



MnDOT Overview

Charlie Zelle | Commissioner, MnDOT

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Creation of MnDOT

Minnesota Statutes, Sections 174.01-174.03

- Created by the Legislature in 1976
 - Combined former Department of Aeronautics, Department of Highways, State Planning Agency and Public Service Department
- Develop and implement policies, plans and programs for highways, railroads, waterways, aeronautics, public transit and motor carriers
- Provide safe, multimodal transportation
- Recognize economic importance of transportation
- Minimize impact on the environment

Vision and Mission



- **Vision** – a multimodal transportation system that maximizes the health of people, the environment and our economy.
- **Mission** – plan, build, operate and maintain a safe, accessible, efficient and reliable multimodal transportation system that connects people to destinations and markets throughout the state, regionally and around the world.

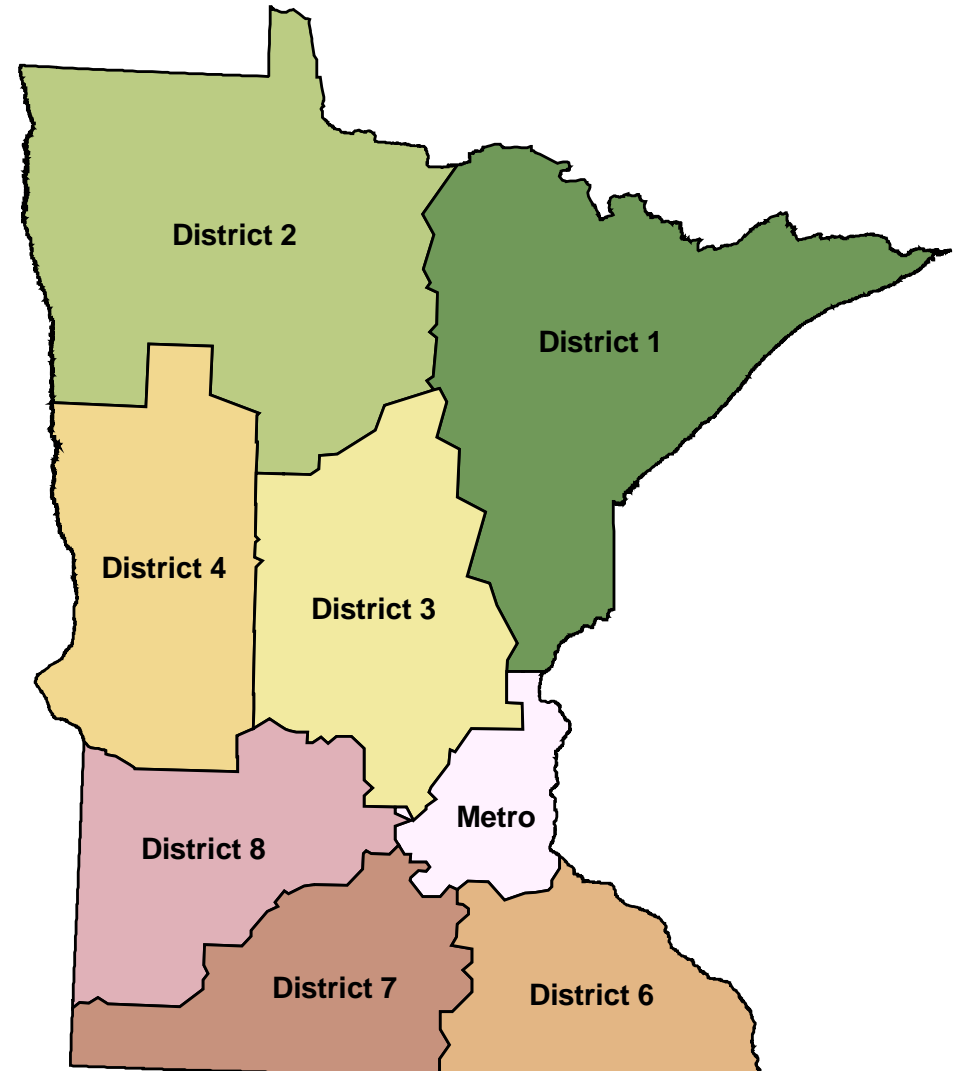
Core Values

- Safety
- Excellence
- Service
- Integrity
- Accountability
- Diversity and Inclusion



MnDOT Districts

MnDOT is divided into eight regional areas – seven Greater Minnesota districts and the Minneapolis-St. Paul Metro District



MnDOT Services

- State Roads
 - Program Planning & Delivery
 - Construction
 - Operations & Maintenance
- Local Roads
 - County & Municipal State Aid
- Multimodal Systems
 - Aeronautics, Greater Minnesota Transit, Freight, Passenger Rail
- Electronic Communications



State Transportation System

- **Highways**
 - 59.1 billion annual vehicle miles traveled
 - 33.1 billion on trunk highways
- **Bridges (10+ feet)**
 - 19,801 bridges carry a roadway in Minnesota
 - Over 4,800 bridges carry or cross a trunk highway
- **Aviation**
 - 135 state-funded airports in Minnesota
 - Over half owned by cities under 5,000
 - Includes 9 commercial service airports
 - Includes 7 Metropolitan Airports Commission airports



State Transportation System (cont.)

- **Water Freight**

- 57 million tons shipped via Great Lakes
- 12 million tons via river
- Public ports in Duluth, Winona, Red Wing and St. Paul

- **Rail Freight**

- 253 million tons shipped
- 4,500 miles of railroads
- 19 railroad companies



State Transportation System (cont.)

- **Transit**

- All 80 greater Minnesota counties have public transit
- 12.2 million greater Minnesota transit trips in 2015
- 47 public bus systems funded

- **Bicycle and pedestrian facilities** throughout the state

- Mississippi River Trail—US Bike Route 45
- North Star—US Bike Route 41
- 2nd most bike-friendly state by League of American Cyclists

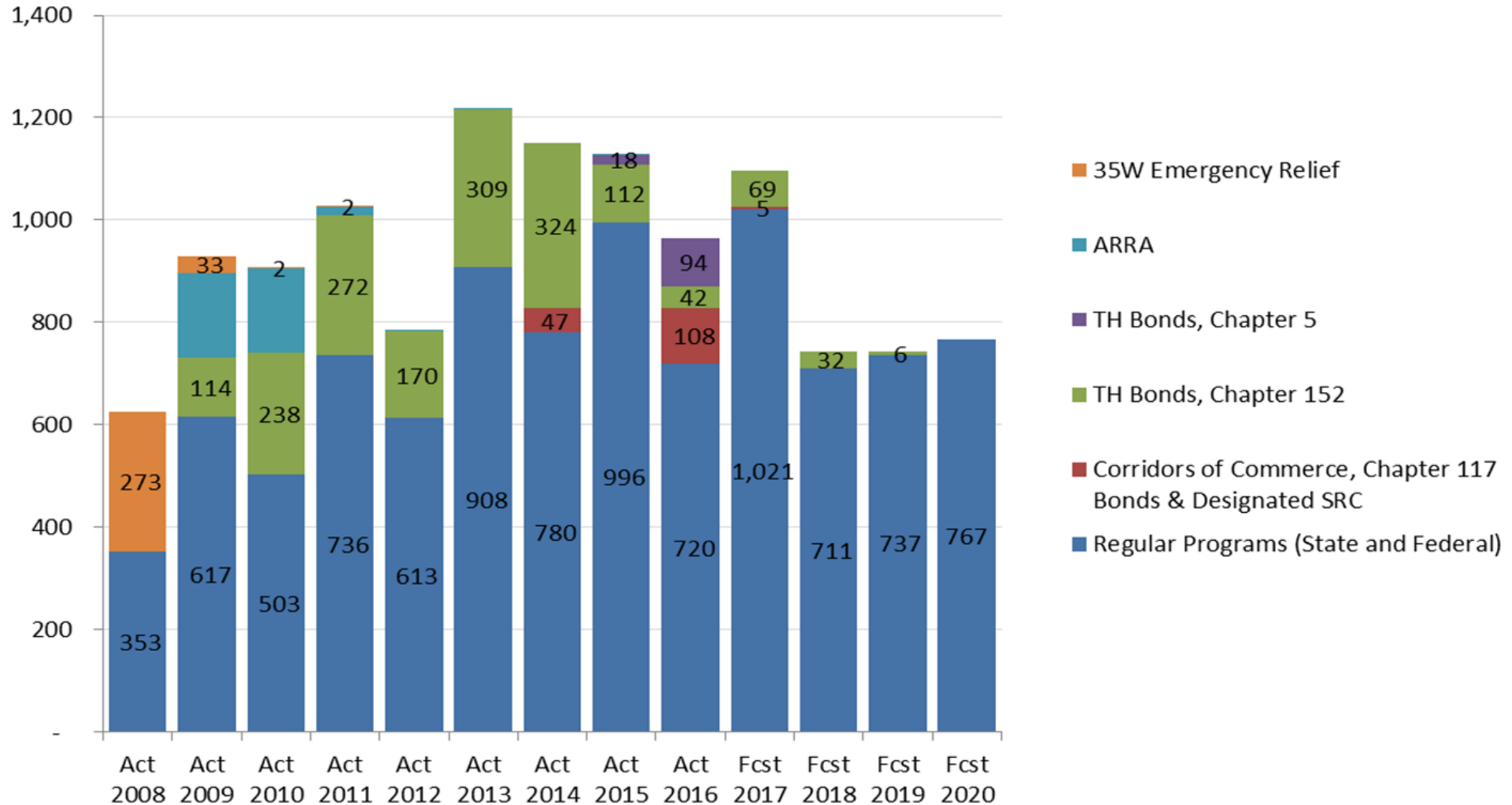


Harsh climate, heavy use

- 50% state highway pavements over 50 years old; 20% have <3 years useful life
- 40% of MnDOT bridges over 40 years old
- Minnesota weather extremes
- Snow and ice costs are climbing



State Road Construction Program Outlook



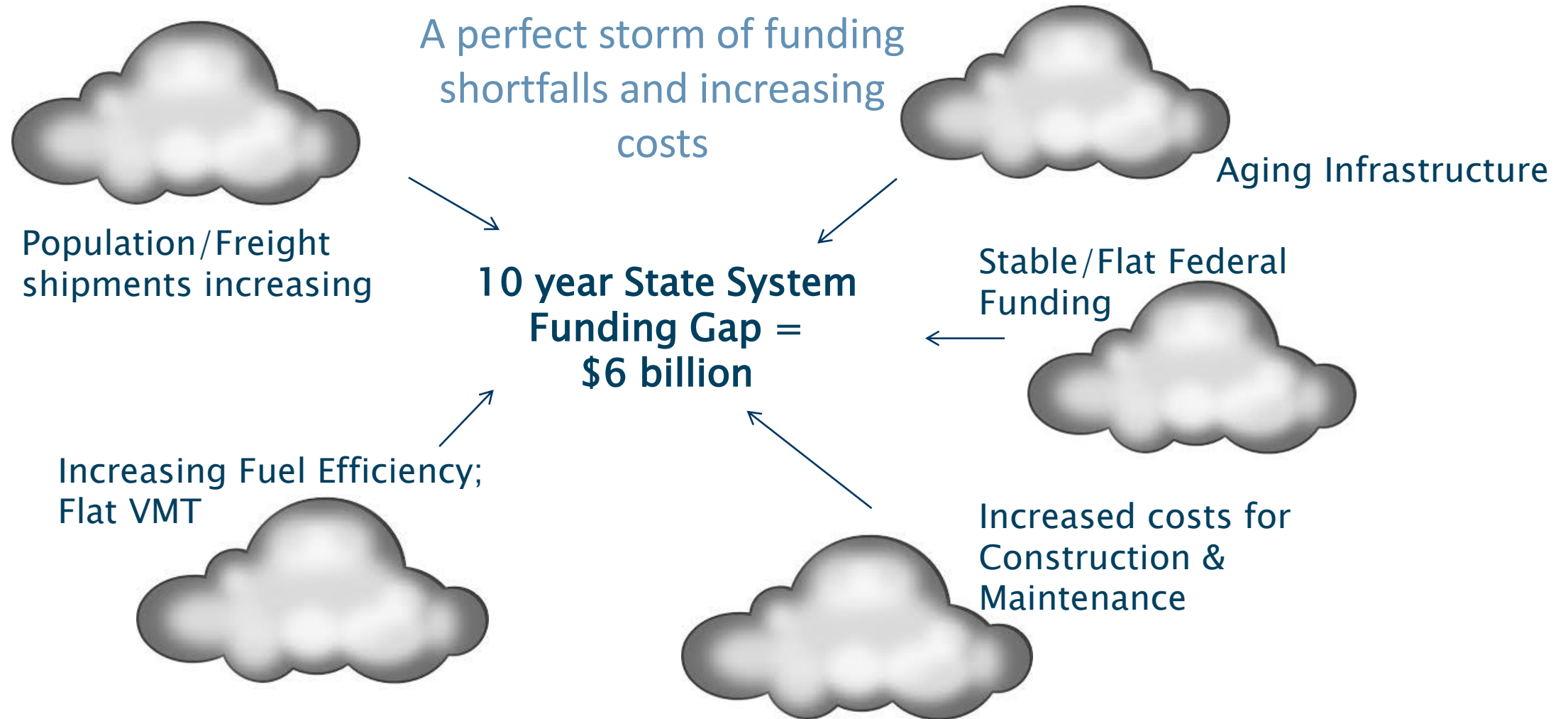
The Funding Gap

- Reality: the existing system needs additional resources to maintain and modernize our roads and bridges
- Prudent, modest expansion is also needed
- Status quo funding forces dollars toward preservation, no strategic system expansion projected after 2023

Years	Capital Investment Preservation <u>Current Funding</u>	Strategic Expansion Investment <u>Current Funding</u>	Preservation and Modernization Gap	Strategic Expansion Investment Gap	Total Gap
2018-2027	\$8.5 B	\$0.7 B	\$4 B	\$2 B	\$6 B

Source: 20-Year State Highway Investment Plan, January 2017

The Perfect Storm of Need Drives the Funding Gap



Funding Choices

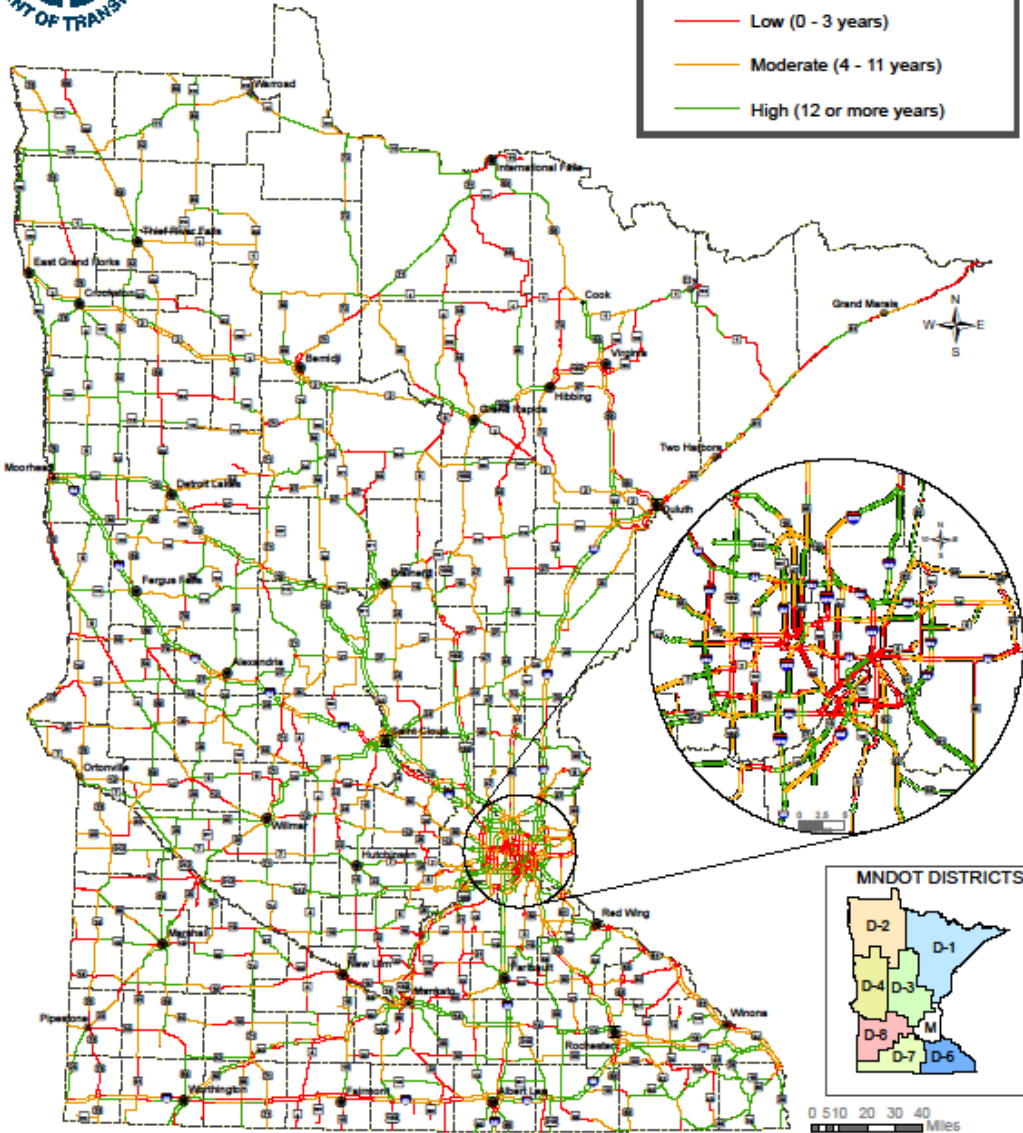
Scenario	10-year additional \$	Key Outcome
Status Quo	\$0	<ul style="list-style-type: none">• 115% increase in state highway miles in poor condition by 2026• 16% of state roads will have zero remaining service life in 10 years• Limited expansion; preservation only after 2023• More rural roads and bridges in poor condition
Be Economically Competitive/Fund the Gap (sustainable, dedicated long-term funding)	\$6 Billion (gas tax, license tabs, bonding)	<p>Preserve modernize, strategically expand</p> <ul style="list-style-type: none">• Improve 1,700 additional miles of pavement; 235 state bridges• Extend current system's service life; improve safety and access• Complete Corridors of Commerce expansion projects• Remove bottlenecks and improve traffic flow



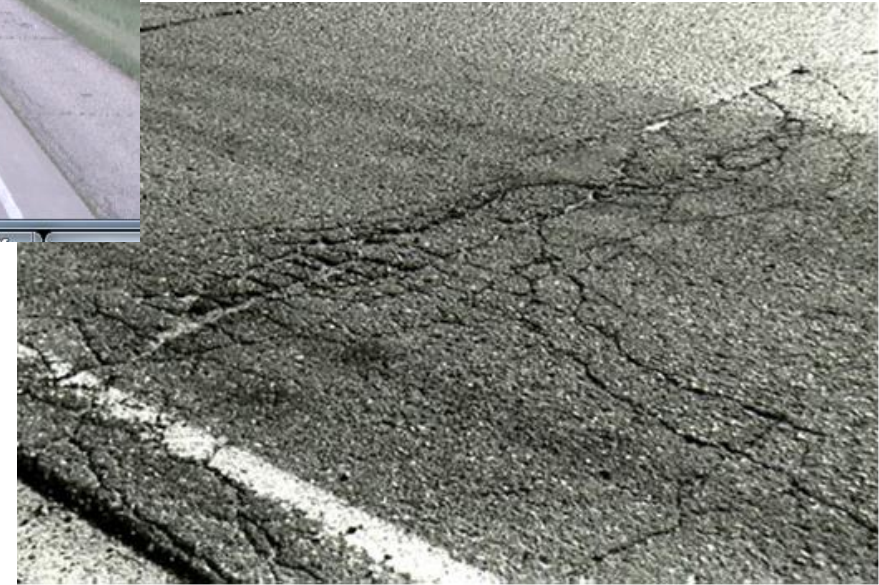
STATEWIDE 2015 PAVEMENT CONDITION

Remaining Service Life (RSL)

- Low (0 - 3 years)
- Moderate (4 - 11 years)
- High (12 or more years)



Pavement Conditions



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This map was created by the MnDOT Office of Materials Pavement Management Unit January 2015. The data displayed is the 2015 D-Records most recent rating. The RSL is the predicted number of years until the RQI of a segment drops from its current value to 2.5. The values on the map assume that no future work will be done. To ensure visibility of pavement condition data, not all highways are labeled. Always verify data in important situations.

Bridge Conditions

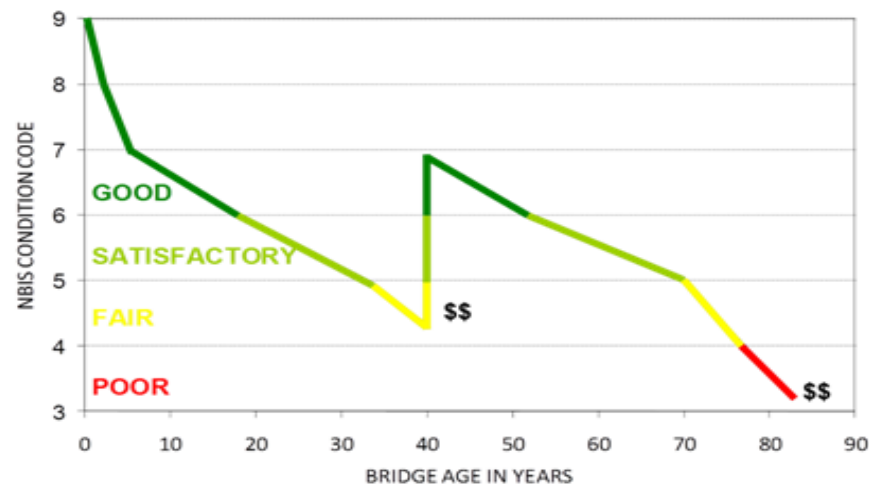


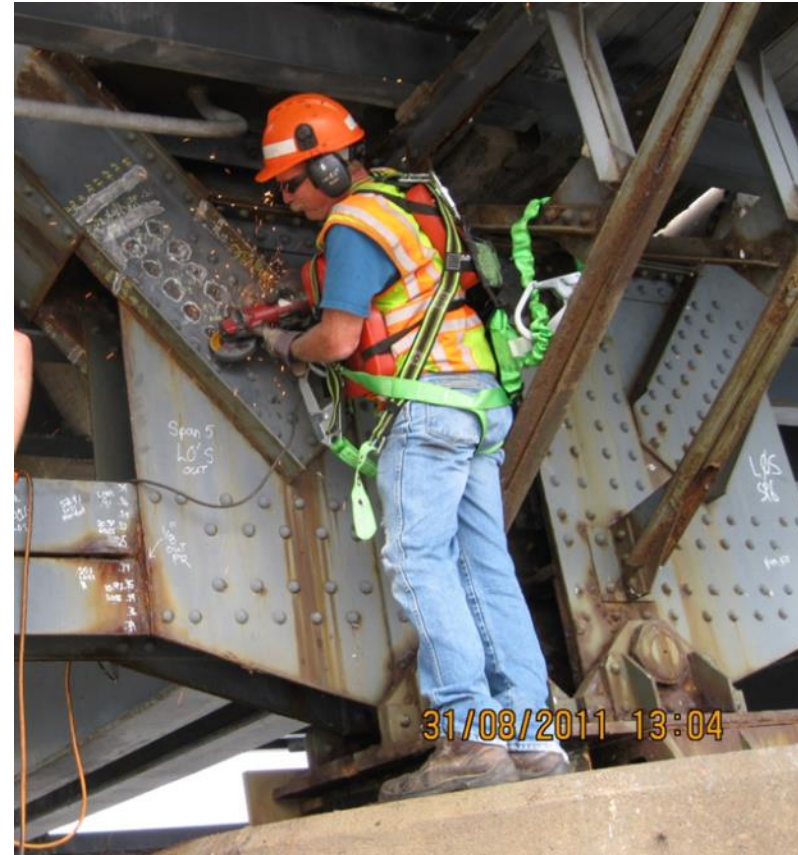
High Bridge
Trunk Highway 149
over Mississippi River



Maryland Ave. over I-35E
(before reconstruction)

Bridge Deterioration Model





Reactive Bridge Maintenance

Effective and efficient stewardship of resources:

MnDOT continues to be good stewards of public funds.

- Since 2015, MnDOT has worked to identify and quantify efficiencies, while looking for additional best practices and improvements.
 - Influence savings within the program, reducing costs of the project up to letting
 - Repurpose savings identified on current projects
 - Manage assets appropriately making the right investment at the right time

2017 MnDOT Policy Proposals

BIKES BILL

- Bicycle Laws and Rules
- New Bikeway-St. Paul to Canada

STAND ALONE BILLS

- Drones
- Work Zone Flaggers
- Outdoor Advertising

RIGHT-OF-WAY BILL

- Leg. Route 101 Repeal
- Highway 225 turn back
Becker County
- Highway 112 turn back
Le Sueur County
- Conveyance of Property
Over-the-counter
- Right of Way Transfer to Mn Historical Society
(McKinstry Mounds)

2017 MnDOT Policy Proposals

POLICY BILL

- “Dimler” & Pipeline Welder Trucks
- Statewide Plans Due Dates
- Commercial Vehicle Inspectors
- Hauling Milk on Interstates
- Yield Signs at RR Crossings
- Targeted Group Business/Veterans Bid Preference Sunset Removed

Questions?

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