







2023 Massachusetts State Freight Plan

Public Informational Meeting #1

presented to

General Public

presented by

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- We welcome the diversity from across our entire service area. If you have any
 questions or concerns, please visit https://www.mass.gov/nondiscrimination-in-transportation-program to reach the Office of Diversity and Civil Rights.

Thank you for joining our meeting. We appreciate your participation!



Agenda

- Welcome & Introductions
- Background on 2017 Freight Plan
- COVID-19 Freight Study Findings
- 2023 Massachusetts Freight Plan
- 2023 Plan Vision & Goals
- Q&A
- Next Steps



Planning Team Introductions













Background on 2017 Freight Plan

- Developed through a riskaware, scenario-based process
- Fixing America's Surface Transportation (FAST) Actcompliant
- Established strategies:
 - Immediate strategies (infrastructure, policies, people)
 - Robust strategies (infrastructure, operations)
 - Deferred strategies (infrastructure)
 - Hedging & shaping strategies (infrastructure, operations, policies, people).





Partial List of Key Actions Since 2017 Freight Plan

Mass Coastal Railroad upgrades to 286K between Mansfield and Attleboro

More Than Half a Dozen National Highway Freight Program-Funded Projects Programmed in 2019-2023 Federal Railroad Administration
Better Utilizing Investments to Leverage
Development (BUILD) Grant to Rehab
New England Central Railroad Freight Corridor
in Western MA and Upgrade to 286K

Statewide Truck Parking Improvements Study

COVID-19 Freight Study



COVID-19 Freight Study Key Findings



Global Supply Chain Vulnerabilities Highlighted by COVID-19

Suppliers Manufacturers

- Reduced sourcing options
- Insufficient information on manufacturing capacity
- Labor shortages
- Business closures

Distributors





- Lack of truck drivers
- Strict regulations
- Workforce preferences
- Insufficient skilled workforce

Consumers



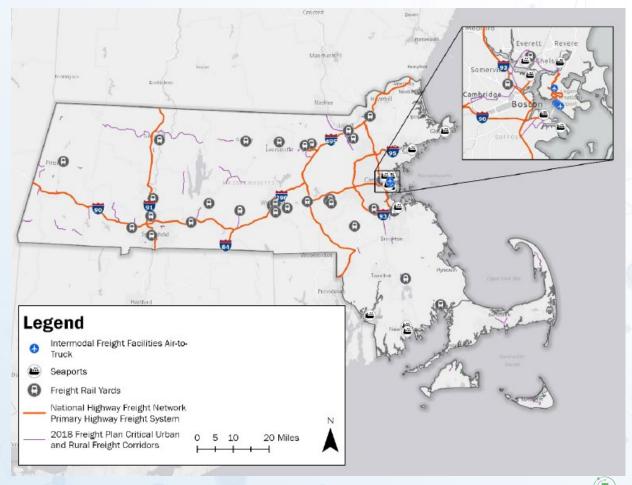
Inability to react to unstable and unreliable demand





Massachusetts' Economy & Freight

- Freight-intensive industries accounted for 24% of Massachusetts' \$531 billion real gross domestic product (GDP) in 2021
- About 68% of domestic outbound and inbound freight by tonnage moves to and from Massachusetts and over 90% of Massachusetts freight stays in the New England region



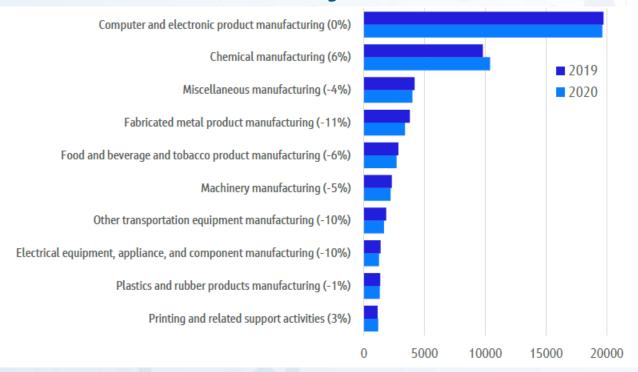
Source: Massachusetts geoDOT



Impact on Massachusetts Manufacturing, Imports, and Exports

- Massachusetts' manufacturing industry resilience during the pandemic can be attributed to computer and electronic product manufacturing & chemical manufacturing
- Top exports by value from Massachusetts in 2021 included:
 - Vaccines
 - Machines for semiconductor manufacturing
 - Electronic instruments
 - Medical appliances
 - Filtering/ purifying machinery for liquids





Source: Bureau of Economic Analysis, GDP by Industry





Literature Review Key Findings



A surge in e-commerce and an increase in transportation costs were observed globally.



Supply chain issues persisted in 2022, particularly for electronic components and semiconductors.



Hybrid work arrangements became more acceptable in some industries.



Supply chain vulnerabilities were exposed including limited sourcing options.



Other global events, such as the Russia-Ukraine war, prolong the recovery from the pandemic.





Quantitative Analysis Key Findings



Different industries experienced different impacts due to the pandemic, with manufacturing and wholesale remaining relatively stable.



The increase in e-commerce led to a surge in the number of new warehouses and distribution centers leading to increased traffic, noise, and safety issues.



Travel restrictions led to a significant impact to passenger air and transit.



Massachusetts' diverse economy facilitated its resilience to the pandemic with manufacturing jobs in the science and technology industry remaining steady during 2020.



Increased truck volumes on major highways such as the I-90, I-84, and I-93 could be attributed to decreased port calls at the Port of Boston and increased traffic from the Ports of New York and New Jersey.



In August 2022, Amazon announced that it is closing five of its delivery warehouses. However, it plans on opening additional grocery stores around the state.



Qualitative Analysis Key Findings



Labor shortage was a recurring theme during the peak and recovery periods of the pandemic.



Vaccination mandates
impacted the transportation
industry resulting in
hampered growth and
decreased revenue across
the rail and trucking
industries.



In addition to higher wages, benefits and better work-life balance became critical to hiring and retaining workers.



New COVID-19 compliance measures put in place in addition to existing safety protocols made operations more complex and increased business operating costs.



There was an uptick in reckless driving, mostly by passenger vehicles, as there were fewer vehicles on the roads.



Increased demand for curb space, and companies have begun consolidating delivery services.





Immediate Considerations for Massachusetts



Develop and deploy a truck parking availability system that detects, monitors, and provides real-time parking availability to truck drivers.



Develop and promote a safety campaign that prepares drivers to return to normal life after long periods of lockdowns.



Collaborate with ondemand mobility service providers to ensure adequate driver training and monitoring during last-mile deliveries.



Promote workforce upskilling to meet demand and address the labor shortage.



Promote multistate collaboration in addressing interstate over-dimensional load movements.



Take advantage of recent legislation (for example, the CHIPS and Science Act and the IIJA) to favor Massachusetts' long-term economic growth.



Create and promote clear communication channels to address inquiries regarding oversized and overweight vehicle movement.





2023 Massachusetts Freight Plan



2023 Massachusetts Freight Plan

Develop a 2023 Massachusetts Freight Plan that is...

- Reader-Friendly
- Focuses on Policy, Trends, and Scenarios
- Ties into Other Plans/Programs
- Advances National Freight Goals

... For submittal to the Federal Highway Administration by mid-April 2023, approved by mid-July 2023.



FAST Act Requirements for Freight Plans

State Freight Plans shall include, at a minimum:

Identification of significant statewide **freight trends**, **needs and issues**

Description of improvements to reduce **roadway deterioration by heavy vehicles** (incl. mining, agricultural, energy cargo, and timber vehicles)

Description of **freight policies**, **strategies and performance measures** that will guide freight-related transportation investment decisions

Inventory of **facilities with freight mobility issues** and a description of the strategies the state is employing to address the freight mobility issues

Critical multimodal rural freight facilities and **rural and urban freight corridors**

Description of **significant congestion or delay** caused by freight movements and any mitigation strategies

Link to **national multimodal freight policy** and highway freight program goals

Freight investment plan that includes a list of priority projects and describes investment and matching funds

Description of how **innovative technologies and operational strategies** (including intelligent transportation systems) that improve the safety and efficiency of freight movements were considered

Consultation with the **state freight advisory committee** (FAC)

Infrastructure Investment and Jobs Act (IIJA) Requirements for Freight Plans

State Freight Plans shall include, at a minimum:

Assessment of commercial motor vehicle parking facilities

Description of supply chain cargo flows

Inventory of commercial ports

Discussion of the impacts of **e-commerce** on freight infrastructure

Considerations of military freight

Strategies and goals to decrease a) the severity of impacts of **extreme weather and natural disasters** on freight mobility, b) the impacts of freight movement on **local air pollution**, c) the impacts of freight movement on **flooding and stormwater runoff**, and d) the impacts of freight movement on **wildlife habitat loss**

In carrying out activities under the State freight plan, a) enhance **reliability or redundancy** of freight transportation, or b) incorporate the ability to rapidly restore **access and reliability** with respect to freight transportation



Role of the Freight Advisory Committee

Who?



Advisors, stakeholders, and subject matter experts

Why?



- Confirm vision and goals
- Offer insight on local and regional freight-related issues, trends, and needs
- Share information with institution/organization represented
- Inform recommendations, solutions, and strategies

When?



Up to 3 times over the next 4-6 months



Schedule and Key Milestones



2023 Freight Plan Vision & Goals



MassDOT Mission

Our mission is to deliver excellent customer service to people traveling in the Commonwealth by providing transportation infrastructure which is safe, reliable, robust and resilient. We work to provide a transportation system which can strengthen the state's economy and improve the quality of life for all.



2017 Freight Plan Vision

VISION & GUIDING PRINCIPLES





2017 Freight Plan Transportation Performance Goals

- Customer Experience. The freight system should work for all its customers: shippers, carriers, consumers, workforce, and communities.
- System Condition. Optimize freight system investment decisions to best utilize limited funds to maintain and preserve the existing multimodal freight system.
- Budget and Capital Performance. Capital budgets should be set in part using freight performance metrics, to ensure that the benefits of projects for freight uses are properly considered in decision-making.
- **Safety.** Freight movement should be safe for operators, motorists and passengers, bicyclists, and pedestrians, in urban, suburban, and rural areas.
- Healthy and Sustainable Transportation. Improve the use of data, policies, or guidance to support the avoidance, minimization, and/or mitigation of impacts to natural and cultural resources on freight related projects.



Proposed 2023 Freight Plan Vision

Supporting safe, resilient, and secure multimodal freight movement in Massachusetts through investing in key freight assets to improve economic competitiveness, provide efficient and reliable freight mobility, and support healthy and sustainable communities.



Proposed 2023 Freight Plan Goals

System Condition

Support an efficient and reliable supply chain through investments in existing infrastructure and supporting technologies to maintain and preserve the existing system.

Safety and Resiliency

Improve statewide safety by funding projects that reduce injuries and fatalities, reduce vulnerability, and improve the resiliency of the system.

Mobility and Reliability

Invest in the multimodal transportation system to improve mobility, connectivity, accessibility, and reliability for people and goods.

Economic Competitiveness

Support multimodal transportation system connectivity, efficiency, and mobility to support businesses and residents and increase national and regional economic competitiveness.

Equity and Environmental Sustainability

Support initiatives and investments that improve equity across the multimodal system, improve local air quality, and minimize impacts to natural, historic, and cultural resources.

Guiding Principles

at the table.



Fostering equity & collaboration.
Understanding the needs of all groups and ensuring that the right stakeholders are



Building organizational capacity. Ensuring MassDOT has the staff and systems in place to accomplish its goals.





Poll Question #1

On a scale of low, medium, and high, how would you prioritize each of the following goals?

System Condition

Safety and Resiliency

Mobility and Reliability

Economic Competitiveness

Equity and Environmental Sustainability



Poll Question #2

Are there other themes that would you like to see incorporated into the 2023 Freight Plan vision or goals?



Questions and Answers



"Raise your hand" to be unmuted for verbal questions (Alt + Y if using a phone)



Submit your questions and comments using the Q&A button



Please state your name before your question



 Please share only 1 question or comment at a time, limited to 2 minutes, to allow others to participate



 To ask a question via phone, dial *9 and the moderator will call out the last 4-digits of your phone number and unmute your audio when it is your turn

All questions and comments are subject to disclosure for public records. Please use these functions for project related business only.





Next Steps



Schedule and Key Milestones



Next 30 Days



Review & Incorporate comments from Public Informational Meeting #1 and FAC Meeting #1



Draft Freight Plan chapters covering: key industries, recent supply chain developments, existing conditions & trends



Prepare for FAC Meeting #2







For more information on the Freight Plan, please visit our website

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