



COLORADO
Department of Transportation
Freight Mobility & Safety Branch



Colorado Freight Plan

Statewide Transportation Advisory Committee

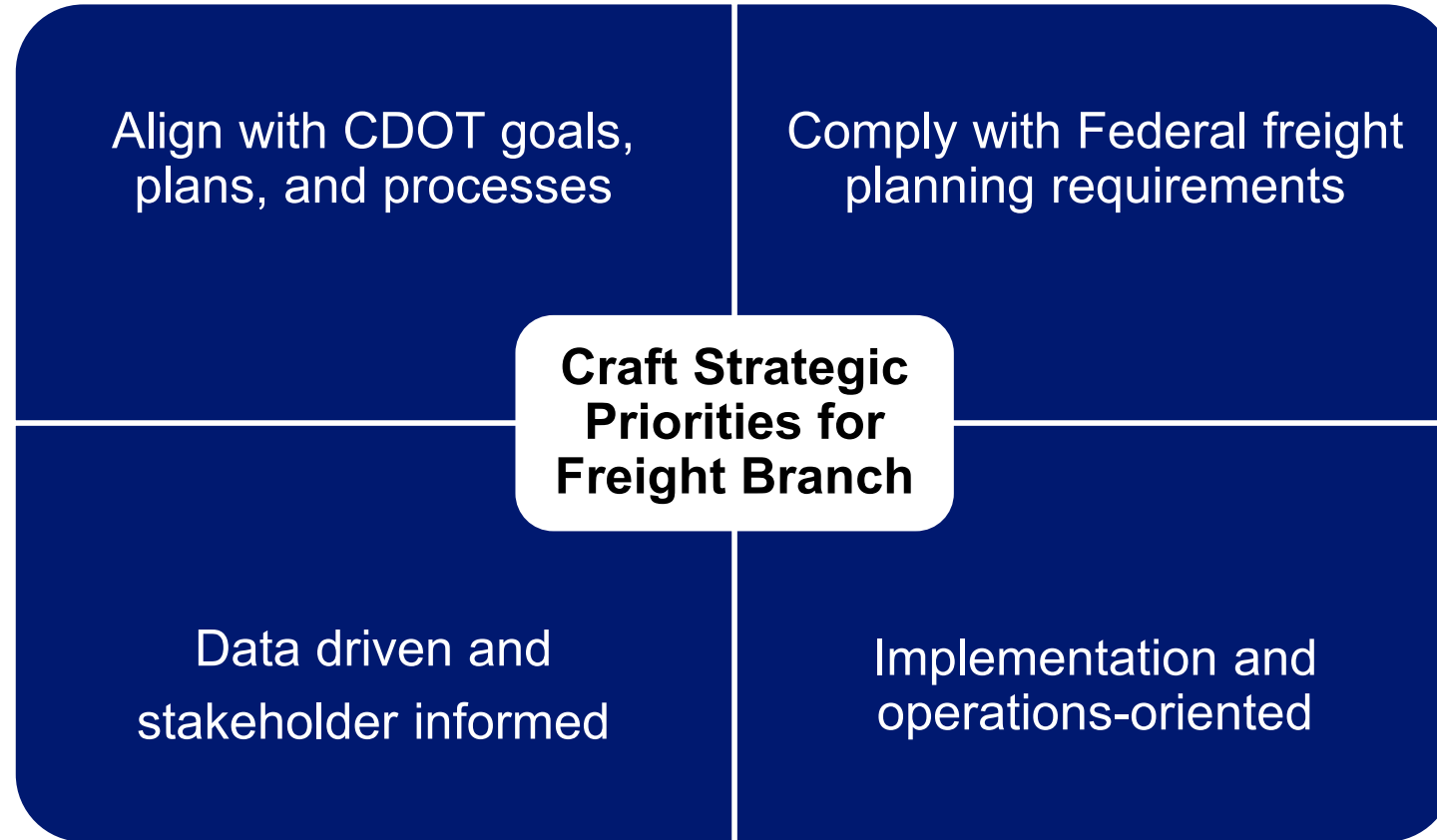
January 4, 2024



Freight Plan Purpose



Guiding Principles and Key Outcomes

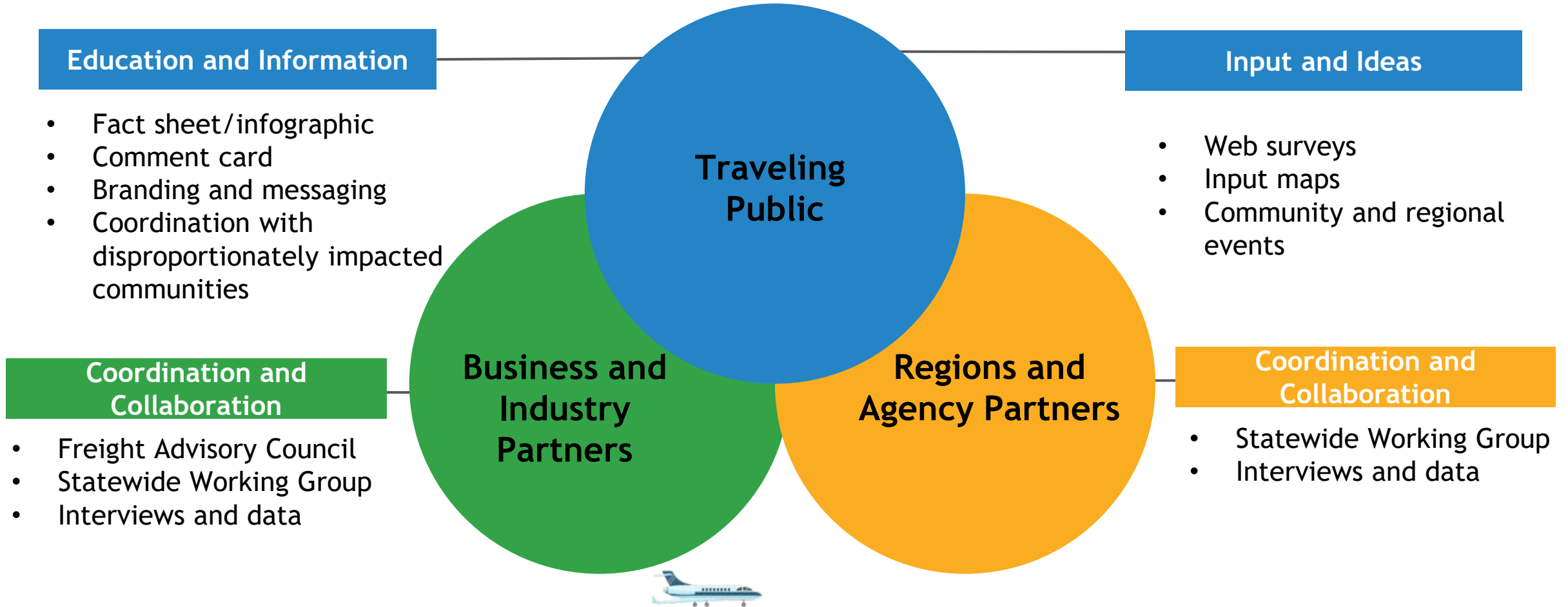


Alignment State and Federal Goals

Colorado Freight Plan Goals	Safety & Security	Mobility	Maintenance	Economic Vitality	Sustainability & Resiliency
National Freight Goals	Safety and security	Congestion Reliability Goods Movement Innovation and Technology	State of Good Repair	Economic Efficiency and Productivity Multi-State Planning	Resiliency Environmental
Colorado Wildly Important Goals	Advancing Transportation Safety	Accountability and Transparency		Statewide Transit	Clean Transportation



Engagement and Outreach Approach



Public Outreach Results

In-Person Events



Hot Topics:

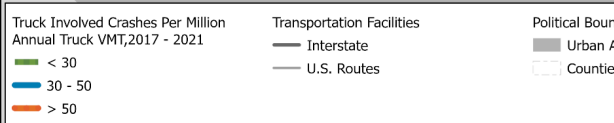
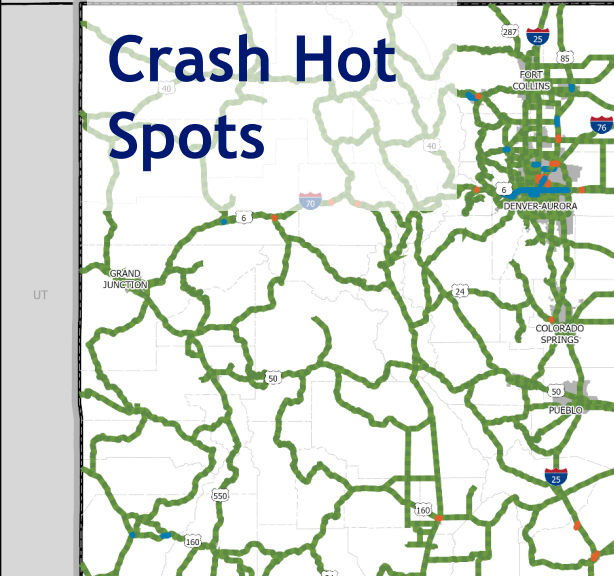
Colorado Freight Plan Survey Participants



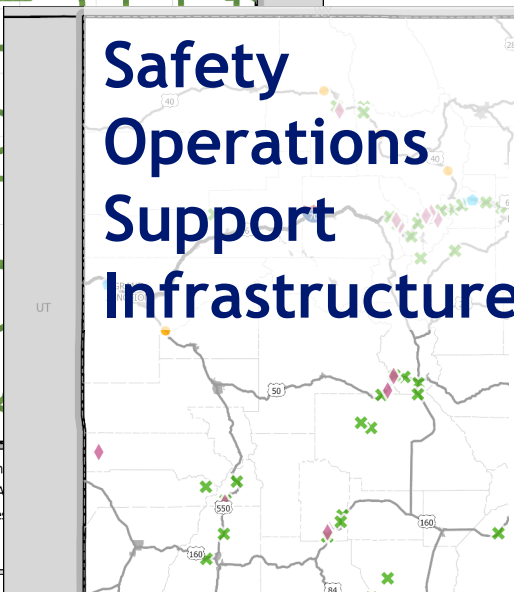
Safety and Security



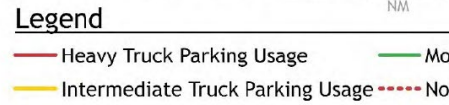
Crash Hot Spots



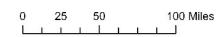
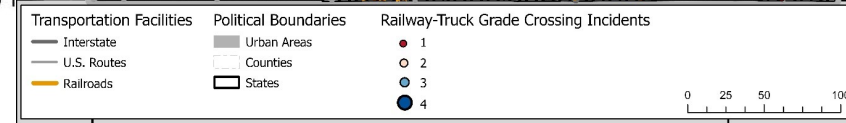
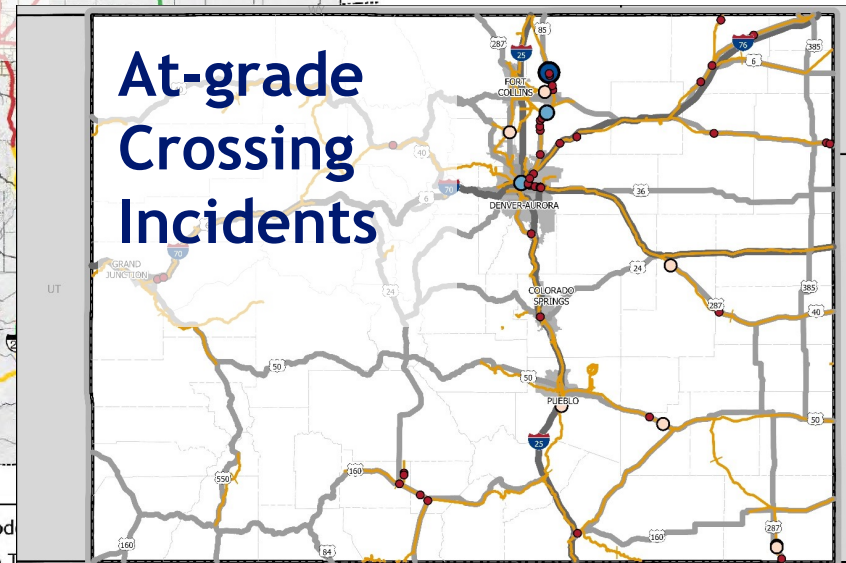
Safety Operations Support Infrastructure



Truck Parking Priorities



At-grade Crossing Incidents



Safety Strategies

Commercial Vehicle Safety

Truck Parking

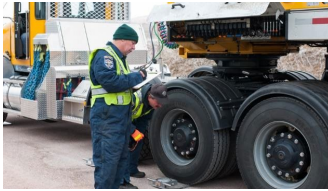
- Prioritize Truck Parking Investments
- Emergency Truck Parking
- Truck Parking Information
- Truck Parking Partnerships

Operational Safety Enhancements

Rail Safety

Safety Data

Communications



The Mountain Rules I-70 Mountain Corridor Overview

Watch on YouTube

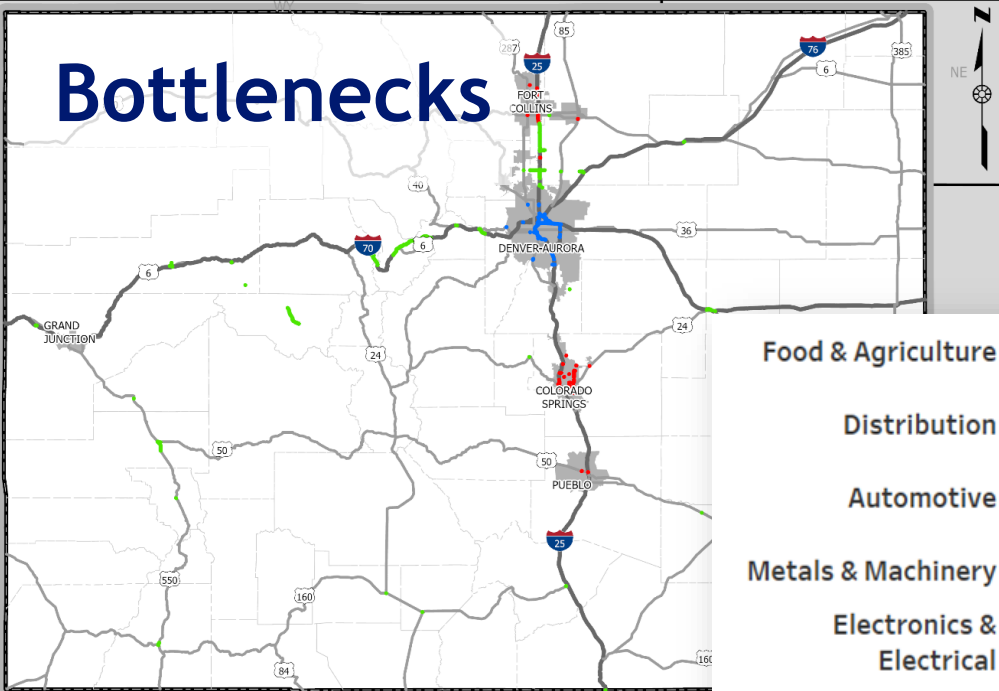
Hot Brakes, Runaway Truck Ramps & Summer Driving | Truck Safety and Winter Driving in Colorado | Construction Zone Safety



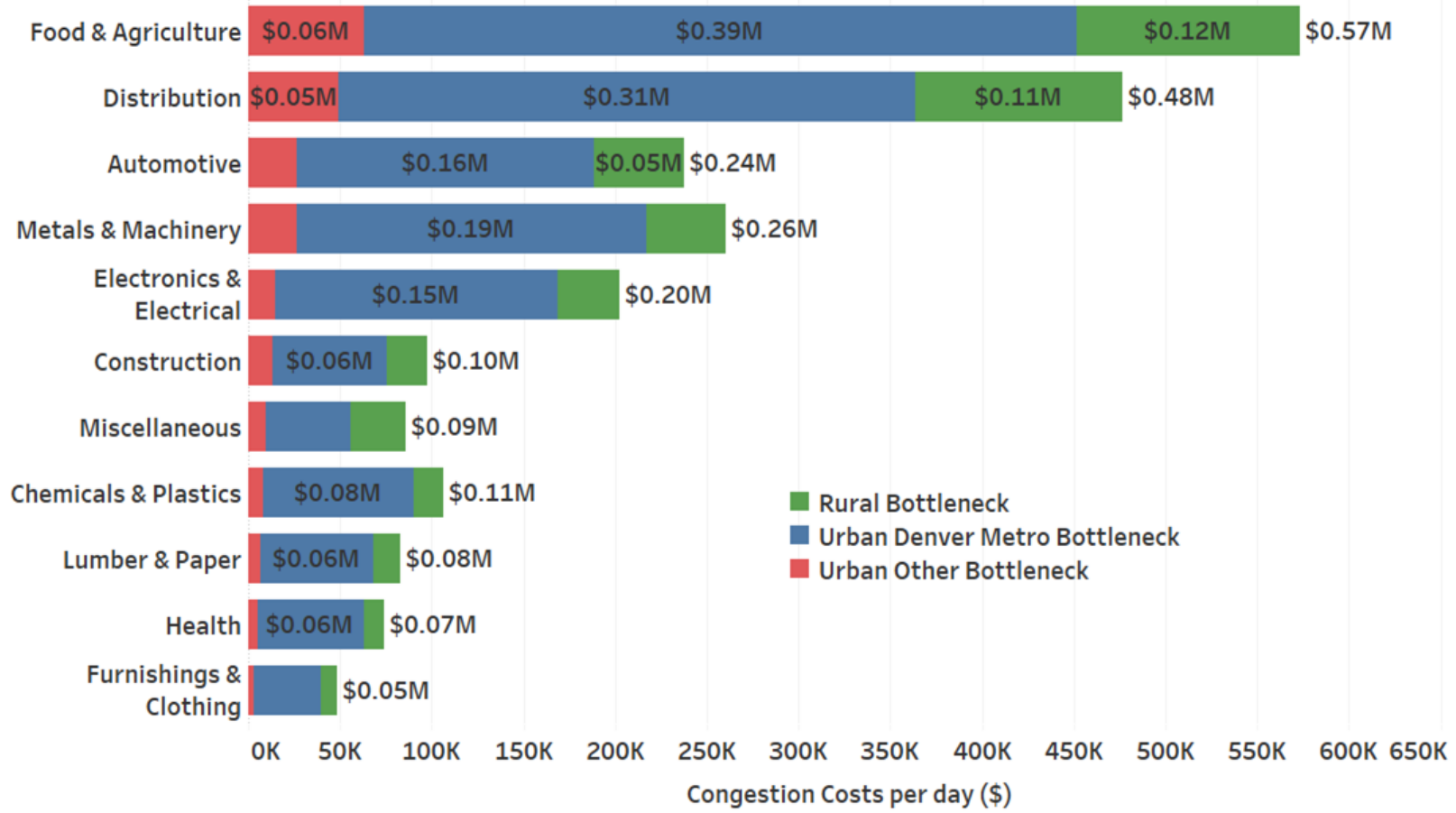
Mobility



Bottlenecks



Cost of Congestion per day



Congestion Bottleneck
 - Urban Denver Metro Bottleneck (Blue)
 - Urban Other Bottleneck (Red)
 - Rural Bottleneck (Green)

Transportation Facilities
 - Interstate (Thick Grey Line)
 - U.S. Routes (Thin Grey Line)

Political Boundaries
 - Urban Areas (Grey Shaded)
 - Counties (Thin Grey Outline)
 - States (Thick Grey Outline)

Source: WSP analysis of NPMRDS data.



Mobility Strategies

Mobility Data

Incident Management

Management and Operations

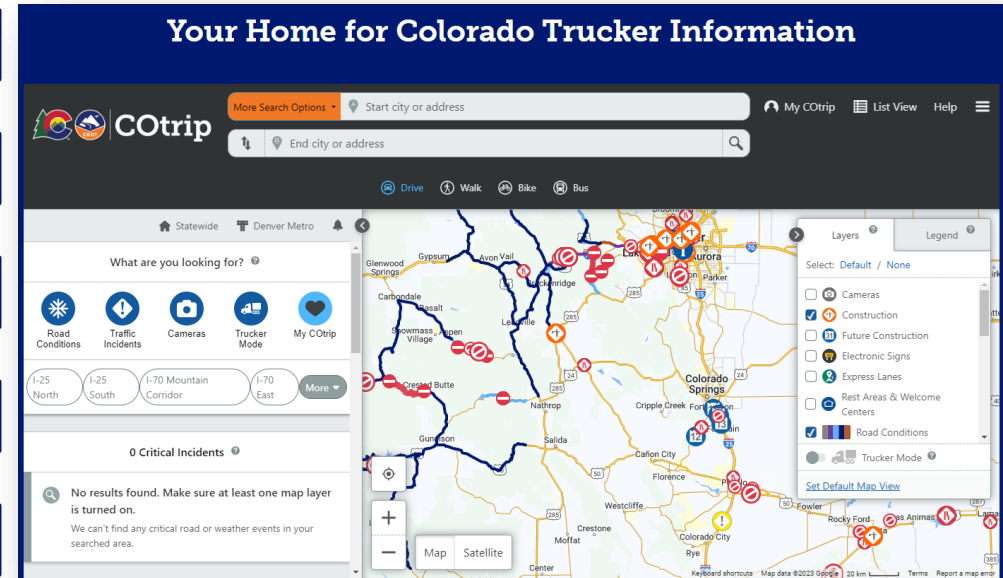
Freight Coordination

Freight Information

Freight Technology

At-grade Railroad Crossings

Military Freight



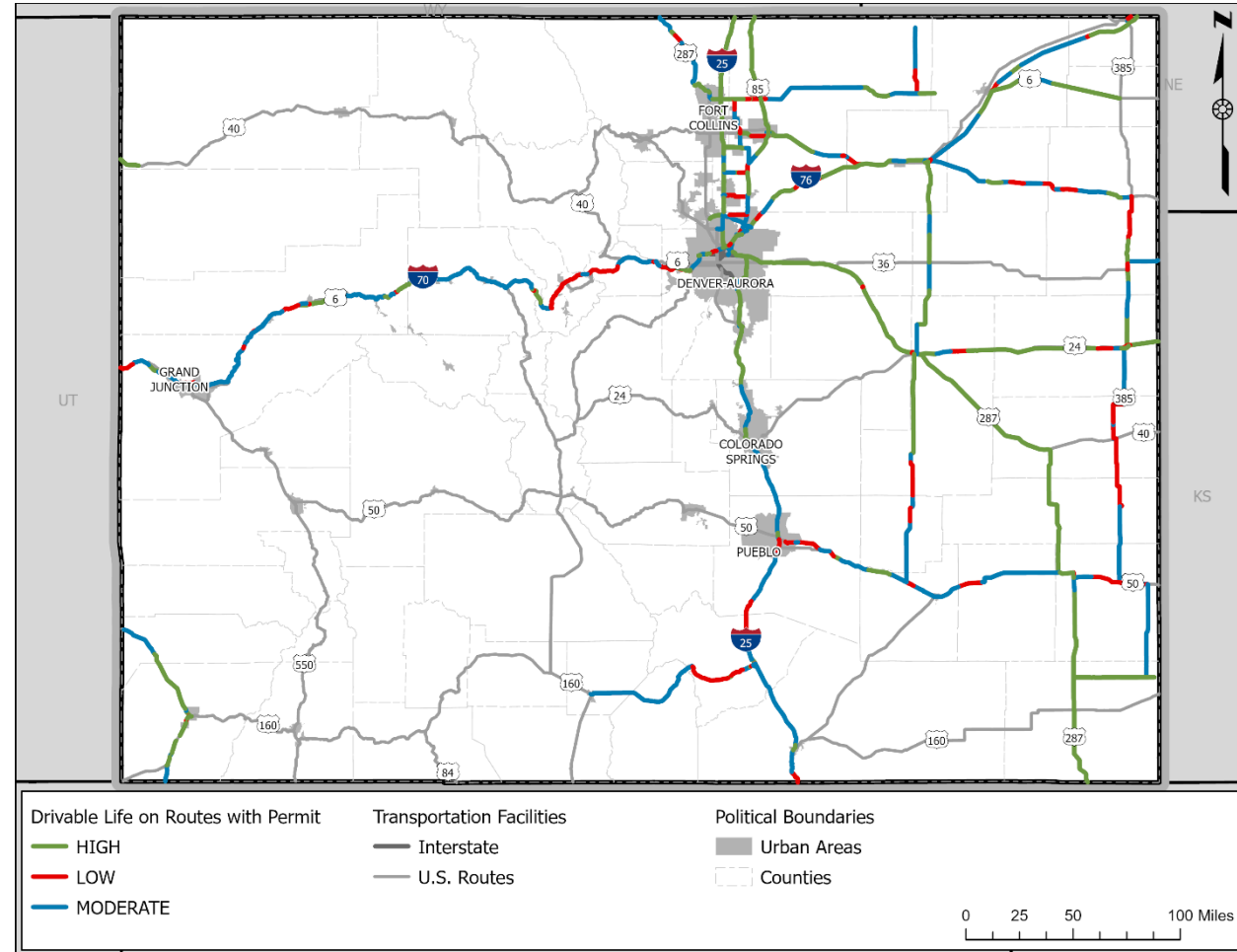
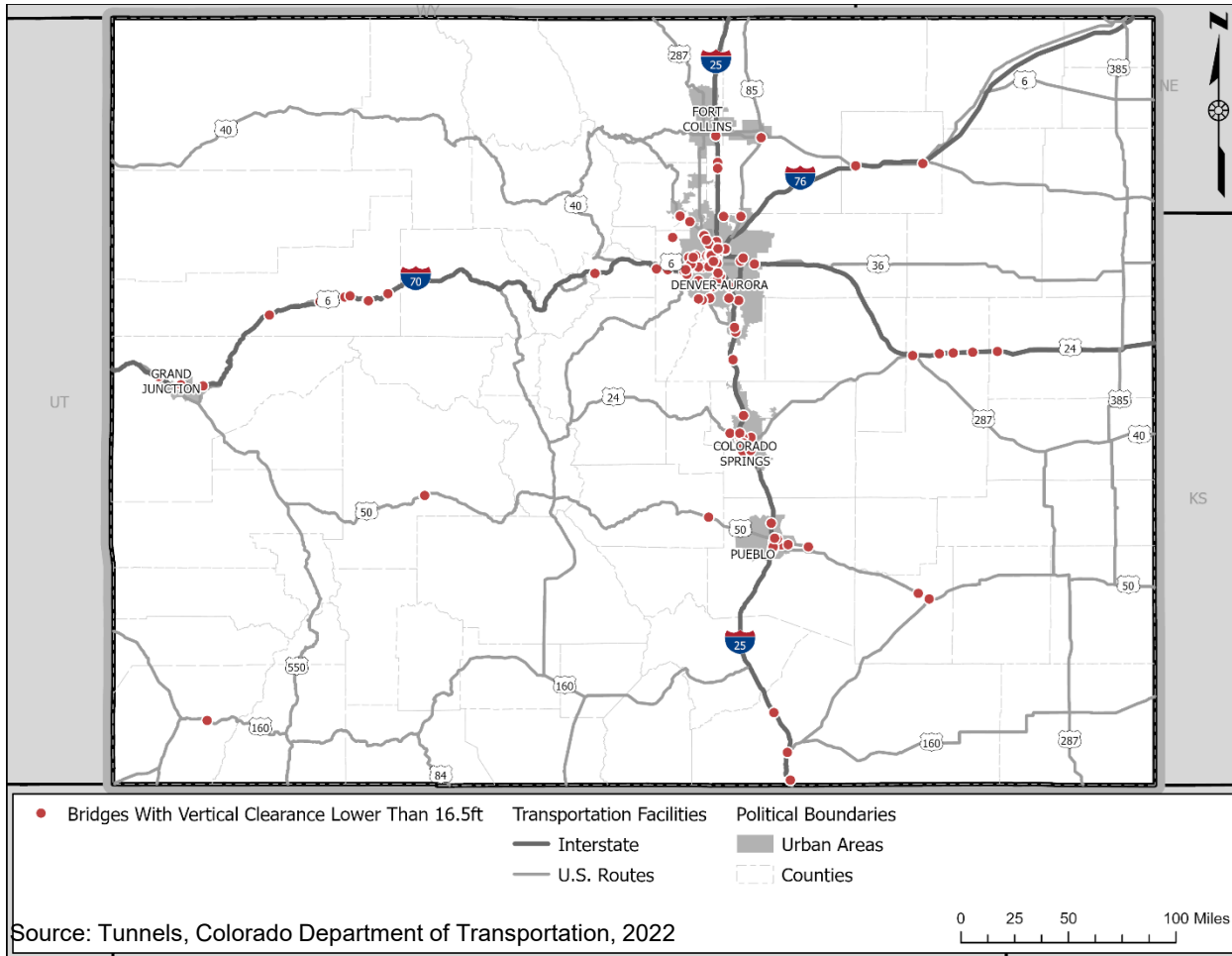
Maintenance



Bridge Restrictions and Pavement Condition

Bridges with Vertical Clearance Lower than 16.5 feet

Drivable Life on Primary Over-dimensional Permit Routes



Maintenance Strategies

Bridge Constraints

- Identify and prioritize bridges on freight corridors

Freight Rail Condition

System Condition

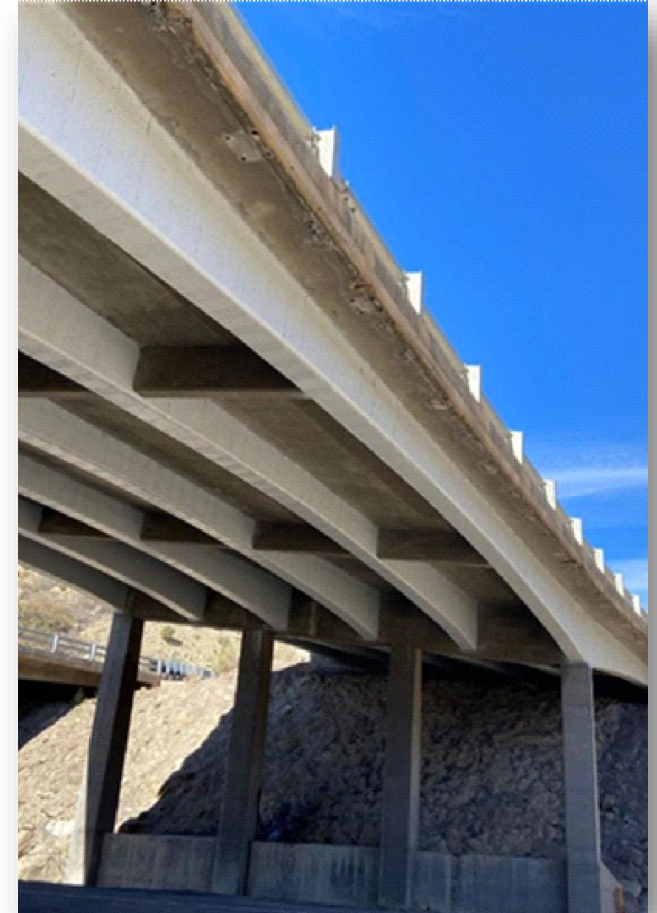
- Identify and implement maintenance and improvement projects

Mitigate Pavement Deterioration

Sustainable Funding

- Identify sustainable funding sources

Timber Bridge Replacement Program

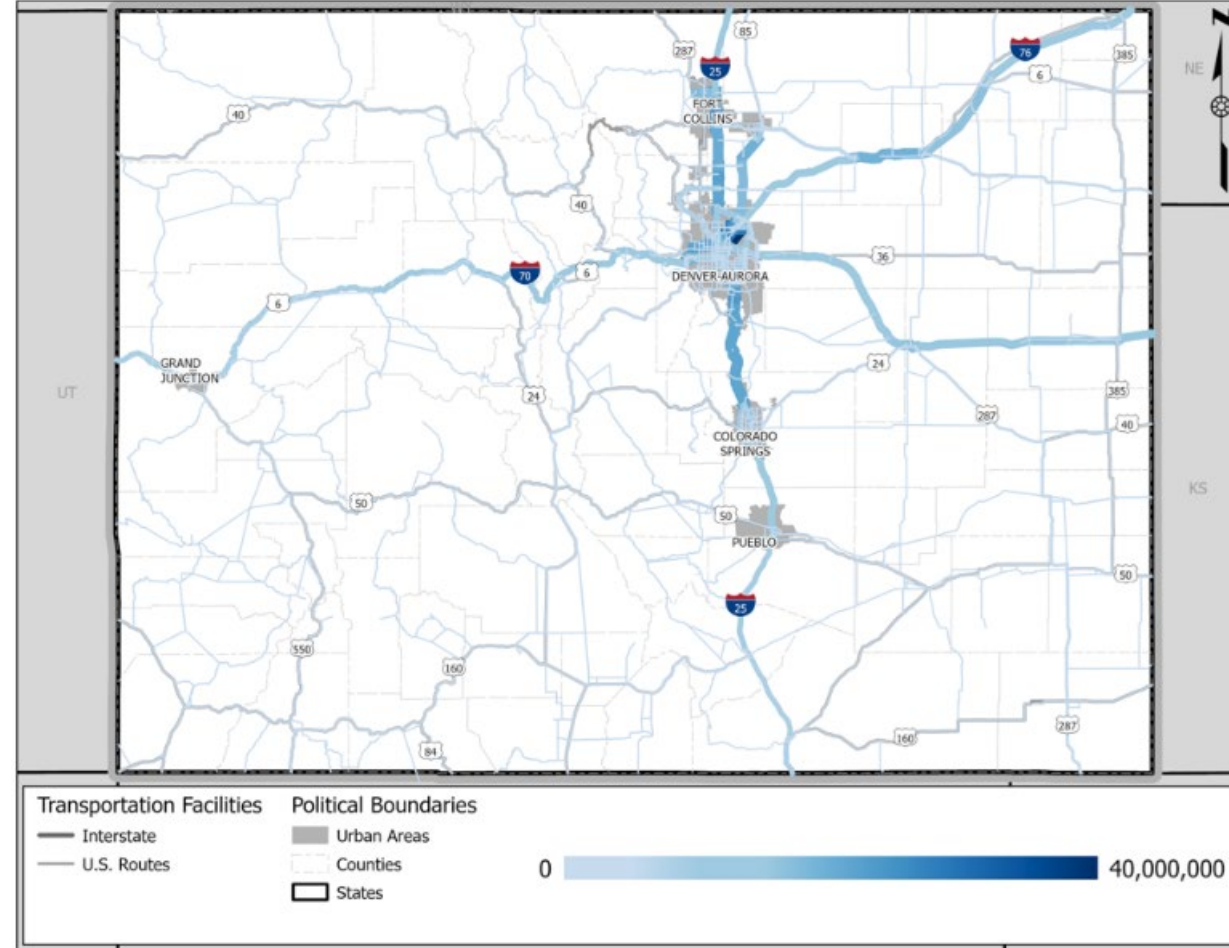
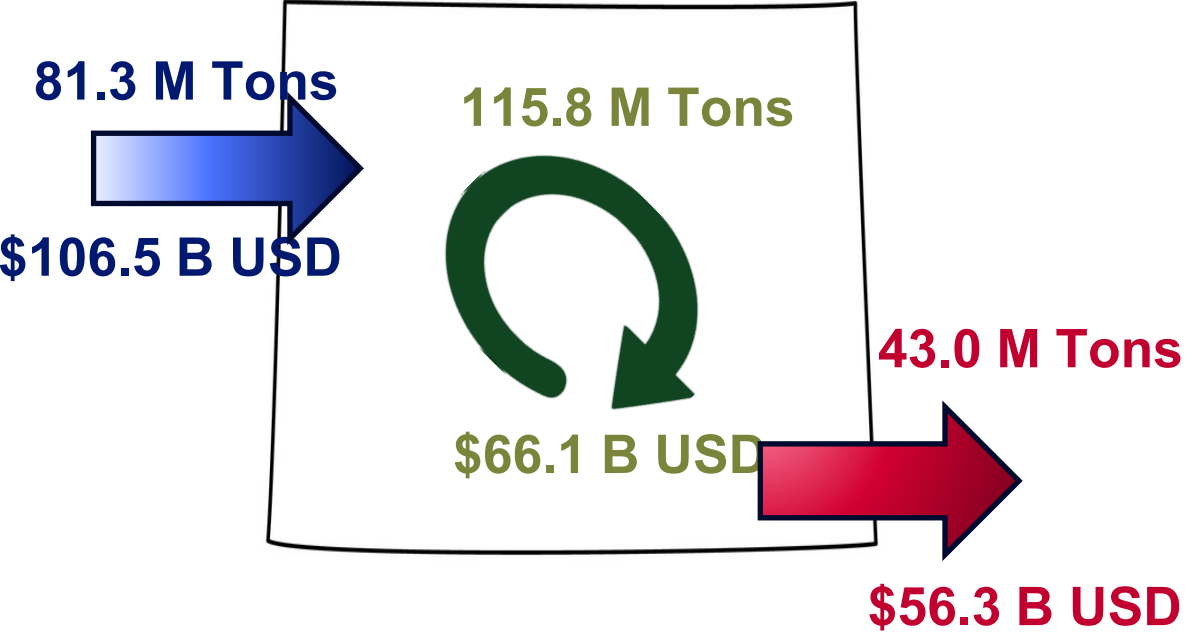


Economic Vitality



Commodity Flows

Important Supply Chain Highways



Source: S&P TRANSEARCH, 2021



Economic Vitality Strategies

Education and Communications

- Support Colorado Delivers

Economic Development

Economic Coordination

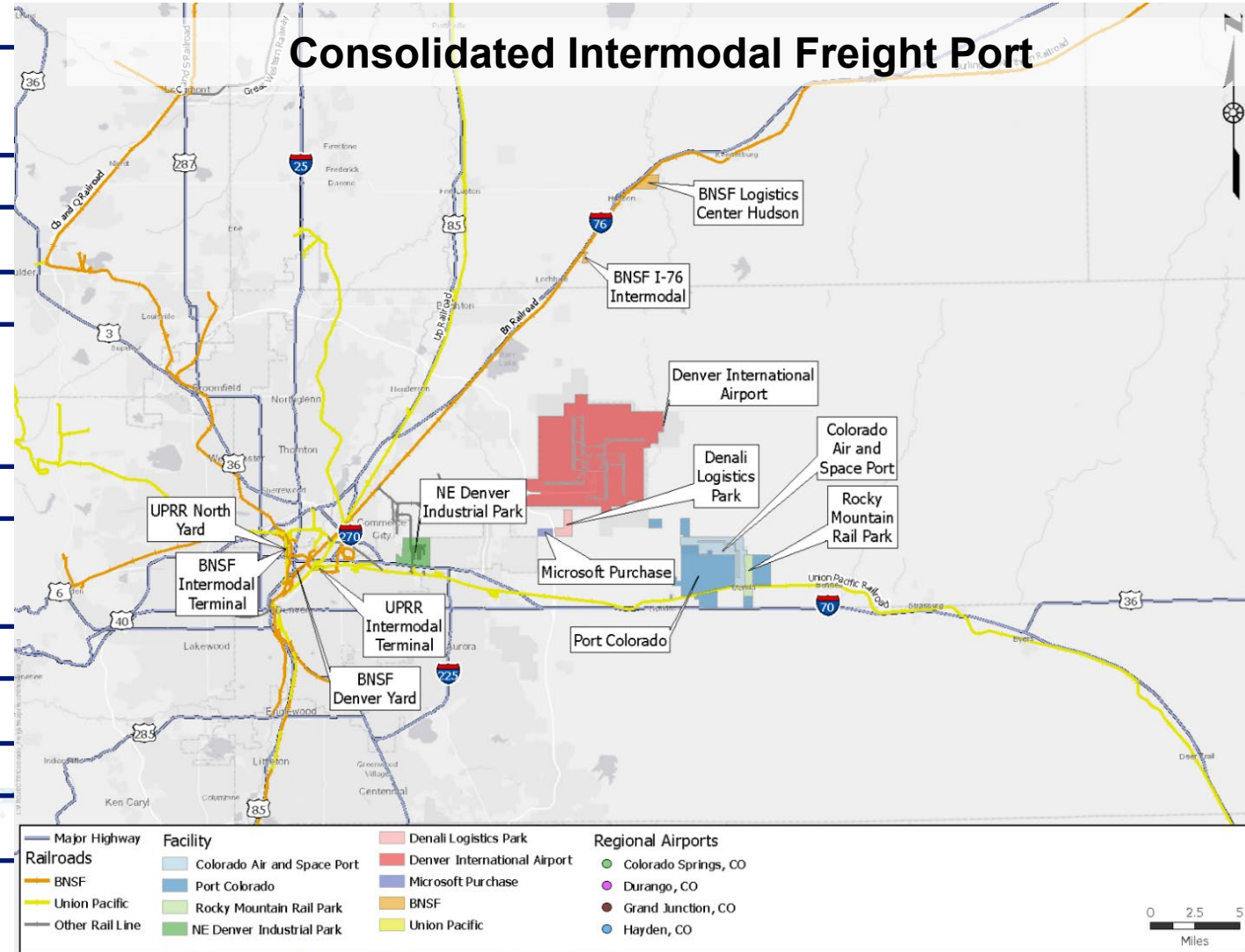
- e.g., Consolidated intermodal freight port (or inland port)

Freight Workforce

- Improve reliable access to logistics jobs

Trade and Logistics

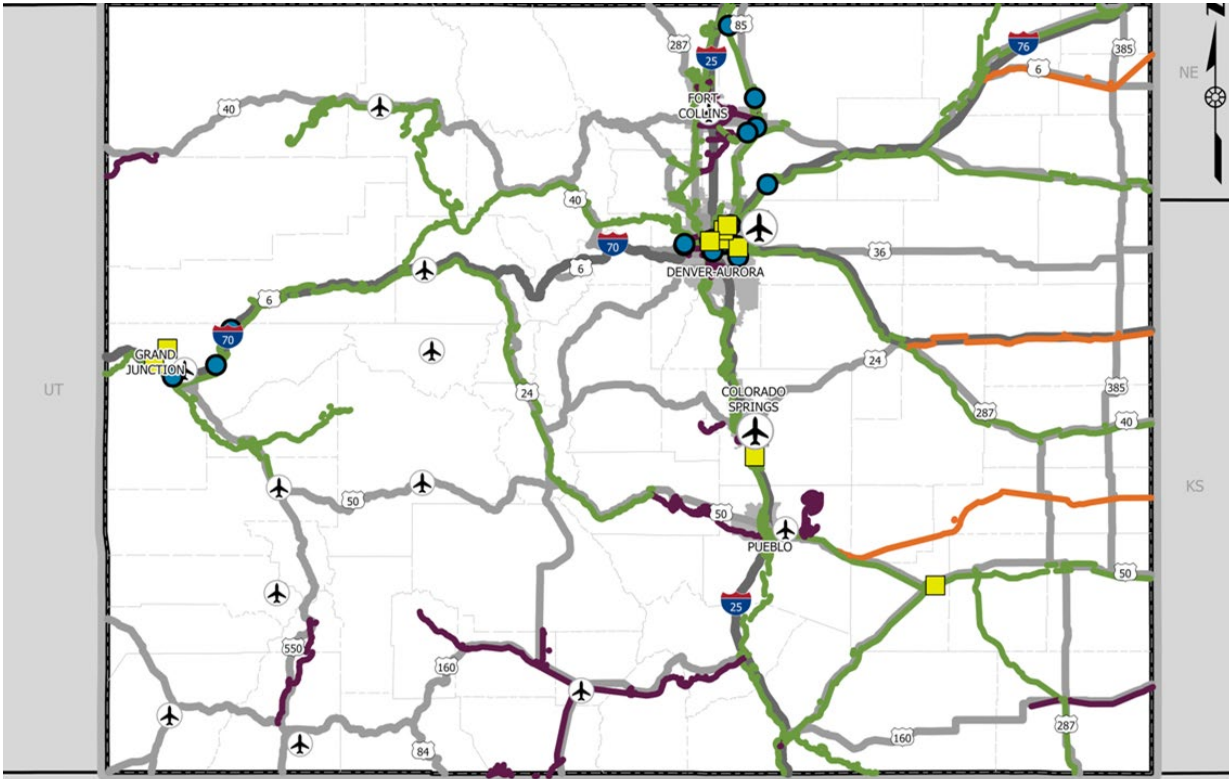
Economic Benefits



Sustainability & Resiliency



Intermodal Network

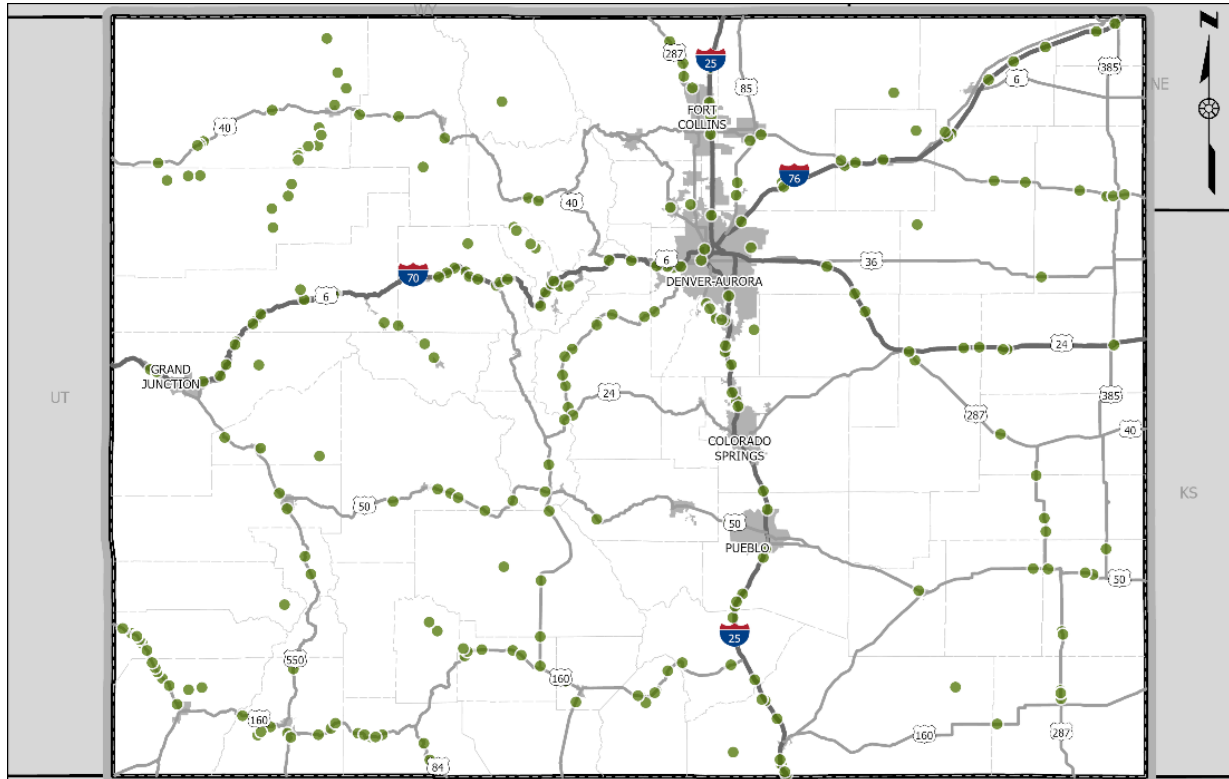


Transportation Facilities	Political Boundaries	Railroad Class
— Interstate	■ Urban Areas	— Class I
— U.S. Routes	□ Counties	— Class II
✈ Commercial Airports	□ States	— Class III
● Intermodal Facilities	■ Tank Farms	

Source: Cambridge Systematics

0 25 50 100 Miles

Wild Animal Involved Truck-Related Crash Distribution



● Wild Animal and Truck-Involved Crashes, 2017 - 2021	— Interstate	■ Urban Areas
	— U.S. Routes	□ Counties

Source: Crash Data, Colorado Department of Transportation, 2017–2021

0 25 50 100 Miles



Sustainability & Resiliency Strategies

Supply Chain Efficiency

Consolidated Intermodal Freight Port

Highway Mobility and Operational Improvements

Encourage Fleet Turnover

- Support the Colorado Clean Truck Strategy

Pursue Partnerships for Charging Infrastructure

Mitigate Wildlife Habitat Loss

System Risk and Redundancy



Colorado Freight Investment Plan



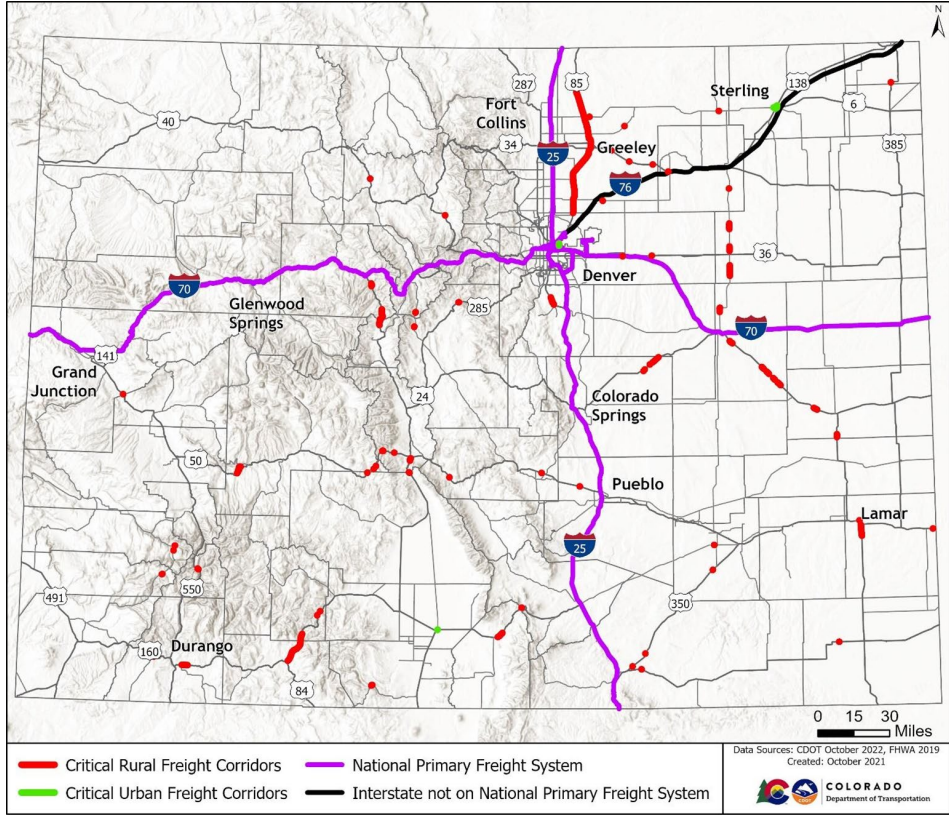
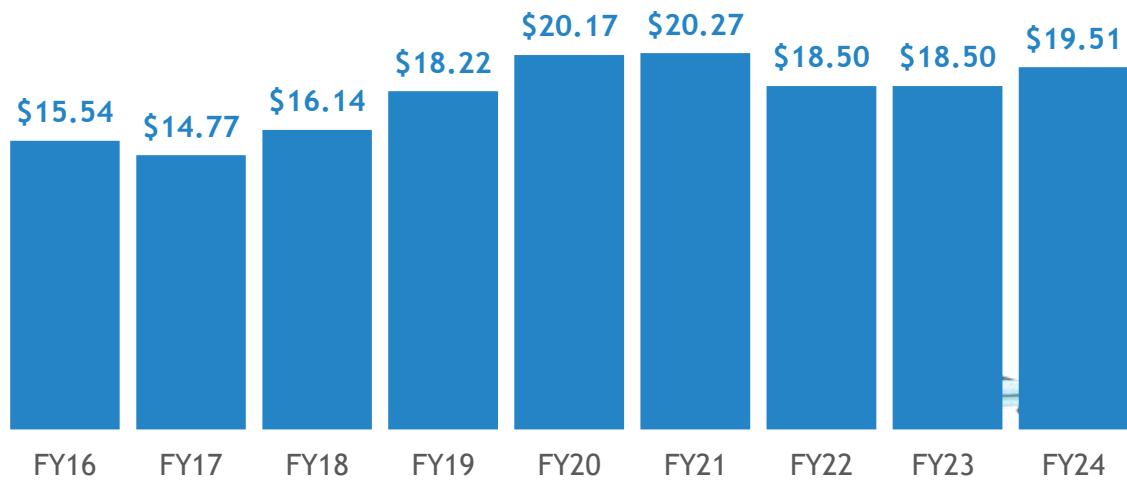
National Highway Freight Program

1 dedicated source of freight funding

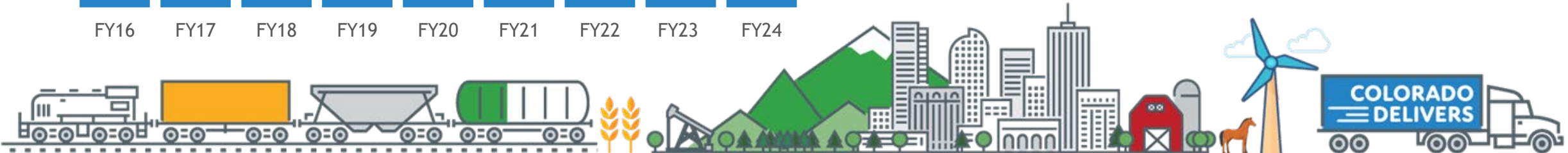
3 critical focus areas

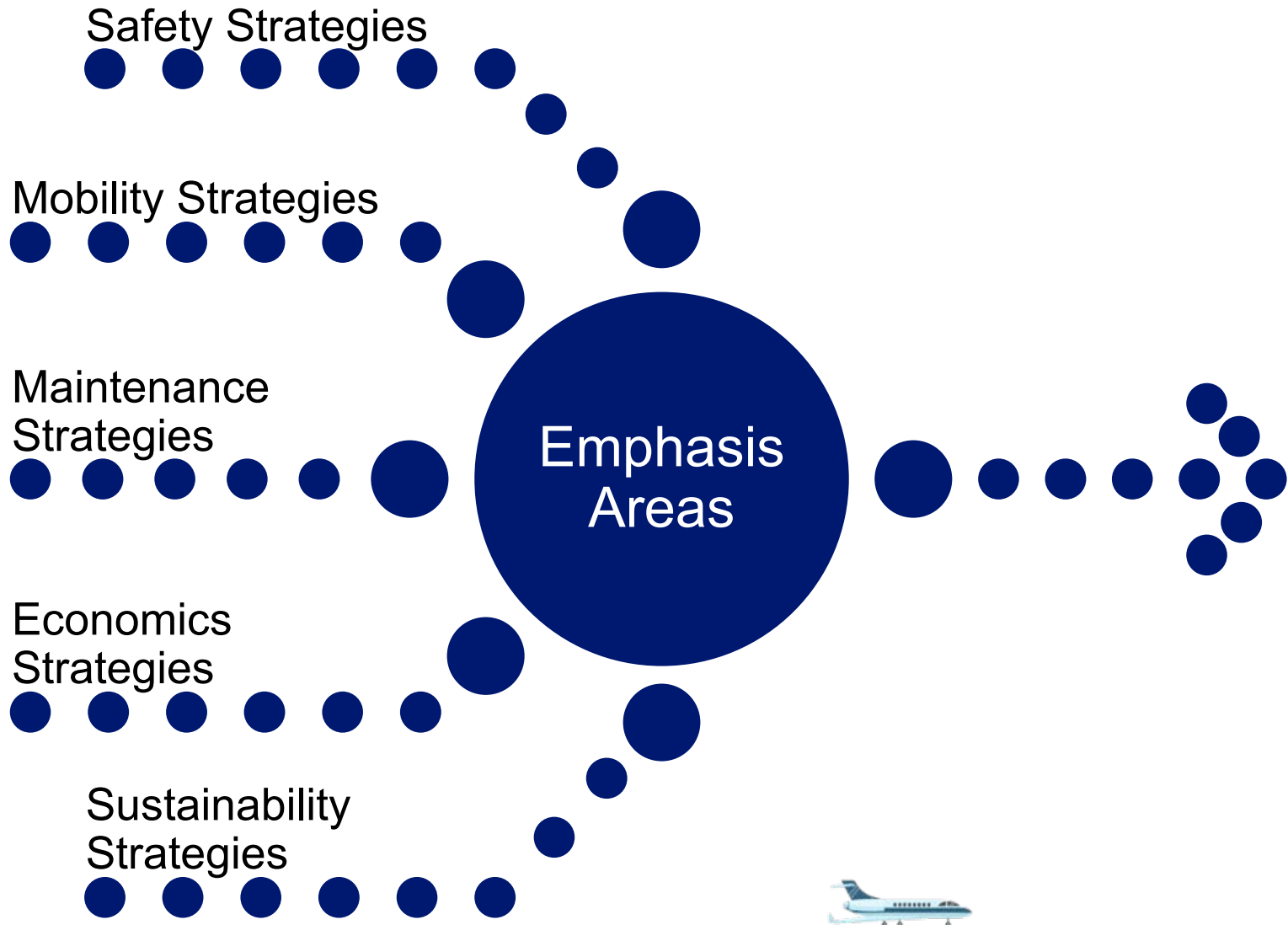
70+ projects funded

\$179 million invested in Colorado



Climbing lanes, truck parking, chain stations, ports of entry, ITS parking and weather, safety improvements, bridge replacement, planning and design





Truck Safety

Freight Operations

Clean Transportation



Emphasis Areas

Truck Safety

- Reduce conflicts
- Shoulders and passing lanes
- Weather-related improvements
- Safety information

Freight Operations

- Truck parking
- ITS for chain stations and safety pullouts
- In-cab communications
- Runaway truck ramps
- Weigh in Motion

Clean Transportation

- Eliminate bottlenecks to reduce emissions
- Removing barriers
- Zero emission charging/fueling
- Emerging technologies (e.g., e-cargo bikes)



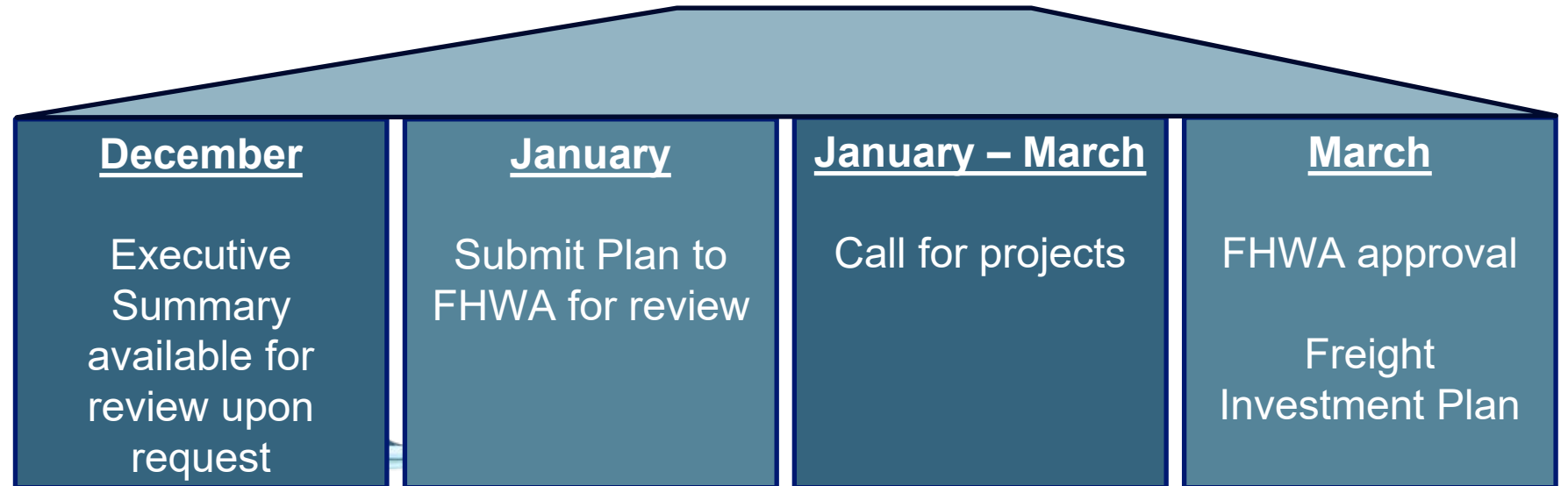
Next Steps



APRIL 2023

DECEMBER 2023

MARCH 2024





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