

NATIONAL CAPITAL REGION FREIGHT PLAN UPDATE

TPB Freight Subcommittee
March 10, 2023



Agenda

- Overview
- Priorities for Freight Subcommittee review
- Summary of key findings
- Next steps



Priorities for Freight Subcommittee Review

- Review for jurisdiction-specific technical corrections
- Provide feedback on regionally-significant freight projects
- Provide input on actions and recommendations

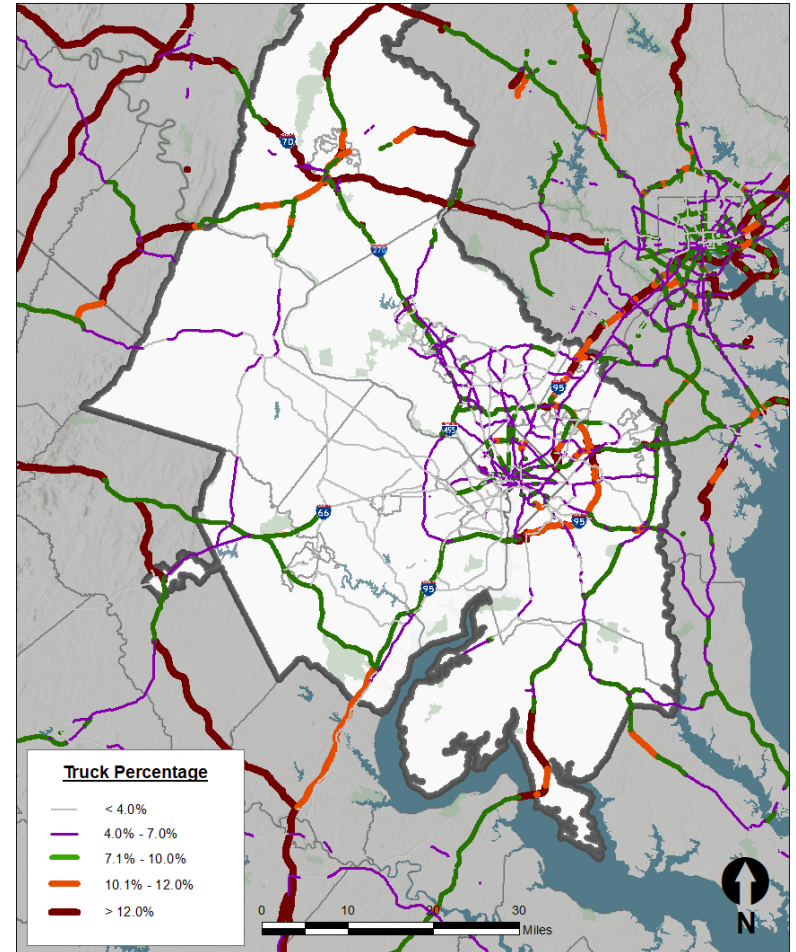
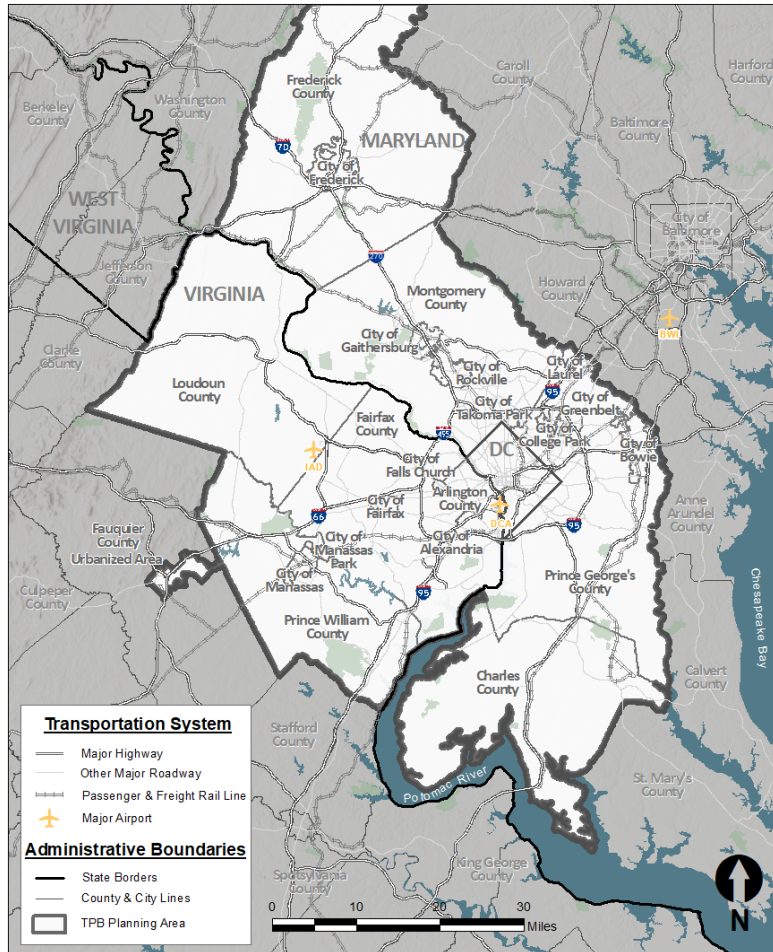


Regional Freight Planning Framework

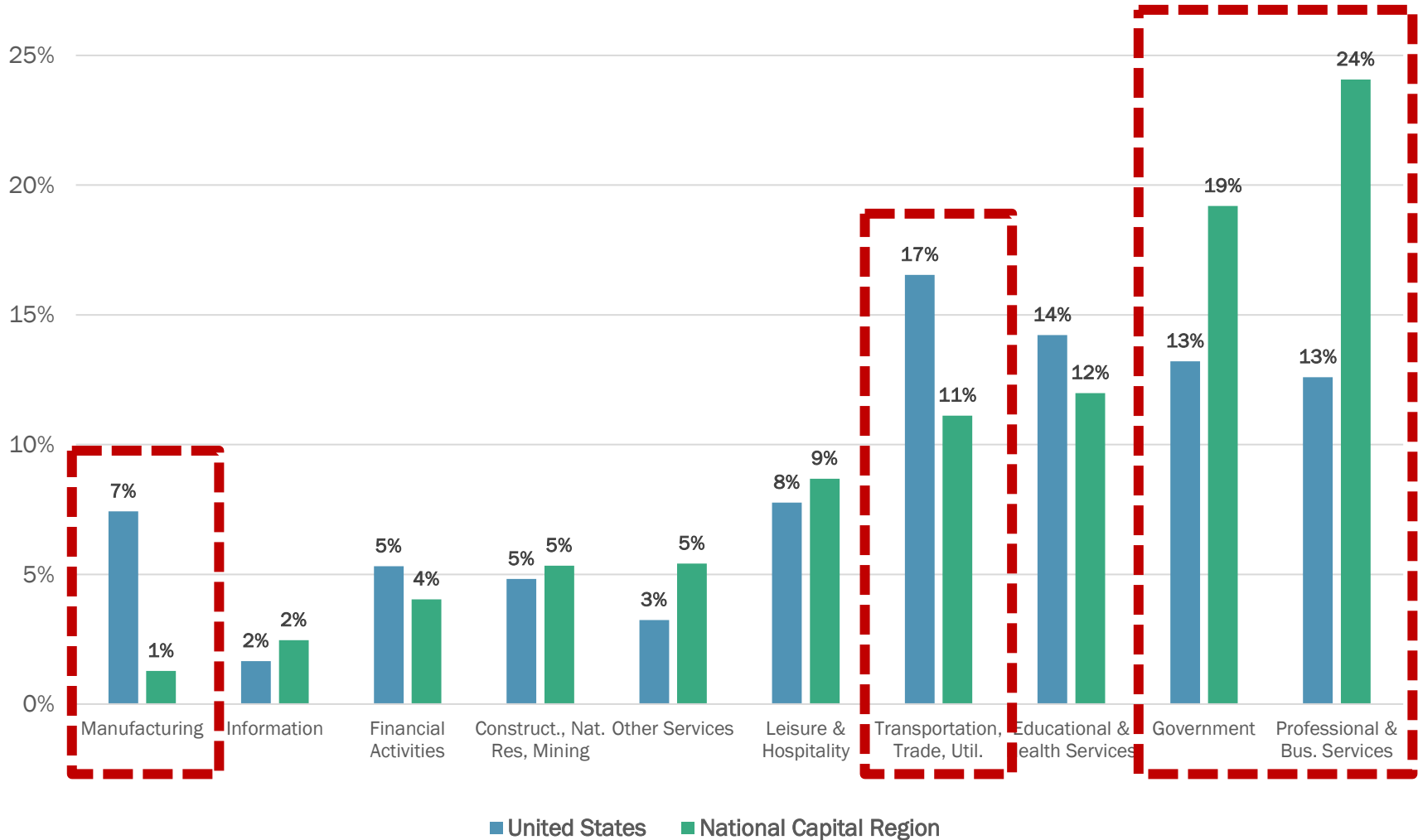
- Highlights freight's significance to the regional economy
- Incorporates planning factors and goals identified in Visualize 2045
- Aligns with federal freight policies and regulations
- Sets the stage for freight to be considered in the CLRP and all other regional planning activities



Regional Freight Network



Share of Employment by Industry Sector



Source: U.S. Bureau of Labor Statistics



Top Commodity Types by Weight

Rank	Commodity Class	Total (thousands of tons)	Share
1	Other petroleum products	52,427	24%
2	Gravel and crushed stone	36,903	17%
3	Non-metallic mineral products	29,172	13%
4	Waste and scrap	13,965	6%
5	Mixed freight	10,125	5%

- Outbound freight by weight in the National Capital Region increased from the 2016 Freight Plan.
- 33% of total freight by weight is inbound, 25% is outbound, and 42% is interregional.



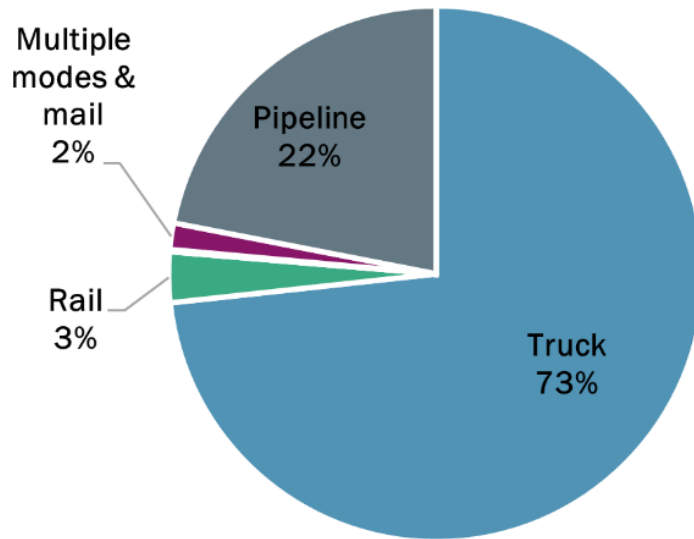
Top Commodity Types by Value

Rank	Commodity Class	Total (millions)	Share
1	Mixed freight	\$43,596	17%
2	Electronic and electrical equipment	\$36,846	14%
3	Pharmaceutical products	\$23,286	9%
4	Motorized and other vehicles	\$16,207	6%
5	Miscellaneous manufactured products	\$14,877	6%

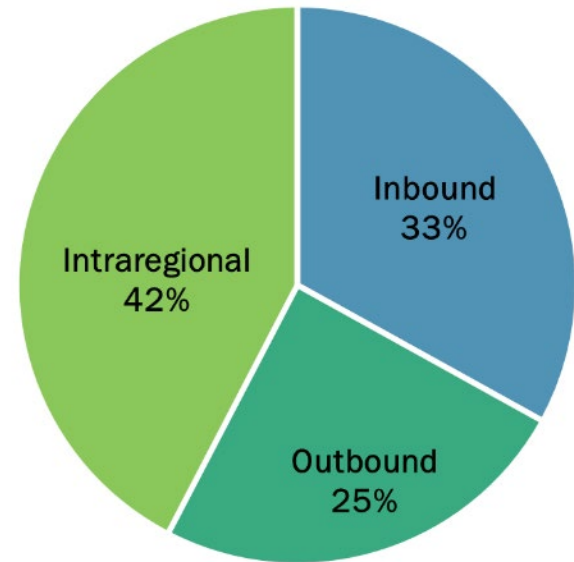


Regional Freight Weight

Weight (Mode)

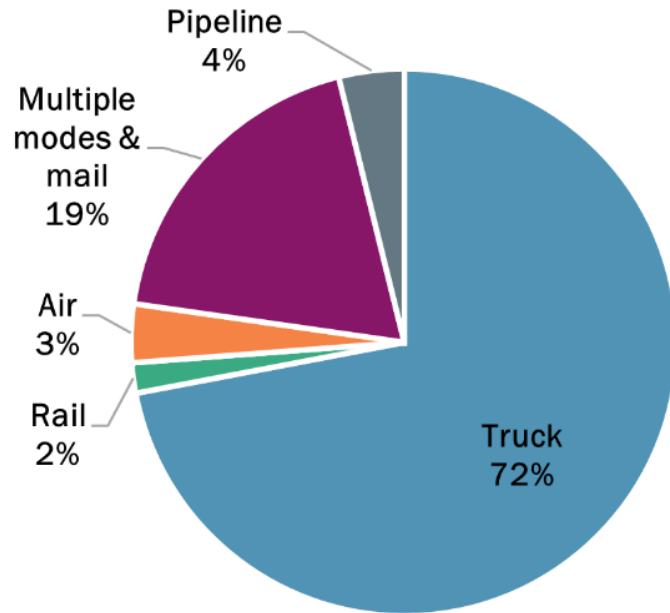


Weight (Direction)

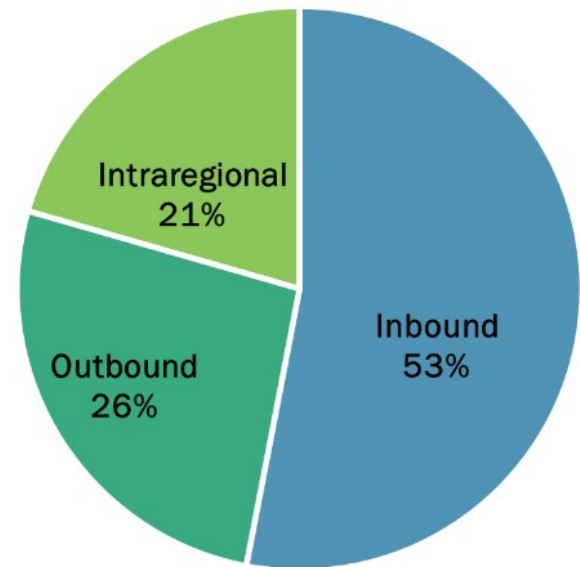


Regional Freight Value

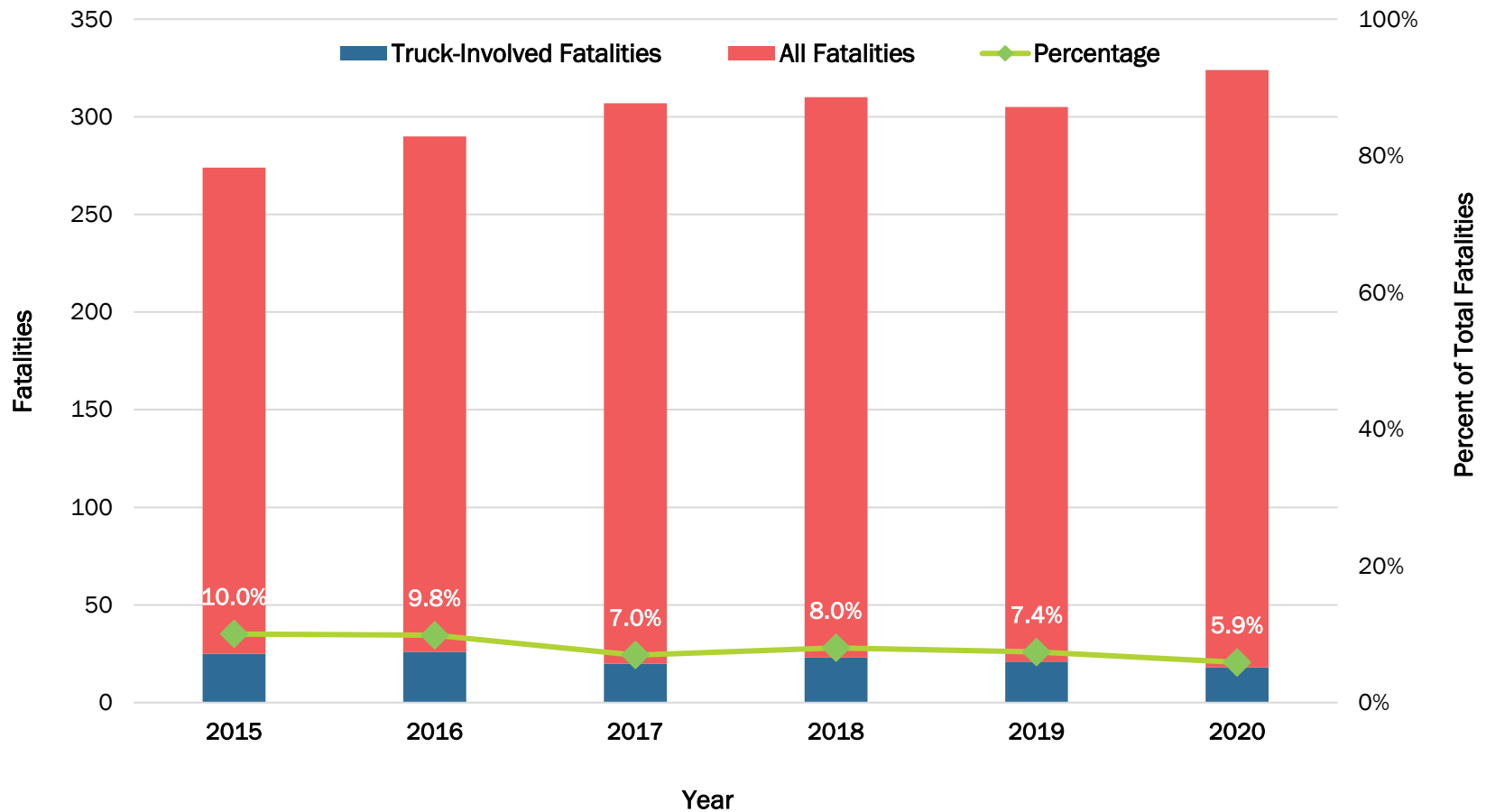
Value (Mode)



Value (Direction)



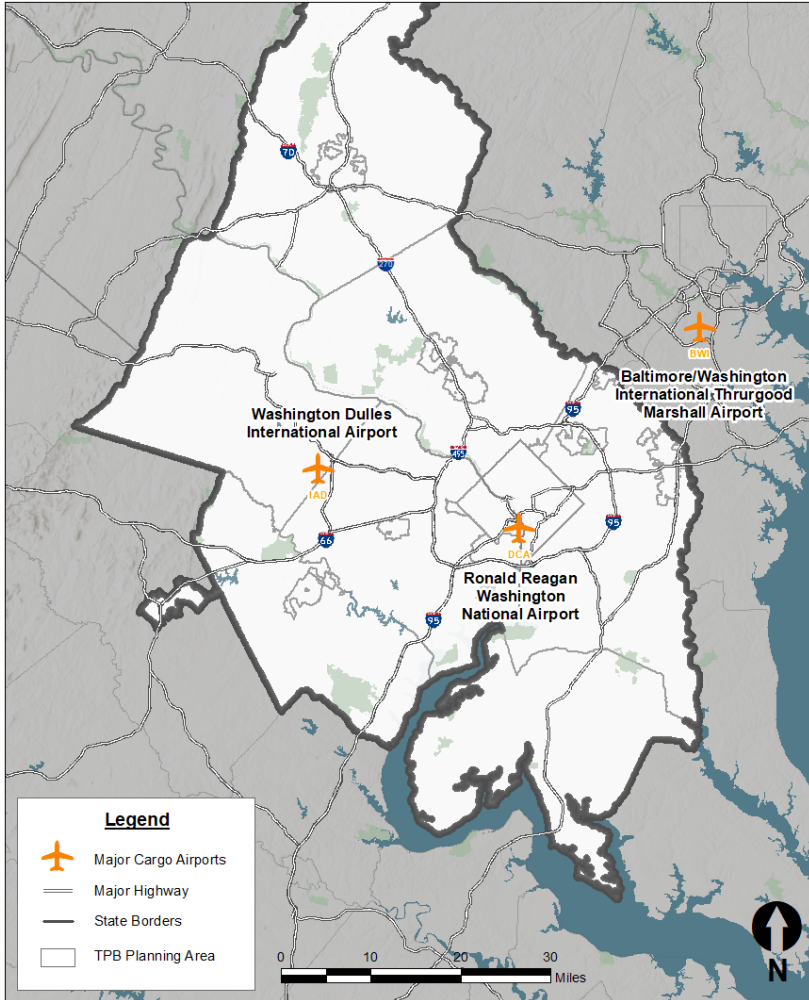
Regional Truck-Involved Fatalities



Source: Fatality Analysis Reporting System, Fatality and Injury Reporting System Tool (via NHTSA)



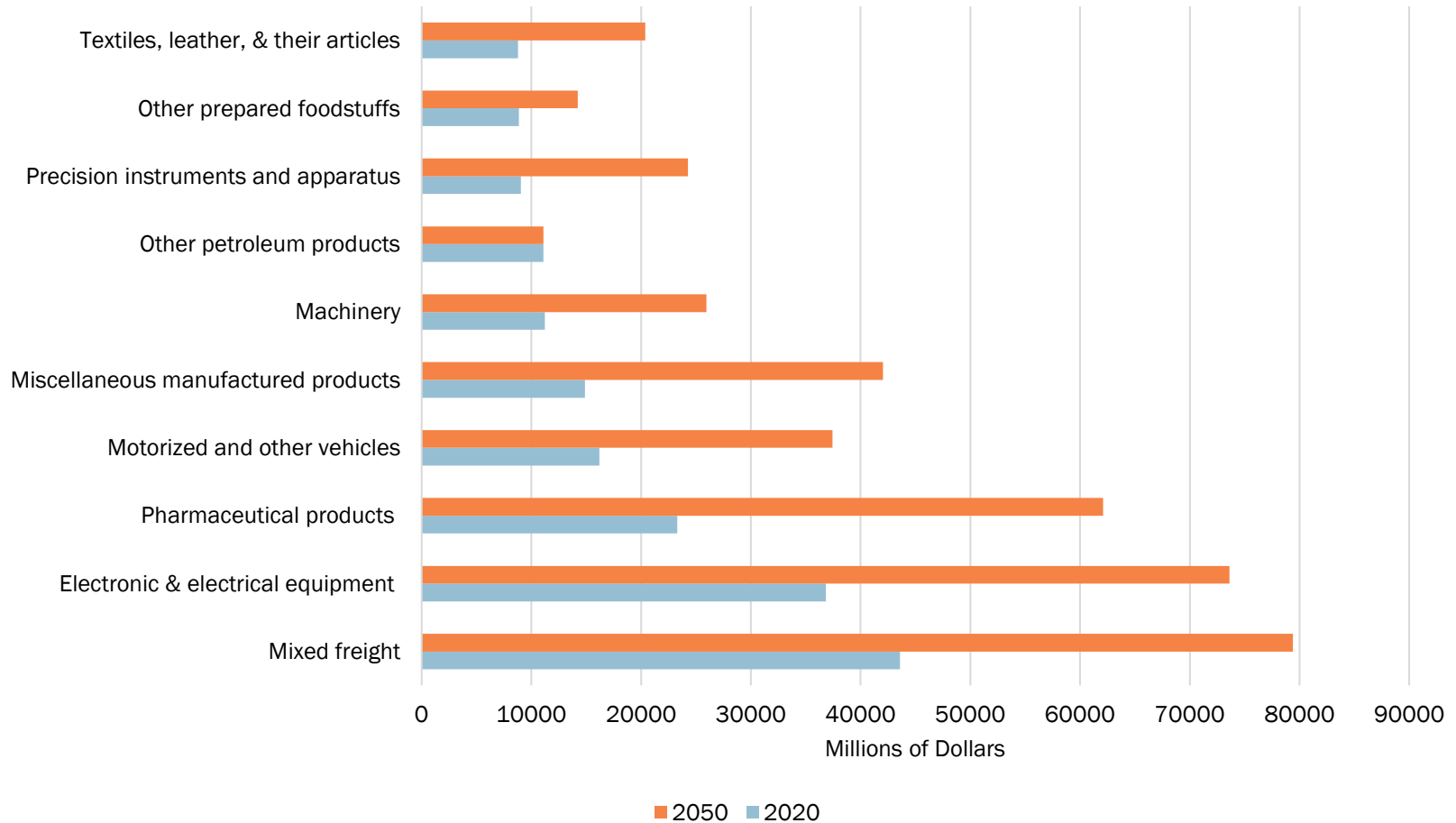
Air Cargo



Rank	City (Airport Code)	Total Cargo (metric tons)
1	Memphis TN (MEM)	4,613,431
2	Anchorage AK (ANC)	3,157,682
3	Louisville KY (SDF)	2,917,243
4	Los Angeles CA (LAX)	2,229,476
5	Miami FL (MIA)	2,137,699
6	Chicago IL (ORD)	2,002,671
7	Cincinnati OH (CVG)	1,300,758
8	New York NY (JFK)	1,104,480
9	Indianapolis IN (IND)	1,013,054
10	Ontario CA (ONT)	843,852
26	Baltimore MD (BWI)	269,976
33	Washington DC (IAD)	197,917

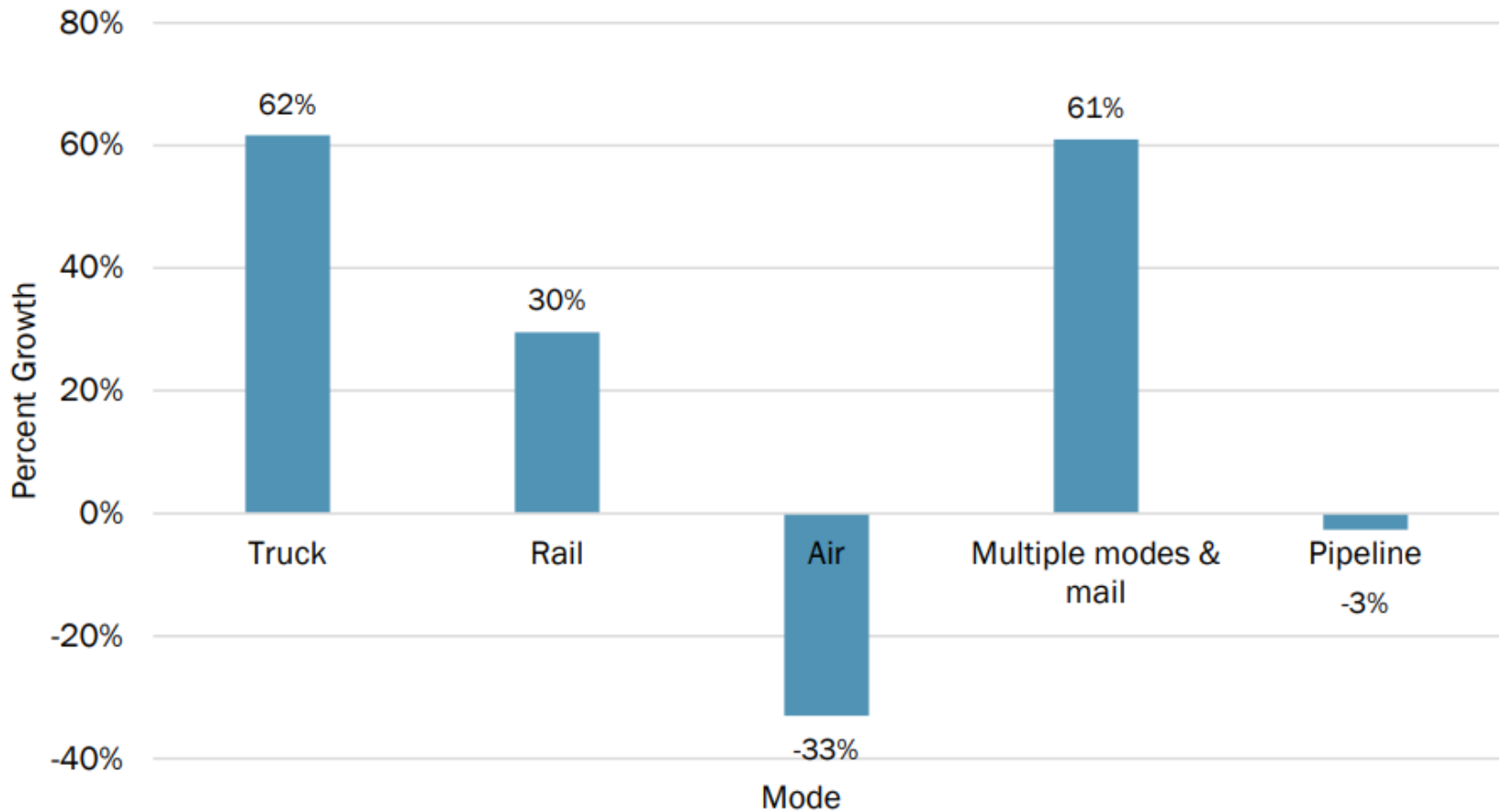
Source: Airports Council International, 2020
 Freight activity at DCA not within the top 100 U.S. airports.

Forecasted Growth in Regional Commodities by Value



Source: Freight Analysis Framework, FHWA

Forecasted Growth in Tonnage by Mode (2020-2050)



Source: Freight Analysis Framework, FHWA



Freight Impacts

Freight enables livability:

- The movement of goods is essential to ensure and maintain a high quality of life in the National Capital Region
- Freight-related industries represent 12% of employees in the National Capital Region

Freight considerations:

- Forecasting the need for future freight infrastructure and facilities to support the region's future population growth
- Reviewing and addressing freight movement is important to understand impacts on regional mobility, access, safety, and equity



Freight Policy Topics

- Advancing freight projects
- Supports related TPB plans and programs
- Supports investments that maintain a state of good repair
- Advancing environmental and resiliency goals, and reducing pollution
- Best practices
- Alleviating roadway bottlenecks
- Maximizing freight efficiency
- Equity impacts
- Economic development
- Facilitate livability
- Safety education, enforcement, and engineering strategies
- Routing hazardous materials, information sharing, and planned responses
- Freight performance measures
- Sustainable freight operations
- Supports freight technology and innovation



Actions to Strengthen the Freight Planning Process

- Continue to support the TPB Freight Subcommittee.
- Continue to maintain and strengthen private-sector participation in the TPB Freight Subcommittee.
- Continue to create opportunities to hold joint meetings with other TPB Subcommittees.
- Continue to host periodic regional freight forums.
- Continue to collect and analyze freight data and make data available to member jurisdictions and the public.
- Coordinate TPB's IJA freight-related activities.
- Continue to facilitate coordination with federal, state, local, and private-sector freight partners.
- Support TPB's Continuous Airport Systems Planning (CASP) program, which includes forecasting future air cargo needs.
- Continue to identify and communicate freight-related infrastructure issues to member agencies to address in their planning and programming activities.
- Strengthen relationships with local jurisdiction planners.
- Highlight economic development aspects of freight with local jurisdiction planners.



Strategic Regional Freight Planning Activities

- Advance policies and projects to convert commercial trucks to clean fuels in accordance with adopted TPB and COG goals.
- Deploy a regionwide robust electric vehicle charging network (or refueling stations for alternate fuels).
- Monitor the impact of freight movement within Equity Emphasis Areas.
- Continue to monitor technological developments in freight movement, such as autonomous and connected freight vehicles and unmanned aerial systems (drones).
- Continue to monitor key economic and industry trends impacting goods movement.
- Continue to monitor the development of new and emerging freight-relevant data sources and incorporate them into transportation planning activities as appropriate.
- Provide information to the TPB and freight stakeholders on the status or progress on this Plan's identified freight policies when such information becomes available.
- Monitor policies and efforts related to truck electrification and decarbonization of the freight industry in the National Capital Region.
- Ensure consideration of freight movement issues in regional curbside management planning.



Significant Regional Freight Projects

Additional freight projects to include?

Project	Jurisdiction	Lead Agency	Completion Date
Long Bridge VA-DC	Arlington, Washington, D.C.	VDOT	2030
Alexandria 4 th Track	Alexandria, Arlington	VDOT	2028
Size and Weight Enforcement Program	Washington, D.C.	DDOT	2045
Freight Planning Program	Washington, D.C.	DDOT	2045
I-70 South Mountain Welcome Center Truck Parking	Frederick County	MDOT SHA	2025

Source: Freight-related projects included in the FY2023-2026 TIP



Comments and Questions?



What's Next?

Upcoming Milestones

Date

Address comments from Freight Subcommittee

Mid-March

Present Revised Freight Plan to TPB Technical Committee

April 7

Submit Final Freight Plan Update to COG/TPB

May

Contacts

Andrew Meese (MWCOCG): ameese@mwkog.org

Walker Freer (ICF): walker.freer@icf.com

