



Minnesota State Freight Plan

Fall 2024 Summary

Overview of Summary Presentation for Today

1. Why are we updating the Plan?
2. What was the Engagement Process?
3. What is in the Plan?
4. Key Updates to the Freight Plan
5. Public Comments





Why are we Updating the Plan?

Why are we updating the plan?

- Each of the States are federally required to create a state freight plan and update that plan every four years
- Minnesota's State Freight Plan was last updated in 2018
 - Freight Investment Plan chapter amended in 2022
- Directly tied to \$21.6 million funding per year

Minnesota State Freight Plan

DEPARTMENT OF TRANSPORTATION

About the plan

The Minnesota Department of Transportation is updating Minnesota's State Freight Plan to improve freight access, reliability and connections across the state. The State Freight Plan was last updated in 2018 and there is a need to revise materials, collect new information and get input from current stakeholders about the issues and opportunities for improvement.



The State Freight Plan will:

- Gather perspectives from a wide variety of people with an intentional focus on communities who have historically been excluded from decision-making in freight planning.
- Be informed by past freight planning efforts, including the MnDOT District Freight Plans and the Manufacturer's Perspectives Studies.
- Connect to and inform the Minnesota Statewide Multimodal Transportation Plan.
- Dictate investments in the freight transportation system—highways, railroads, waterway ports and airports—to create a 20-year vision for the freight network.

Schedule

The State Freight Plan update has begun and will be completed in early summer 2024. Public and stakeholder engagement will primarily occur in fall and winter 2023.

- Phase 1** (OCT 2023 – JAN 2024): Create materials and develop messaging.
- Phase 2** (MAY – AUG 2024): Freight industry and public engagement with target audiences.
- Phase 3** (AUG – OCT 2024): Share findings and engagement results.
- Phase 4** (OCT – DEC 2024): Publish final draft for public review and revise with public input.

Project contacts

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Share your input and stay informed

Visit the project website to fill out a survey and subscribe to emails:
talk.dot.state.mn.us/state-freight-plan



If you need this information in an alternative format or language, contact:
• Si necesita esta información en un formato o idioma alternativo, póngase en contacto con: • Yoo koj xaw tau cov lus no txhais uas lus hmoob lossis xaw tau ib tus neeg pab txhais cov lus no rau koj, tiv tauj: • Haddii aad dooneysa in aad macluumaadkan ku hesho siyaabo kale ama afaf kale, la xiriir: • 651-366-4720 or ADArequest.dot@statemn.us

2021 FHWA Infrastructure Investment and Jobs Act (IIJA)

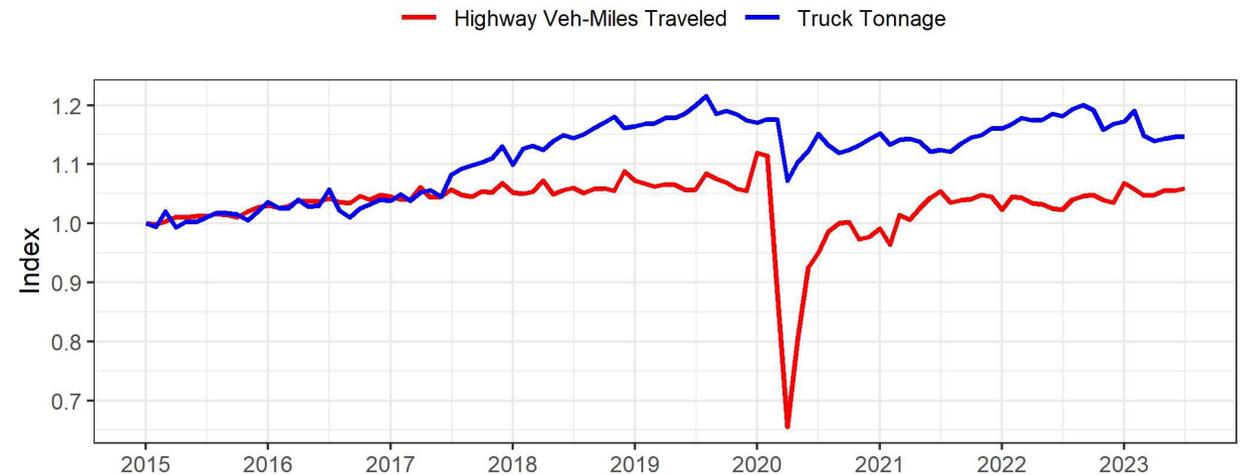
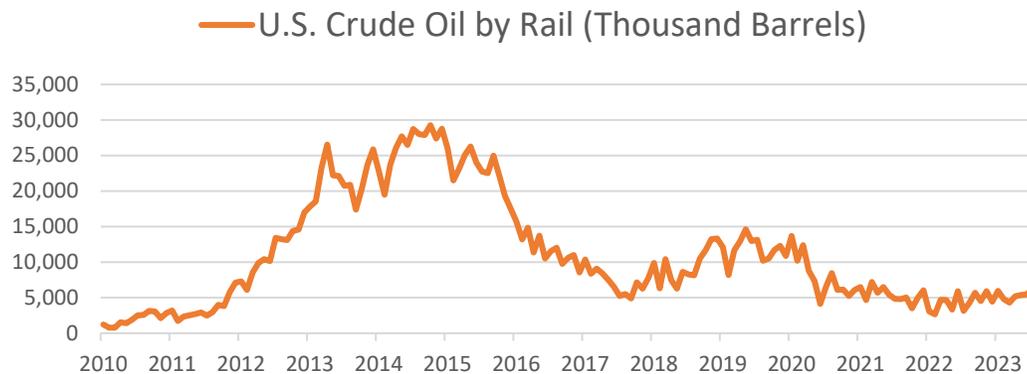
Updated Federal Plan Requirements:

- Identification of significant freight system trends, needs, and issues
- A description of freight policies, strategies, and performance measures that will guide the freight-related transportation investment decisions of the State
- States are strongly encouraged to consider **environmental justice and equity** in identifying and evaluating significant freight trends, needs, and issues across the State
- 16 New Congressionally Identified specific requirements: military freight, freight impacts on natural resources, ports inventory, truck parking needs analysis



What has changed since the last Freight Plan?

- COVID-19 Impacts and Recovery
 - Freight was impacted less and rebounded quicker than passenger travel
 - Increase in speed-related crashes due to less congestion during pandemic
- Hydraulic Fracking and Crude-by-Rail much less of an issue
 - More crude shipped via pipeline



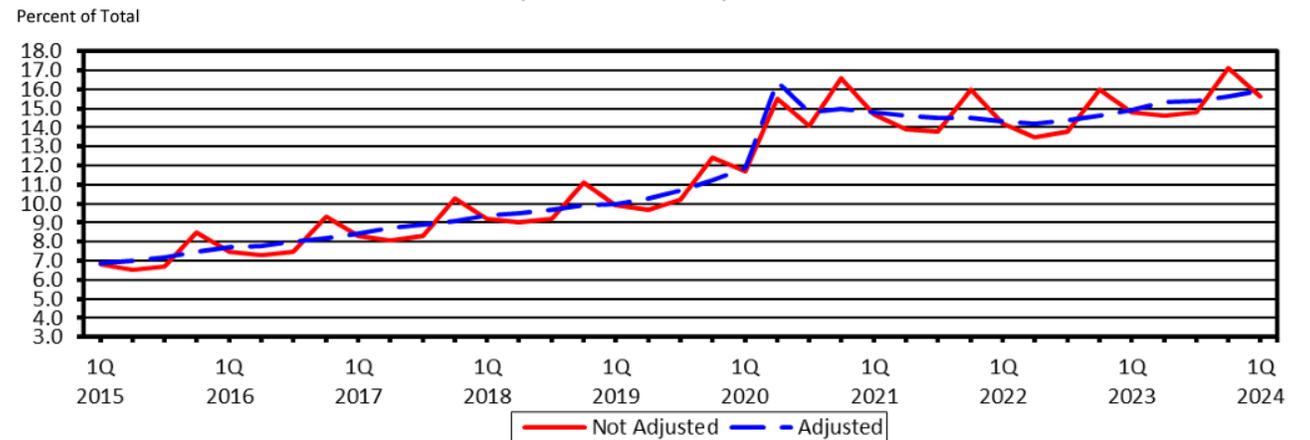
What has stayed the same?

- Interest in alternative fuels/technology (LNG/CNG, electrification)
- E-commerce still a major driver but plateauing as percent of retail sales
- On-/Near-Shoring supply chain shifts
- Truck Driver/Workforce Shortages



9/3/2024

Estimated Quarterly U.S. Retail E-commerce Sales as a Percent of Total Quarterly Retail Sales:
1st Quarter 2015 – 1st Quarter 2024



mndot.gov



How did we Engage the Public?

Public Engagement Strategies

- Postcards sent to residents near freight terminals
- Posters on community boards around the state
- Promotional video on YouTube



Minnesota State Freight Plan

About the plan
The Minnesota Department of Transportation (MnDOT) is updating Minnesota's State Freight Plan to improve how goods are transported across the state—by air, water, road, and railway. To ensure the voices of all Minnesotans are represented, we want to hear from those around the state who are impacted the most by freight decisions. You can play a role in our freight future. Let us know how freight impacts you, your community or your business.

We need your input!
Take our survey and help shape the future of Minnesota's freight system.
English <https://bit.ly/mnfreightsurvey-EN>

¡Necesitamos su opinión!
Responda nuestra encuesta y ayude a dar forma al futuro del sistema de carga de Minnesota.
Español <https://bit.ly/mnfreightsurvey-ES>

Waxaanu dooneynaa ra'yigaaga!
Ka qeyb qaada sahanka oo naga caawi qaabaynta mustaqbalka ee nidaamka xamuulka ee Minnesota.
Soomaali <https://bit.ly/mnfreightsurvey-SM>

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Project website
<https://talk.dot.state.mn.us/state-freight-plan>

DEPARTMENT OF TRANSPORTATION



Minnesota State Freight Plan

About the plan
The Minnesota Department of Transportation is updating Minnesota's State Freight Plan to improve how goods are transported across the state. We are gathering new information and getting input from as many people as possible. This will ensure it addresses current issues and opportunities for making freight access, reliability and connections better for everyone.

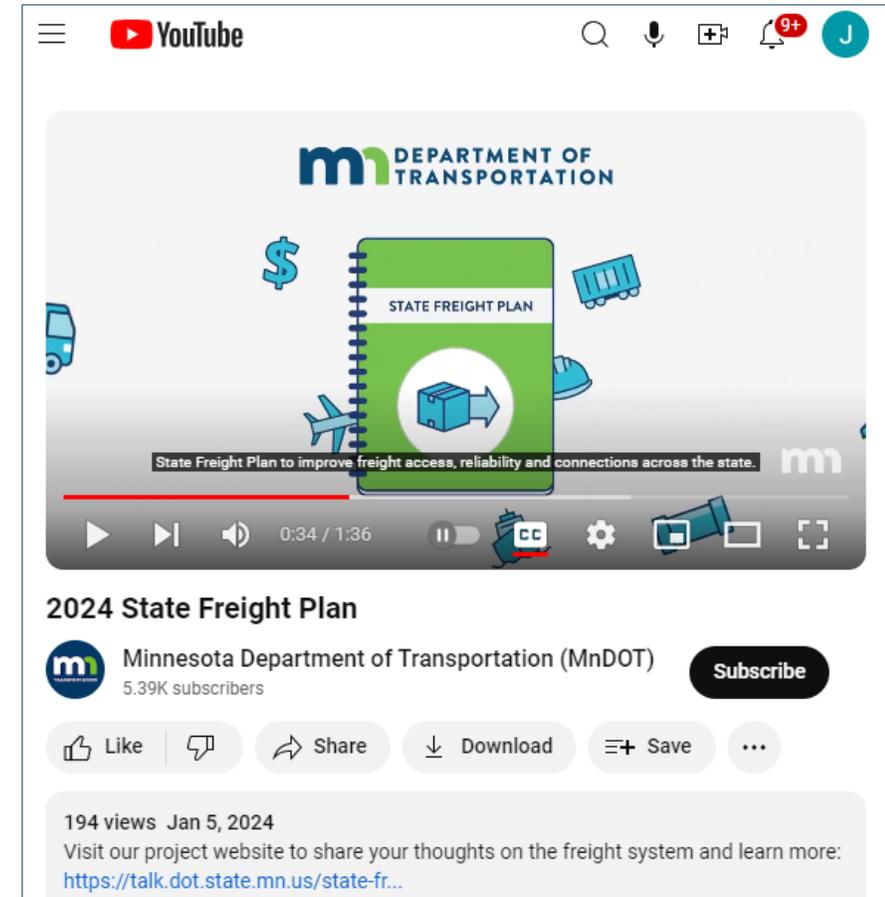
We need your input!
Share your ideas and get updates on the project:
www.StateFreightPlanMN.com

Why this matters: To ensure the voices of all Minnesotans are represented, we want to hear from those around the state who are impacted the most by freight decisions. You can play a role in our freight future. Let us know how freight impacts you, your community or your business. Take our survey and let us know about the freight issues that are most important to you.

Can't take the survey now? Take a reminder card for later!

Project contacts
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DEPARTMENT OF TRANSPORTATION



2024 State Freight Plan

Minnesota Department of Transportation (MnDOT)
5.39K subscribers

194 views Jan 5, 2024

Visit our project website to share your thoughts on the freight system and learn more:
<https://talk.dot.state.mn.us/state-fr...>

Community Events

- Pop-up tables to reach groups historically underrepresented in freight planning and with people who live near freight facilities
- Interactive freight priority activity and informational boards



Engagement Highlights

We had over **1,300** interactions with Minnesotans

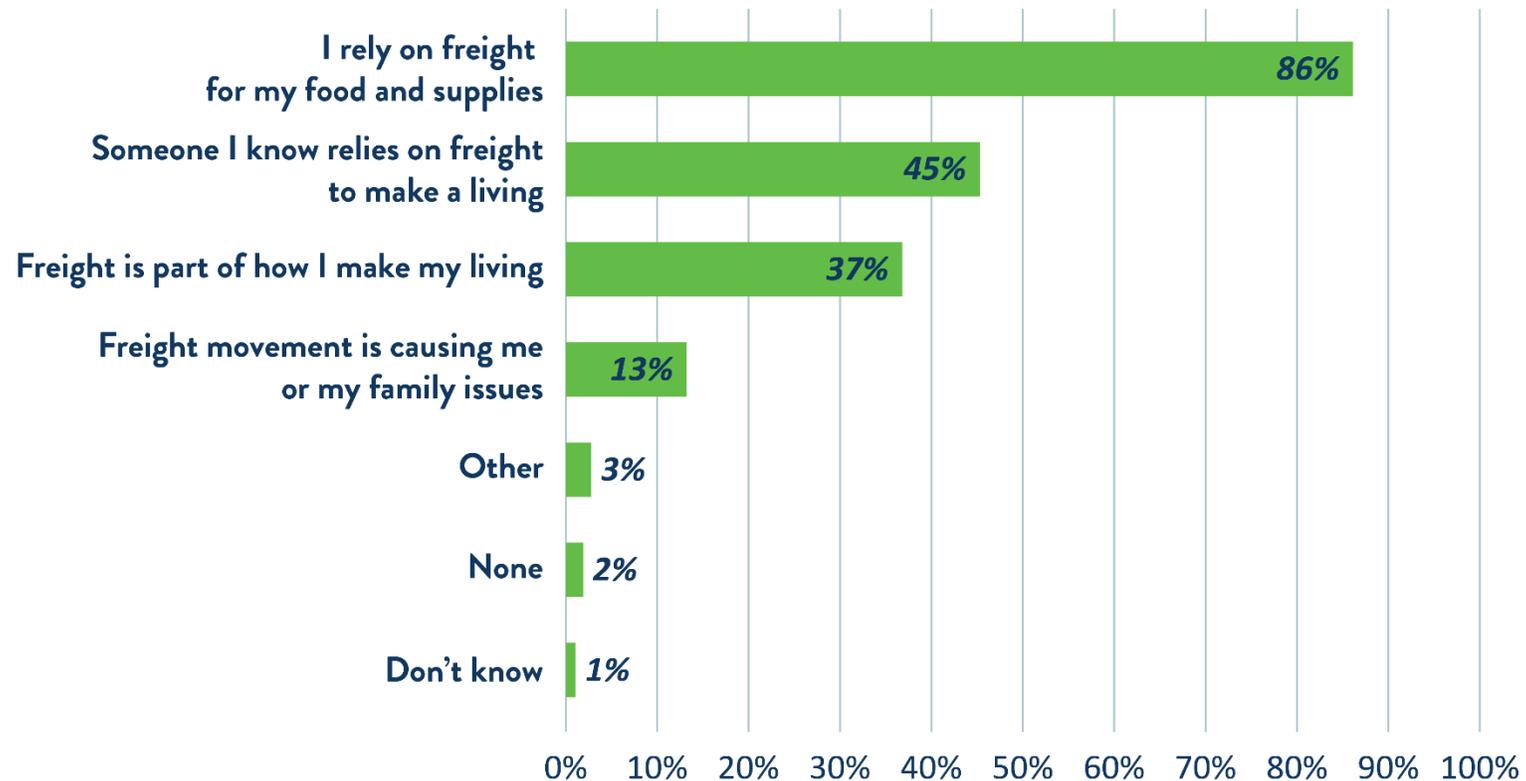


We told people about the project using several strategies



Engagement Highlights

How survey participants relate to freight



What We Heard From the Public

Traffic & Infrastructure

Residents mentioned truck traffic adds to congestion, creates safety issues with difficult merges, degrades pavement quality.

Truck Parking

Truckers said finding parking spots can be challenging; meanwhile, many residents concerned about trucks parking in their neighborhoods.

Environmental Impacts

Those living near highways, airports, and railroads all expressed concerns about air quality and noise pollution.

Mode Shift

Many recommended increasing freight rail relative to other freight modes due to its higher efficiency.

Rail Safety

Concerns over rail safety including derailments, aging railroad infrastructure, rail crossings, and transportation of hazardous materials.

Rising Cost of Delivery

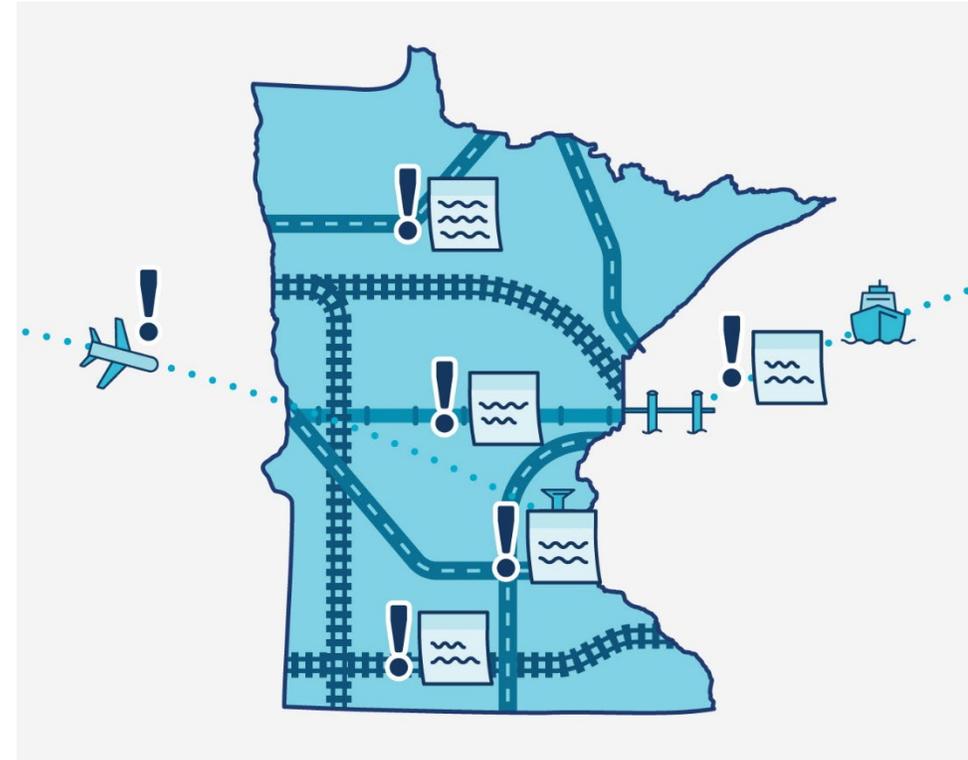
Many expressed concerns about high fuel costs impacting deliveries and the trucking industry.



What is in the plan?

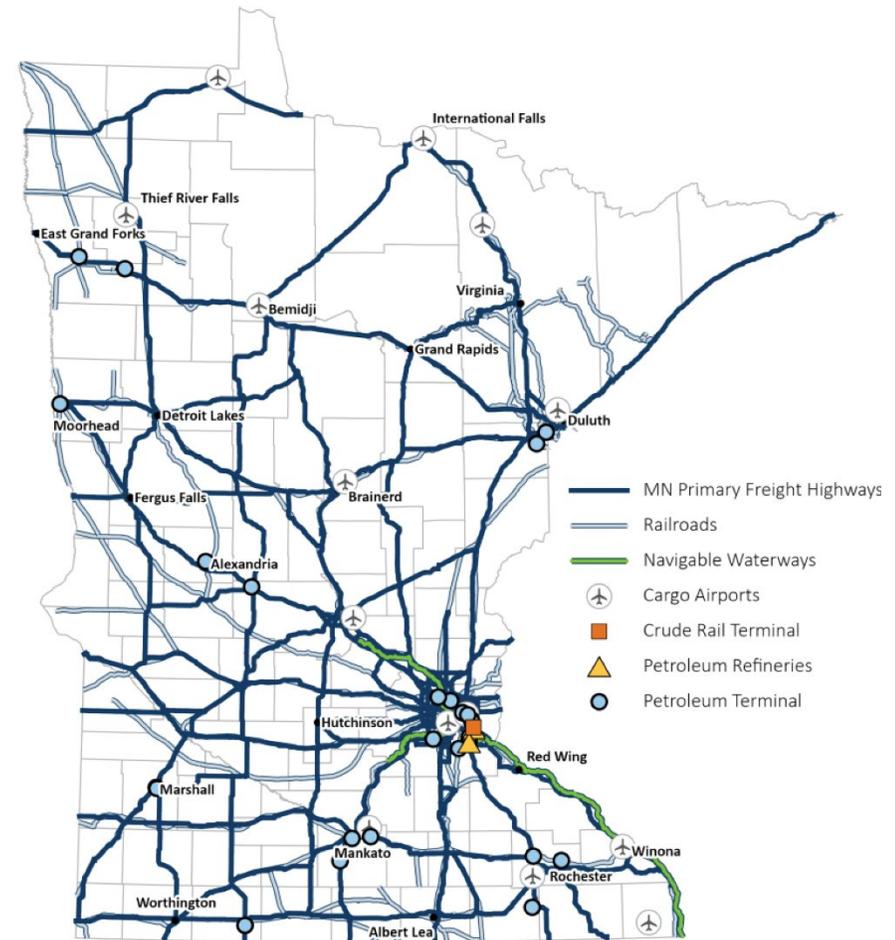
State Freight Plan What's In It?

1. Importance of Freight to Minnesota
2. Freight Issues and Trends Analysis
3. Freight System Assets, Conditions and Performance
4. Freight Forecasts
5. Freight Policies and Strategies
6. Sustainable Truck Strategies and Actions
7. Statewide Freight Needs Analysis
8. Freight Investment Plan



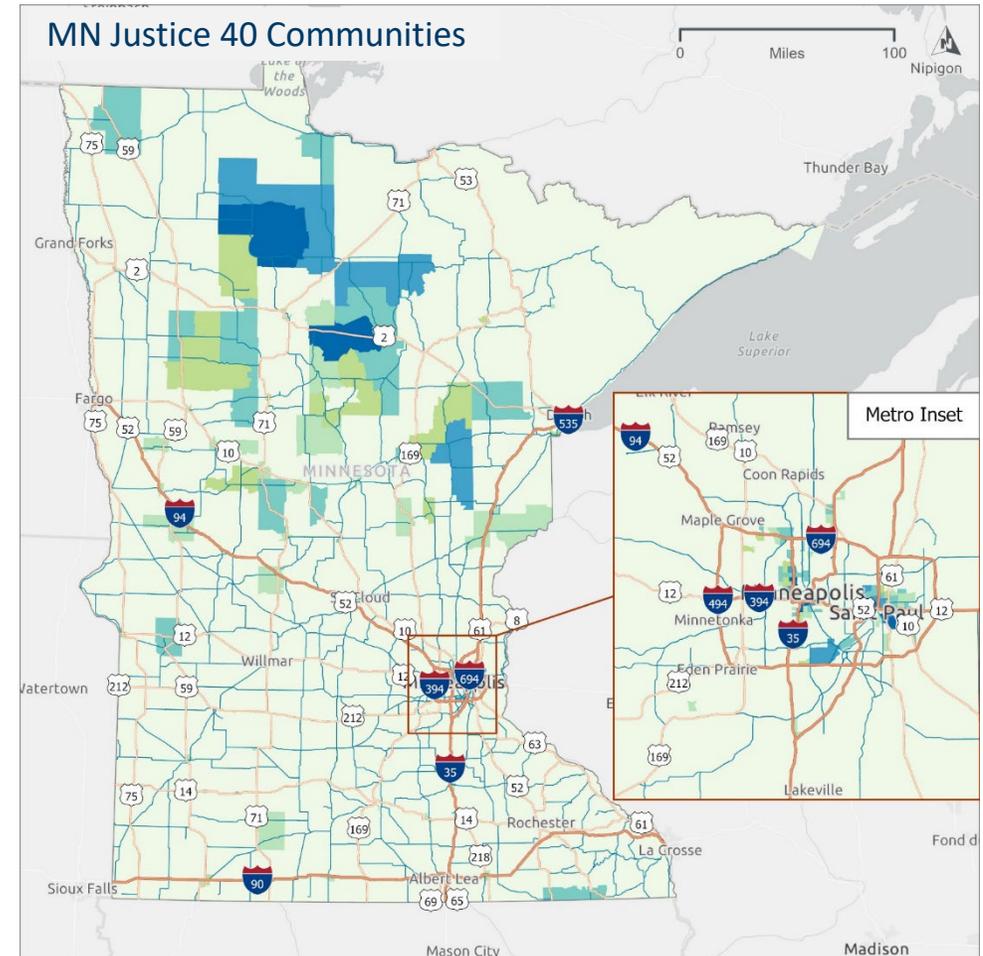
What's Different in the Plan?

- Stakeholder Engagement focused on EJ communities
- Plan updated to comply with new federal requirements
- New Freight Investment Plan Chapter
- Identified new sustainable truck strategies and actions
- Estimated statewide freight needs to connect into MnSHIP



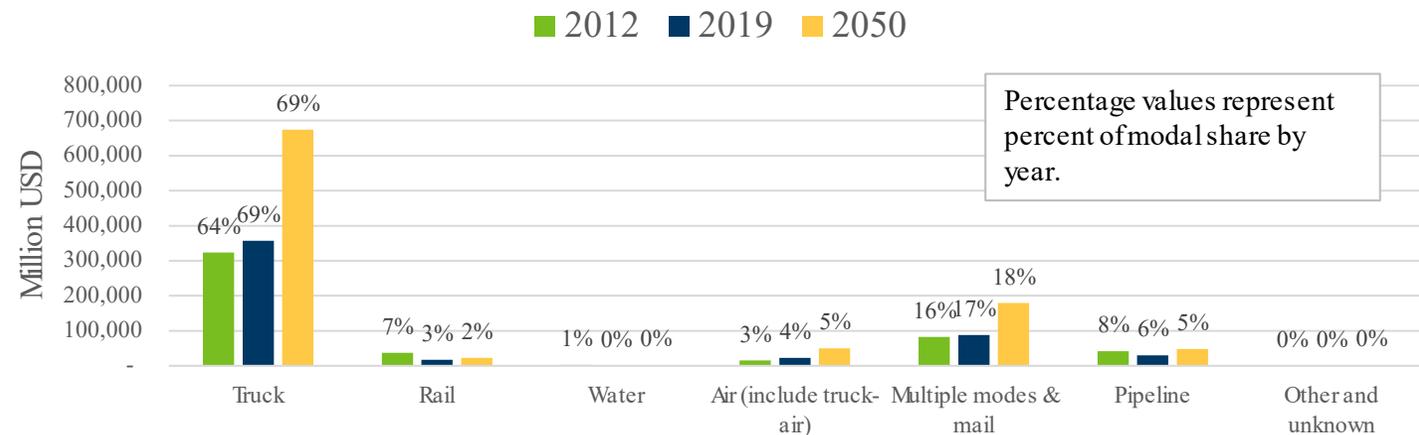
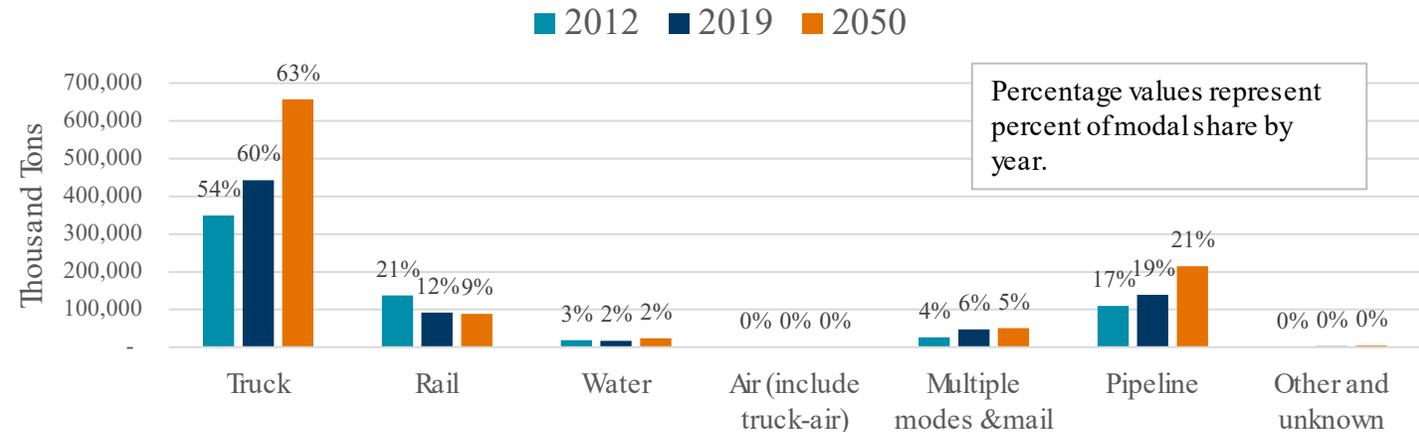
Justice 40 Communities

- Community impacts from the freight sector, such as air pollution and noise, have been longstanding issues.
- Communities near freight facilities, often with larger percentages of people of color or low-income households, disproportionately experience harmful health effects.
- For a statewide approach to understanding the extent of freight impacts on disadvantaged and vulnerable communities, an environmental justice analysis was conducted
- Substantial overlap with state-defined EJ areas, but not as extensive.



Freight Flow Changes by Mode

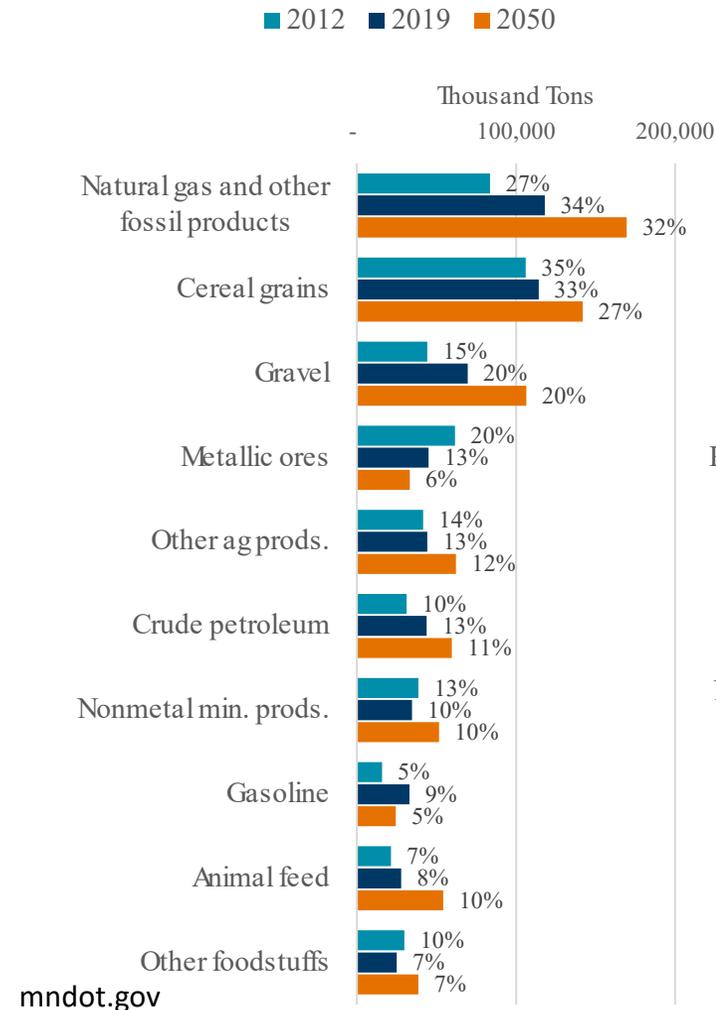
- Total annual freight tonnage into/out of/within Minnesota increased by 15% between 2012 and 2019
- Projected to grow another 40% by 2050
- Truck and Pipeline the largest modes by tonnage
- Truck and Multiple Modes the largest by value



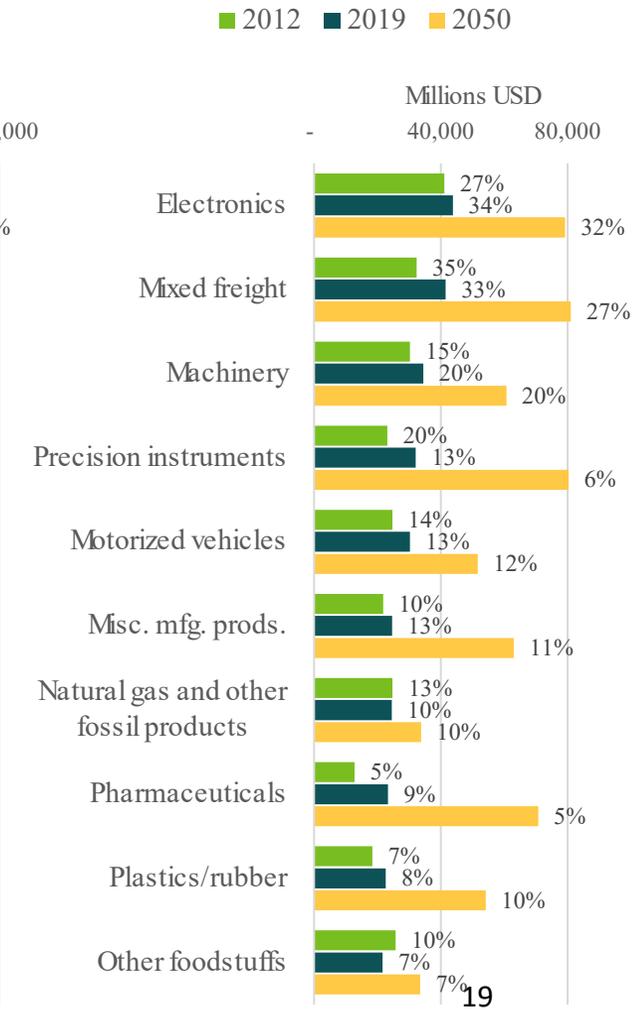
Freight Flow Changes by Commodity

- Top commodities by weight are natural gas, fossil fuel products, cereal grains, gravel.
- Top commodities by value are electronics, mixed freight, machinery, precision instruments.

Top 10 Commodities by Tonnage



Top 10 Commodities by Value





Key Updates in the Plan

New Key Freight Plan Goals

New Freight Plan Goals:

1. Improving Freight Safety
2. Safeguarding our Health and Environment
3. Connecting Minnesotans and Businesses
4. Supporting Minnesota's Economy
5. Advancing Freight Innovation and New Technology
6. Freight System Stewardship

Sustainable Truck Strategies

- Different technologies for different freight needs
 - Short-haul, local service more suited to electrification
 - Long-haul service more suited to hydrogen technology
- Strategies Identified for short-term, medium-term and long-term:
 - Remove/Replace Older Medium-/Heavy-Duty (MHD) Vehicle from service through incentivization, retrofit, or replacement programs.
 - Develop Zero Emission and Clean MHD Vehicle Transition Plan for Public Fleets.
 - Support a Public Charge-as-a-Service Facility in the Metro Area.
 - Develop Sustainable Truck Coordination/Working Group

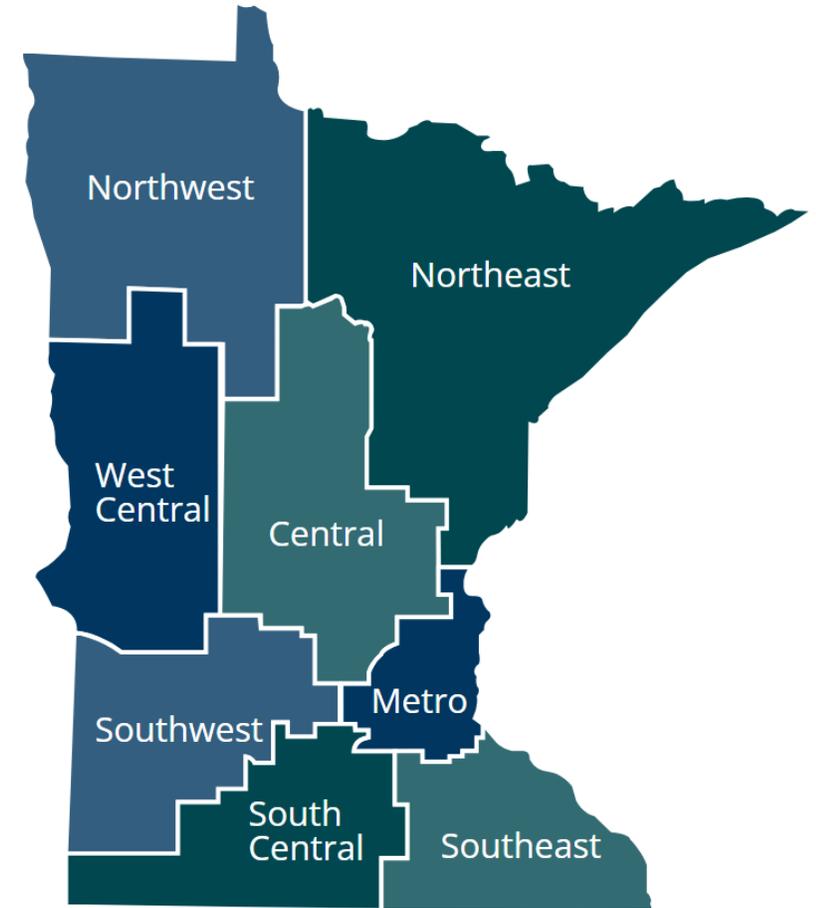
Freight Action Agenda

- Developed in collaboration with Minnesota Freight Advisory Committee
- 24 total recommended actions to work on over the next 20 years in short, medium and long term

ID	Action Description	Roles	Timeframe	Objective(s)
 Goal 2: Improve Freight Safety				
10	Incident Management and Emergency Response Plans Develop emergency plans to ensure critical supply chain connectivity and proactively route hazardous materials	Lead: Minnesota Office of Public Safety Partners: MnDOT, public and private sector freight stakeholders	Short-term	<ul style="list-style-type: none"> ✓ Improve Freight System Safety ✓ Improve Freight Mobility, Velocity, and Reliability in Minnesota
11	Design for Freight Safety Design and implement geometric features that improve freight safety across modes including on roadways, across railroads, ports, and other facilities.	Lead: MnDOT	Short-term	<ul style="list-style-type: none"> ✓ Improve Freight System Safety
12	Address Truck Parking Needs Address the statewide truck parking shortage by working with public and private sector partners to identify truck parking needs, invest in new and existing sites and maintain truck parking availability information systems.	Lead: MnDOT Partners: Public and private sector freight stakeholders, neighboring states	Short-term	<ul style="list-style-type: none"> ✓ Strategically Invest in New Freight Infrastructure
13	Improve Freight Rail System Safety Building on the work of the State Rail Plan and the Railroad At Grade Crossing Safety Action Plan, implement the key findings from each focusing on rail safety improvement projects through the Minnesota Railroad Service Improvement Program, the At Grade Crossing Safety Program, the Antiquated Equipment Program, and others.	Lead: MnDOT Partners: Public and private sector freight stakeholders, Minnesota Department of Public Safety	Short-term	<ul style="list-style-type: none"> ✓ Improve Freight System Safety
14	Invest in New Freight Technology Support the implementation and advancement of connected and autonomous vehicles, truck parking information management systems, work zone in cab safety messaging and others.	Lead: MnDOT Partners: FHWA	Short-term	<ul style="list-style-type: none"> ✓ Strategically Invest in New Freight Infrastructure
 Goal 3: Connect Minnesotans and Businesses				
15	Improve First- and Last-Mile Connections Encourage the development of first and last mile connecting infrastructure and operational programs, such as highway access and rail spurs to local businesses	Lead: MnDOT Partners: Various state, regional and local planning and economic development agencies	Mid-term	<ul style="list-style-type: none"> ✓ Improve Freight Mobility, Velocity, and Reliability in Minnesota ✓ Support and Grow Minnesota's Freight Industries
16	Support Freight Modal Balance Encourage modal balance and redundancy within key trade corridors so that businesses have access to a variety of cost-effective and competitive freight modes to ship their goods.	Lead: MnDOT Partners: Public and private sector freight stakeholders	Mid-term	<ul style="list-style-type: none"> ✓ Improve Freight Mobility, Velocity, and Reliability in Minnesota

Connecting to District Freight Planning Processes

- Ground up approach
- Connecting data from the Manufacturer Perspectives' Studies and the District Freight Plans



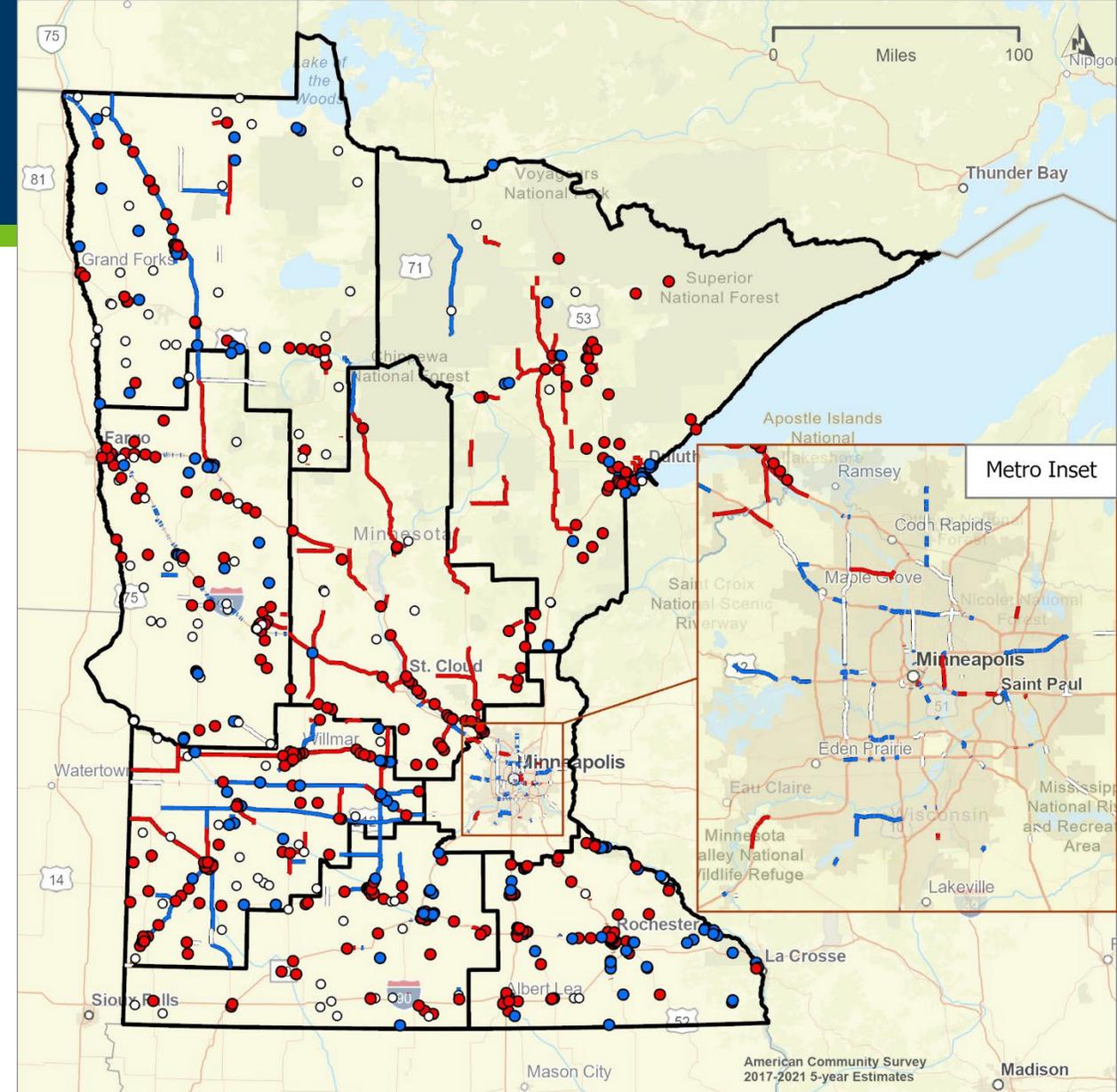
Freight Needs Statewide

Estimated Range of Freight Needs Statewide:

\$1.1 Billion (low) - \$1.9 Billion (medium)

MnSHIP Investment level need of \$1.3 Billion for roadway freight

District	Condition	Mobility	Safety	Total
D1	8	26	75	109
D2	34	36	57	127
D3				-
D4	29	105	72	206
DM	48	68	17	133
D6	4	142	183	329
D7	17	30	93	140
D8	25	39	113	177
Total	165	446	610	1,221



Public Input – Comment Period is Open Now

- Full Draft Plan is posted online at: www.minnesotago.org/final-plans/state-freight-plan
- You can provide feedback on the State Freight Plan by emailing comments to FreightPlans.DOT@state.mn.us
- Or by mail to:
 - Office of Freight and Commercial Vehicle Operations
 - Attn: Andrew Andrusko
 - Minnesota Department of Transportation
 - 395 John Ireland Blvd, MS 050
 - Saint Paul, MN 55155

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