



E-Cargo Bikes: Strategies for Municipal Delivery Transition

Resource developed by MAPC and the City of Boston,
funded by the Massachusetts Clean Energy Center (MassCEC)

Recording

This meeting is being recorded for public record. The final recording will be posted on MAPC's website.

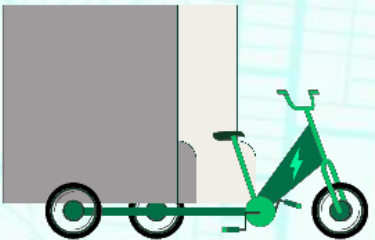
If you do not wish to be recorded, you can turn off your camera or leave the webinar.

All comments shared verbally and in the chat will be recorded.



Agenda

- Background
- Boston Delivers Program
- Overview of the E-Cargo Bike Delivery Resource
- Panel Discussion
- Audience Questions



Introduction

Massachusetts Clean Energy Center provided funding for this work



City of Boston piloted the e-cargo bike delivery program, Boston Delivers (and contracted with Net Zero Logistics for operations)



MAPC was subcontracted to develop a toolkit for how to expand e-cargo bikes for deliveries in the region

MassCEC & Act4All

- MassCEC funds climate solution innovation to meet Massachusetts' emission reduction goals while growing the state's clean energy economy.
- ACT4All
 - **Mission:** Pilot equity-focused transportation projects that increase clean transportation access and decrease existing transportation burdens
 - **Result:** \$5 million for 10 projects addressing e-bike incentives, EV consumer education, ride-for-hire electrification, and e-cargo bike delivery



The Case for E-Cargo Bikes

Benefits of e-cargo bikes for urban deliveries

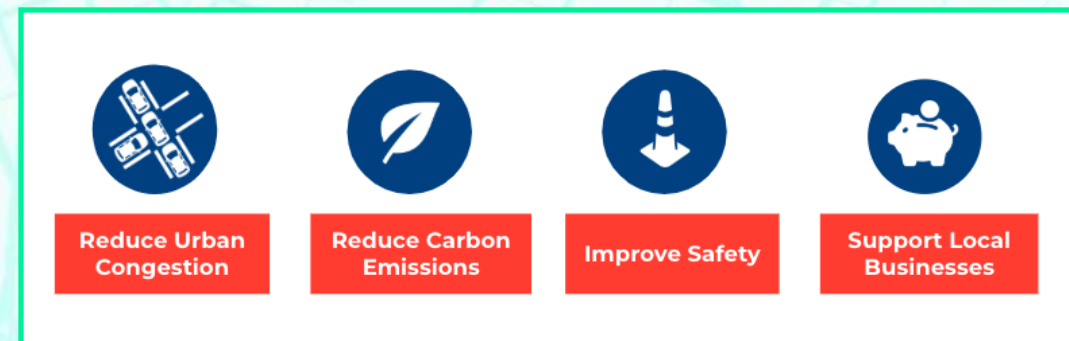
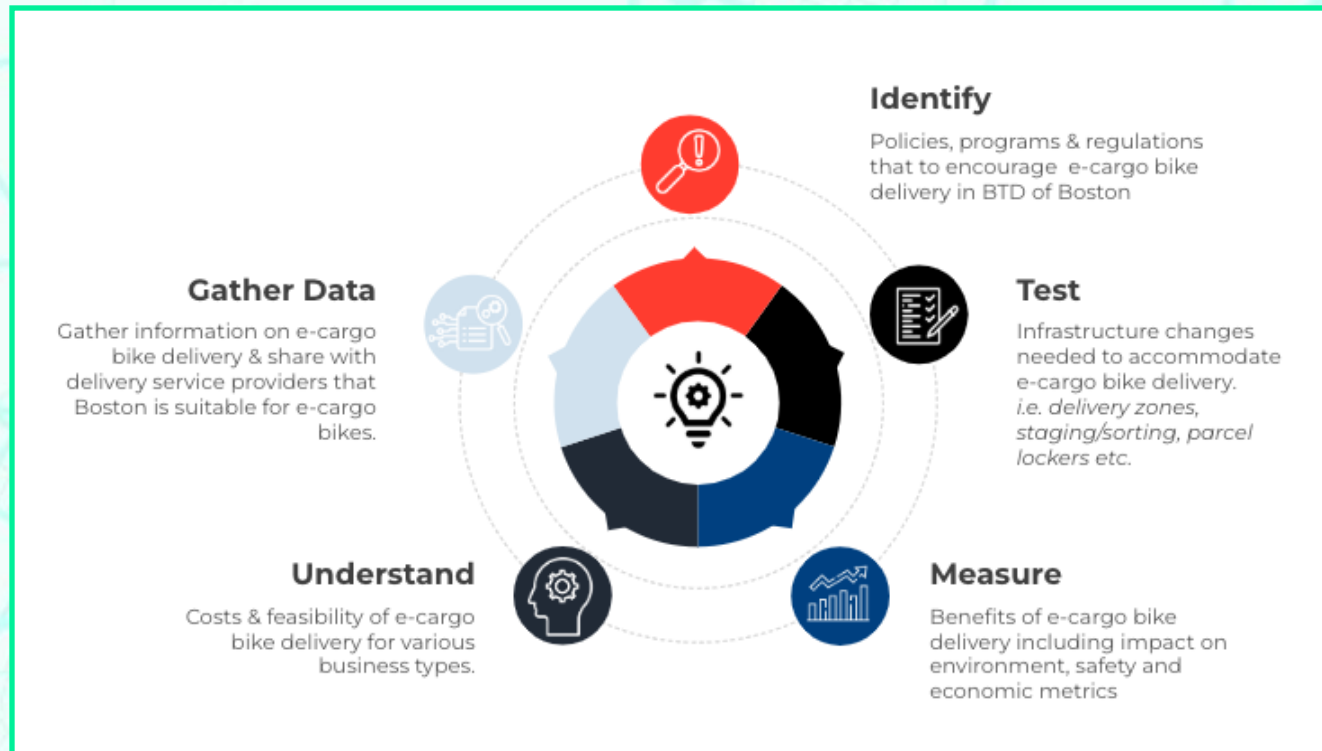
- Congestion and parking
- Air Quality
- Street safety
- Delivery workers

E-cargo bikes come in many shapes and sizes. They vary in number of wheels, location and capacity of the cargo storage, width, height, power, controls, and more.



E-Cargo Bikes in Greater Boston

Boston Delivers was a pilot program that promoted a delivery service using e-cargo bikes for businesses in Boston.



E-Cargo Bikes in Greater Boston

- Grant used as seed funding to attract service operator to Boston Market and cushion “start-up” costs
- Boston Delivers partnered with **Net Zero Logistics**
 - Net Zero Logistics operates one of the largest e-cargo bike fleets in New York City
 - Net Zero Logistics completed 20,000 deliveries for a variety of businesses and non-profits, largely in Allston-Brighton
- Key learnings:
 - Pilots Require Maximum Flexibility
 - Pilot Sequencing & Importance of an "Anchor Client"
 - Staging Requirements
 - Impact of Density on Use Cases for E-Bikes
 - Economics and Costs
 - Policy Alignment



Opportunities to Support E-Cargo Bikes Locally: Strategies that Prioritize Local Sustainable Deliveries

- Municipal Office or staff dedicated to sustainable deliveries
- Sustainable goals integration
- Defining e-cargo bikes locally
- E-cargo bike delivery cost subsidy for businesses
- Data collection and reporting

Strategy Highlight:

E-cargo bike delivery cost subsidy for businesses

Create subsidy programs that reduce the costs for businesses to conduct deliveries, or partner with a company to conduct deliveries via electric cargo bikes.

Boston, MA

Boston Delivers was launched in September 2023 and provided funding to subsidize deliveries for local businesses, creating an incentive for those businesses to use a more environmentally-friendly delivery option for their customers.

Opportunities to Support E-Cargo Bikes Locally: Strategies that Increase Access to Vehicles

- Equipment subsidies for local businesses
- Equipment subsidies or purchases for local delivery employees

Strategy Highlight:

Equipment subsidies for local businesses

Create incentive programs for local businesses to purchase electric cargo bikes for deliveries.

Denver, CO

The Denver Mobility Incentive Program allows organizations within the City and County of Denver to purchase e-cargo bikes for deliveries. The program gives priority to projects that will replace an existing gas-fueled vehicle with an e-cargo bike and requires the organization to have secure bike storage and to provide three years of reporting.

Opportunities to Support E-Cargo Bikes Locally: Strategies that Increase Operational Efficiency and Access to Public Space

- Low- or No- Emissions Zones
- Delivery Time Regulations
- Authorized space for microhub delivery centers
- Operational guidelines for microhubs
- Dedicated parking spaces and curb signage
- Wide on-street bike infrastructure along key routes
- Additional policies to consider

Strategy Highlight:

Low- or no-emissions zones

Designated areas with significant delivery or loading zones as no- or low-emissions zones to encourage and/or mandate the use of zero-emissions vehicles, such as e-cargo bikes, for deliveries.

Portland, OR

In 2023, Portland received a \$2 million federal grant to pilot the country's first regulated zero-emission delivery zone in downtown Portland and use data and technology to better understand the curb. During the six-month pilot, the project area will prioritize access for zero-emission vehicles only.

Opportunities to Support E-Cargo Bikes Locally: Strategies that Support Public Outreach and Education

- Demonstration Days
- Trainings Programs
- Partnership Programs
- Additional Policies to Consider

Strategy Highlight:

Demonstration days

Plan demonstration days for groups of local businesses or business associations to learn about electric cargo bikes, how they could be used, and hear from other local businesses about their operations.

London, GB

The City of London, in partnership with the Zero Emissions Network (ZEN), offers free one-week cargo bike trials, providing local businesses with the opportunity to test cargo bikes for their delivery and logistics needs.

Opportunities to Support E-Cargo Bikes Locally:

Funding Sources for E-Cargo Bikes and Infrastructure

- Municipal funds
- State funds and programs
- Federal funds
- Private funding

Strategy Highlight:

State funds and programs

States can develop grant and incentive programs for municipalities, businesses, and individuals to increase access to e-cargo bike usage or pilot programs to test e-cargo bike deliveries.

Massachusetts

The MassCEC's ACT4All Program piloted equity-focused transportation programs that increase clean transportation access and decrease existing transportation burdens for underserved and overburdened communities across the Commonwealth. The Act4All program funded Boston Delivers.

Introducing our Panel



Julia Wallerice
MAPC
Moderator



Marah Holland
MAPC
Panelist



Harper Mills
City of Boston
Panelist



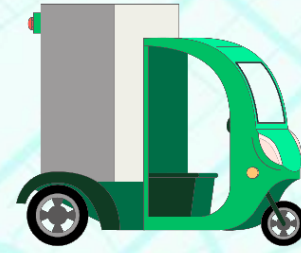
Chris Morem
Net Zero Logistics
Panelist

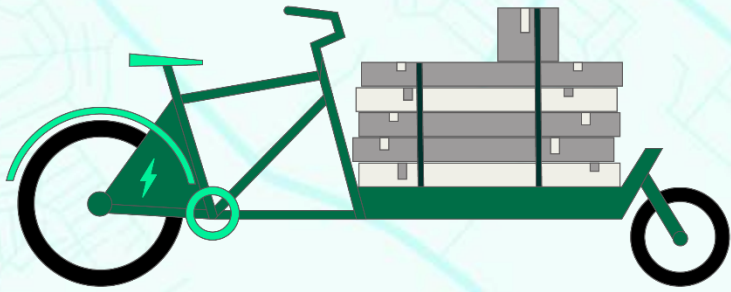


Elijah Sinclair
MassCEC
Panelist

Audience Questions

- What questions do you have for us?
- Is your municipality thinking about e-cargo bike deliveries?
- How could you help support e-cargo bike deliveries in your area?
- What strategies resonate with you?





Contact Us

Marah Holland, Senior Transportation Planner
mholland@mapc.org

Check out the Resource Here:
mapc.org/resource-library/e-cargo-bikes

