

# Regional Waste Movement Study

**Multi-State Freight Working Group - November 9<sup>th</sup>, 2023**

**Presented by:**

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**Tyler Oathes, Ph.D. – Rutgers University – Principal Investigator**

# What we'll cover . . .

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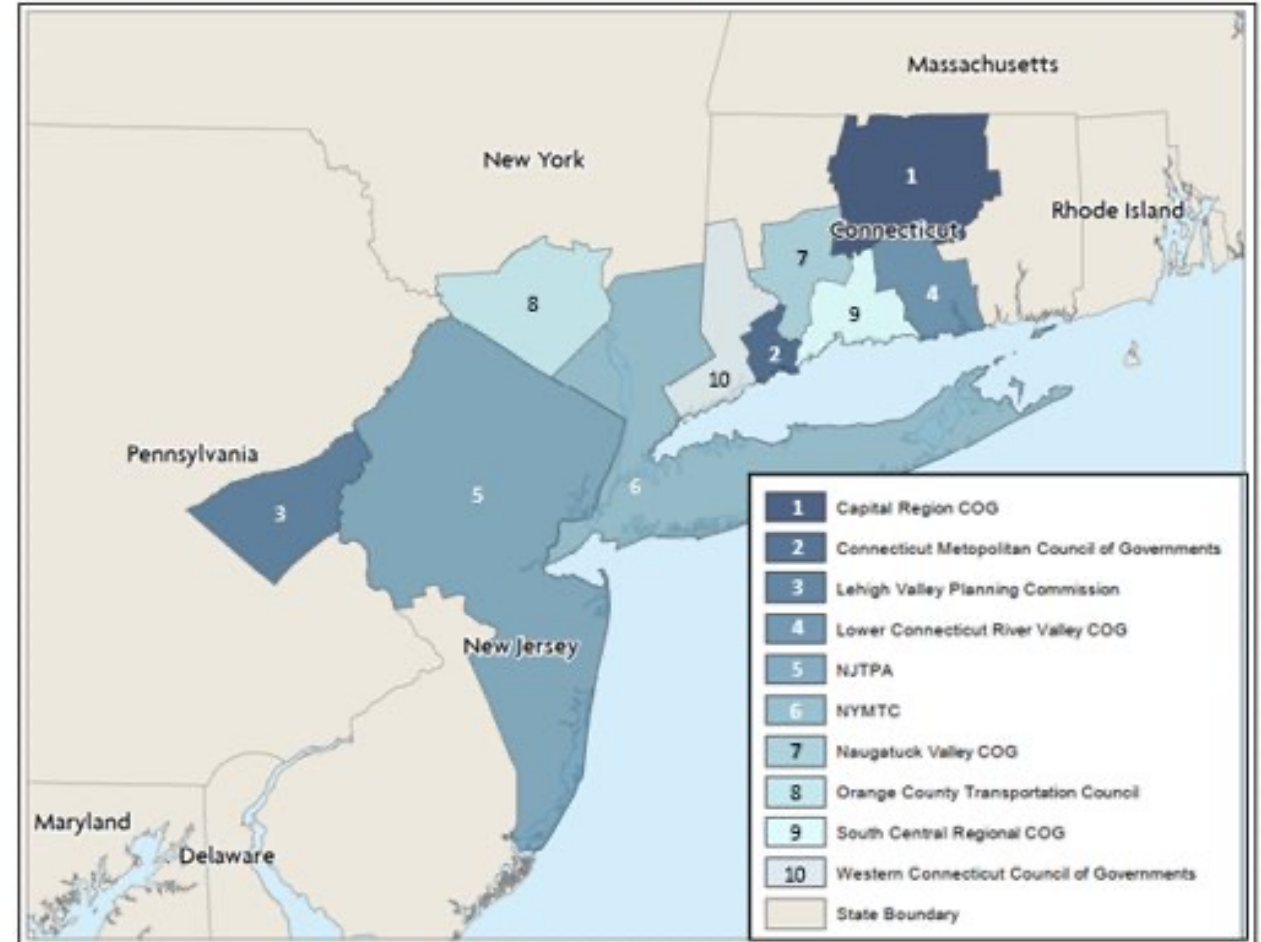
- Study context (3 mins)
- Introduction of study team (3 minutes)
- Overview of study (5 minutes)
- Study challenges (3 mins)
- Key milestones (3 minutes)
- Today's goals (3 mins)
- Questions (10 minutes)

# Study Context

- Recommended in the Freight Element of NYMTC's Regional Transportation Plan
- With changes in waste disposal, the transportation of MSW and C&D debris will be even more challenging
  - Despite reductions in waste production due to higher recycling rates and other efforts
- The optimal use of truck, rail, and water modes to accomplish these moves, and the placement of supporting facilities and infrastructure, are important regionwide transportation issues
- This study will build on work already accomplished and identify multimodal transportation opportunities for waste movement at a regional level

# Study Area

- The study area will be the planning area of the ten constituent MPOs and COGs which make up the Metropolitan Area Planning (MAP) Forum



# Project Leadership

## **NYMTC**

- Adam Levine, Executive Director
- Gerry Bogacz, Project Manager
- Mike Chiume, Deputy Project Manager
- Leslie Fordjour, Freight Coordinator

## **Rutgers Center for Advanced Infrastructure and Transportation (CAIT)**

- Tyler Oathes, Assistant Professor

## **Econsult Solutions, Inc. (ESI)**

- Dick Voith, PhD - Principal
- David Stanek, PhD - Director

## **Ramboll**

- Nestor Soler, PE - Principal
- Jose Sananes, PE - Principal

## **SUNY, Albany**

- Catherine Lawson, Associate Professor

# Study Scope

1. Draft materials to engage / advise study participants and support public outreach
2. Develop outreach program to engage both public and private sector agencies and waste collectors
3. Interview MPO/COG staff, member agencies, non-member agencies in the MAP Forum Region to identify relevant plans, related sections of plans, programs and studies
  - 4a. Review and synthesize waste-related plans, programs, and studies pertinent to study area
  - 4b. Review relevant federal, state and local legislation
5. Document and visualize existing conditions of waste movement systems and districts, disposal and receiving sites, and transload facilities and yards on an interactive map
6. Prepare forecasts for waste facility capacity and usage for the years 2035 and 2050
7. Prepare forecasts for waste stream volumes and movements by mode for the years 2035 and 2050 incorporating impacts of carbon reduction and waste stream reduction policies
8. Create final report highlighting potential opportunities and recommendations

# Proposed Study Schedule

|                               | 2023 |  |      |  |     |  |     |  |     |  | 2024 |  |     |  |     |  |       |  |     |  |      |  |      |  |     |  |      |  |     |  |     |  |
|-------------------------------|------|--|------|--|-----|--|-----|--|-----|--|------|--|-----|--|-----|--|-------|--|-----|--|------|--|------|--|-----|--|------|--|-----|--|-----|--|
|                               | Aug  |  | Sept |  | Oct |  | Nov |  | Dec |  | Jan  |  | Feb |  | Mar |  | April |  | May |  | June |  | July |  | Aug |  | Sept |  | Oct |  | Nov |  |
| TAC and SSC Meetings          |      |  |      |  |     |  |     |  |     |  |      |  |     |  |     |  |       |  |     |  |      |  |      |  |     |  |      |  |     |  |     |  |
| T1: Develop Study Materials   |      |  |      |  |     |  | X   |  |     |  |      |  |     |  |     |  |       |  |     |  |      |  |      |  |     |  |      |  |     |  |     |  |
| T2: Outreach Program          |      |  |      |  |     |  | X   |  |     |  |      |  |     |  |     |  |       |  |     |  |      |  |      |  |     |  |      |  |     |  |     |  |
| T3: Interviews                |      |  |      |  |     |  | X   |  |     |  |      |  |     |  |     |  |       |  |     |  |      |  |      |  |     |  |      |  |     |  |     |  |
| T4: Lit Review                |      |  |      |  |     |  | X   |  |     |  |      |  |     |  |     |  |       |  |     |  |      |  |      |  |     |  |      |  |     |  |     |  |
| T5: Existing Conditions       |      |  |      |  |     |  | X   |  |     |  |      |  |     |  |     |  |       |  |     |  |      |  |      |  |     |  |      |  |     |  |     |  |
| T6: Life Cycle Analysis       |      |  |      |  |     |  | X   |  |     |  |      |  |     |  |     |  |       |  |     |  |      |  |      |  |     |  |      |  |     |  |     |  |
| T7: Waste Generation Forecast |      |  |      |  |     |  | X   |  |     |  |      |  |     |  |     |  |       |  |     |  |      |  |      |  |     |  |      |  |     |  |     |  |
| T8: Future Opportunities      |      |  |      |  |     |  | X   |  |     |  |      |  |     |  |     |  |       |  |     |  |      |  |      |  |     |  |      |  |     |  |     |  |

# Potential Challenges

# Potential Challenges Facing the Study

## External

- Core assumption: data exists in plans and programs to complete the project successfully
  - Incomplete coverage
  - Insufficient data
  - Unhelpful data
- Geographic / jurisdictional granularity for study
- Political and jurisdictional challenges

# Strategies for Meeting Challenges

- Threshold of feasibility
  - Minimum data required to complete final output at desired geography
  - Gold standard for highest outputs
- Two phase interview process allows us to identify gaps in initial phase and target in second phase
- Multiple stages of public and stakeholder outreach

# Key Milestones

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- Completion of study materials
- Completion of interviews
- Completion of regulatory and legislative review
- Publication of interactive map
- Completion of forecasts
- Publication of report

# Today's Goals

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- Introduce the study to stakeholders and the interested public
- Begin to gather input on perspectives, issues, policies and priorities
- Identify different perspectives and interested stakeholders

# Questions (use the chat pod)