

REGIONAL EV STRATEGY

Climate Bill Updates, Freight Decarbonization, and 2024-2025 EV Working Group Planning

September 26, 2024



REGIONAL EV STRATEGY



Today's Agenda

| | | |
|----------------|---|--|
| 1:00-1:05 p.m. | Welcome | Alison Felix, MAPC |
| 1:05-1:20 p.m. | Climate Bill Updates | Norman Abbott and Georgia Barlow, MAPC |
| 1:20-1:25 p.m. | Q&A | Alison Felix, MAPC |
| 1:25-1:45 p.m. | North Suffolk Freight Decarbonization Strategies | Shravanthi Gopalan Narayanan, Boston Region Metropolitan Planning Organization - Central Transportation Planning Staff |
| 1:45-1:55 p.m. | Q&A | Emma Zehner, MAPC |
| 1:55-2:15 p.m. | Discussion: 2024-2025 EV Working Group Topics | Emma Zehner, MAPC |
| 2:15-2:20 p.m. | Municipal Updates | Emma Zehner, MAPC |
| 2:20-2:30 p.m. | Updates and Resources | Emma Zehner, MAPC |



Climate Bill Updates



Q&A



North Suffolk Freight Decarbonization





Sustainability and Decarbonization in the Freight and Logistics Sector in the North Suffolk Area

Erin Maguire & Shravanthi Gopalan Narayanan

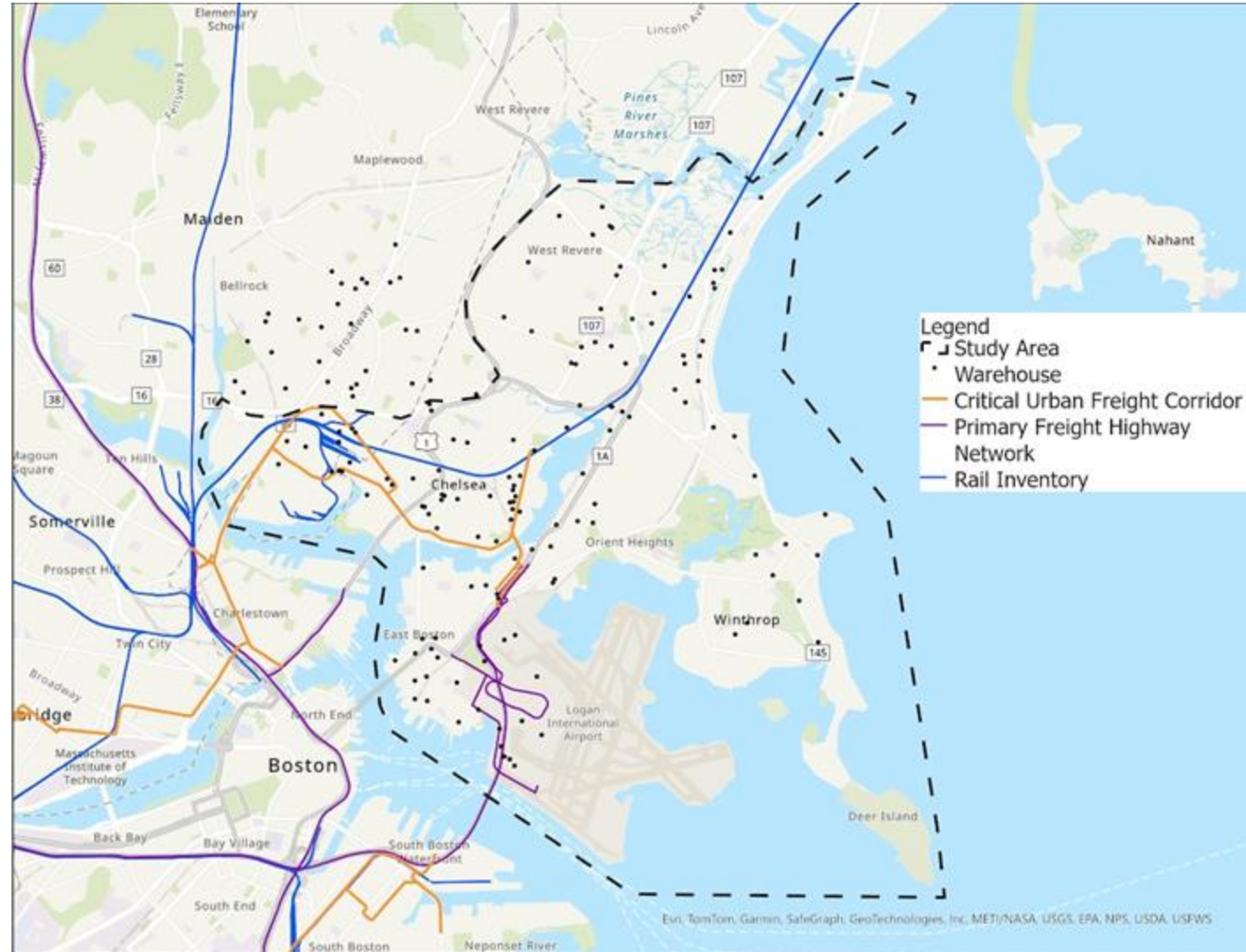
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Background and Study Area

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2. Freight and Industry in the Study Area
3. Stakeholder Engagement
4. Current Challenges
5. Decarbonization Strategies
6. Next Steps
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Freight and Industry in the Study Area

The study area has:

- Critical Urban Freight Corridors (CUFC) identified by FHWA
- Designated Port Areas (DPAs)

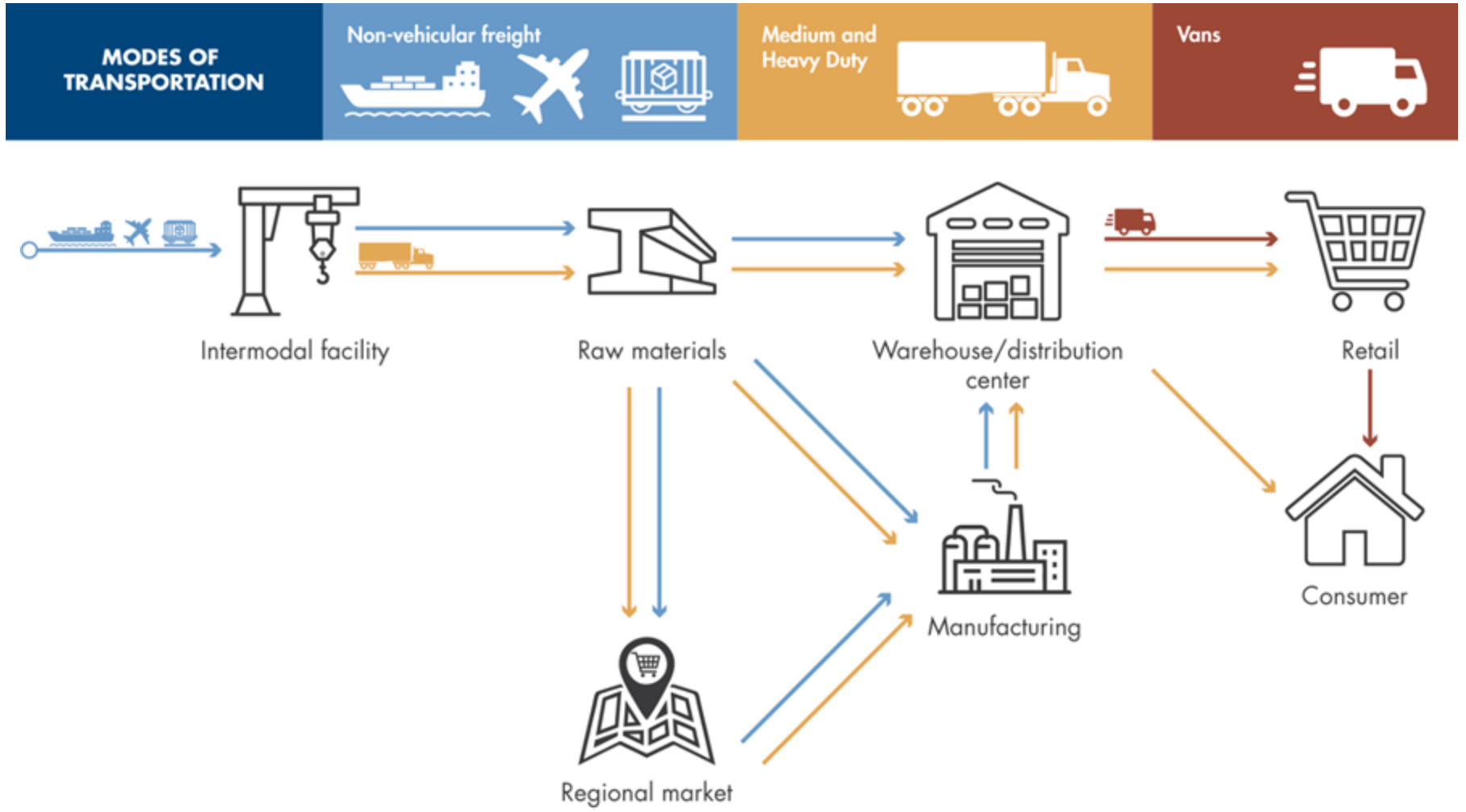




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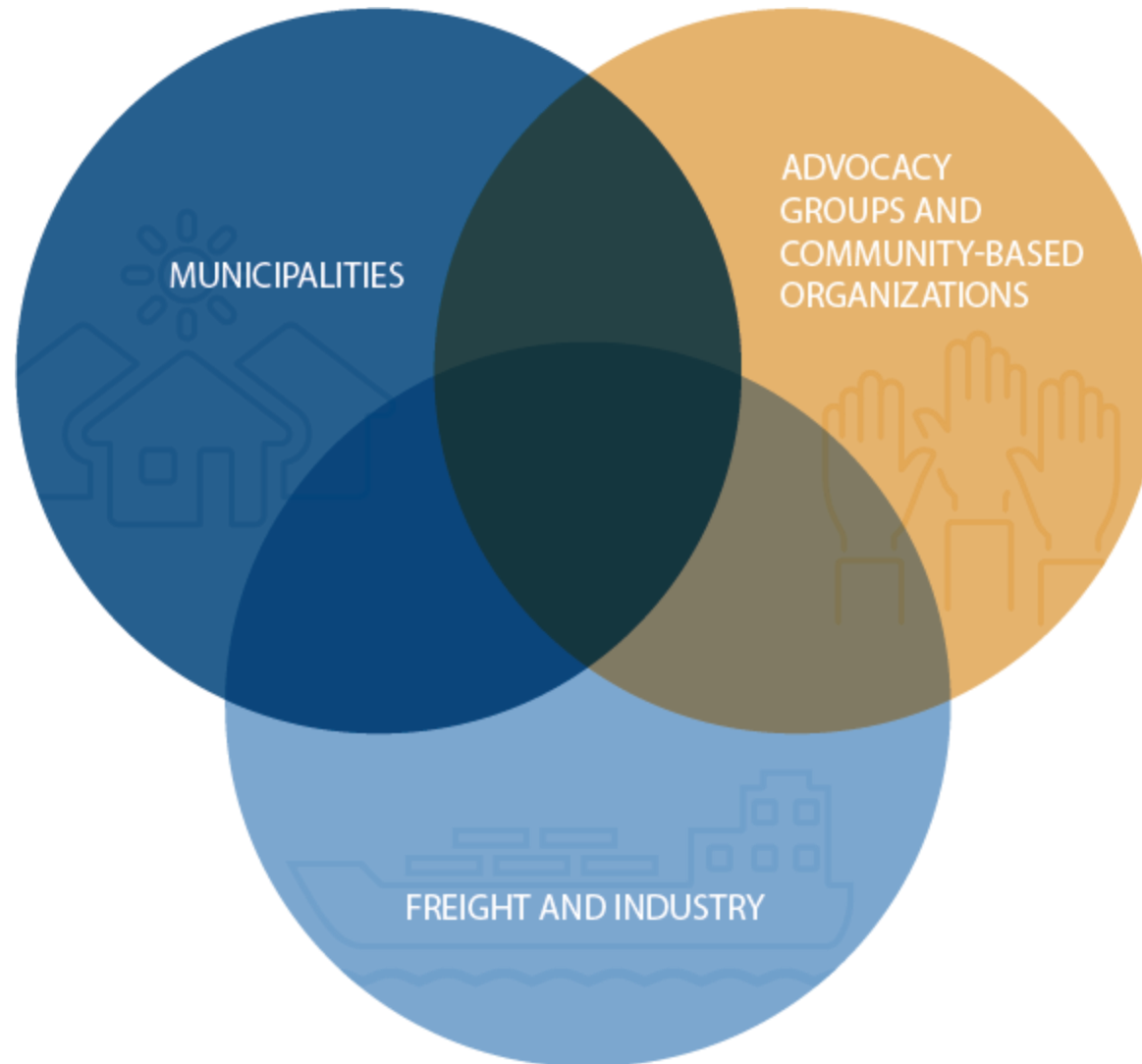




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Stakeholder Engagement

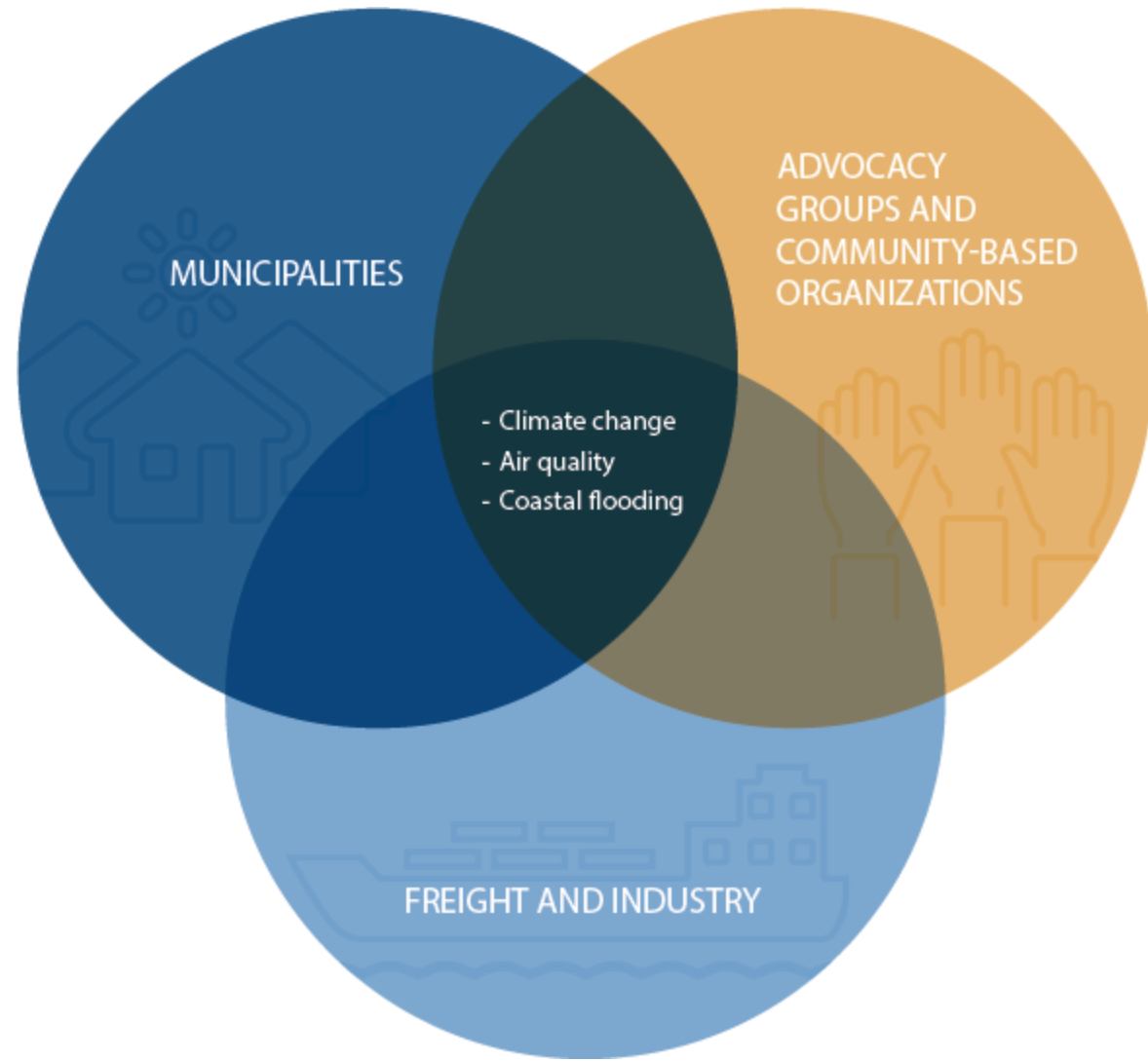




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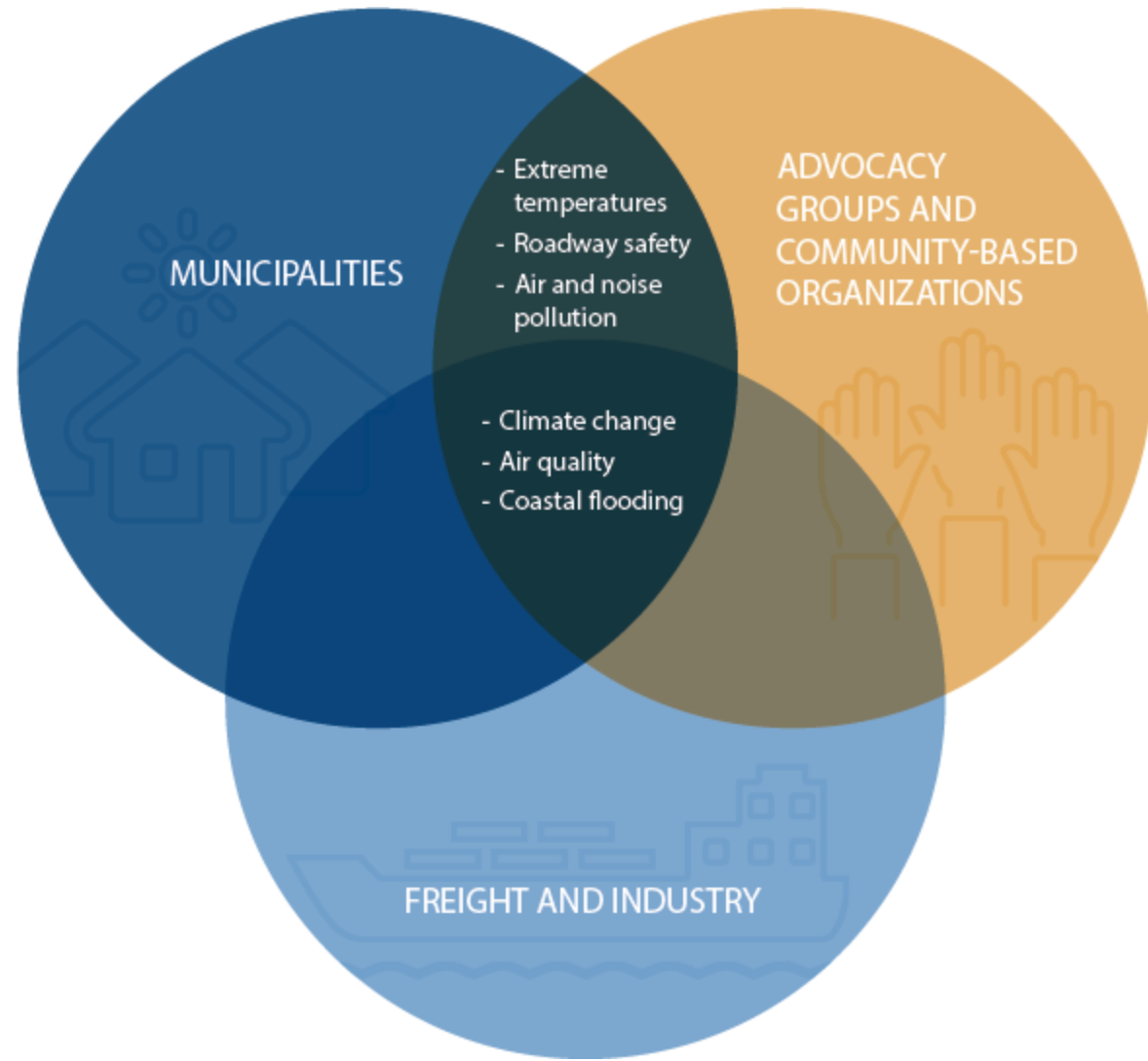




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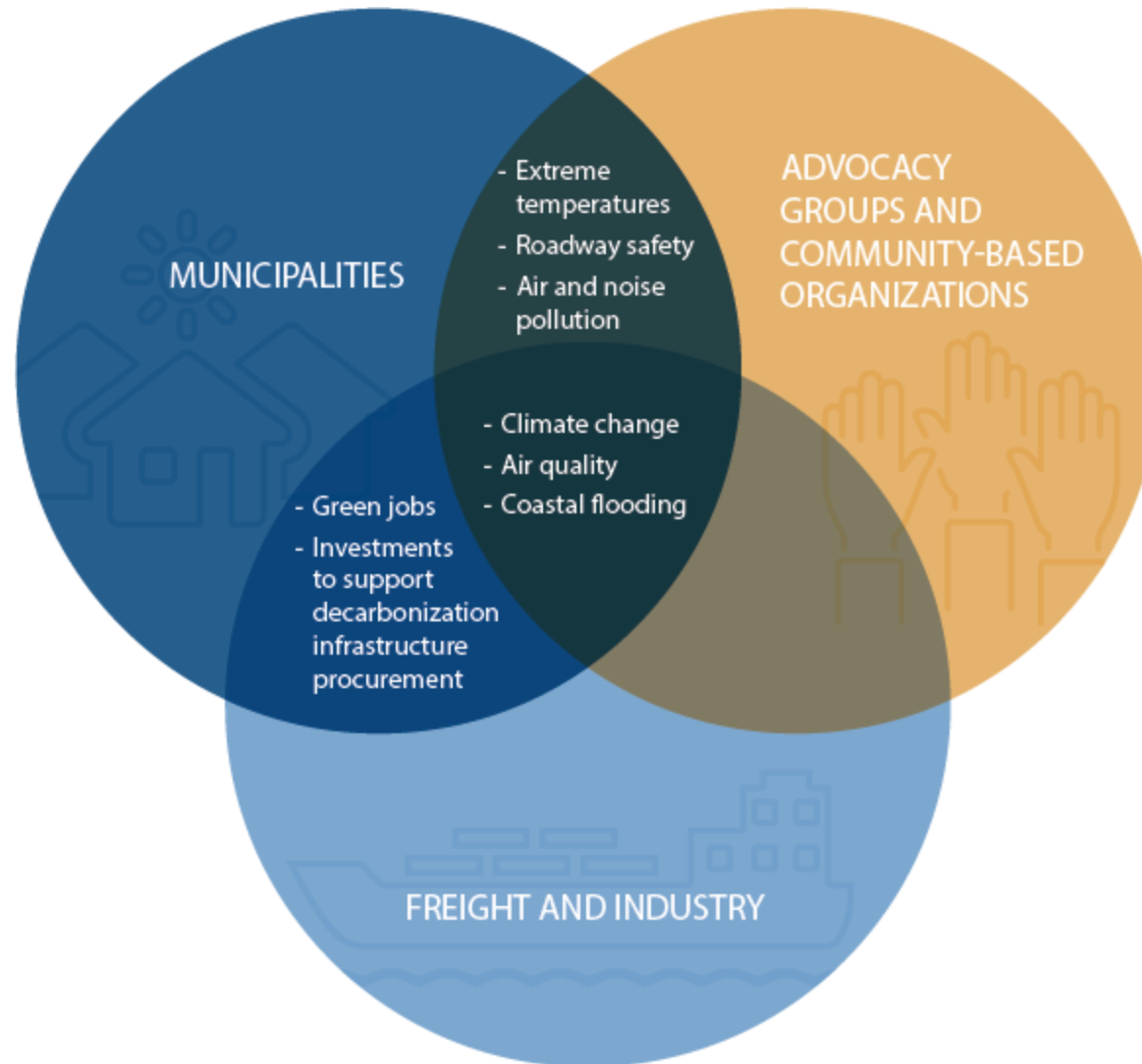




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Stakeholder Engagement

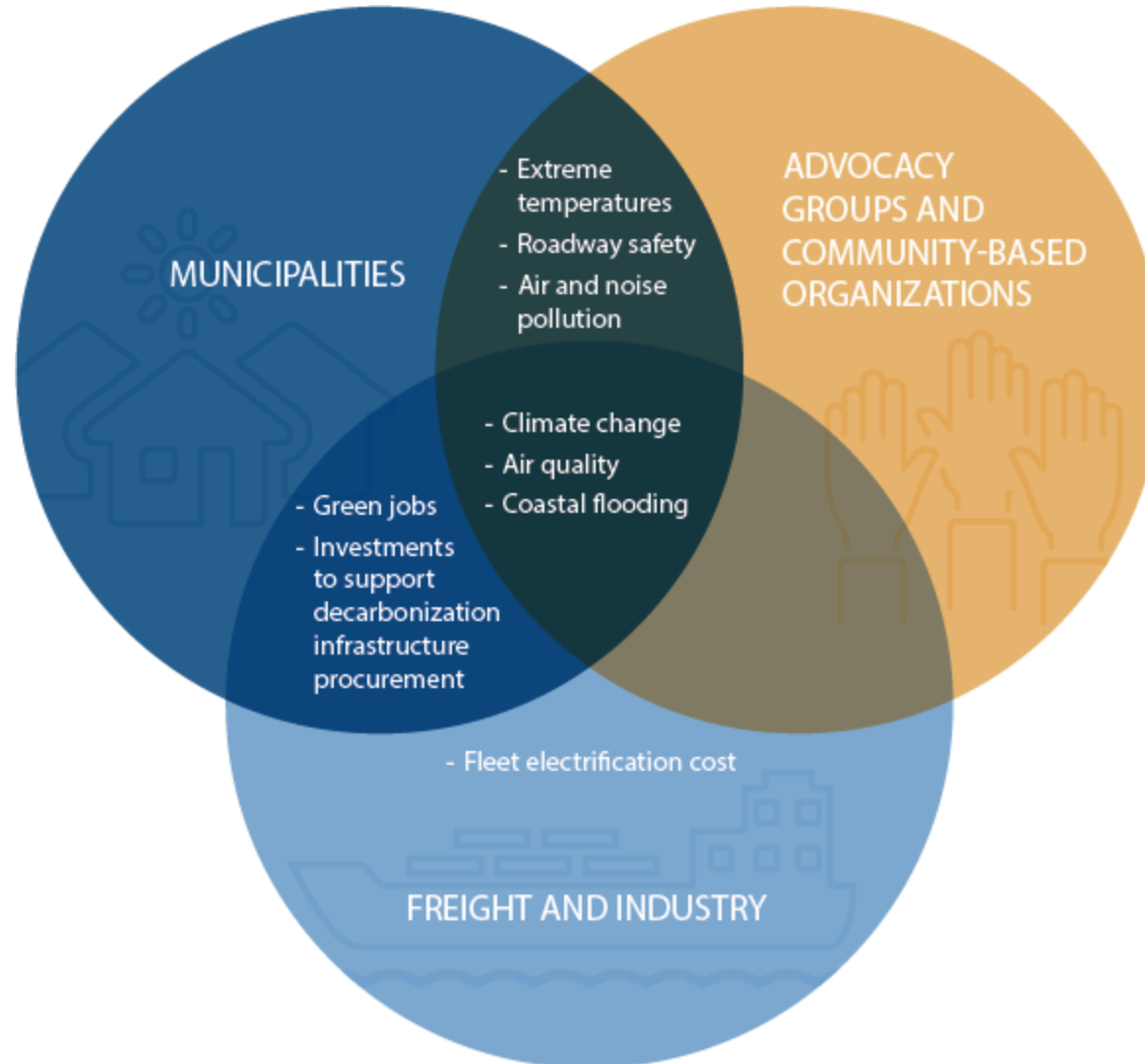




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Stakeholder Engagement





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Current Challenges



Roadway conditions



Noise and air pollution



Coastal flooding



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Current Challenges (1)

Roadway Condition, Congestion, and Safety



**Road deterioration
& wear and tear**



**Limited transit options
leading to bottlenecks**



**Pedestrian and bicycle
crash clusters**

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Current Challenges (2)

Air Quality, Noise Pollution, and Extreme Temperatures



Poor air quality



Noise pollution impacts on residents



Urban heat island effect



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Current Challenges (3)

Coastal Flooding



Climate change



Impact on community resources



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Decarbonization Strategies



**Electrification and
Alternative Fuels**



**Air Quality
Reporting**



Mode Shift



Coordination



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Decarbonization Strategies (1)

Electrification and Alternative Fuels



Goal for net-zero emissions by 2050



Electrification



Alternative fuel potential

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Decarbonization Strategies (2)

Air Quality Reporting



Identification of point sources of particulate matter



Understand origins and destinations of truck traffic

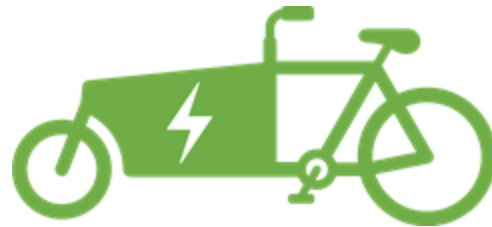


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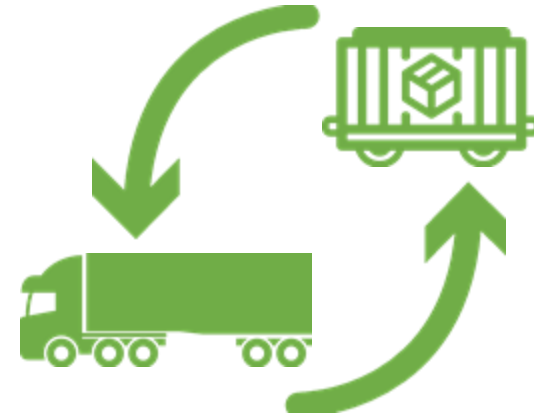
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Decarbonization Strategies (3)

Mode Shift



**Cargo e-bikes
for local freight deliveries**



**Facilitate intermodal
freight connections**



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Decarbonization Strategies (4)

Coordination



**Coordination and collaboration
across levels**



**Impact of land use
and local regulations**



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Next Steps (1)

Follow-up Studies



Regional freight patterns and emissions



Potential locations for charging infrastructure



Feasibility of cargo e-bike deliveries



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Next Steps (2)

Regional Efforts



Building a coalition of stakeholders



Multimodal freight system



Public engagement and education

Discussion

Erin Maguire

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Shravanthi Gopalan Narayanan

sgnarayanan@ctps.org

Q&A



Discussion: 2024-2025 EV Working Group Topics



Municipal Updates



Municipal Updates

Somerville:

- joined Watertown, Everett, and Brookline in supporting a grant application by the Mashpee Wampanoag Tribe for Round 2 of the Charging & Fueling Infrastructure grant
- If awarded, each community should be in a position to begin a more robust rollout of L3 chargers in strategic locations



Source: U.S. Department of Transportation Federal Highway Administration.



Municipal Updates

Woburn:

- trying to upgrade municipal charging stations to level 3, while maintaining the existing level 2 stations
- exploring the possibility of partnering with a vendor to manage the operation and maintenance of existing and fire charging stations and to add charging fees.



Charging station in Woburn. Source: PlugShare.



Updates and Resources



2024 EPA Clean School Bus Rebate Program

- This funding round will provide at least \$965M in rebates awarded to applicants nationwide.
- Applicants can request up to \$325,000 per bus for up to 50 buses per application
- Eligible costs: bus and infrastructure costs, eligible training costs for bus drivers, electricians, and others working with the new buses or infrastructure.
- Eligible Applicants: Public school districts, Tribal applicants, and relevant third-party nonprofit school transportation associations. Preference will be given to communities meeting at least one of the following prioritization criteria: high-need school districts and low-income areas, rural school districts, Bureau of Indian Education-funded school districts, school districts that receive basic support payments for children who reside on Indian land
- **Application Deadline: January 9, 2025, at 4:00pm (ET)**
- Application Details: <https://www.epa.gov/cleanschoolbus/clean-school-bus-program-rebates#overview>



**EPA CLEAN
SCHOOL BUS**

Source: <https://www.epa.gov/cleanschoolbus>

Upcoming Events



September 26-October 6

<https://driveelectricweek.org/>

Massachusetts Events

- September 29 – Get Charged Up Regional EV Expo - Westborough
- October 3 - Haunted Happenings Parade – EV Showcase - Salem
- October 5 – Jacob’s Ladder Meet & Drive – Lee
- October 20 – Hingham Municipal Light Plant - Hingham



National Electric Vehicle Infrastructure (NEVI) Deployment Plan - Open Houses – 6pm-8pm

<https://www.mass.gov/massdot-nevi-plan/>

| Date | Location | Address |
|------------|---|----------------------------------|
| October 3 | Pollard Memorial Library | 401 Merrimack Street, Lowell |
| October 7 | Torigian Senior Center | 75 Central Street, Peabody |
| October 22 | Wellesley Public Library – Main Branch | 530 Washington Street, Wellesley |
| October 24 | Berkshire Athenaeum, Pittsfield Library | 1 Wendell Avenue, Pittsfield |
| October 28 | Greenfield Public Library | 412 Main Street, Greenfield |
| November 6 | Worcester Public Library | Worcester Public Library |

Upcoming Events



AltWheels Fleet Day

Monday, October 7 – 8am-5pm

Four Points by Sheraton, Norwood

Information and Registration: <https://www.altwheels.org/>



Recharge Massachusetts Symposium

Wednesday, October 9 – 9am-4pm

Boston University, Ladd Room, Boston

Theme: Envisioning an Equitable EV Transition for Massachusetts

Information and Registration:

<https://recharge-america.org/events/recharge-mass-symposium-2024/>



Charging Fueling and Infrastructure Grant Round 2 Awardees

Department of Conservation and Recreation

Public Access Electric Access Public Charging Program

Awarded Amount: \$1.2 Million

Plan and install up to 40 publicly accessible EV charging locations, primarily located in public parks.

City of Boston

Recharge Boston: Making EV Charging Publicly Available in Every Neighborhood

Awarded Amount: \$15 Million

Install a minimum of 300 EV charging ports (Level 2 and DC Fast Chargers) across the City of Boston, with focus in environmental justice communities. EV charging will be located to provide access in every neighborhood and placed within 10-minute walking distances. The project includes several city programs that will steer EV charging jobs to those in disadvantaged communities and to disadvantaged business enterprises.



Notices of Proposed Rulemaking

Proposed Rule for EV Charging Stations

The U.S. Access Board issued a [Notice of Proposed Rulemaking](#) to amend the accessibility guidelines of EV charging stations at buildings and facilities.

Proposed rule provides specifications for the accessibility of EV charging stations, to include the EV charger (including physical and communication access), EV charging space, access aisles, and accessible routes.

Comment period deadline: November 4, 2024

Alternative Fuel Vehicle Refueling Property Credit

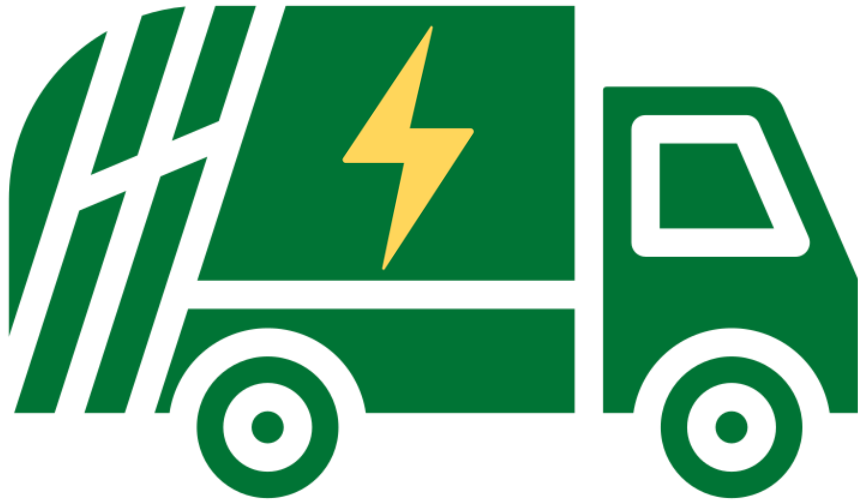
U.S. Department of the Treasury and Internal Revenue Service (IRS) issued a [Notice of Proposed Rulemaking](#) and additional guidance on the Alternative Fuel Vehicle Refueling Property Credit (section 30C). Guidance will provide clarity on alternative fuel vehicle refueling property investments for battery-powered electric vehicle charging and other clean fuel infrastructure. Proposed rules include:

- Defining credit-eligible 30C property, a single item of property, and an energy storage property
- Updating the Prevailing Wage and Apprenticeship (PWA) requirements

Comment period deadline: November 18, 2024



City of Cambridge has received their first electric rubbish packer!



More to come at the November EV Working Group meeting...

Source: Noun Project



Wrap Up & Next Steps

Next Meeting November - date and agenda TBD

If you aren't already on our invite list, please email ezehner@mapc.org to be added for future meetings.

