

# Connecticut Coalition for Sustainable Materials Management

*Kickoff Meeting*

September 8, 2020



**CCSMM**



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## Kickoff Meeting – September 8, 2020

1. **Welcome & Introductions**
2. Background on Waste Sector
3. CCSMM Initiative Overview
  - Scope
  - Working Groups
  - Deliverables
  - Timeframe
4. Municipal Experiences Panel
  - Jennifer Heaton Jones, HRRRA: *Recycling*
  - Kim O'Rourke, Middletown: *Textiles*
  - CJ May, Waterbury: *Outreach & Education*
5. Next Steps
6. Public Comments

# 1. Welcome & Introductions

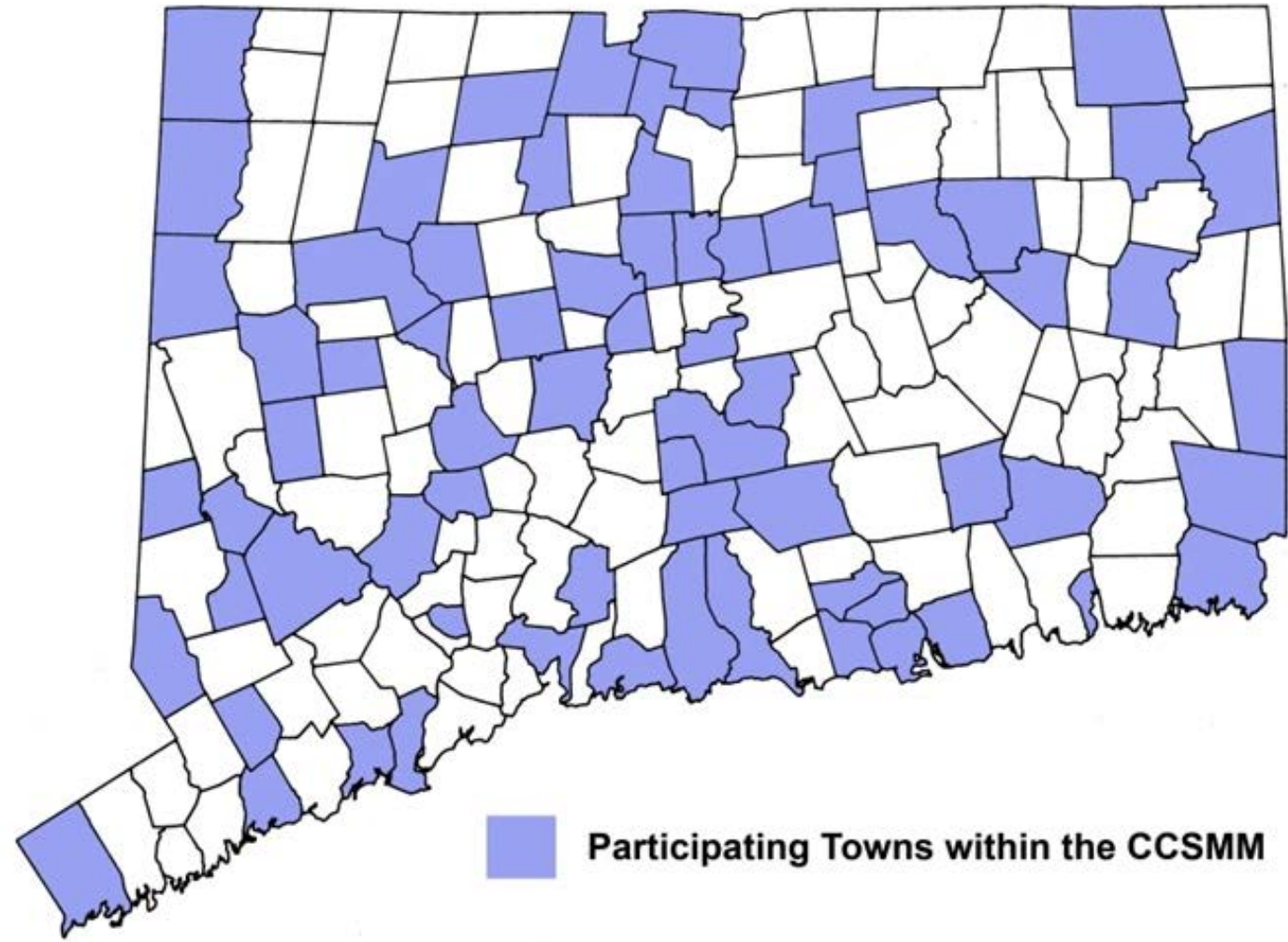
## CCSMM Tri-Chairs

- **Laura Francis**, First Selectman, Town of Durham
- **Matt Knickerbocker**, First Selectman, Town of Bethel
- **Katie Dykes**, Commissioner, CT DEEP
  
- CCSMM Participants include 68 towns from all regions of the state
- Participants include small towns, medium-sized towns, and large cities
- Municipalities from all nine COGs represented
- Participants are members of various regional waste authorities, including HRRA, MIRA, SCRRRA

# Welcome & Introductions

1. Ansonia
2. Barkhamsted
3. Bethel
4. Bethlehem
5. Bloomfield
6. Branford
7. Bridgeport
8. Bristol
9. Brookfield
10. Canterbury
11. Canton
12. Coventry
13. Deep River
14. Durham
15. East Granby
16. East Hartford
17. Ellington
18. Essex
19. Farmington
20. Granby
21. Greenwich
22. Guilford
23. Haddam
24. Hartford
25. Harwinton
26. Kent
27. Killingly
28. Litchfield
29. Madison
30. Manchester
31. Mansfield
32. Middlefield
33. Middletown
34. Montville
35. New Britain
36. New Fairfield
37. New Haven
38. New London
39. Newtown
40. North Haven
41. North Stonington
42. Old Lyme
43. Old Saybrook
44. Oxford
45. Pomfret
46. Portland
47. Ridgefield
48. Rocky Hill
49. Roxbury
50. Salem
51. Salisbury
52. Sharon
53. Southington
54. Stonington
55. Stratford
56. Suffield
57. Thomaston
58. Torrington
59. Vernon
60. Voluntown
61. Washington
62. Waterbury
63. West Hartford
64. Westbrook
65. Weston
66. Westport
67. Windham
68. Windsor Locks
69. Woodstock

# Welcome & Introductions





## Why Are We Here?

**As a municipal leader, what's the most pressing challenge or opportunity you're focused on?**

- "The exorbitant cost of single stream recycling"
- "I find organics to be a real challenge to remove from the waste stream"
- "Educate residents about the importance to reduce waste ... encourage sustainable choices."
- "Increasing the effectiveness of recycling (getting correct materials into the recycling stream"
- "Increasing costs and public awareness."
- "Lower disposal costs"
- "Trucking trash out of state is not a good option"
- "The most pressing challenge for our City is to implement programs to reduce waste without additional costs."

# What Will We Achieve Together?

- **Work together** for a modern, cost-effective, and environmentally sustainable materials management system
- Share information and best practices through **working groups**
- **Solicit ideas** from developers, service providers, and community members about innovative waste management solutions
- Develop momentum for shared approaches / policies
- Align resources with shared goals

# What Will We Achieve Together?

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- **Solicit ideas** from developers, service providers, and community members about innovative waste management solutions
- Develop momentum for shared approaches / policies
- Align resources with shared goals
- **Develop a menu of viable opportunities for improving materials management, including reducing the amount of waste disposed**
- **Make a commitment to create a more cost-effective and environmentally sustainable system**





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# Challenges & Opportunities

- Municipal Solid Waste (MSW) disposal heavily reliant on aging Waste to Energy (WTE) infrastructure
- Rising costs of disposal *and* recycling
- Environmental and public health impacts
- "Land of steady habits"

vs.

- Historical commitment to recycling & reducing landfilling
  - 30% recycling rate, above national averages
- Low reliance on landfilling
- Local innovation
- Policies to promote new technologies
- Robust private sector involvement in waste management and infrastructure development



# Connecticut's Waste Infrastructure

- 5 Waste to Energy facilities
- 1 Ash Landfill
- 4 Food Scrap Anaerobic Digestion facilities permitted, one in operation
- 30 Volume Reduction facilities
- 4 Intermediate Processing Centers for Single Stream/mixed recyclables
- Transfer Stations in almost all municipalities
- 1 Glass recycling end market & 1 Glass Processor
- 15 Bottle Bill Redemption Centers
- Virtually no C&D disposal – 90% goes out of state



# Connecticut's Waste Infrastructure

## *Connecticut's Waste Infrastructure is disproportionately located in Environmental Justice communities*

- 3 of the 5 Waste to Energy facilities
- 1 Ash Landfill
- 4 Food Scrap Anaerobic Digestion facilities permitted, one in operation
- 10 of the 30 Volume Reduction facilities
- 3 of the 4 Intermediate Processing Centers for Single Stream/mixed recyclables
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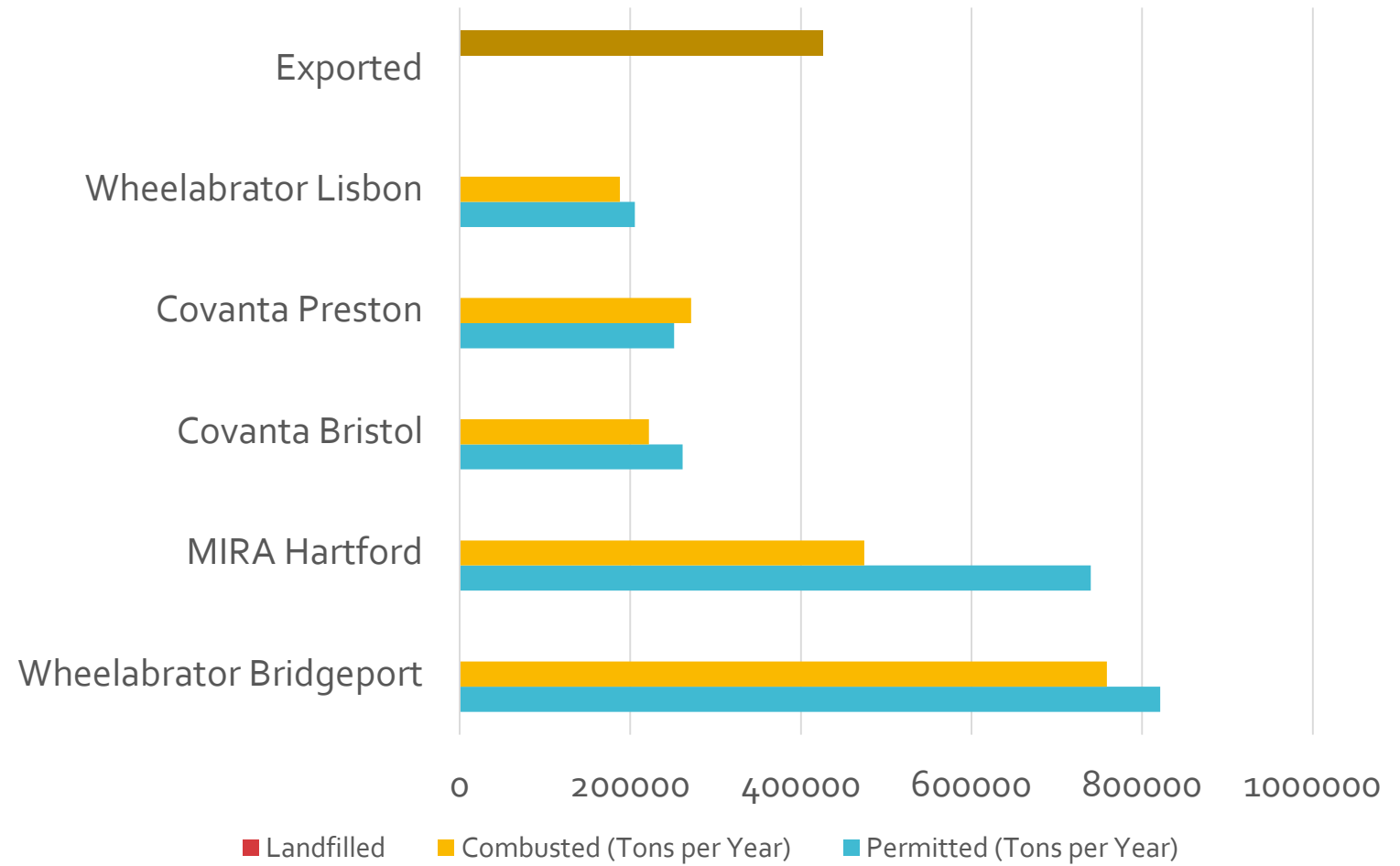
# Connecticut's Waste Generation

- Approximately 3.5M TPY of MSW is generated in CT
- ~1.25 million is recycled or composted
- ~2.3 – 2.5 million TPY of MSW is disposed
- ~87% of CT disposed MSW goes to CT's 5 waste-to-energy plants which generate electricity as a by-product. CT has the lowest rate of landfilling of any state
- In 2016, 100K tons of MSW went out of state for disposal; currently ~400K goes out of state for disposal



# Waste to Energy Capacity (2019)

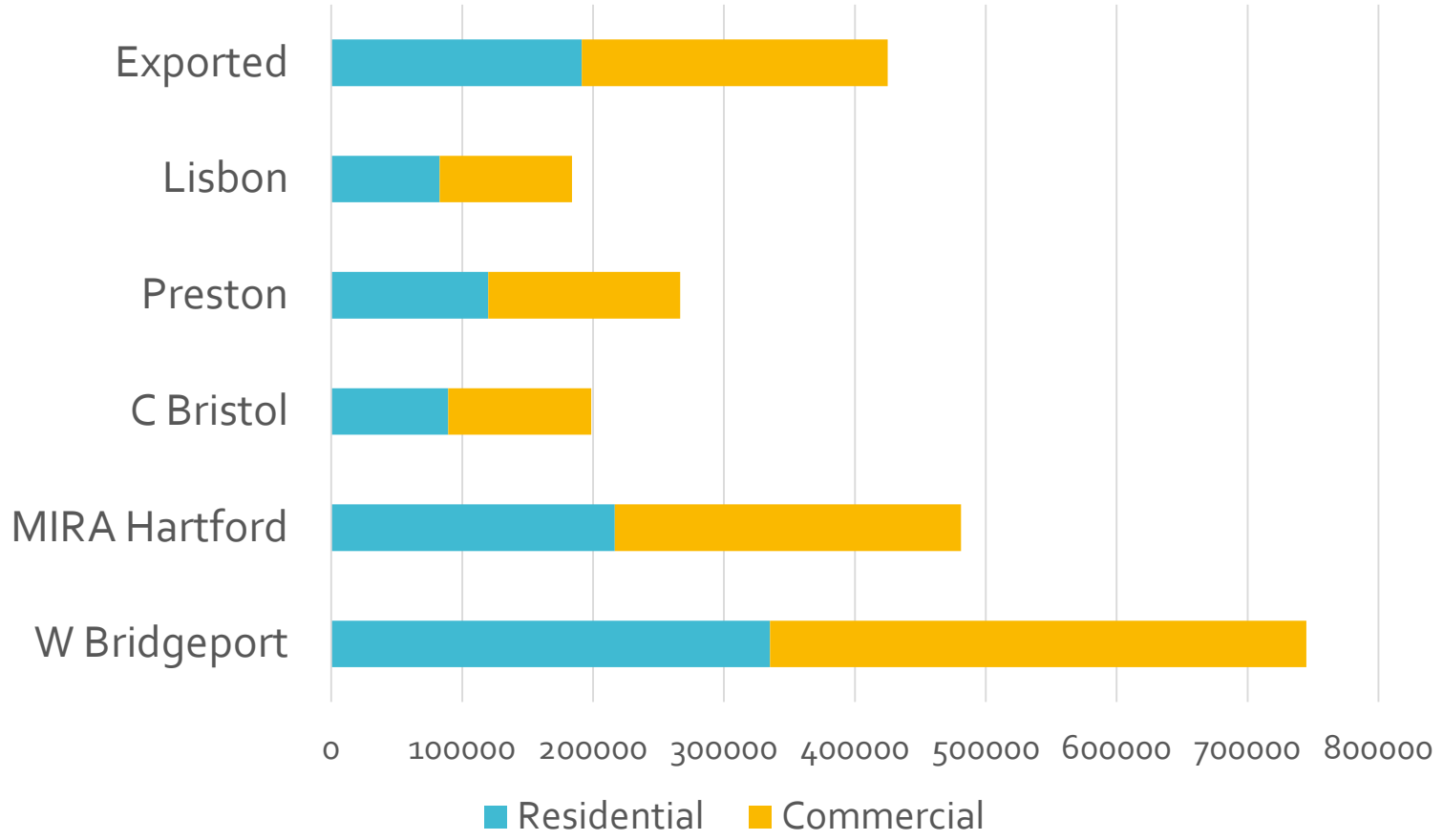
### 2019 Actual (Combusted) vs. Permitted WTE Capacity





*Estimated annual pounds of MSW generated per capita (residential) = 740*

### Estimated Annual Residential, Commercial MSW Tonnage Generated, 2018





## Recent Cost Trends

- General trend of increases in tip fees for municipalities
- MIRA's 2018 tip fee was \$68 per ton
- MIRA MSA Tip Fee for MSW = \$91-93/ton = ~35% increase
- HRRR MSW tip fee in 2019 = \$88.21 & in 2020 = \$95.31
- CT municipalities are paying on average \$80 - 90 per ton for MSW and
- \$25-\$87 per ton for recyclables, excluding transportation





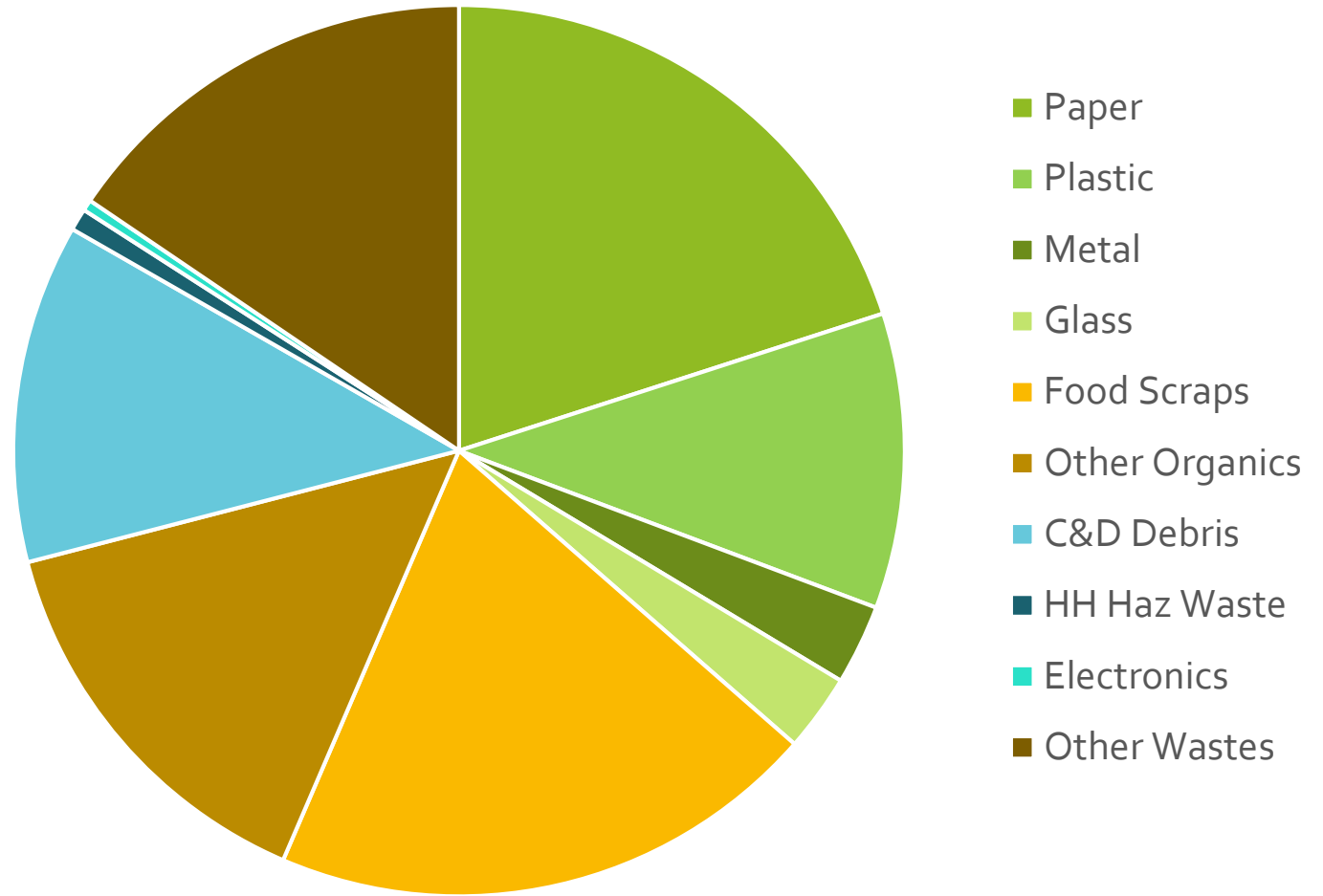
## A Fork in the Road?

- MSW generation is 2.3M TPY
- With the potential loss of MIRA WTE capacity – In-state disposal capacity falls to ~1,540,000 TPY
- The state will see a significant disposal capacity shortfall
- Increased tipping fees driven up by market demand and limited in-state capacity
- Uncertainty regarding the reliability of our remaining capacity for MSW disposal



# Waste Composition, 2015

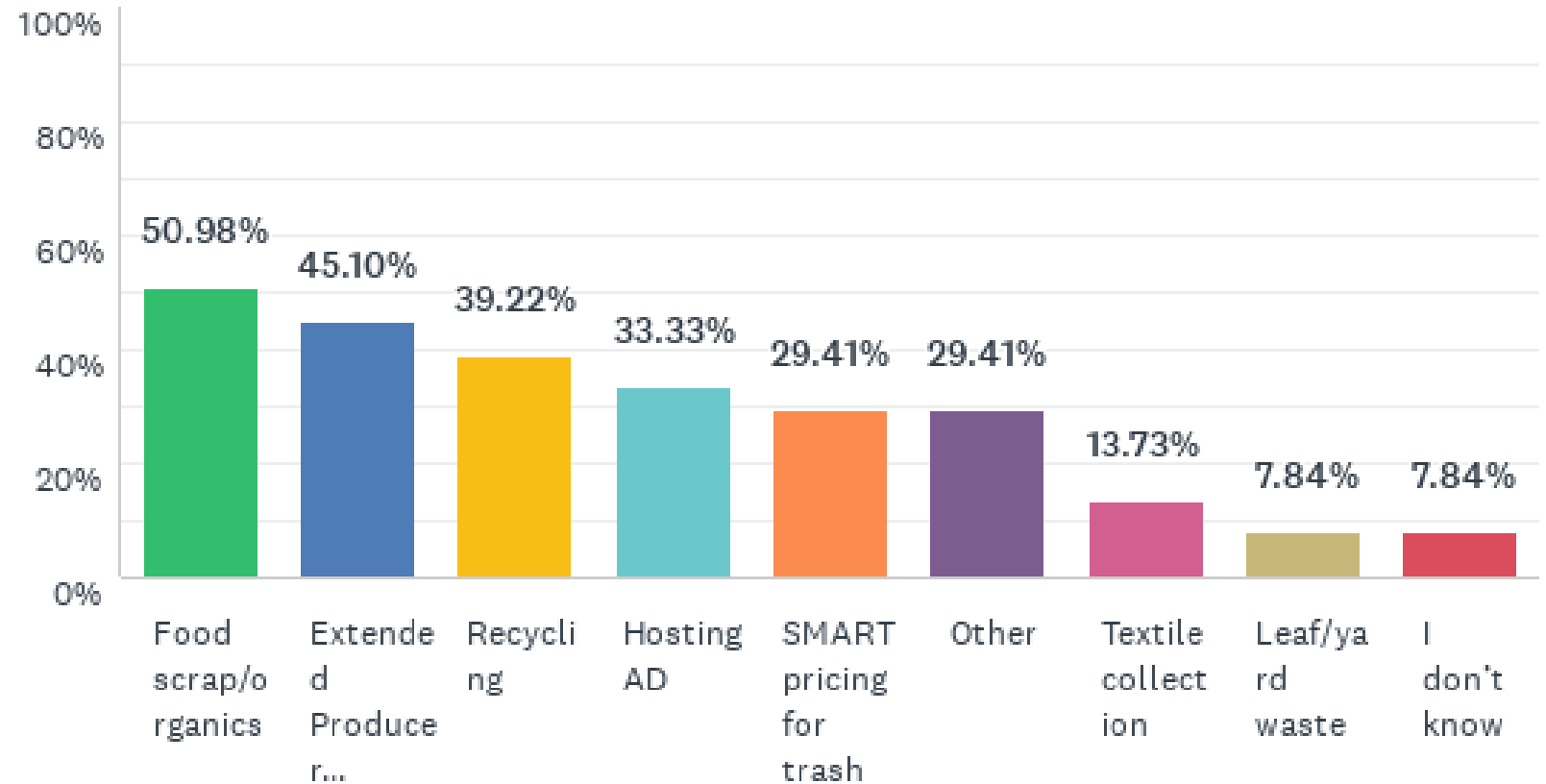
Residential MSW Composition, 2015





# CCSMM Interest in Solutions

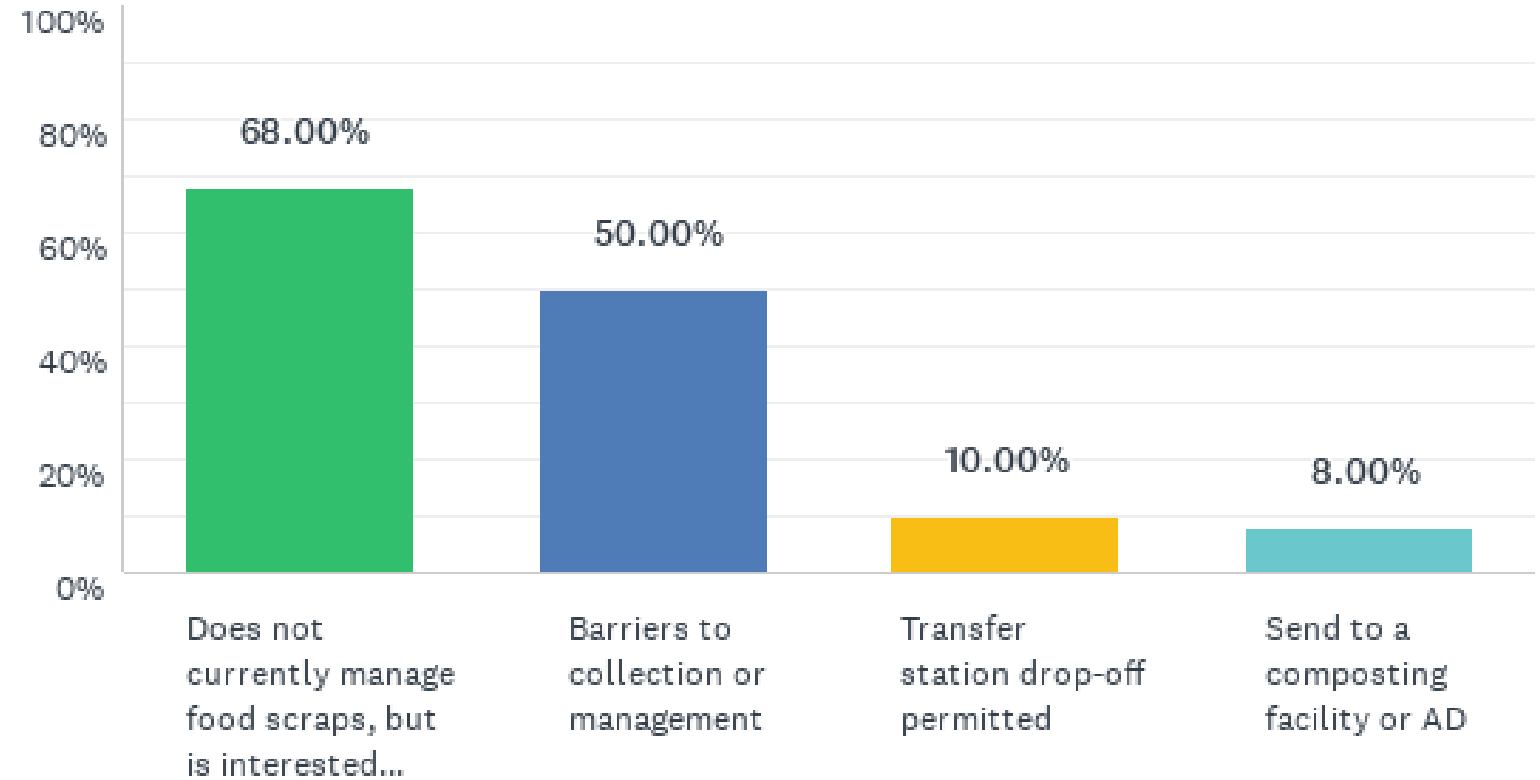
Responses to CCSMM Municipal Survey





# Food Scraps Snapshot

Responses to CCSMM Municipal Survey

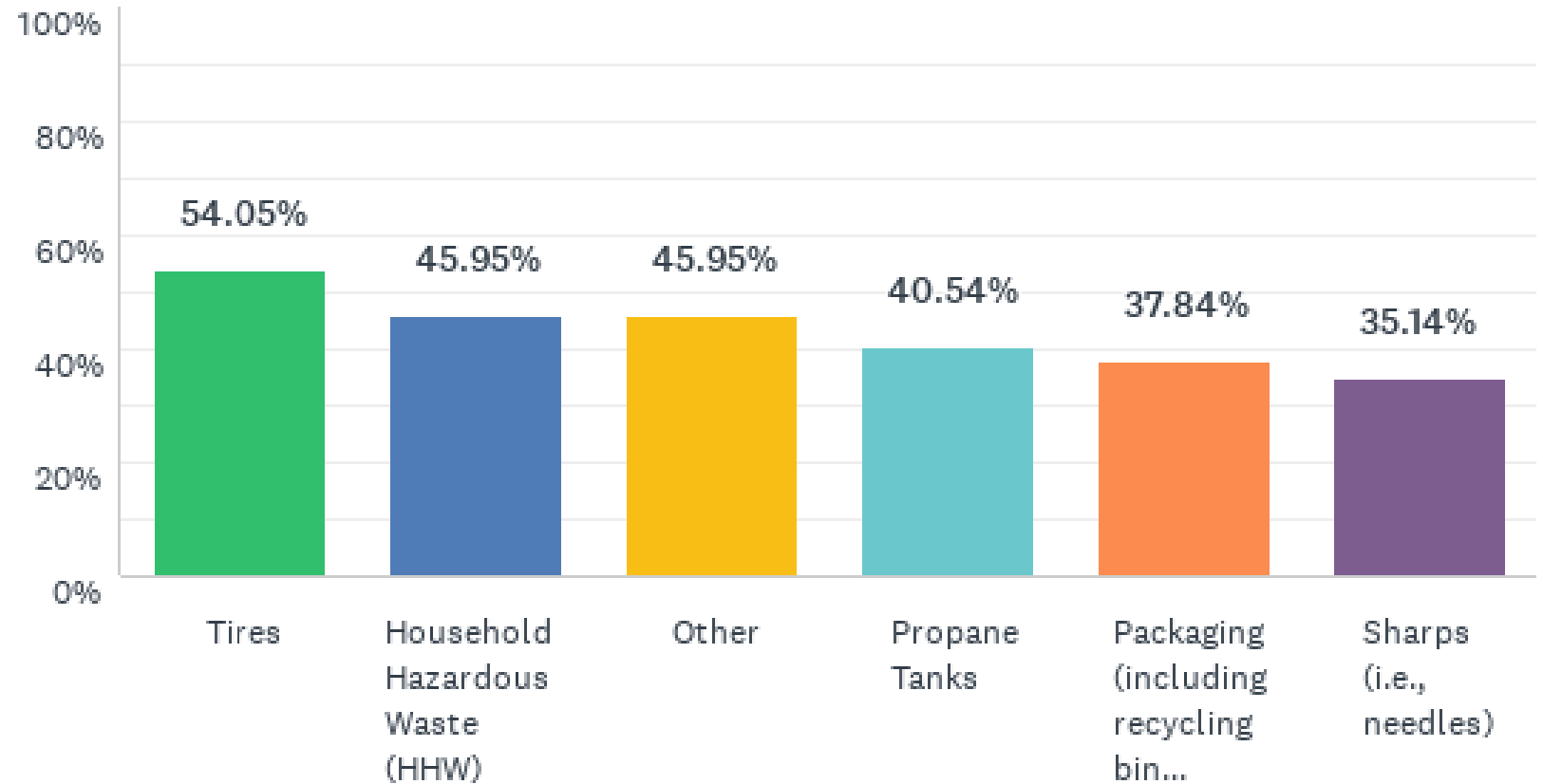




# Extended Producer Responsibility

Responses to CCSMM Municipal Survey

*What additional materials should be added to an EPR program?*

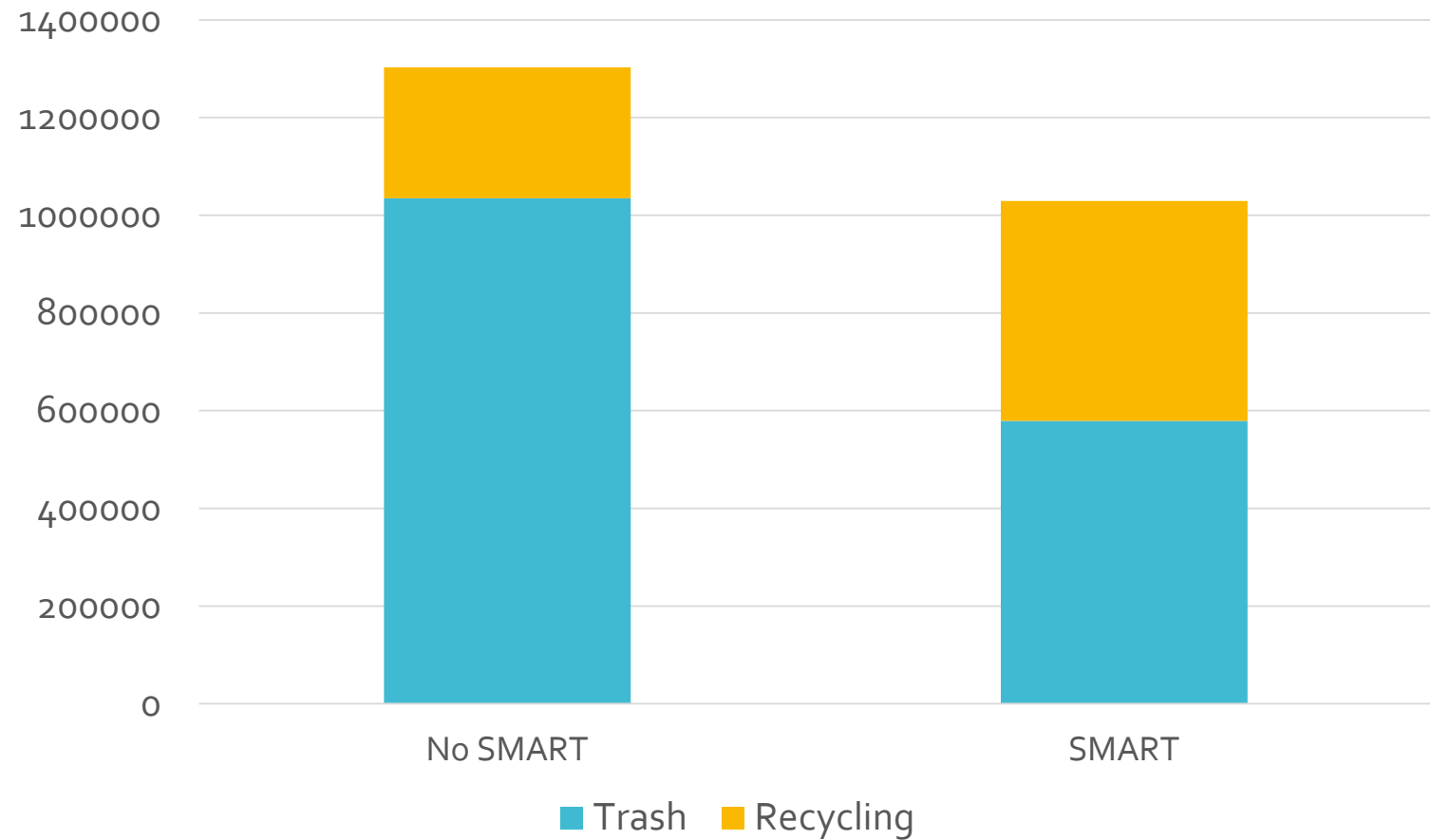




# Unit Based Pricing (SMART)

Courtesy of Waste Zero, Inc.

## Potential Impact of Unit-Based Pricing on Residential MSW Generation (Annual Tons)



# SMART & Food Waste Diversion

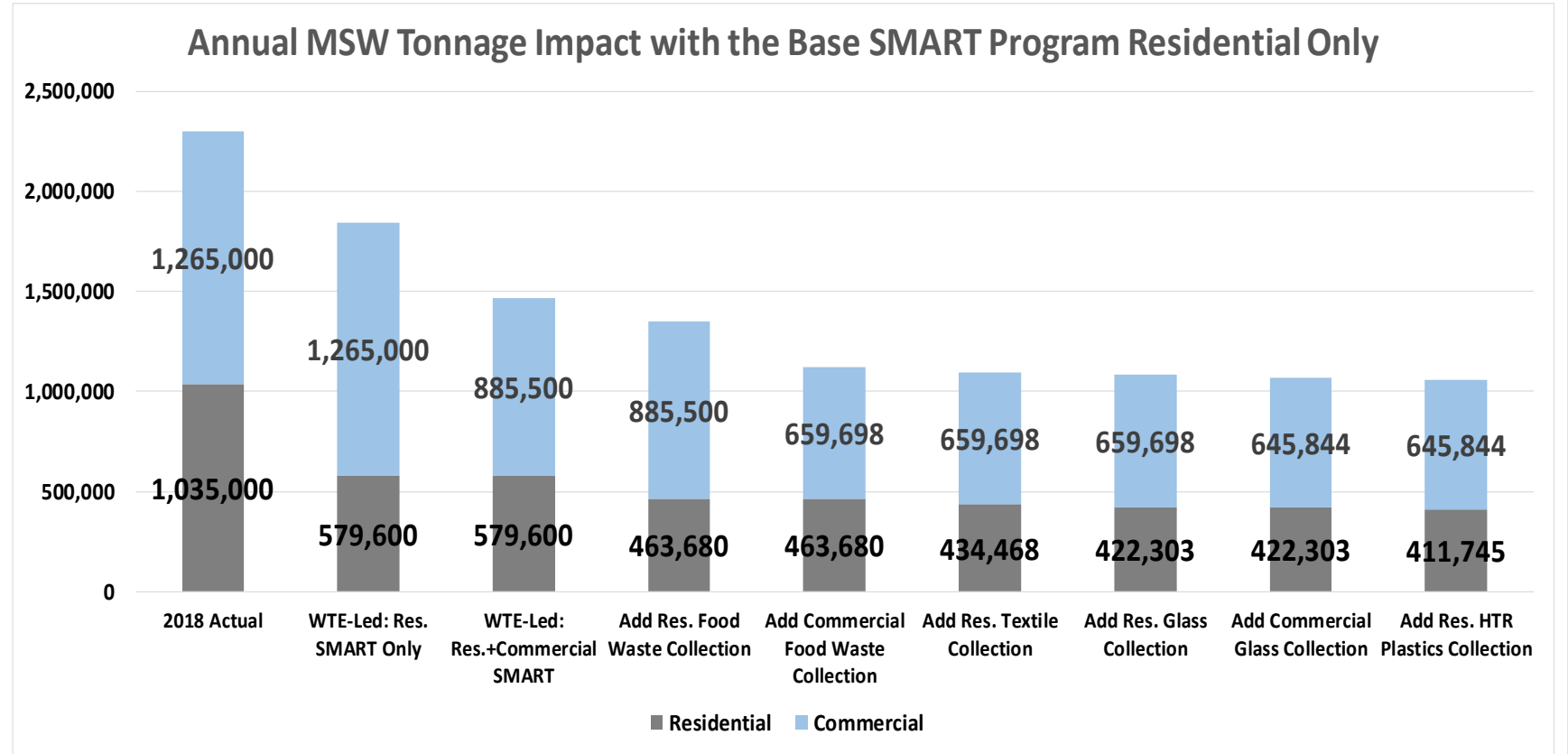
Courtesy of Waste Zero, Inc.

## Impact of Complementary Programs on the Waste Stream (Thousands of Tons Disposed Annually)



# SMART & Complementary Measures

Courtesy Waste Zero, Inc.







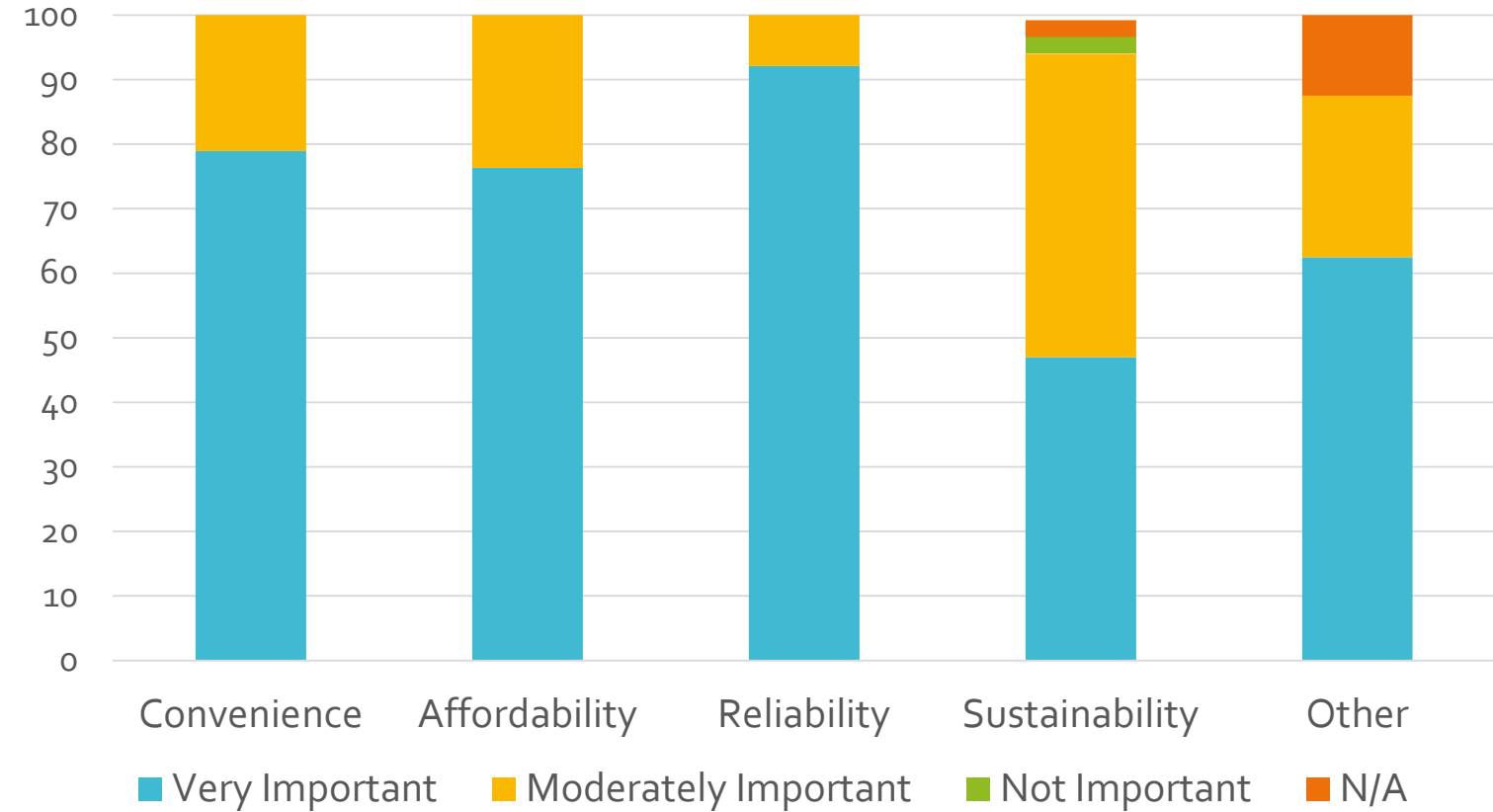
# Economic Development

- A U.S. recycling rate of 75% by 2030 would create 1.1 million new jobs.
- Recycling and reuse create at least 9 times more jobs than landfills and incinerators, and as many as 30 times more jobs
- 86% of the total U.S. waste management jobs are in recycling, reuse and remanufacturing, even with a nation-wide 30% recycling rate (eco-cycle®)

# What Do Your Constituents Care About?

Responses to CCSMM Municipal Survey

*When considering new programs or services to reduce waste, what priorities are the most important to the citizens of your town?*





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# CCSMM Objectives

## Initiative Scope

1. Share experiences and lessons learned from various efforts to adopt effective waste diversion strategies;
2. Engage market participants and local stakeholders to solicit input and proposed waste diversion solutions;
3. Seek creative means to fund solutions that further our collective goal;
4. Identify and evaluate a menu of options that municipalities and/or state can adopt to progress towards our goal;
5. By January 1, 2021, report on progress and announce commitments to action in furtherance of our waste diversion vision

# CCSMM Working Groups

1. Food Scraps/Organics Collection
2. Extended Producer Responsibility (EPR)
3. Increase Recycling
4. Unit-Based Pricing



# Working Group Process



# CCSMM Timeline

- September 8 – Kickoff meeting
- Working Groups begin meeting mid-September through November (roughly every 3 weeks)
- Mid-October – Full group meeting to hear mid-term report outs from Working Groups
- End of November – Working Groups finalize menu of options, recommended solutions
- December – Full group meeting to review results
- End of December – Each CCSMM participant identifies options you will commit to explore, advance, implement going forward...



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# Municipal Experiences

## *Panelists*

- **Jennifer Heaton Jones**, HRRA - *Recycling*
- **Kim O'Rourke**, Middletown - *Textiles*
- **CJ May**, Waterbury – *Outreach & Education*



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## Next Steps

- Follow up email/survey to municipal executives to indicate your choice of working groups, and designate any working group representative
- Schedule of Working Group meetings
- Information related to this initiative will be posted on the DEEP website
- Additional municipalities are welcome to join at any time



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# Public Comments

- Thank you for your input!
- Please use chat or the “raise hand” feature to indicate that you want to make a comment