Maryland State Freight Plan

Draft Freight Plan Coordination and Update

BRTB / March 22, 2022 / 9:00 AM
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Freight Plan Overview

**PURPOSE**
To examine existing and projected conditions, build consensus, and identify policy positions, strategies, and freight projects to **improve freight movement efficiency and safety**

**VISION**
Freight travels **freely** and **safely** through a **modern**, **resilient**, and **interconnected multimodal** network contributing to sustainable **economic viability and growth** for Maryland businesses and communities.

The **Infrastructure Investment and Jobs Act (IIJA)** identifies **17 federally required elements** for a state freight plan, including 7 new elements (compared to FAST Act) related to: **truck parking**, **supply chains**, **ports**, **multi-state compacts**, **e-commerce**, **military freight**, and **resilience and environmental impacts**.
Freight Plan Overview

Freight Background

1. Introduction
   • Purpose, Vision, and Context
   • Recent Freight Actions and Resources
   • Stakeholders and Partnerships

2. Strategic Goals and Objectives
   • Overview and Alignment with 2040 MTP
   • Federal/State Requirements
   • Initial Outreach Perspectives

3. Freight Demand and the Economy
   • Commodity Flows
   • Freight Economic Influences
   • Freight Industry Sector Profiles

4. Freight Network and Infrastructure
   • Road, Rail, Port/Waterway, and Air
   • Energy Infrastructure
   • Multimodal Freight Network

Freight Focus Areas

5. Freight Performance, Trends, Needs
   • Freight Performance Measures (by goal)
   • Agency and Stakeholder Perspectives
   • Freight Needs (regional and statewide)

6. Freight Focus Areas and Programs
   • Aligned with Federal Requirements
   • Aligned with State Freight Needs and Interests

Freight Implementation Plan

7. Freight Projects and Investment Plan
   • Freight Project Candidates
   • Funding Opportunities
   • Freight Investment Plan

8. Freight Plan Implementation
   • Freight Strategies
   • Implementation Tactics and Next Step Priorities
# Outreach Highlights

## Calendar Year 2021

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**Discussion with various MDOT sub-groups (MCD, CAV, Rail), as well as a dedicated survey effort for adjoining state DOTs (DE, VA, PA, WV, DC)**

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**Discussion with various MDOT sub-groups (MCD, CAV, Rail), as well as a dedicated survey effort for adjoining state DOTs (DE, VA, PA, WV, DC)**

> 20 coordination meetings, 3 major milestone surveys, as well as monthly Core Team meetings

Future meetings and Milestone 3 formal draft plan reviews...
## SFAC Meeting Summaries: see [www.mdot.Maryland.gov/SFAC](http://www.mdot.Maryland.gov/SFAC)

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Outreach Highlights

Freight needs and focus areas were informed by:

- Stakeholder Outreach
- Background Research
- Existing Plans/Programs
- Performance Data
- Federal Requirements

**Regional Needs Maps**

Details will be included with Section 5 of the Freight Plan based on truck parking needs, congested routes/areas, truck bottlenecks, and related content shared during Milestone #2.
Freight Focus Areas

1. **Safety/Security**
   - Truck crashes
   - Highway-rail crossings
   - Hazardous materials
   - Cybersecurity

2. **Technology & Operations**
   - TSMO, CHART, ITS
   - Permitting & monitoring
   - CAV, ADAS, truck platooning
   - PDD, UAV, modeling/analytics

3. **Asset Management**
   - Bridge conditions
   - Pavement conditions
   - Dredging
   - Incident management

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**CALENDAR YEAR**

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Freight Focus Areas

4. Congestion
   • Truck volumes
   • Truck bottlenecks
   • Truck reliability
   • Multimodal reliability

5. Truck Parking
   • Designated truck parking
   • Undesignated truck parking
   • Challenges and opportunities

6. Supply Chains
   • Cargo flows and key industries
   • Multimodal opportunities
   • Freight land use
   • Freight workforce
Freight Focus Areas

7. Ports
   - Port infrastructure
   - Port access & mobility
   - M-95 marine highway
   - Inland waterways

8. Multistate Coordination
   - Multistate coalitions
   - Multistate MPO coordination
   - Adjoining state perspectives

9. E-Commerce
   - Trade, transportation, & warehousing
   - Local planning & zoning
   - Local consolidation centers
   - Local curb management
Freight Focus Areas

10. Military Freight
   • Maryland military installations
   • Strategic defense networks
   • Freight project/program influences

11. Resilience & Environmental
   • Climate change vulnerabilities
   • Emergency freight access
   • Alternative & efficient energy
   • Community considerations
Implementation Plan

Freight Projects
- TSMO Strategies
- Major Capital Improvements

Freight Strategies
- Statewide Freight Modeling Capabilities
- Innovative Performance Management
- Real-time Truck Parking Information
- Freight Data Exchange
- Freight EV Considerations
- Freight CAV
- Virtual Weigh Station
- Inspection Equipment Upgrades
- Truck Parking Upgrades

Next Step Priorities
- Expanded CUFC/CRFC
- Truck Platooning and PDD
- Prioritize other funding opportunities
- Continued stakeholder engagement
Implementation Plan

Formula Funding Opportunities:

- National Highway Freight Program (NHFP)
- Airport Infrastructure Grant Program
- National Highway Performance Program (NHPP)
- Surface Transportation Block Grant Programs
- Highway Safety Improvement Program (HSIP)
- Congestion Mitigation and Air Quality Management program (CMAQ)
- National Electric Vehicle Infrastructure Program (NEVI)
- Railway-Highway Crossing Program

Discretionary Grant Programs:

- Nationally Significant Freight and Highway Projects Grant Program / Infrastructure for Rebuilding America (INFRA)
- National Infrastructure Project Assistance (NIPA) /
  (Mega projects)
- Reduction of Truck Emissions at Port Facilities Program
- Consolidated Rail Infrastructure and Safety Improvements (CRISI)
- Rural Surface Transportation Grant Program
- Rebuilding American Infrastructure with Sustainability & Equity (RAISE) / Local and Regional Project Assistance Program
- Railroad Crossing Elimination Grant program
- Port Infrastructure Development Program
- Motor Carrier Safety Assistance Program
- Bureau of Transportation Statistics (grants, cooperative agreements, and other contracts)

IIJA expands freight funding uses and opportunities.
Plan Completion Schedule

- **MAR-APR**: Final draft plan compilation
- **MAY-JUN**: MDOT plan reviews
- **JUL-AUG**: SFAC and public plan reviews
- **SEP-OCT**: Federal plan reviews
- **NOV-DEC**: Final Maryland State Freight Plan
Discussion Questions

1. Are there other **freight focus areas** relevant to ongoing freight needs and programs in Maryland?

2. Are there other **implementation priorities** relevant to continuing Maryland freight planning and coordination?

For more information, please contact us at the following:

**Project Website:**
https://mdot.maryland.gov/freightplan

**Project Email:**
MDStateFreightPlan@mdot.maryland.gov

Thank You!