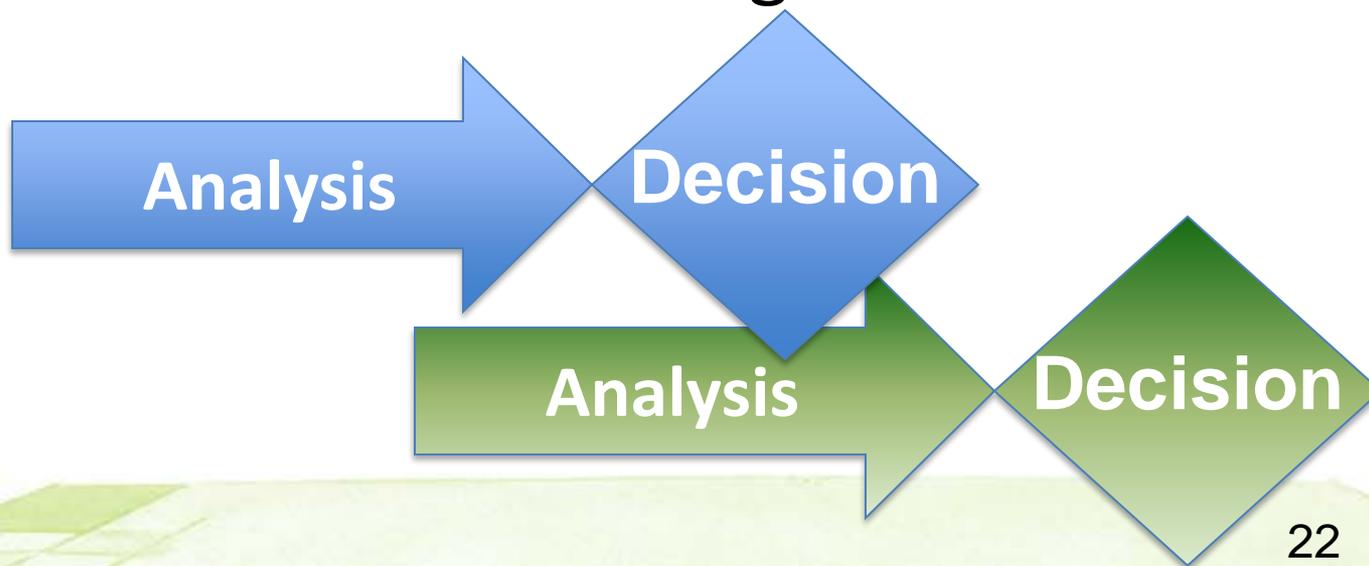
= *System*

Staff's Roadmap Objectives

1. Protect the environment and human health
2. Promote fairness and equity
3. Minimize cost to ratepayers for solid waste disposal
4. Ensure system is financially viable
5. Maximize public use value of Metro properties
6. Promote flexibility to adapt to new technologies
7. Minimize implementation risk
8. Create green jobs in the region

Roadmap Purpose

- Develop a timeline of policy decisions that Metro must make, with supporting analysis and projects, to manage materials currently being sent to disposal, in a manner that is consistent with the region's desired outcomes



Linkages and Timing

- Link with upstream materials management aspects of the RSWMP
- Timing:



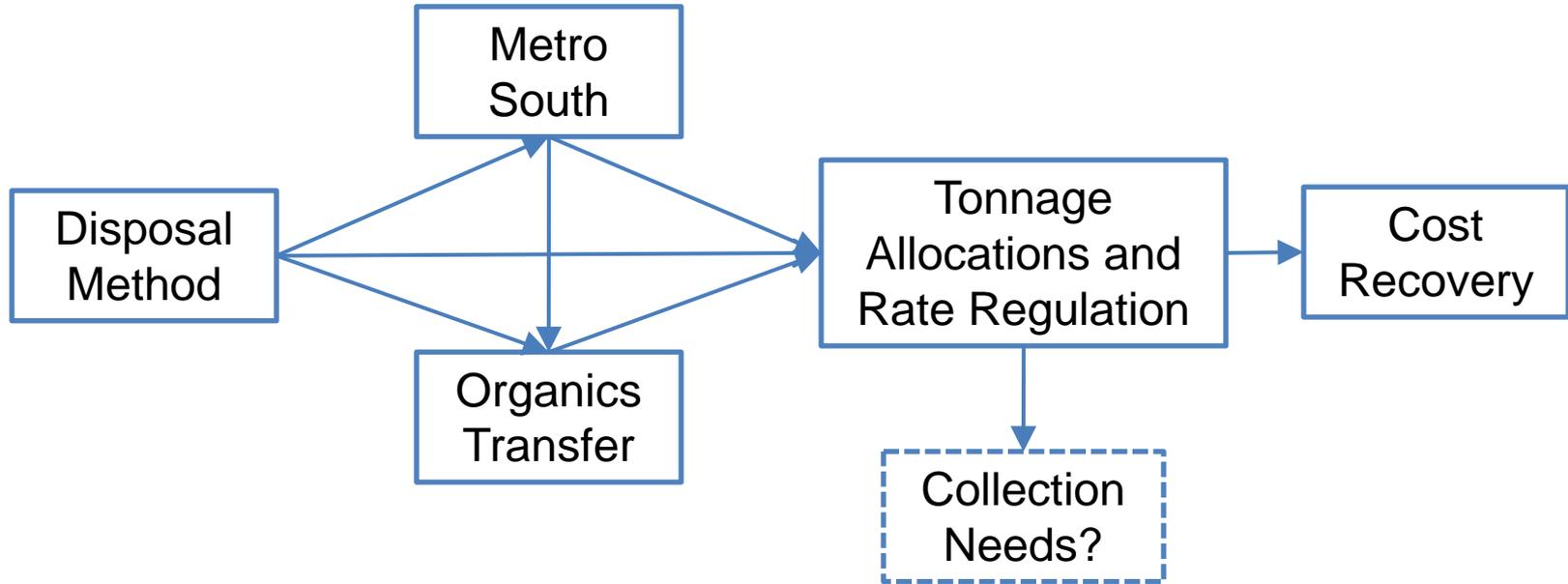
Scenario Planning and Strategy Workshops

- Workshops on August 3-4, 17
- Attendees
 - Senior Metro staff
 - David Allaway, Oregon DEQ
 - Rick Winterhalter, Clackamas County
 - CH2M HILL facilitators
 - 200+ years of combined experience
- Guidance by Council Liaisons
(Burkholder, Collette, and Harrington)

Key Strategic Questions

1. Long-term disposal method?
2. Future of Metro South Station?
3. Organics transfer capacity needs?
4. Tonnage allocations and rate regulation?
5. Cost recovery approach?
6. Collection needs?

Inter-relationships of Strategic Questions



1. Long-Term Disposal Method Policy Question

- What should the region do with its non-recovered discards?



1. Long-Term Disposal Method

Recommended Next Steps

- Evaluate landfill versus thermal conversion
 - Screen thermal technologies to assess viability
 - Consider long-term advances in prevention and diversion
 - Retain flexibility
 - Assess Metro's role
 - Evaluate impacts and implementation options

2. Future of Metro South Station Policy Question

- What service alternative should Metro pursue to provide the full suite of services in the vicinity of the existing Metro South site?



2. Future of Metro South Station Recommended Next Steps

- Evaluate service options
 - Conduct high-level siting study
 - Modernize Metro's waste system model
 - Consider implications with landfill and with thermal
 - Evaluate impacts and implementation options



3. Organics Transfer Capacity Needs Policy Question

- What actions should Metro take to ensure organics transfer capacity is available throughout the region?



3. Organics Transfer Capacity Needs

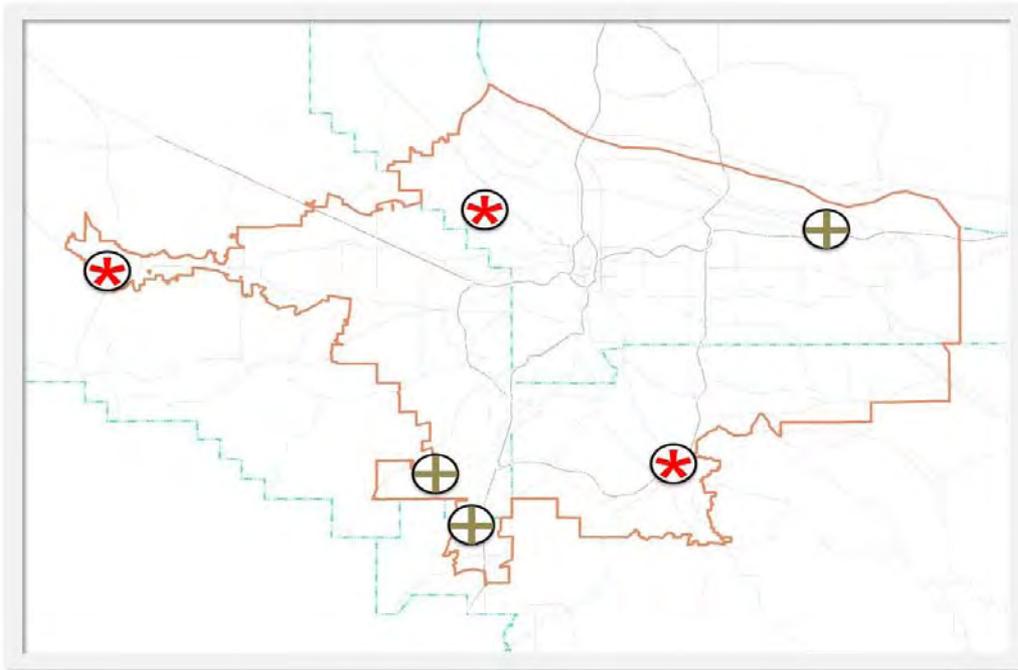
Recommended Next Steps

- Estimate potential organics collection quantities region-wide
- Estimate geographic distribution
- Assess transfer facility needs
- Consider implications of disposal and Metro South Station options



4. Tonnage Allocation and Rate Regulation Policy Question

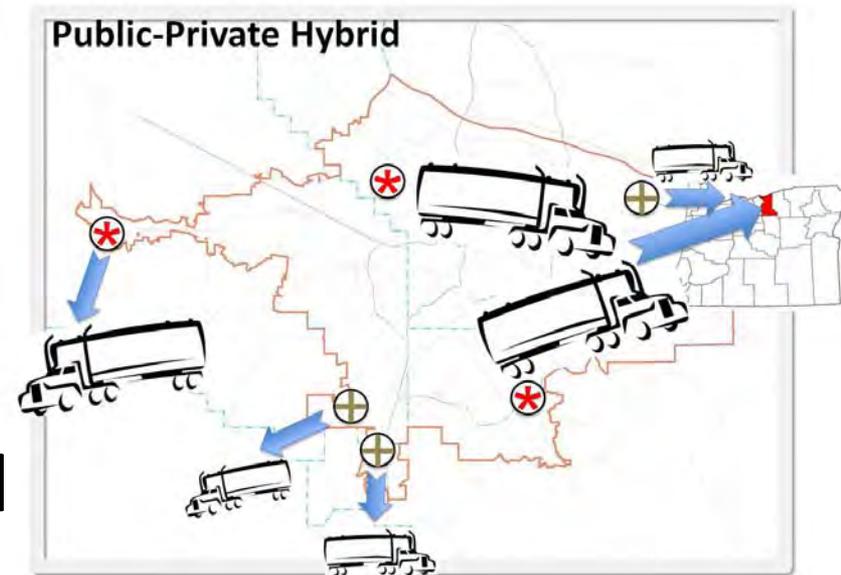
- How should tons be allocated to transfer stations, and should Metro's role in economic regulation change?



4. Tonnage Allocation and Rate Regulation

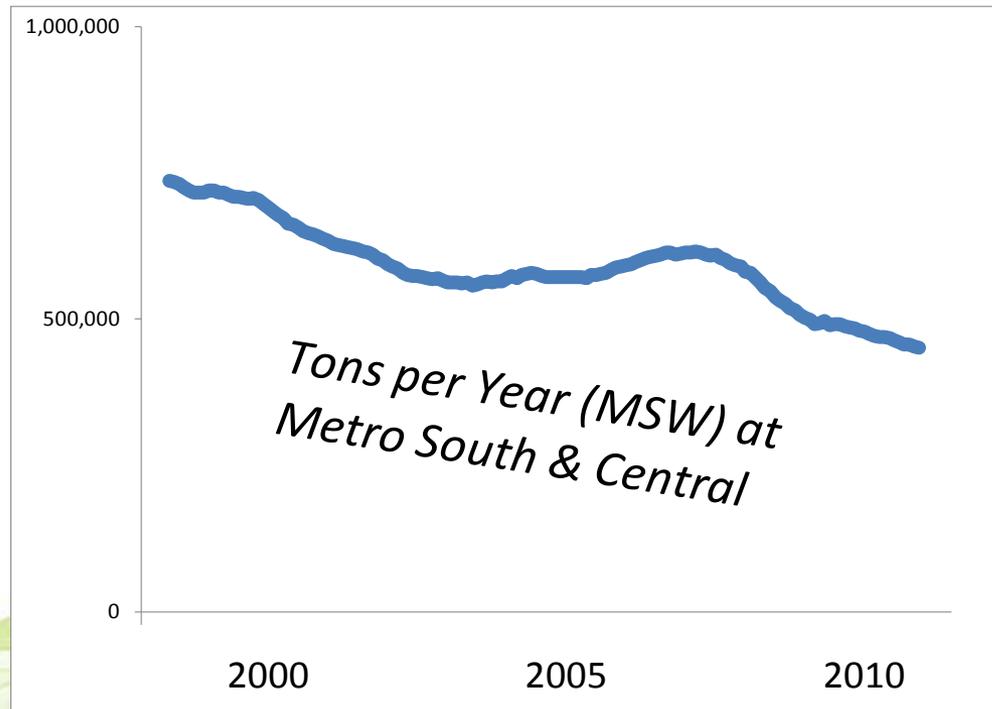
Recommended Next Steps

- Private regional transfer station
 - Conduct rate review
 - Assess service options
- Local transfer stations
 - Assess wet waste transfer tonnage allocations and other regulatory options
- Consider disposal method and Metro South options



5. Cost Recovery Policy Question

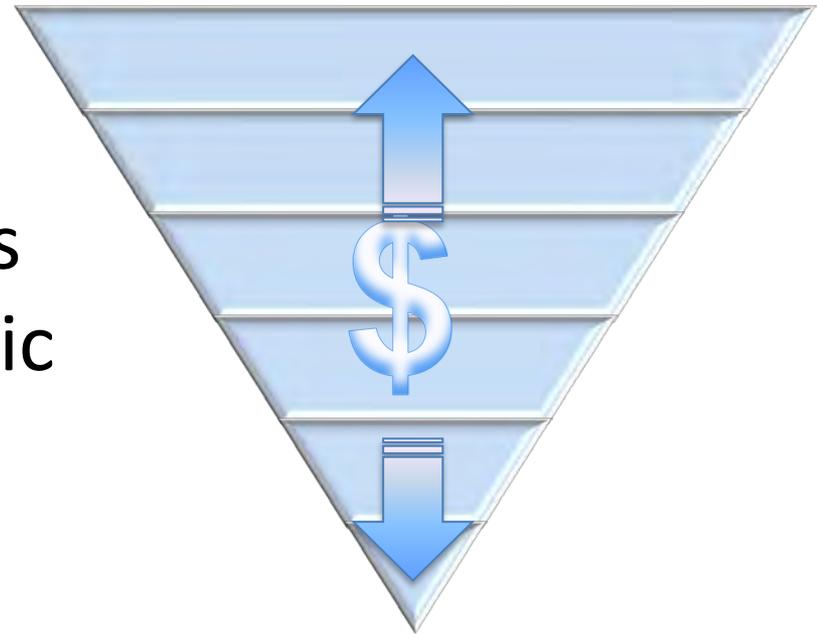
- How should Metro recover the cost of solid waste services and programs, and general government?



5. Cost Recovery

Recommended Next Steps

- Develop cost recovery options
- Analyze policy implications, advantages and disadvantages
- Consider any implications from disposal or economic regulation options



6. Collection Needs

Policy Question

- After examining these issues, are there any steps Metro should take to ensure the regional collection system is consistent with desired outcomes?



6. Collection Needs? Recommended Next Steps

- Assess after other studies complete



Strategic Questions - Resource and Stakeholder Engagement Requirements

Policy Question	Anticipated Staff and/or Consultant Resources	Anticipated Stakeholder Interest
1. Long-Term Disposal Method	High	High
2. Future of Metro South Station	High	High
3. Organics Reload Capacity Needs	Low	Low
4. Tonnage Allocation and Rate Regulation	Moderate	Moderate
5. Cost Recovery	Moderate	High
6. Collection Needs	Uncertain	Uncertain

Goals for community engagement

- Provide opportunities to help shape or weigh in on possible actions or policies
- Ensure informed dialogue about choices, tradeoffs and costs of options
- Understand stakeholders' preferences
- Meet Metro's principles for citizen involvement

Recommendation: fall/winter 2011

Public opinion research

- Review existing research, polling
- OptIn panel
- Focus groups

Local government outreach

- Identify community priorities, concerns
- Identify key stakeholders
- Updates



Questions for Metro Council

- What other strategic questions would you like to see discussed?
- What specific engagement strategies would you like to see developed?



Next Steps

- Refine analysis and decision timeline
- Develop more detailed work plans and resource requirement estimates
- Flesh out stakeholder engagement plan
- Report back to Council later in Fall/Winter

