Benchmarking Materials Management for Progress

Michigan Recycling Coalition
Virtual Conference
May 7, 2020

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Today's Presenters

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EGLE

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Senior Consultant
RRS

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Agenda

- Policy Update
- Materials Management
- M3 Roadmap
- Mega Data
- Questions

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Poll #1

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Policy Update

- Solid Waste Policy [2017]

- GRC/SWSAP Reports [2017]
  - SWRA (Solid Waste & Recycling Advisors)

- Part 115 Amendments [2020??]

www.Michigan.gov/swra

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The Transition

PAST: Waste Management

- **Integrated system**
- **Minimization**
- **Recycling**
- **Sustainable approach**

FUTURE: Materials Management

- **Landfill capacity**
- **Safe & long-term disposal**

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MATERIALS MANAGEMENT PLANNING

OTHER PROGRAMS

AUTHORIZATIONS & REPORTING

DATA COLLECTION

M3 ROADMAP
MICHIGAN MATERIALS MANAGEMENT

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The Roadmap
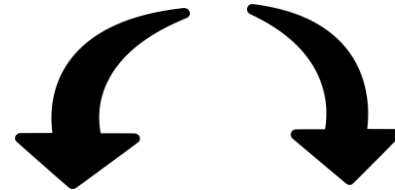
Data Collection

Gap Analysis

Authorizations Programs

Materials Management Planning

Why start with data?

- Data collection is important
  - Builds the foundation
  - Creates regular reporting opportunities
  - Never been done before by the state at this level

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Planning Now

- What can you do now?
  - Bring Planning Committees together
  - Engage LUGs
  - Help with the Data collection
  - Participate in webinars/trainings
  - EGLE Listserv
  - EGLE Staff

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Outcome of Survey of DPAs

- What County(ies) do you represent?
- Do you have an active solid waste or recycling committee within your County/Region?
- Do you currently have the time/capacity to engage in solid waste/materials management planning activities?
  - If so, how would you most likely engage? (select all that apply)
    - Web Meetings
    - Listserv
    - Emails
    - Phone Meetings
    - Trainings
- Are there specific items that you would like more information about? (please describe)

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MEGA DATA

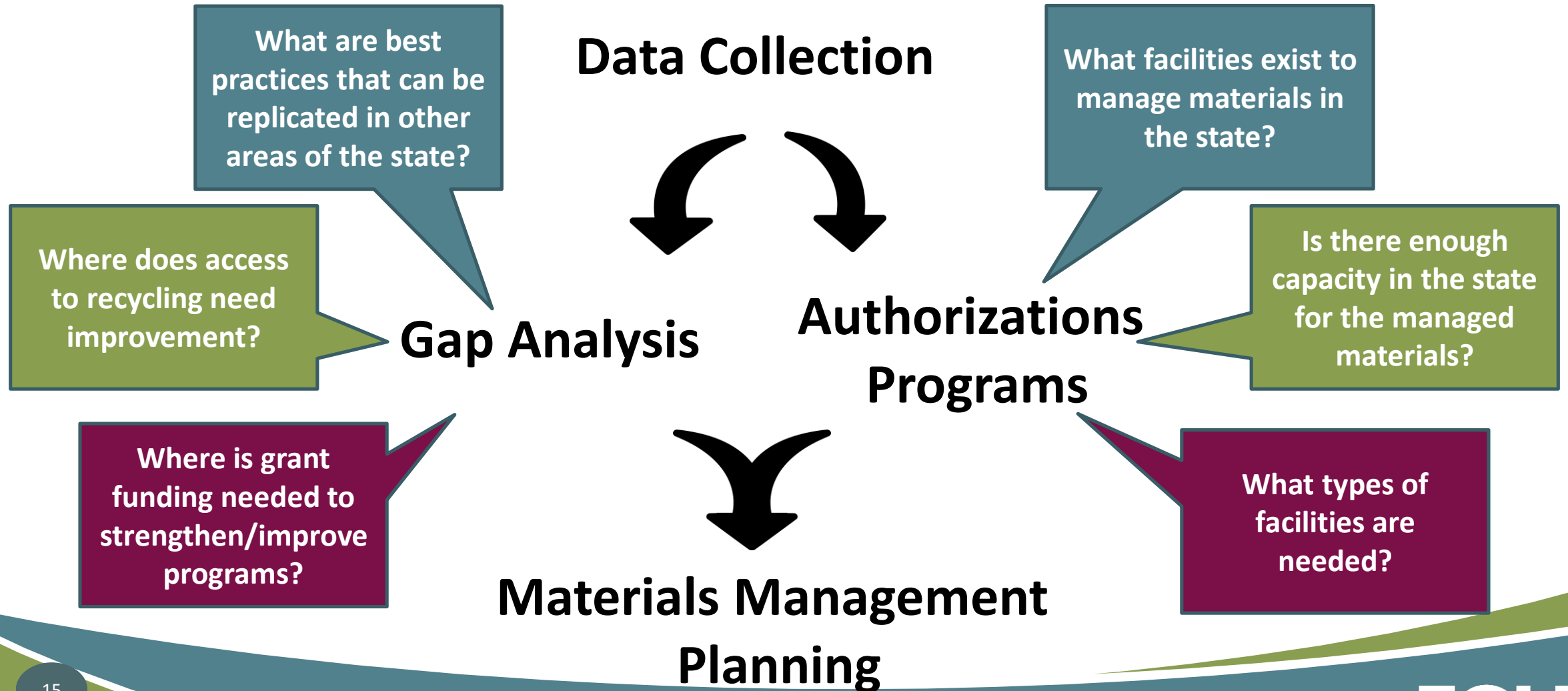## Statewide Data Collection Project

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Data Collection Project

- Calling it **MEGA Data**!
- The task – collect information about materials management activities in all 83 counties across the state
- Target audiences
  – Municipalities
  – Counties
  – Service Providers
  – Facilities

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Mega Data Deliverables

- Summary of materials management collection programs by municipality by county
- Total residential waste generated, recycling, and composted by each municipality for each county
- Waste-shed maps
- Capacity maps for each material category
- Access maps for each county
- Facility Descriptions
- Facility description and geographic coordinates for each facility

- Infrastructure maps by facility type
- Integration of Facility Descriptions into State Systems
- Market-shed maps
- Description of Secondary materials processors/brokers
- Description of End use markets that are managing recycling materials in manufacturing

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Why does data matter?

Data Collection

What are best practices that can be replicated in other areas of the state?

What facilities exist to manage materials in the state?

Where does access to recycling need improvement?

Gap Analysis

Authorizations Programs

Is there enough capacity in the state for the managed materials?

Where is grant funding needed to strengthen/improve programs?

What types of facilities are needed?

Materials Management Planning

15

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How will data be collected?

- Existing information at EGLE
- "Desktop" research
- Surveys
- Direct outreach

When will data be collected?

- "In the field" data collection starts in May and runs through September

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Today's Focus

Municipal and County Data Collection

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Municipal Survey

Benefits of Participation for Municipalities

Participation is easy & free

Powerful analytics
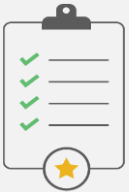
Standardized surveys

Benchmark results

Monitor annual trends

Improve programs

Supports County Planning

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Joining the MMP™ (eMMP in Michigan)

Simple application

- Specifically for municipalities

- Authority to represent their municipality

- Prevents duplicates

Joining the Municipal Measurement Program

Thank you for applying. The application process is designed to protect the integrity of aggregate municipal data by confirming that all applicants meet the eligibility criteria for participation. We are aiming to only allow one representative per municipality.

Name of Municipality *

E.g. City of Chicago

Please include type of municipality in the name. E.g. Town of Abington, Aberdeen Village

Address *

Address Line 1

Address Line 2

City   State / Province

County   Zip / Postal Code

Country

Name *

First   Last

Title/Position *

Phone *   **Email** *

Completing the Surveys

Three core surveys:

1. About Your Municipality
2. Residential Curbside Program Assessment
3. Residential Drop-off Program Assessment

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About Your Municipality

Types of data collected:

- Municipal classification
- Demographic information
- Waste management challenges
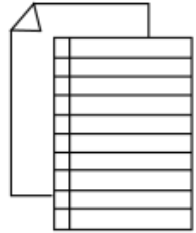- Education and outreach programs
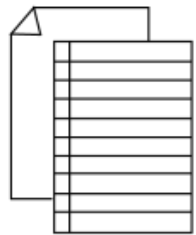
Curbside Program Assessment

Page 1
About **curbside collection** in your municipality

Page 2
Residential **solid waste collection** program

Page 3
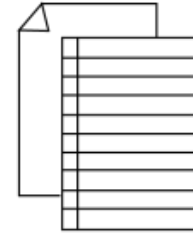Residential **single-family curbside recycling** program
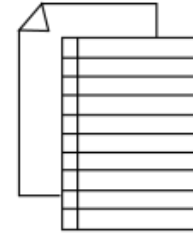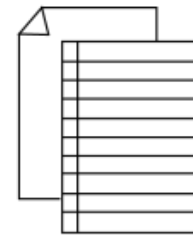
Page 4
Residential **multi-family recycling** program

Page 5
Residential **organics collection** program

Page 6
About the **person completing the survey**

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Drop-off Program Assessment

Types of data collected:

- Number of drop-off sites
- Materials accepted
- Staffed vs. non-staffed locations
- Tonnage information

The Importance of Data Verification

RRS staff will:

- Review all submitted survey responses and check numeric data.

- Contact municipalities when numerical responses need further clarification.

- "Sign off" on survey responses by marking them as **"Verified"**.

- Coordinate data verification with State and Regional agencies using the eMMP for official reporting.

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Analytical Reports

Program Recommendations

Economic Benefits of Recycling

Environmental Benefits

Tonnage Analysis

Program Performance Benchmarking

Annual Trend

Lbs Per Household
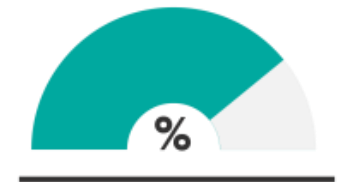
Annual Diversion Rate

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Economic Benefits of Recycling (report)

Convert recycling tons into **estimated job creation**, **attributable wages**, and **tax revenue**.

TONS

Total Recycling (Tons)

21,267.0

Based on voluntarily reported data including curbside single-family recycling, multi-family recycling, curbside organics, drop-off recyclables, drop-off organics, drop-off household hazardous waste, drop-off electronic scrap, drop-off scrap tire, drop-off scrap metal/white goods, drop-off construction & demolition, and public space recycling.

JOBS

Estimated Job Creation Impact

33

1.57 jobs per 1000 tons of material recycled

Estimated Wages Attributable

$1,616,930

$76,030 per 1000 tons of material recycled

TAX

Estimated Tax Revenue Attributable

$299,886

$14,101 per 1000 tons of material recycled

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County Survey

Accessible via eMMP

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[Address Line 1]

[Address Line 2]

[City] [State / Province ▾]

[County] [Zip / Postal Code]

[Country ▾]

Name *

[First] [Last]

Title/Position *

[ ]

Phone * **Email** *

County Survey Questions

- About Your County
  - Services Provided
  - Education & Outreach Activities
  - County Planning, Goals, and Challenges
  - Policy

- Additional Information about Services Provided
  - Permanent Drop-off
  - Special Collection Drop-offs

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Why does data matter for munis and counties?

Material Management Plans

Opportunities for Regional Collaboration

Community Master Planning

Program Improvements

Measurement of Goals

Contracting

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What can you do to help?

- If you are a municipality, please complete the eMMP
- If you are a county, please complete the county survey and encourage your munis to complete the eMMP
- If you are a facility or a hauler, we want to talk to you too! Please look for more information at a later date
- Website: **www.Michigan.gov/egleM3**

What are we doing to help?

- Regional meetings/webinars
- Available for questions or support

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Where do I get more information about Mega Data project?

- Visit **www.Michigan.gov/egleM3**
  - Links to eMMP – available on/around May 15th
  - Resources to learn more about how to enter data online
- Please contact EGLE at EGLE-M3@Michigan.gov

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Poll #2

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Summary

- Transition away from Solid Waste to Materials Management
- Mega Data is the first stop along the M3 Roadmap
- Municipalities and counties will be able to provide information online starting May 15th.
- Working together to build stronger materials management systems in Michigan

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Thank You!

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