



National Electric Vehicle Infrastructure Deployment Plan



Agenda

- **Background**
- **NEVI Approach**
- **Current Status**
- **Looking Ahead**
- **Outreach and Communications**
- **Q&A**



Presentation Participants

MassDOT

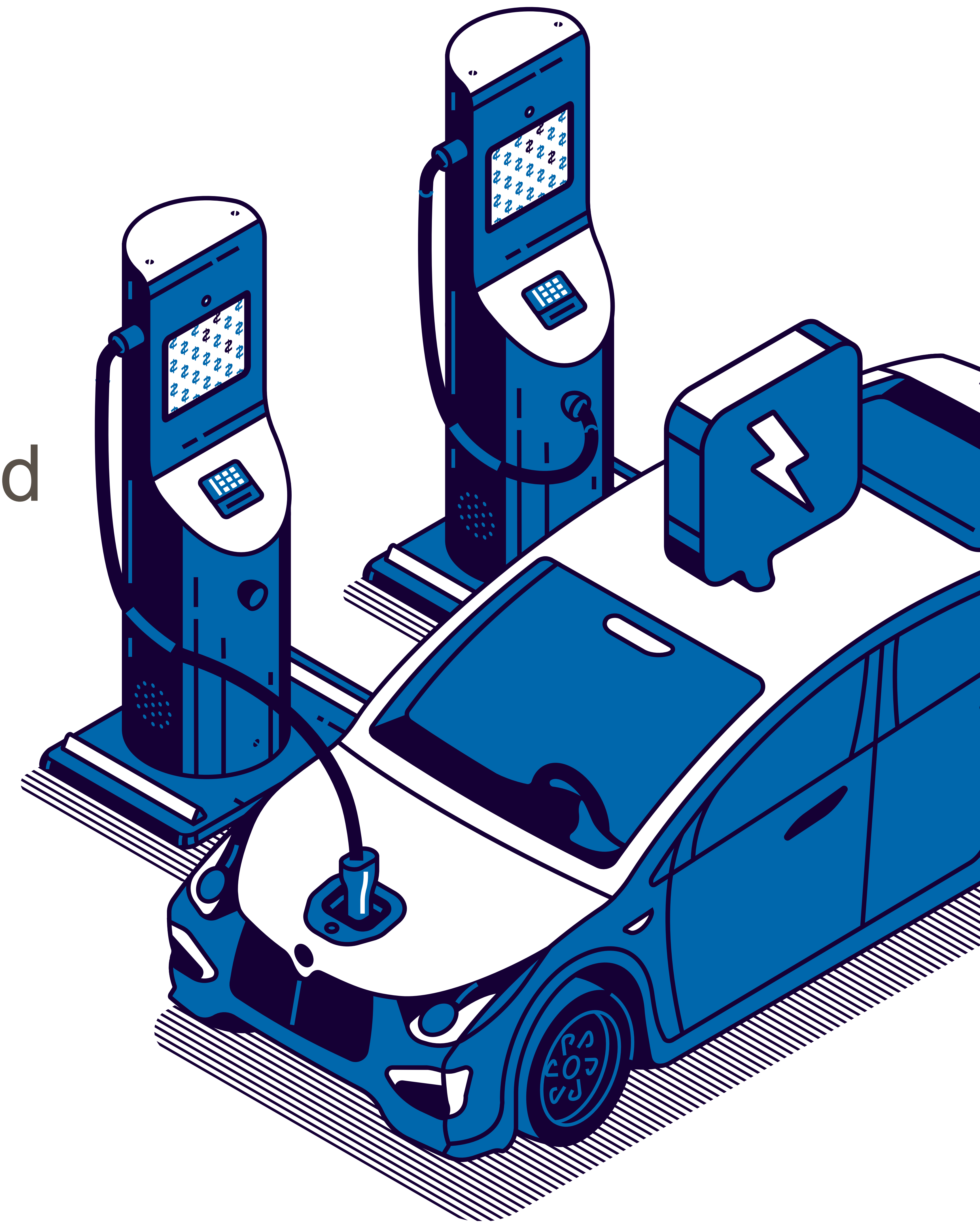
- Andrew Paul, State Highway Design Engineer
- Koby Lemrise, Project Manager
- Samantha Langeleh, Project Manager
- Stephen Simoglou, Project Manager
- Christopher Aiello, Senior Counsel – Climate Initiative
- Dan Fielding, Legislative Affairs



Background

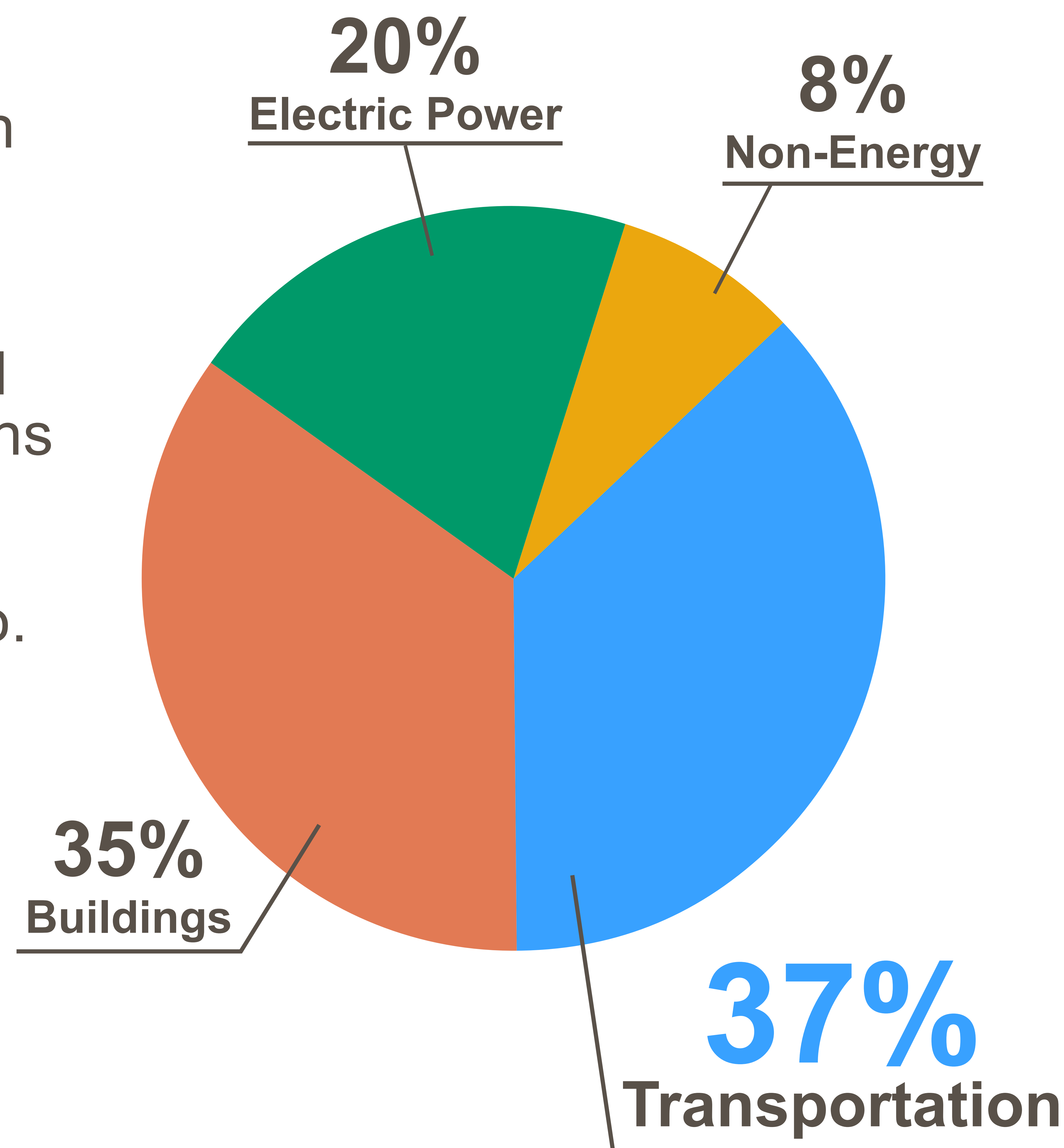
What is the NEVI Program?

- NEVI is short for the National Electric Vehicle Infrastructure Formula Program.
- It was established by the Bipartisan Infrastructure Law (BIL) which was signed by President Biden on November 14, 2021.
- NEVI provides funding to states to build electric vehicle (EV) charging infrastructure.
- This helps reduce range anxiety and supports the adoption of electric vehicles.



Why is this important?

- The transportation sector is the largest source of greenhouse gas emissions in Massachusetts.
- Massachusetts has a Clean Energy and Climate Plan (CECP) for 2025 and 2030 that includes aggressive emissions reductions in 2025 and 2030.
- Governor Healey's Executive Order No. 604 in January 2023 also established the Office of Climate Innovation and Resilience to help further the achievement of these goals.
- The Commonwealth is committed to achieving net zero statewide greenhouse gas emissions by 2050.
- Increasing the adoption of electric vehicles will help reduce greenhouse gas emissions and meet these targets.



How does the NEVI Program Work?

- NEVI provides federal funding to states for the construction of EV charging stations with the requirement that EV charging stations:
 - **Be available every 50 miles along designated Alternative Fuel Corridors (AFCs).**
 - **Be capable of simultaneously charging four EVs.**
 - **Provide Direct Current Fast Charging (DCFC) that charge an EV to 80% in 20 minutes to 1 hour.**
- Once EV charging stations are available every 50 miles, NEVI funding can be used beyond designated corridors
- NEVI also requires each state to develop a plan for implementation

How much funding is Massachusetts receiving through NEVI?

- Massachusetts is receiving \$63 million in federal funding over a 5-year period.
- The station cost ranges from \$750K to \$1.2M.
- Approximately \$1M for 4 DCFCs.





NEVI Approach

How did Massachusetts develop its NEVI plan?



What is Massachusetts' NEVI approach?

Segments

- AFCs without EV charging stations have been divided into 25-mile segments.
- Stations built anywhere within these segments will be at most 50 miles from one another.
- Sites must be within 1 mile of an AFC.
- There also must a station be within 25 miles of a state border.

Efficient Implementation

- NEVI funds will first be prioritized towards projects that can be started quickly and carried out efficiently.

Meeting Demand

- Remaining NEVI funds will then be used to focus on areas where there is the most unserved demand.
- Higher priority will be given to areas with high percentages of Environmental Justice communities.

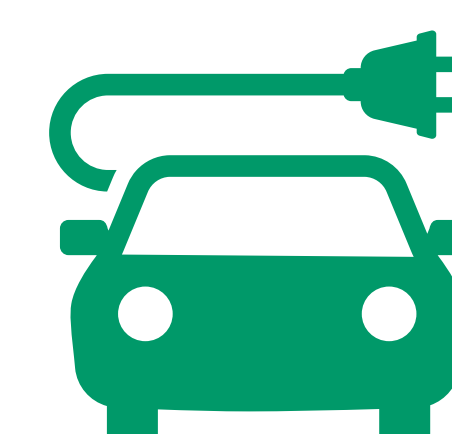


What are the benefits to this approach?

- Will provide flexibility and help meet the NEVI Program goals
- Will focus on zones within the AFC network where there is the most unserved demand
- Higher priority given to zones with high percentages of Environmental Justice communities



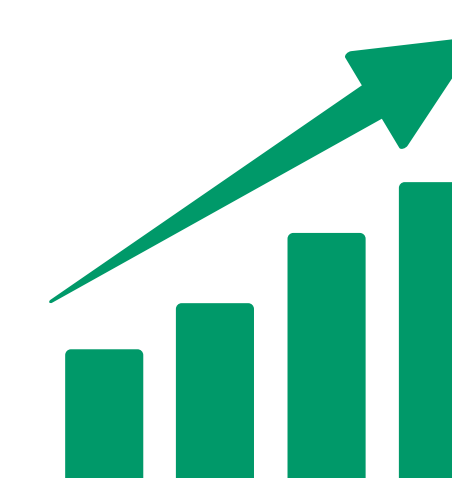
Reduce vehicle emissions



Provide a safe and reliable electric transportation option



Build a stronger state economy and workforce

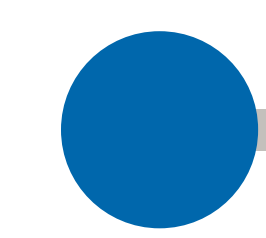


Leverage ongoing utility EV programs

What are the phases of NEVI implementation for Massachusetts?



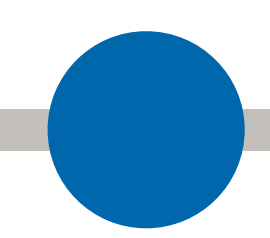
What work has happened so far?



November

2021

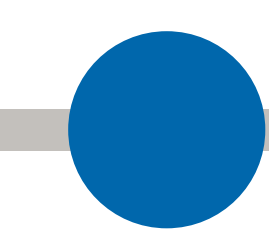
Bipartisan Infrastructure Law
signed



July

2022

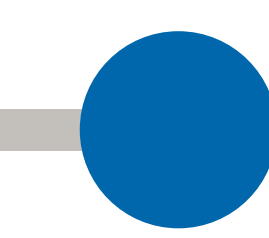
Massachusetts submitted
NEVI Plan to FHWA



September

2022

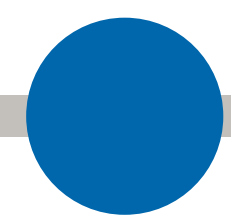
Massachusetts NEVI Plan
approved by FHWA



July

2023

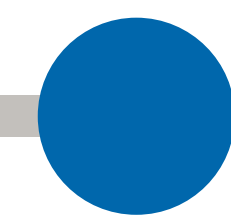
MassDOT publishes Request
for Information



December

2023

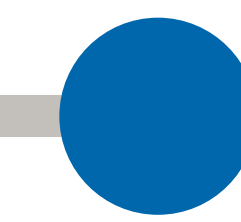
Massachusetts published
Request for Responses
from developers



January

2024

Responses received from
developers



May

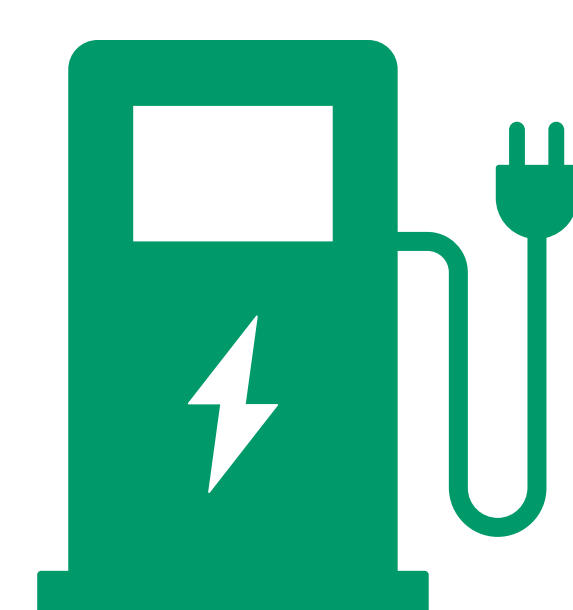
2024

MassDOT begins developing
pre-development services
agreements



Current Status

What is the current status?



MassDOT is currently identifying sites for new EV charging stations, carrying out permitting, and considering design options.

Factors that are being considered in the site selection process include:



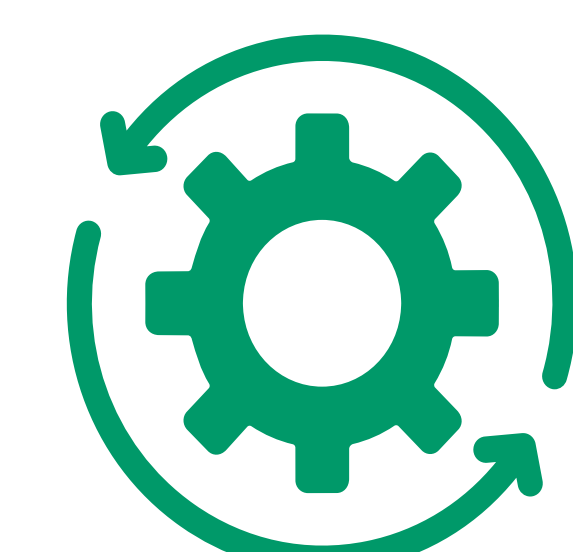
Ensuring equitable access to EV charging stations



Reliability and compliance with NEVI specifications including stations every 50 miles along AFCs and charging four EVs using DCFC



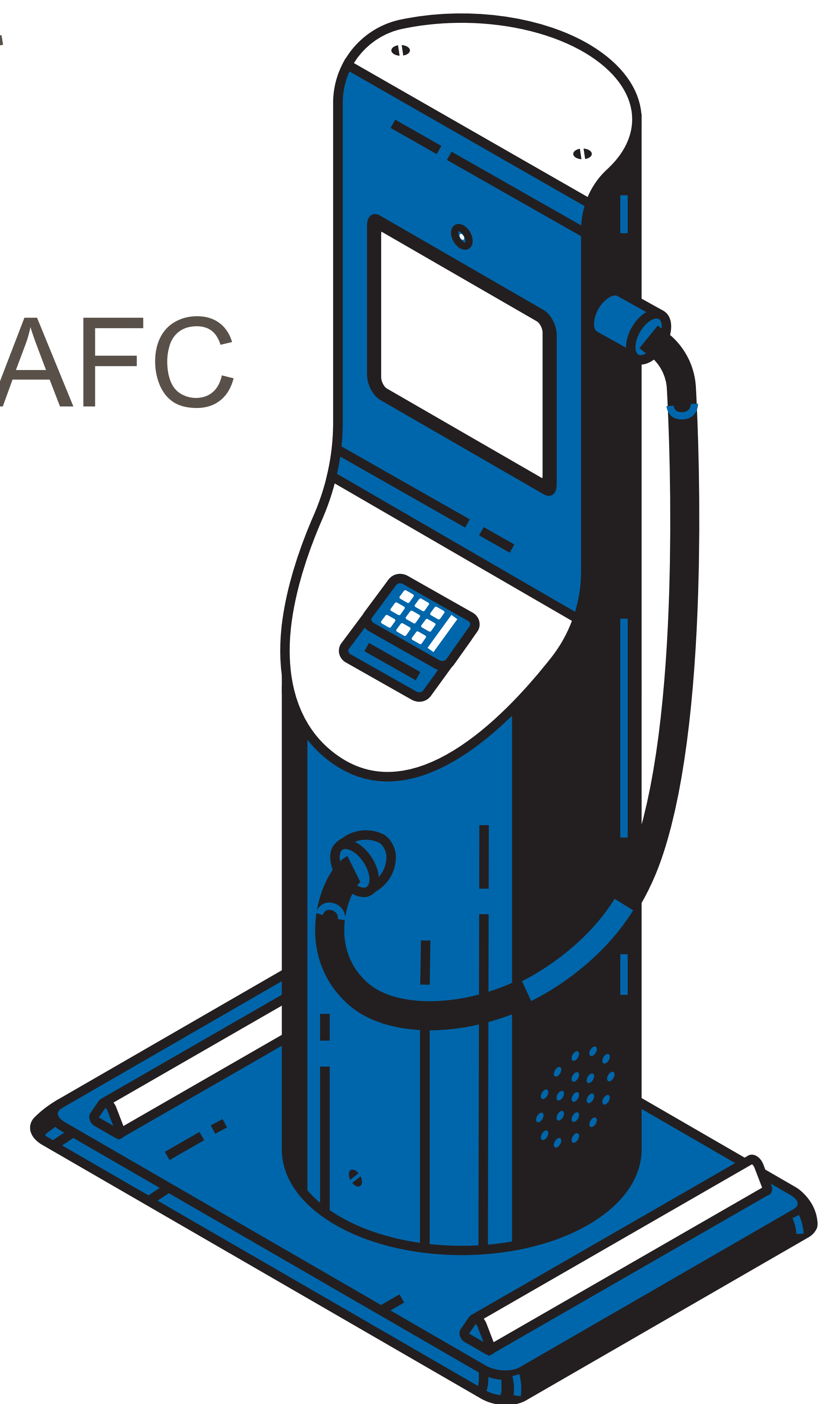
Utility agreements



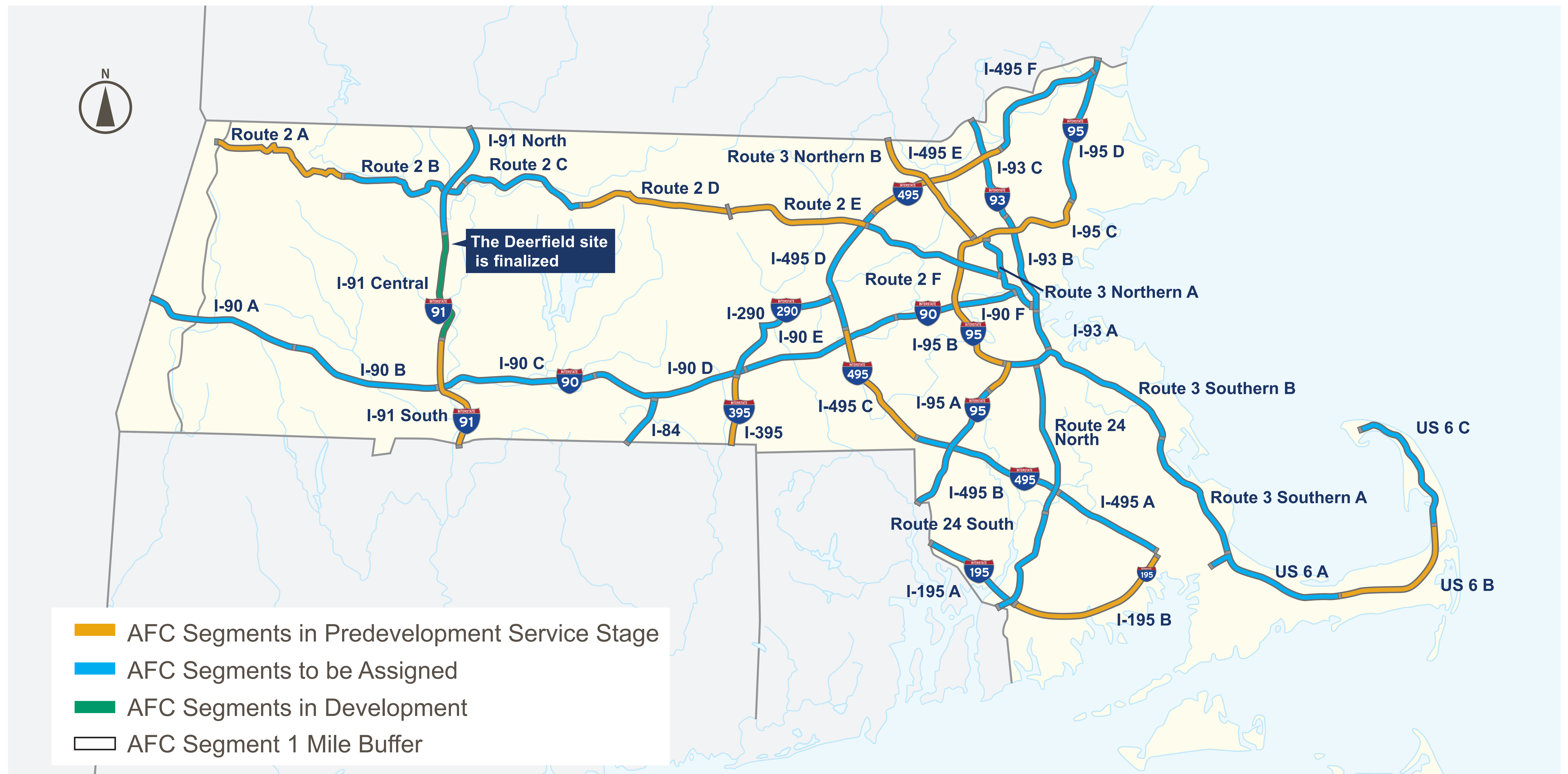
Site control

How will specific sites be selected?

- Sites will be selected based upon numerous factors:
 - Priority given to existing points of interest such as gas stations
 - Sites must be located within 1 mile of an AFC
 - Attempt to minimize environmental and construction impacts
 - Site control
 - Utility agreements and power availability



Where will the EV charging stations be located?



What factors will be considered regarding the design of the charging stations?



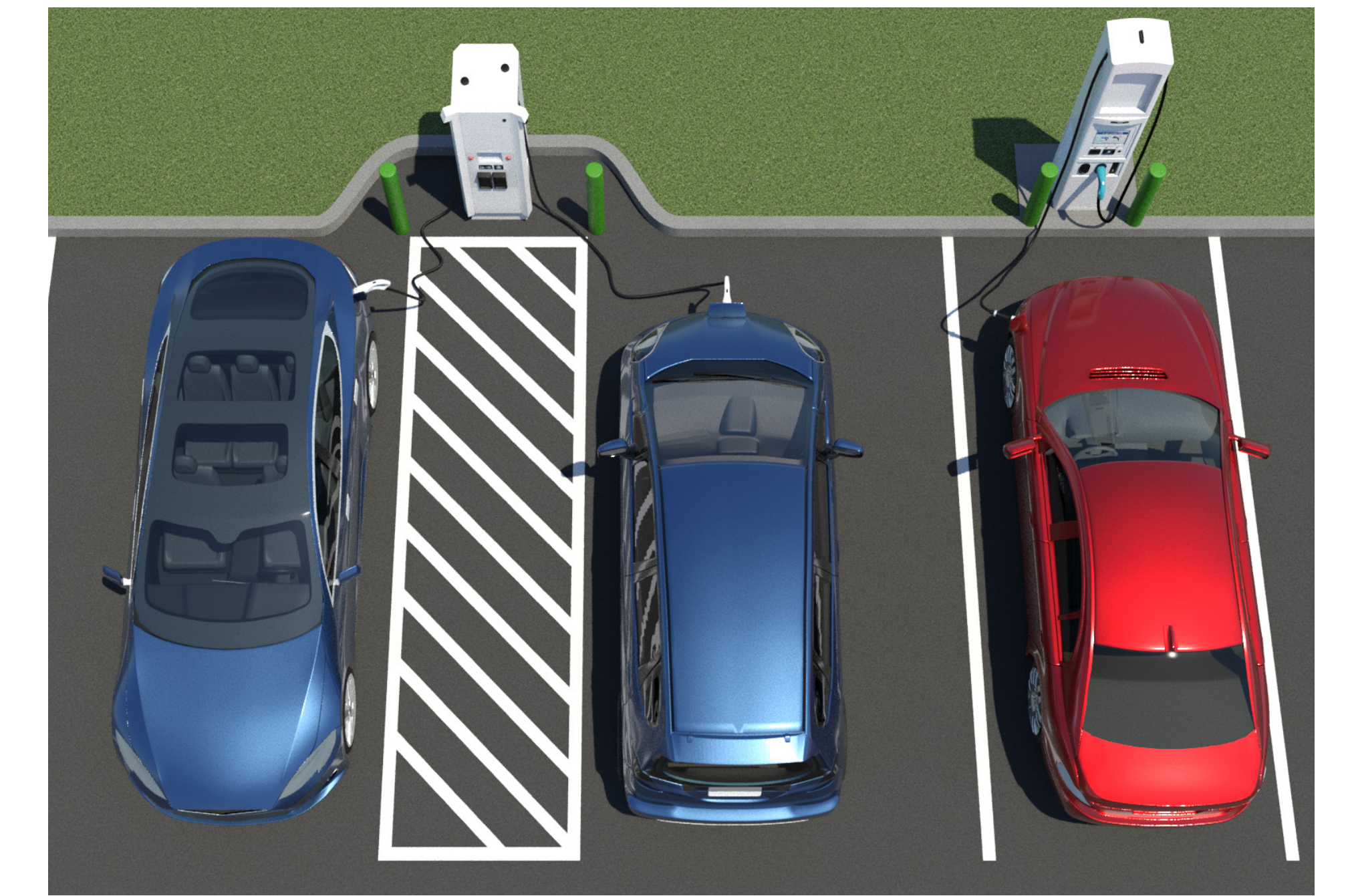
Branding



Electrical



Protection



Accessibility



Operations & Maintenance



Lighting

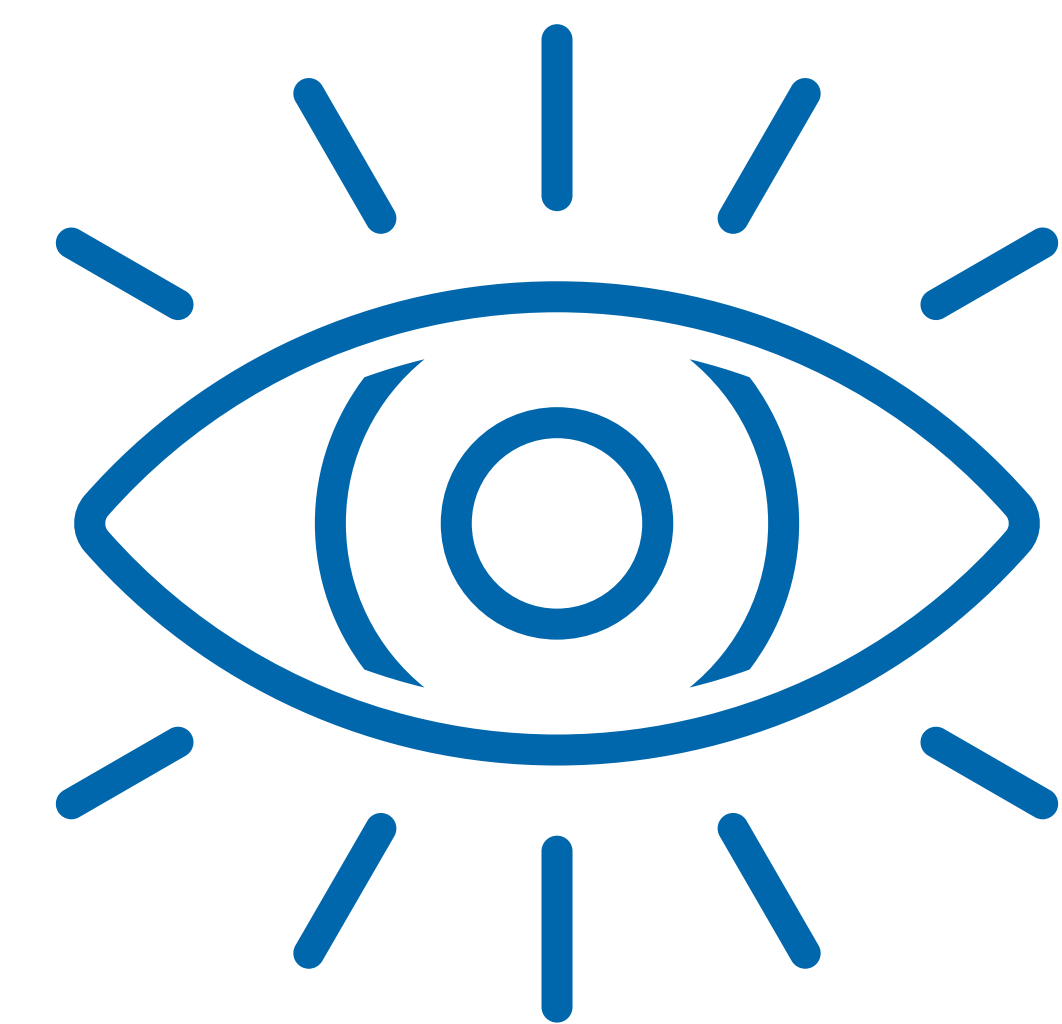


Location and Wayfinding

*Located within 1 mile of an AFC



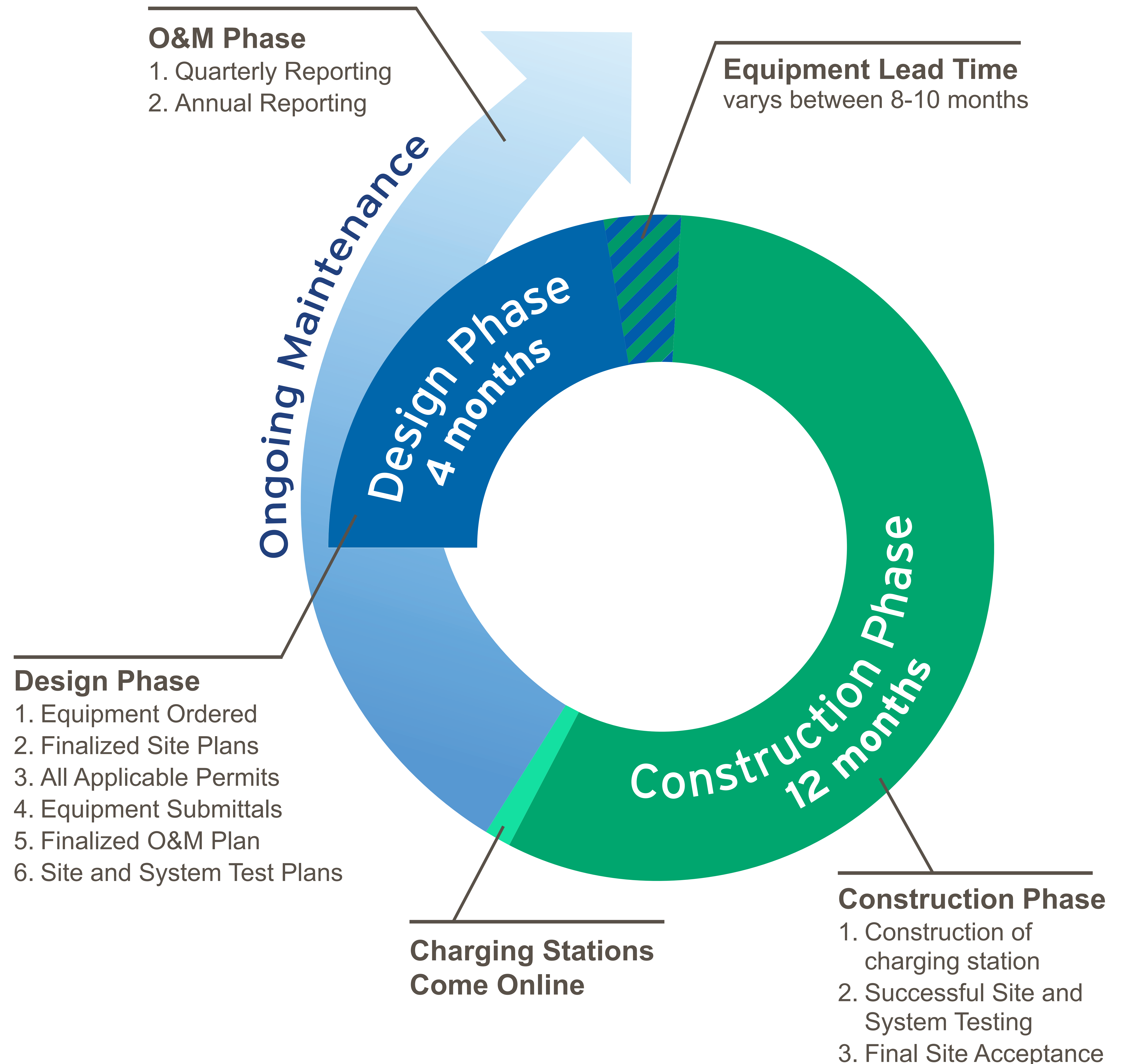
Expansion Capability



Looking Ahead

What work is happening in the near future?

- **Summer-Fall 2024:** Identifying EV charging station sites and finalizing reviews and permitting
- **Fall 2024:** Beginning construction activity
- **2025:** EV charging stations begin coming online





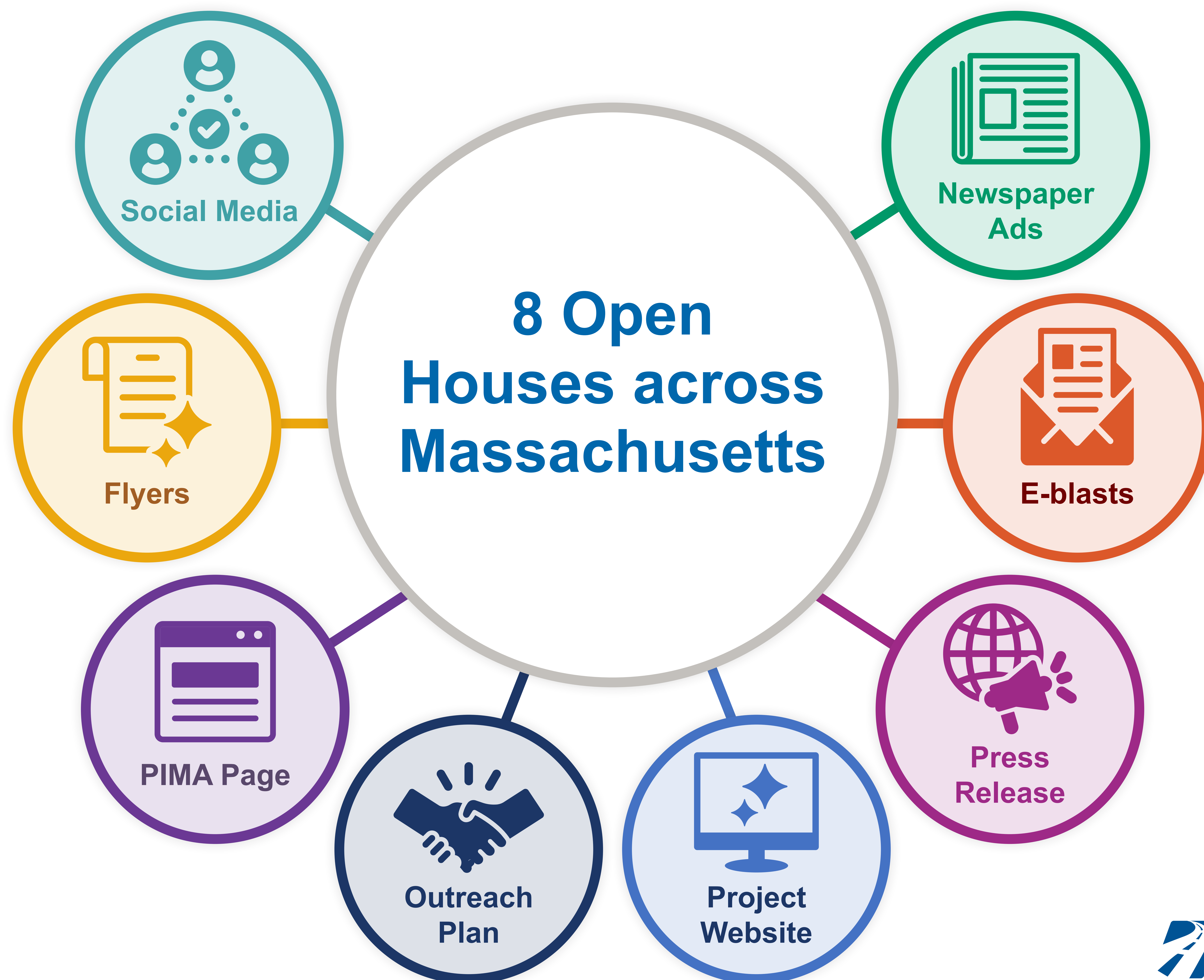
Outreach

What are the latest public involvement efforts?

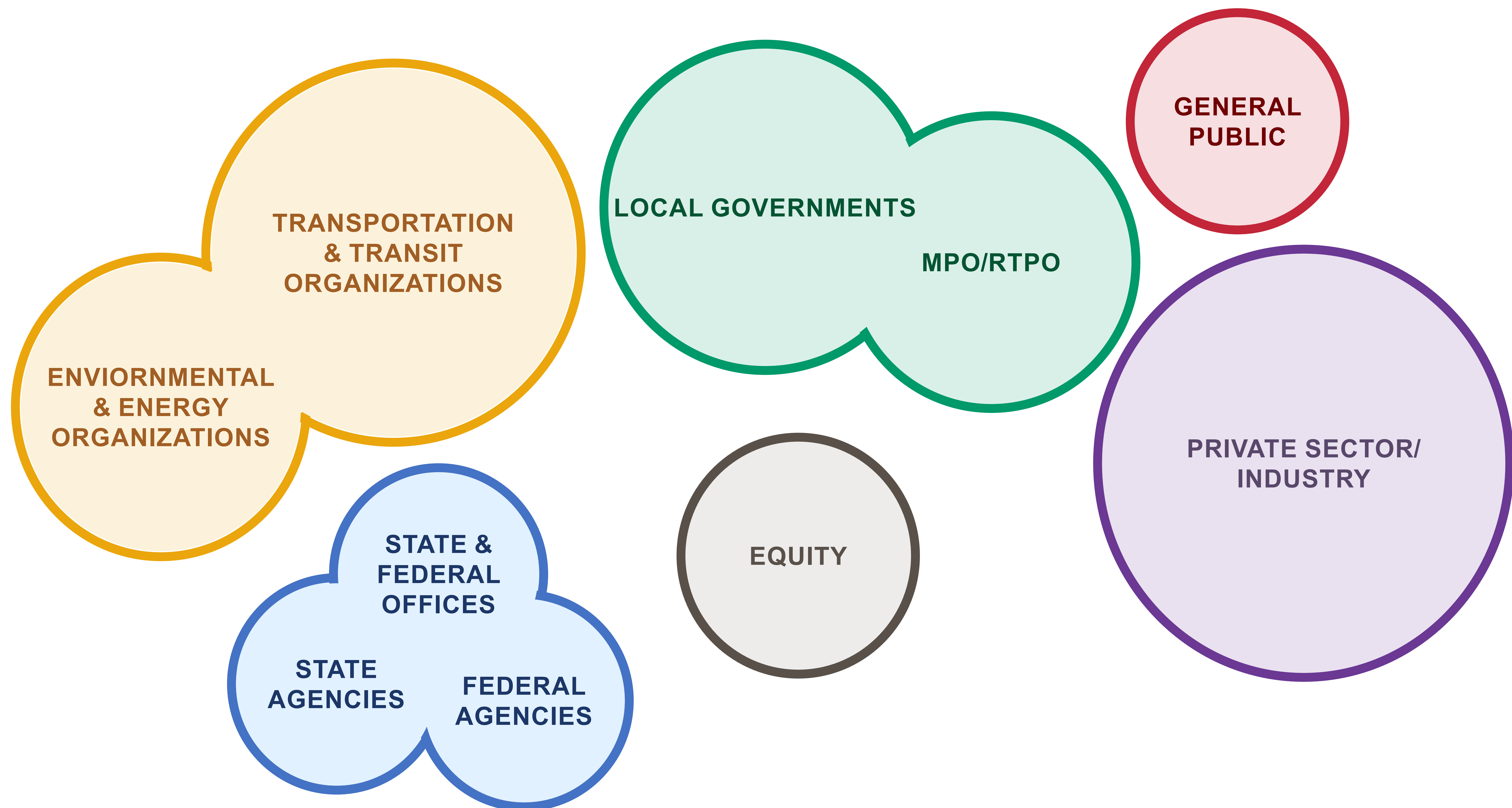
Date	Time	Location	Address	District
September 18th	6 PM - 8 PM	MassDOT District 6 Headquarters	185 Kneeland Street, Boston, MA, 02111	D6
September 25th	6 PM - 8 PM	New Bedford Free Public Library	613 Pleasant Sreet, New Bedford, MA, 02740	D5
October 3rd	6 PM - 8 PM	Pollard Memorial Library	401 Merrimack Street, Lowell, MA, 01852	D4
October 7th	6-8 PM	Torigian Senior Center	75R Central Street, Peabody, MA, 01960	D4
October 22nd	6 PM - 8 PM	Wellesley Public Library	530 Washington Street, Wellesley, MA 02482	D6
October 24th	6 PM - 8 PM	Berkshire Athenaeum Pittsfield Library	1 Wendell Ave, Pittsfield, MA, 01201	D1
October 28th	6 PM - 8 PM	Greenfield Public Library	412 Main Street, Greenfield, MA, 01301	D2
November 6th	6 PM - 8 PM	Worcester Public Library	3 Salem Square, Worcester, MA, 01608	D3

* A recording of this presentation is available on the MassDOT website

What is our latest NEVI public involvement?



Who are we continuing to engage about NEVI?



How can I provide input on the NEVI program?



SCAN ME

To visit the
project website
and learn more

Visit the project website at:

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

Submit comments to:

<http://tiny.cc/NEVI>

Submit written comments to:

Carrie Lavalley, P.E., Chief Engineer
MassDOT

10 Park Plaza

Boston, MA 02116

Attention: NEVI Program