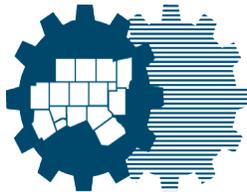




Regional Solid Waste Management Plan (RSWMP) Progress Update



North Central Texas
Council of Governments

RSWMP Subcommittee

March 28, 2022

A photograph of a landfill, showing large piles of compacted trash and debris, including plastic bottles, paper, and other waste materials, arranged in rows.

Agenda

Introductions

Status Update

Survey Results

Volume II Discussion

- Solid Waste Amounts by Type and Demographics
- Current and Planned Solid Waste Management Activities
- Adequacy of Facilities
- Partnerships
- Incentives and Barriers

Next Steps

Virtual Meeting Reminders

1

Please leave your microphone muted unless speaking

2

Use the chat box or raise hand button to ask a question or provide a comment

3

Please state your name prior to asking a question or making a comment

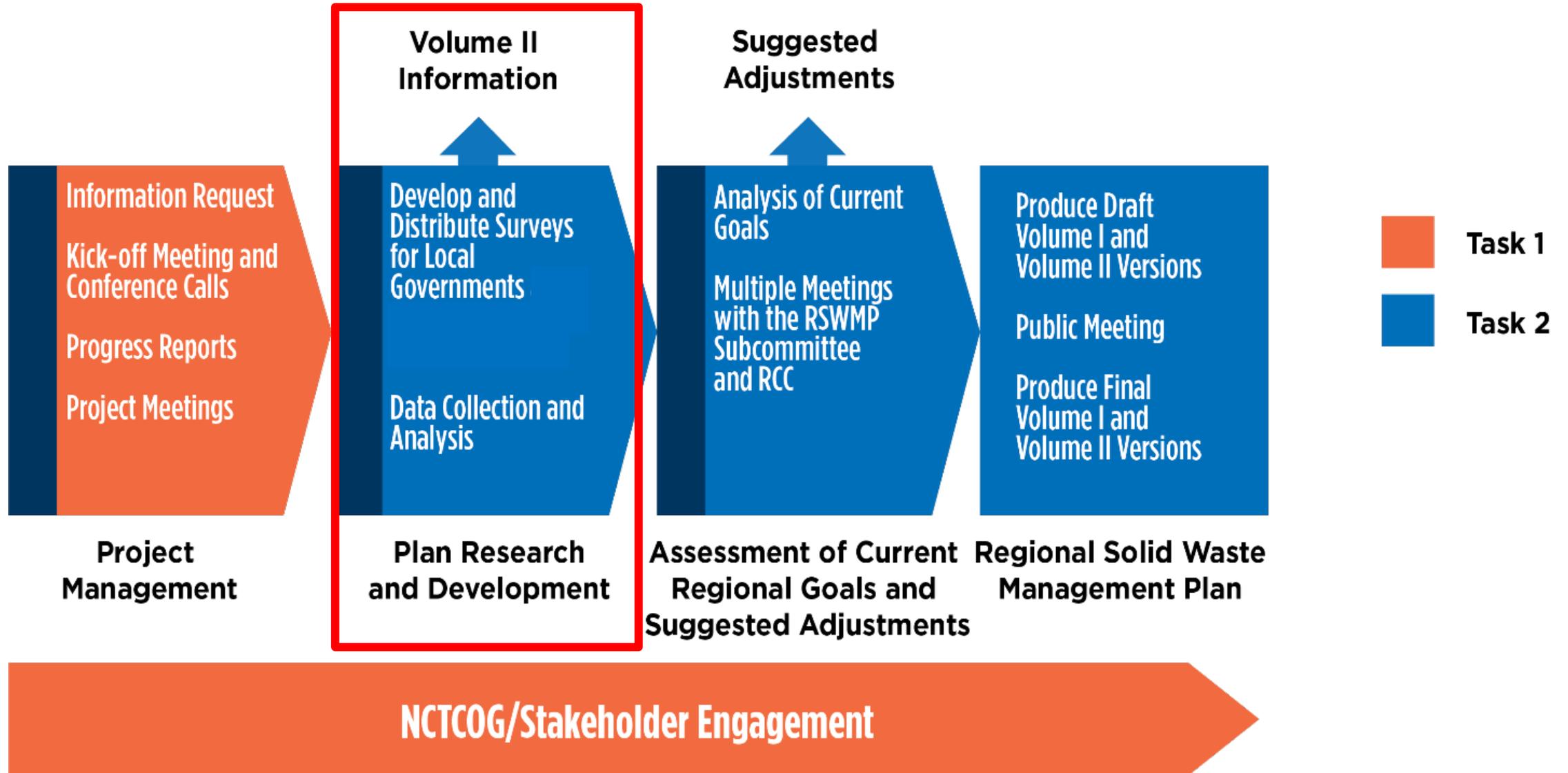
4

Please note that the presentation is being recorded

Introductions

Status Update

RSWP Planning Process



RSWMP Deliverables Overview

	Volume I Form	Volume II Form	RSWMP Storybook
Description	TCEQ-mandated form summarizing material management goals and objectives for the region	TCEQ-mandated form summarizing material management practices, facility adequacy, and other key topics	Visual executive summary of Volume I and II content that will be available on NCTCOG’s website following completion of Volume I and II
Progress	<ul style="list-style-type: none"> NCTCOG staff completed Volume I Survey in 2021 Form only requires data from Survey; current Burns & McDonnell focus on Volume II Form, as level of detail and analysis is greater 	<ul style="list-style-type: none"> Completed Volume II Survey in February Currently progressing based on survey data, municipal solid waste plans, and previous NCTCOG studies 	<ul style="list-style-type: none"> Began planning To be further developed following progress of Volume I and II Forms

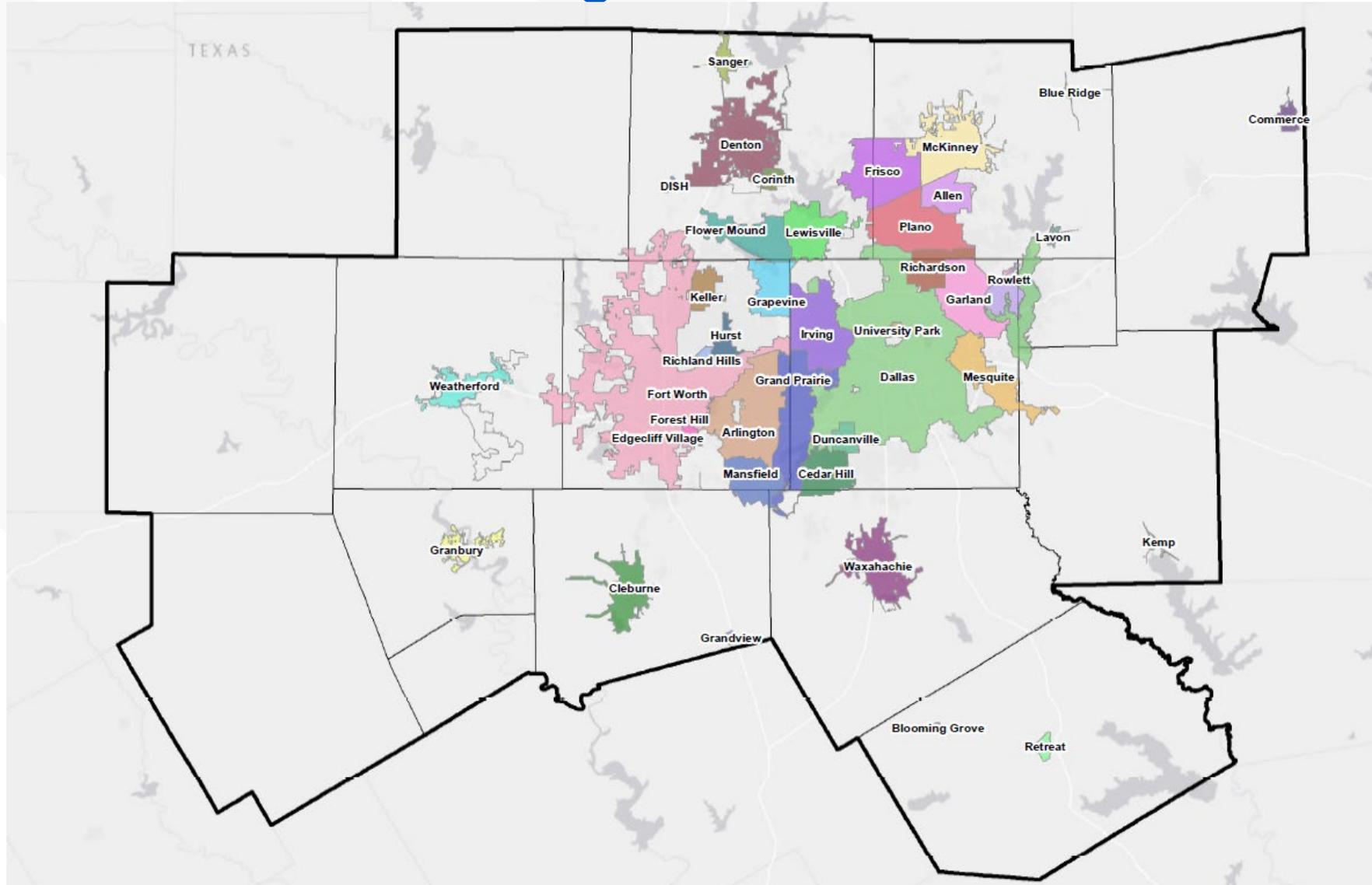
Focus of Today’s Discussion

Survey Results

Municipalities Participating in Survey Represent Over 67% of Region's Population

- 
- ▶ Allen
 - ▶ Arlington
 - ▶ Blooming Grove
 - ▶ Blue Ridge
 - ▶ Cedar Hill
 - ▶ Cleburne
 - ▶ Commerce
 - ▶ Corinth
 - ▶ Dallas
 - ▶ Denton
 - ▶ DISH
 - ▶ Duncanville
 - ▶ Edgecliff Village
 - ▶ Ellis County
 - ▶ Flower Mound
 - ▶ Forest Hill
 - ▶ Fort Worth
 - ▶ Frisco
 - ▶ Garland
 - ▶ Granbury
 - ▶ Grand Prairie
 - ▶ Grandview
 - ▶ Grapevine
 - ▶ Hurst
 - ▶ Irving
 - ▶ Keller
 - ▶ Kemp
 - ▶ Lavon
 - ▶ Lewisville
 - ▶ Mansfield
 - ▶ McKinney
 - ▶ Mesquite
 - ▶ North Texas Municipal Water District
 - ▶ Plano
 - ▶ Retreat
 - ▶ Richardson
 - ▶ Richland Hills
 - ▶ Rowlett
 - ▶ Sanger
 - ▶ University Park
 - ▶ Waxahachie
 - ▶ Weatherford
 - ▶ Wise County

Respondents Within Region



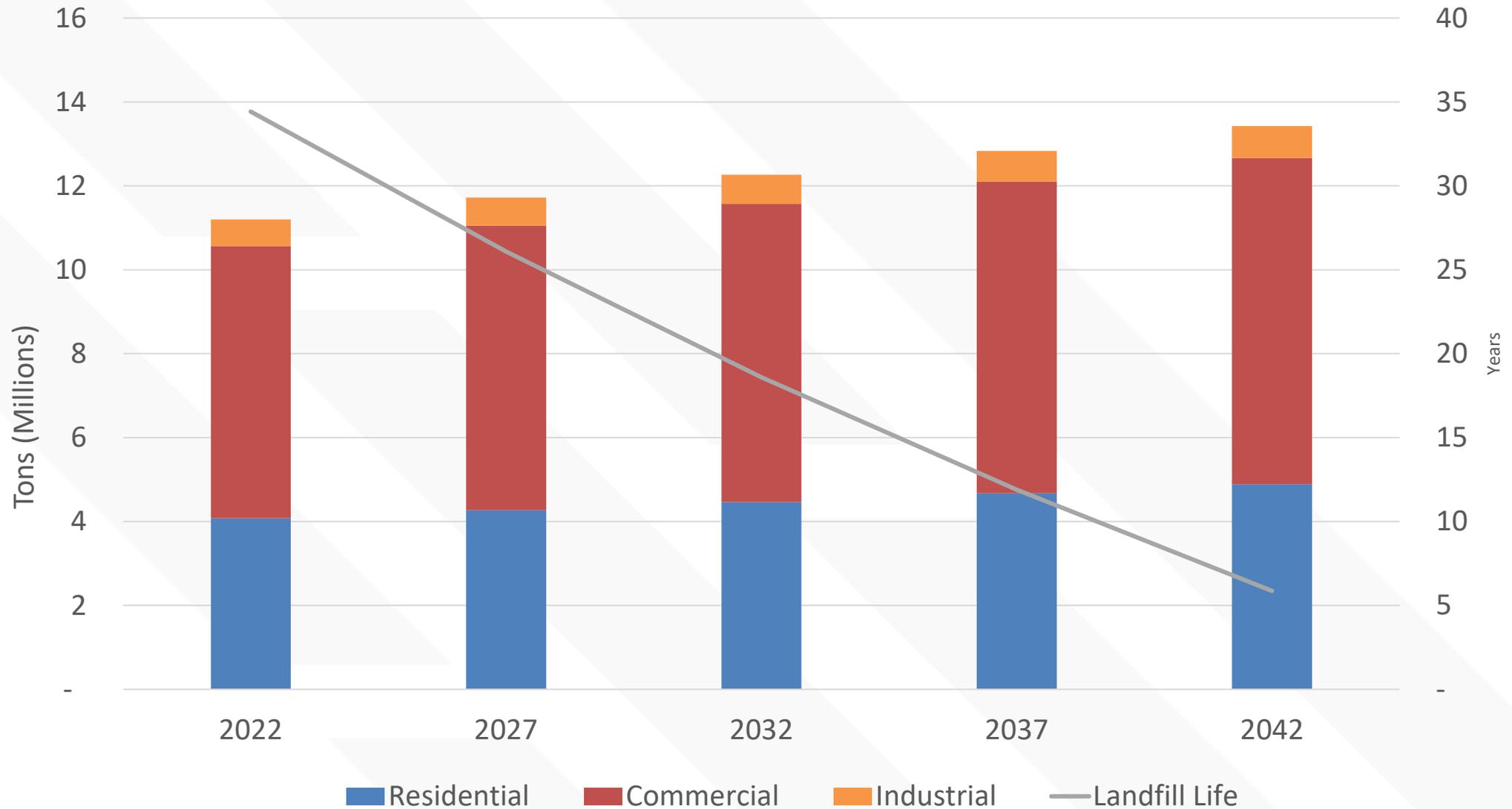
Volume II Discussion

Today's Discussion Will Focus on Five Key Sections in Volume II

Volume II Section	Title
III.B.	Estimates of Current and Future Solid Waste Amounts by Type
III.C.	Description of Current and Planned Solid Waste Management Activities
III.D.	Description and Assessment of the Adequacy of Existing Solid Waste Management Facilities
III.F	Identification of Public and Private Management Agencies and Responsibilities
III.K	Identification of Incentives and Barriers

Burns & McDonnell has advanced other sections within Volume II. Today's discussion focuses on five of the most central topics for the RSWMP

Disposal Forecast (III.B)



Organics Diversion Status (III.B)

Component	Detail and/or Approach	Diversion Impact (Tons)
Processors that have Provided Data	Diversion data has been received from 16 out of 25 facilities operating in the region (data from the Organics to Fuel Study and TCEQ Recycling Market Development Plan (RMDP))	1,380,000
Additional Processors	Project team will contact composting facilities to determine additional diversion in the region If facilities do not provide data, discuss whether to extrapolate based on the TCEQ RMDP?	In Progress

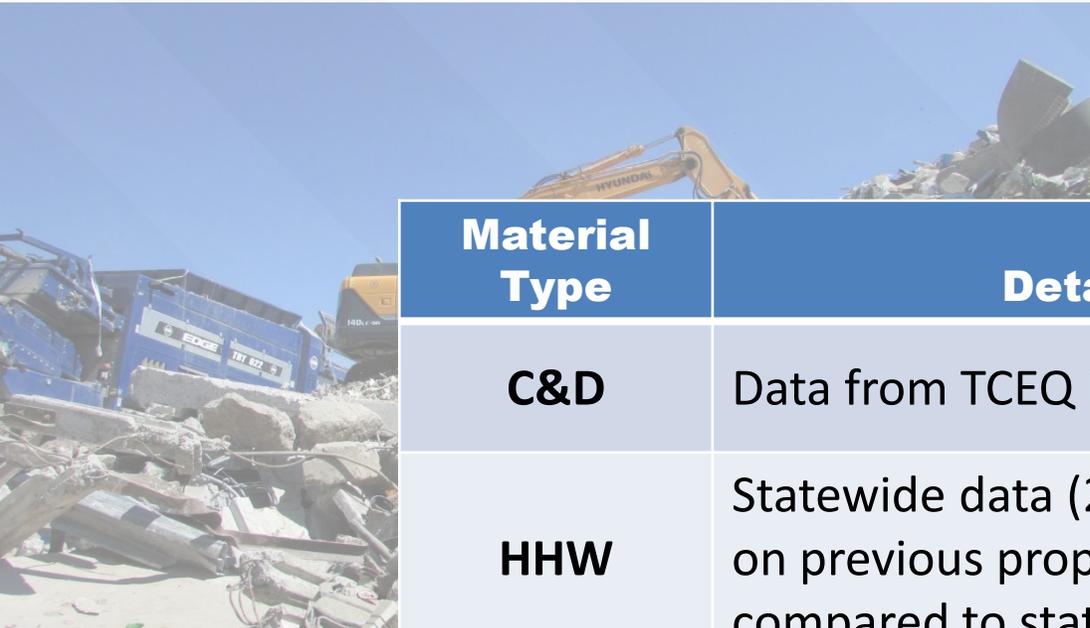
Question for Subcommittee: Any questions or feedback on approach?

Single-Stream Recycling Diversion Status (III.B)

Component	Detail and/or Approach	Diversion Impact (Tons)
MRFs that have Provided Data	Diversion data is comprehensive for known MRFs processing residential and multi-family recycling (based on 100% response for the TCEQ RMDP)	440,000
Direct-to-Market Material	Several facilities divert material direct-to-market. Diversion within region can be estimated as: <ul style="list-style-type: none">• Facilities based in the region can be assumed to process local material• Facilities outside of the region can be assumed to process the regional material proportional to the population of the region to the state (27 percent)	In Progress

Question for Subcommittee: Any questions or feedback on approach?

Data on Other Diversion Material (III.B)



Material Type	Detail and/or Approach	Diversion Impact (Tons)
C&D	Data from TCEQ RMDP	1,100,000
HHW	Statewide data (2019) can be extrapolated based on previous proportion of HHW in region compared to state	3,400
Tires	Statewide data can be extrapolated based on TCEQ RMDP (proportionally)	30,000
Textiles	Statewide data can be extrapolated based on TCEQ RMDP (proportionally)	3,400

Commercial Employment Overview (III.B)

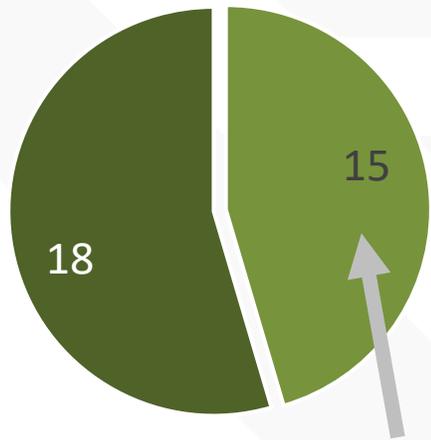
Rank	Industry	Employee Count (2020)	% of Total Commercial Workforce
1	Retail Trade	262,893	23%
2	Educational Services	184,228	16%
3	Health Care and Social Assistance	156,042	14%
4	Finance and Insurance	119,490	11%
5	Professional, Scientific, and Technical Services	88,444	8%
6	Public Administration	85,326	8%
7	Information	55,743	5%
8	Accommodation and Food Services	44,471	4%
9	Administrative, Support, and Waste Management Services	43,309	4%
10	Management of Companies and Enterprises	28,471	3%
11	Arts, Entertainment, and Recreation	23,432	2%
12	Other Services (except Public Administration)	14,082	1%
13	Real Estate and Rental and Leasing	13,272	1%
14	Utilities	6,011	1%

Industrial Employment Overview (III.B)

Rank	Industry	Employee Count (2020)	% of Total Industrial Workforce
1	Manufacturing	206,323	68%
2	Wholesale Trade	49,587	16%
3	Construction	26,991	9%
4	Transportation, Warehousing, Postal Service	9,395	3%
5	Mining	8,096	3%
6	Agriculture, Forestry, Fishing, and Hunting	1,777	1%

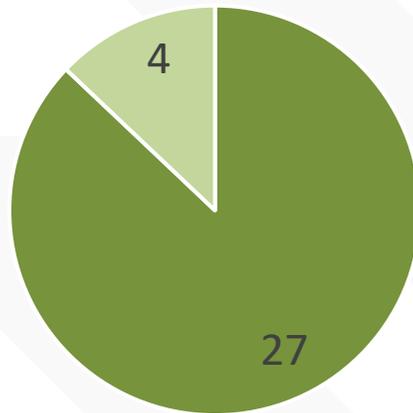
Frequency of Residential Collection (III.C.)

Trash

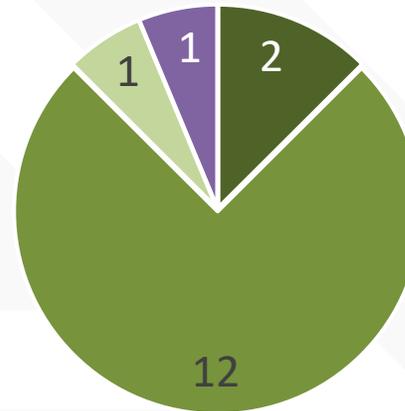


Number of Responses

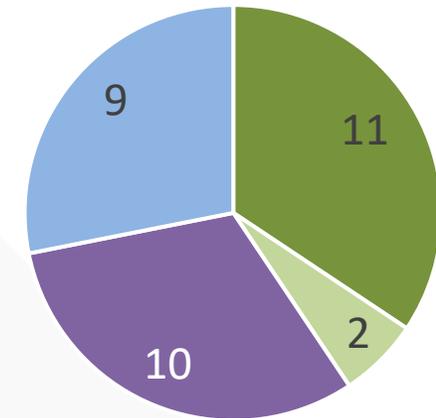
Recycling



Yard Waste



Brush and Bulk



Twice a Week

Weekly

Every Other Week

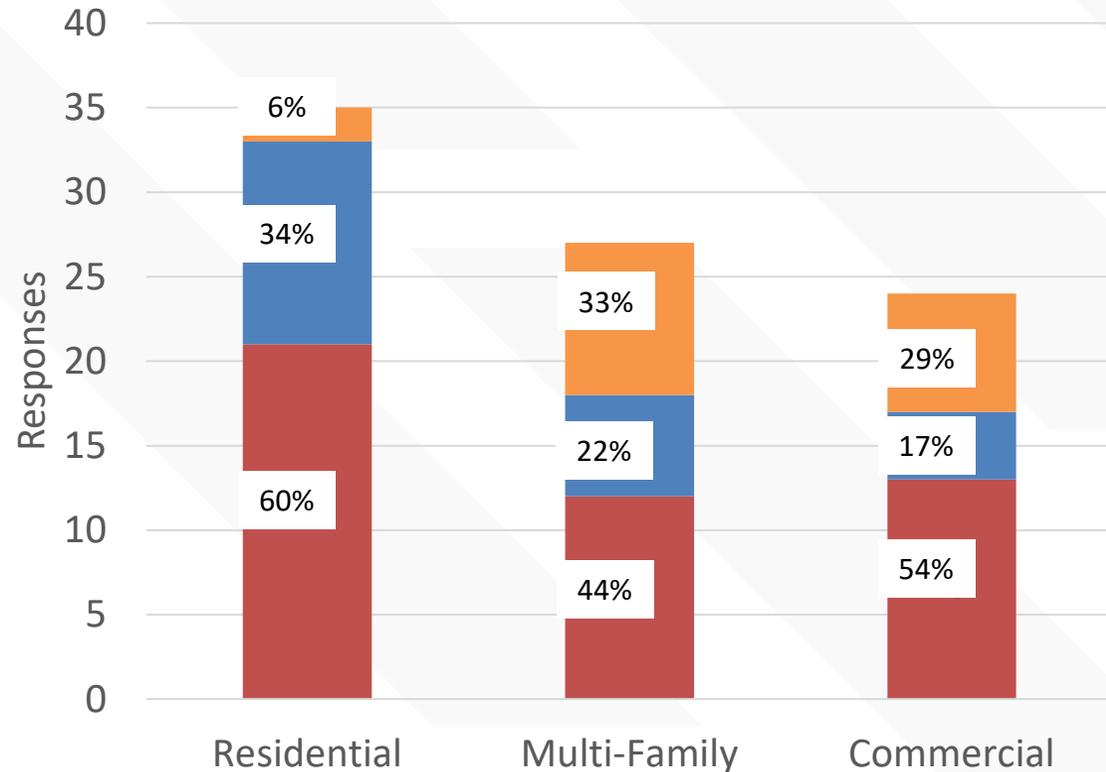
On-Call

Monthly or Less Frequent

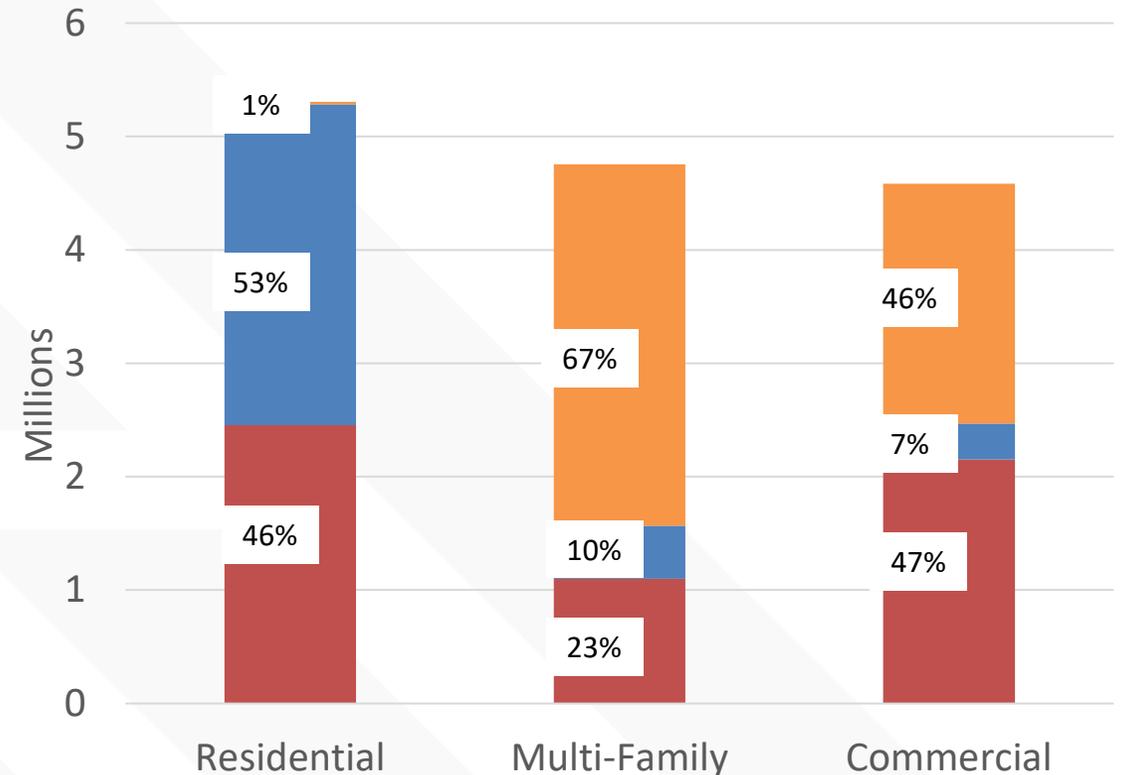
Recycling (Single-Stream) Practices (III.C)

Note: Source separation recycling collection represents <2 percent of recycling communities based on Survey responses

Responses



Population



City Contracts with Hauler



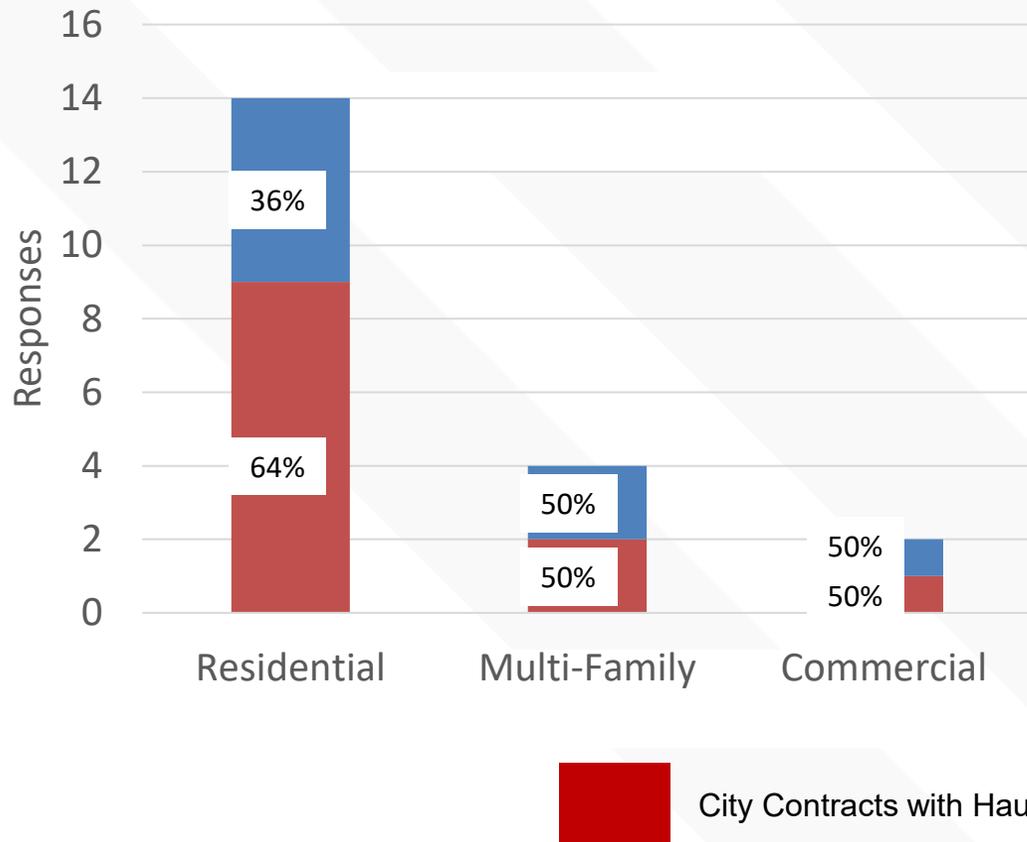
Municipal Crews



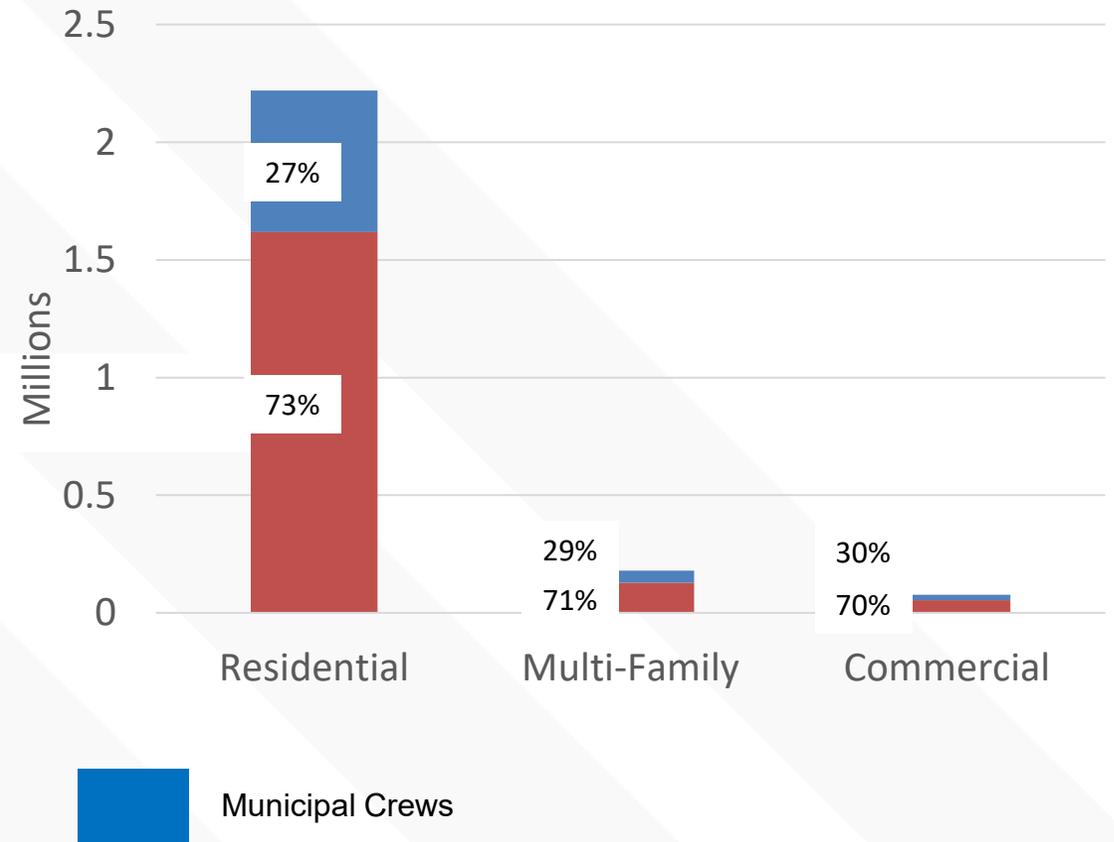
Customer Subscribes with Hauler

Yard Waste (Separated from Trash) Practices (III.C)

Responses

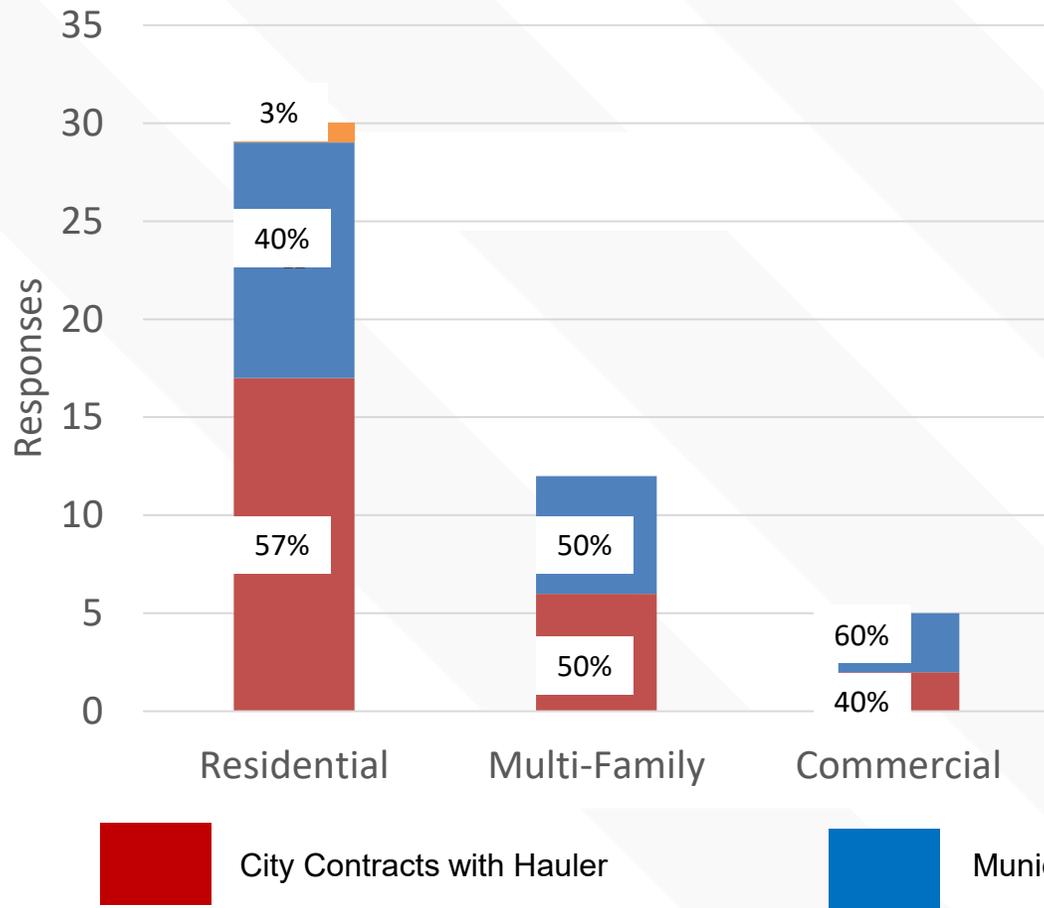


Population

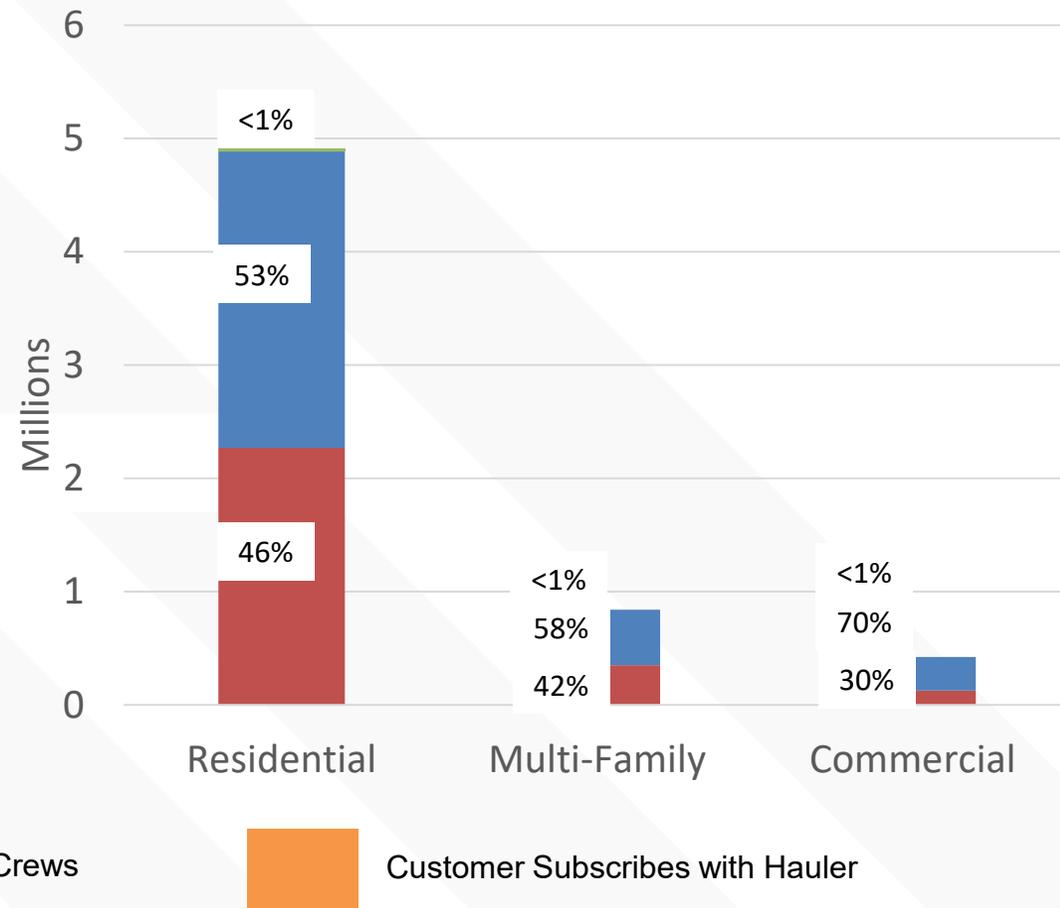


Brush and Bulk Practices (III.C)

Responses



Population



Preliminary Facilities Assessment Summary (III.D.)

Facility	Adequate For Region?	Discussion Points
MRFs	No	<ul style="list-style-type: none"> • Region has highest number of MRFs, many with advanced processing technology • Increases in residential capture rate and commercial recycling activity would exceed existing capacity
C&D Recycling Facility	No	<ul style="list-style-type: none"> • Region only has one commercial C&D recycling facility • Ongoing need for additional C&D recycling capacity due to the large amounts of new construction and renovations in the region
Composting Facility	No	<ul style="list-style-type: none"> • Region has a significant number of composting facilities • Residential waste stream consists of 50 percent food and yard waste—additional diversion of organic material would exceed current capacity • Increase in commercial diversion would similarly impact capacity
Citizen Collection Centers	No	<ul style="list-style-type: none"> • Population of region continues to grow at high rate which may require need for more citizen collection centers

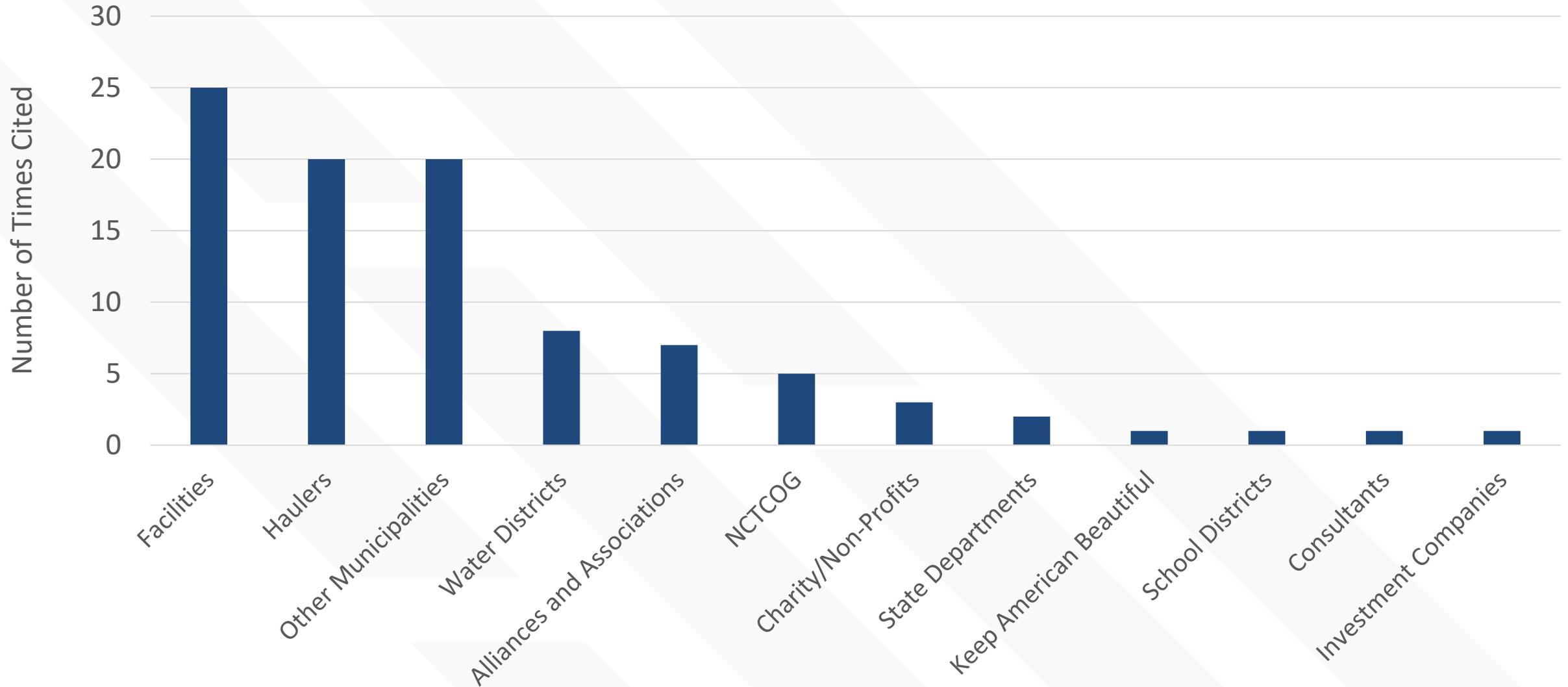
Preliminary Transfer Station Assessment Summary (III.D.)

Facility	Adequate For Region?	Discussion Points
Transfer Stations	No	<ul style="list-style-type: none">• As region continues growing and material generation increases, future landfill capacity will be sited further away from where waste is generated, increasing the amount of material transfer stations will need to receive• Ongoing need for access to disposal and transportation in the Western area of the region• As region increases diversion, transfer stations may require additional capabilities for material handling for recycling and organics

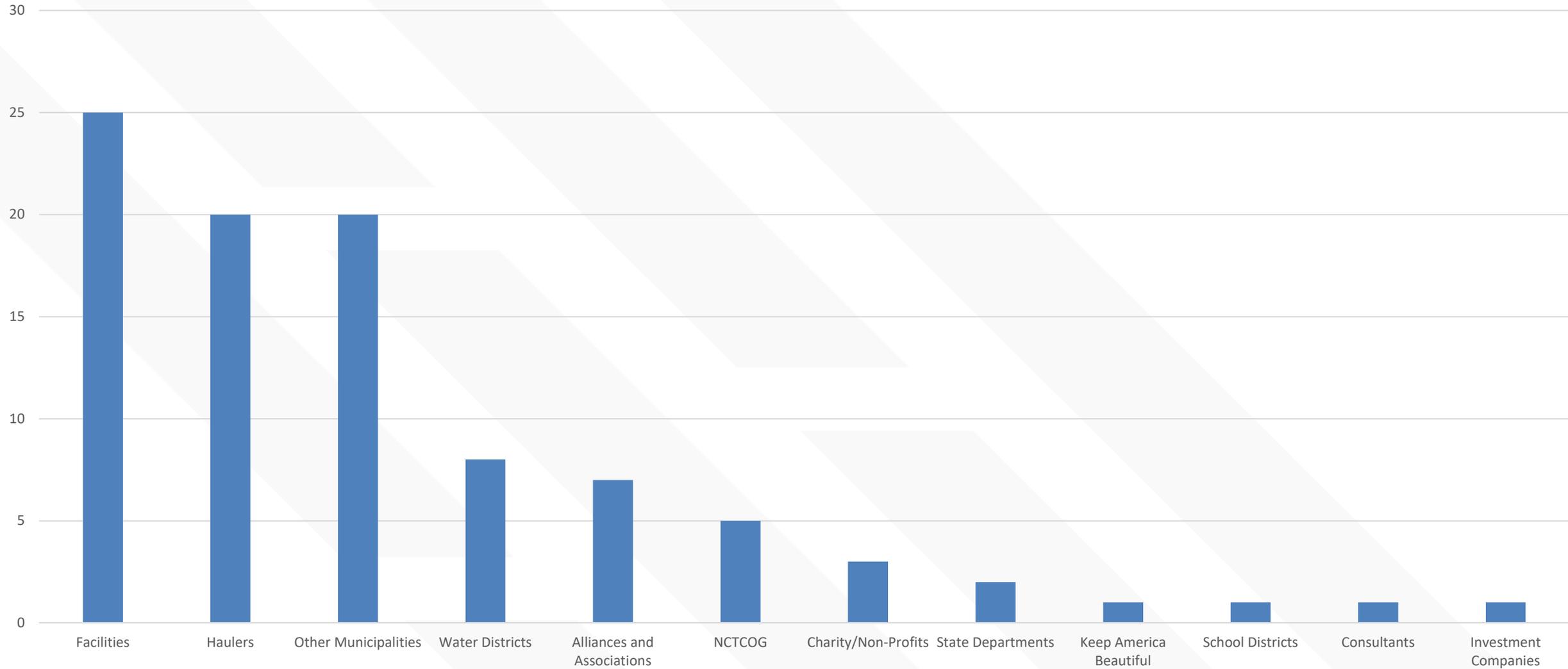
Preliminary Facilities Assessment Summary (III.D.)

Facility Examples	Adequate For Region?	Discussion Points
Landfills	No	<ul style="list-style-type: none">• Disposal is concentrated in Metroplex area of the region (Dallas, Denton, Tarrant)• Eight-most western counties have only 16 years of currently permitted landfill life• Capacity of C&D landfills is disproportionately lower than their proportion of the waste stream
HHW Drop-Off Facilities	No	<ul style="list-style-type: none">• Region has one of the most extensive networks of HHW facilities in Texas (e.g., Cities of Denton, Fort Worth, Frisco and Dallas County)• Areas of the region are still in need (e.g., South portion of the Metroplex and rural areas)

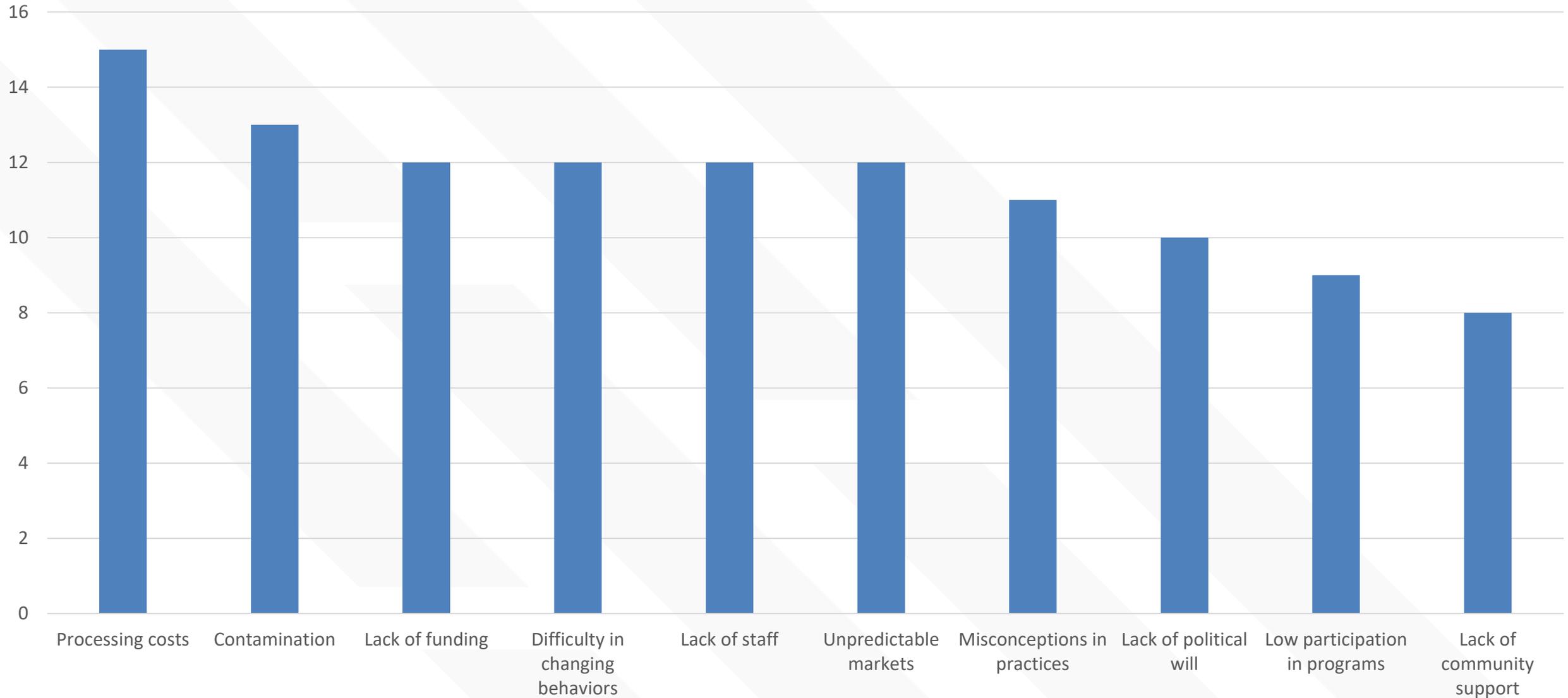
Partnering Entities Summary (III.F.)



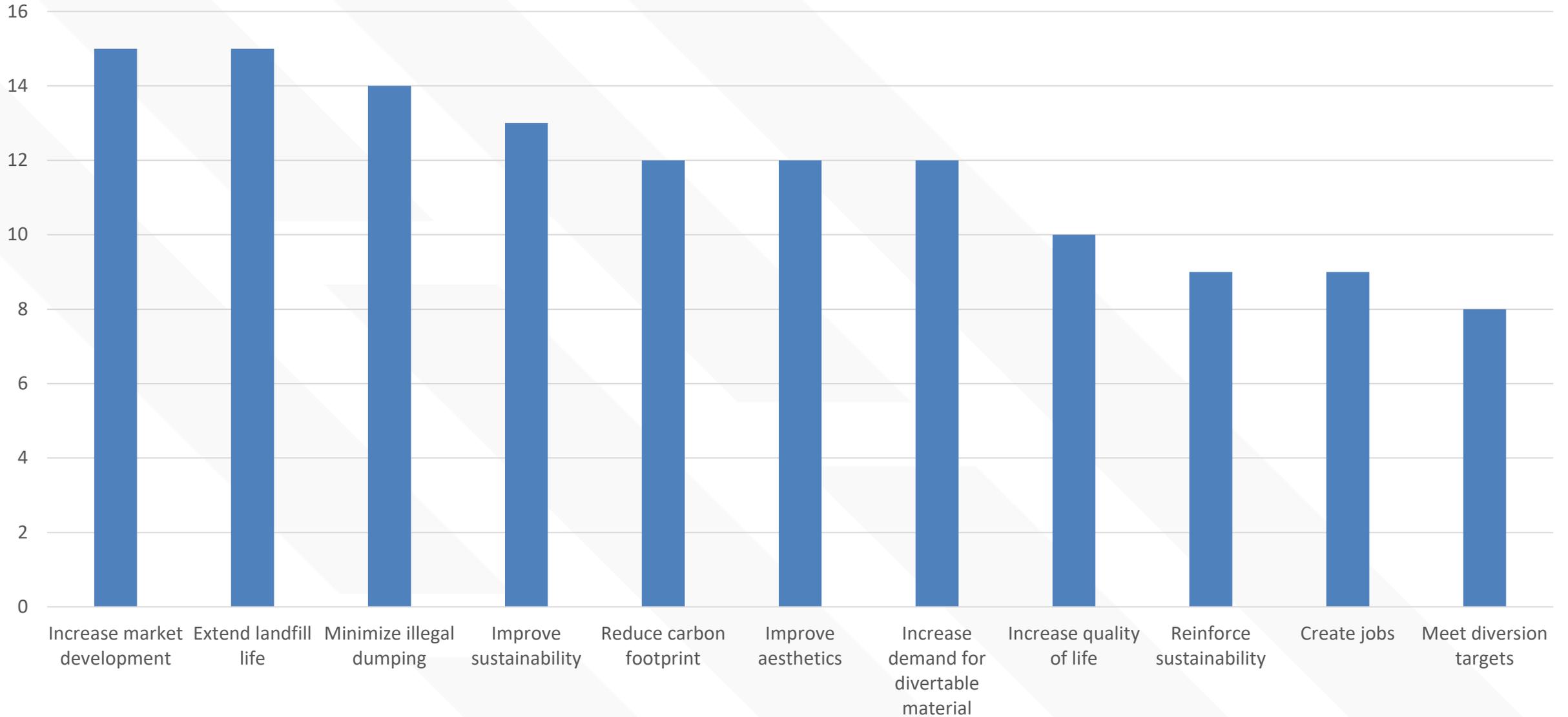
Partnering Entities Summary (III.F.)



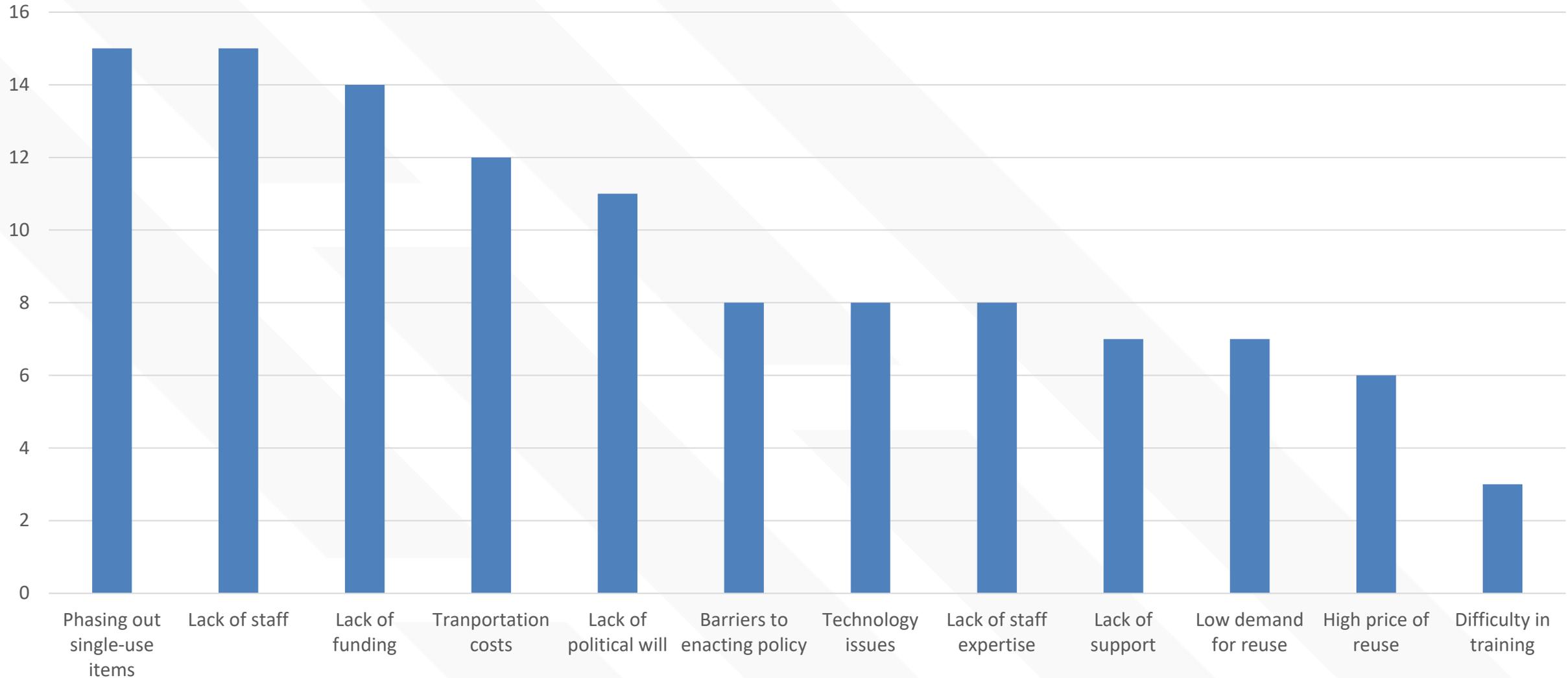
Most Cited Recycling Barriers (Ill.K.)



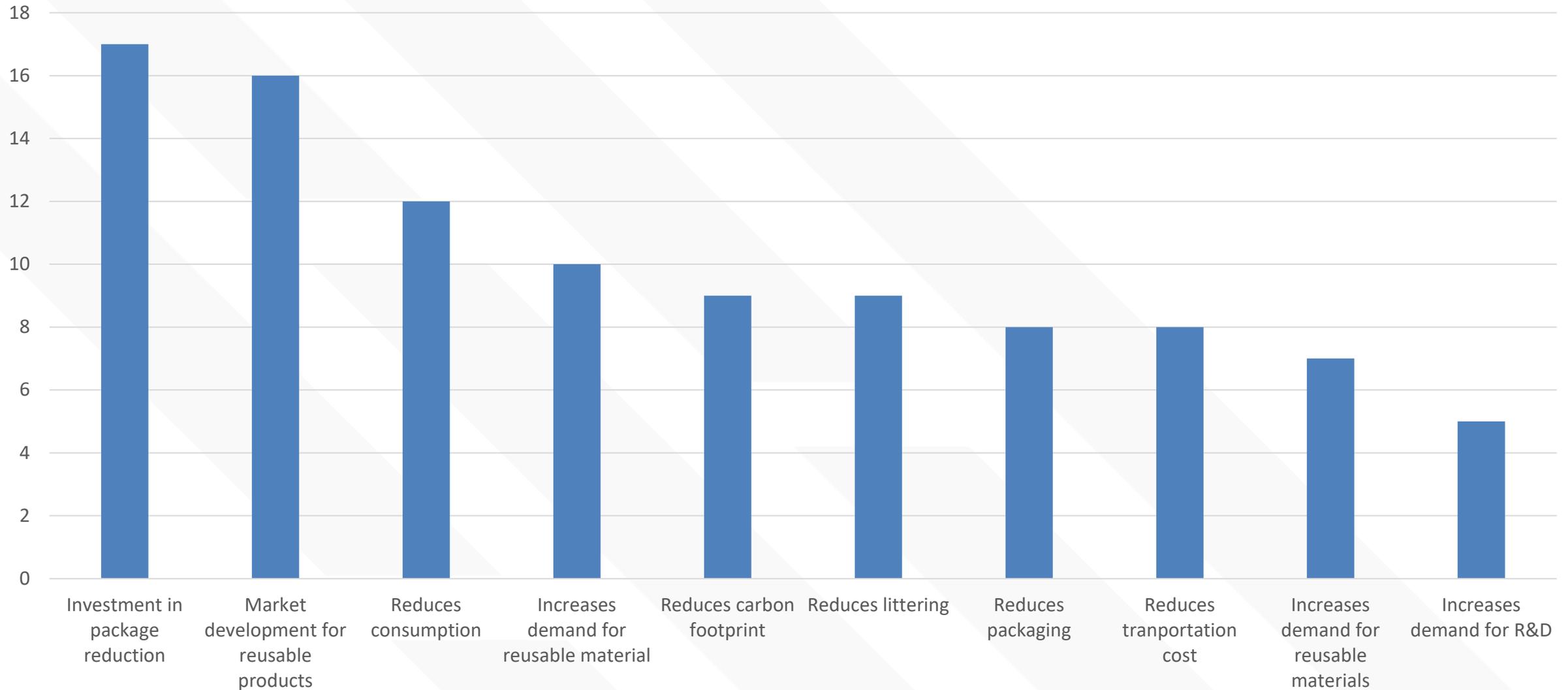
Most Cited Recycling Benefits (III.K.)



Most Cited Waste Reduction Barriers (III.K.)



Most Cited Waste Reduction Benefits (III.K.)



Next Steps



RSWMP Next Steps

- ▶ Burns & McDonnell will continue drafting Volume II Form, based on feedback from the Subcommittee
- ▶ Once Volume II is completed in April, drafts will be submitted to NCTCOG
- ▶ Storybook and Volume I Form will be advanced in parallel with NCTCOG's review of Volume II



CREATE AMAZING.