

Transportation Day at the Capitol

Charlie Zelle | Commissioner, MnDOT

Feb. 16, 2017



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



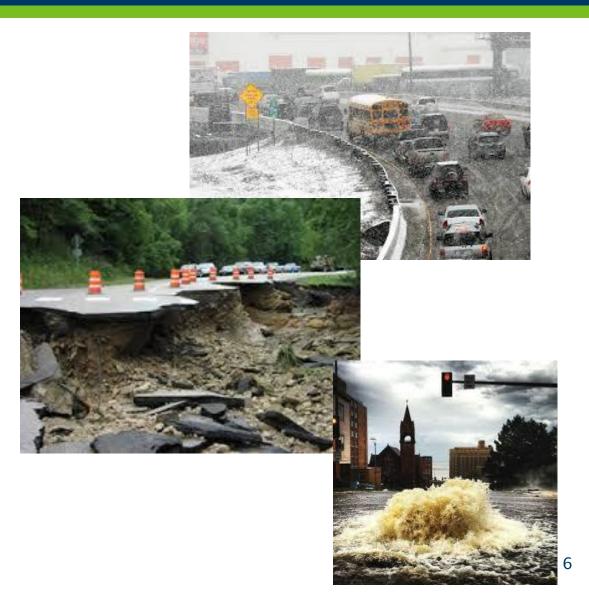
We know what's ahead

- Freight truck and rail traffic to increase 30 percent by 2030
- 850 bridges will require significant work by 2025
- Nearly 1 million new Minnesotans by 2050
- Local roads and bridges unfunded need=\$18 billion over 20 years
- More than 600 identified state road and bridge projects go unfunded

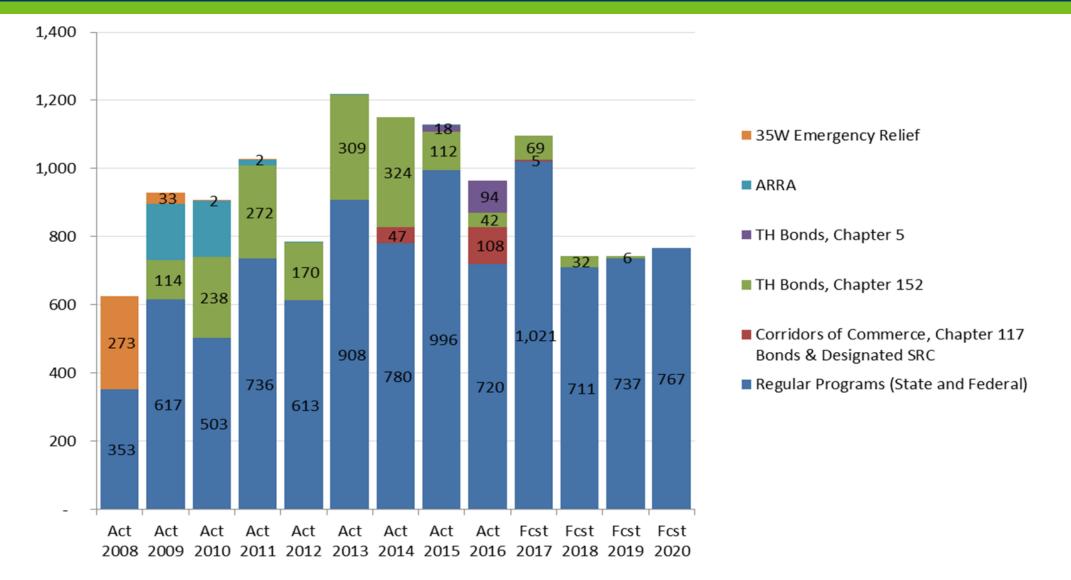


Harsh climate, heavy use

- 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



STATE ROAD CONSTRUCTION PROGRAM FUNDING BY DISTRICT/ATP AND YEAR (\$ MILLIONS)

DISTRICT/ATP	2017	2018	2019	2020	TOTAL*
1	99	78	83	87	347
2	44	50	37	31	162
3	53	63	76	58	250
4	55	43	37	32	167
6	161	49	84	55	349
7	137	94	54	81	366
8	37	37	36	63	173
SUBTOTAL*	587	414	406	407	1,815
METRO	412	240	281	305	1,238
MISC	27	57	49	55	188
TOTAL*	1,026	711	737	767	3,241
*may not total correctly due to rounding					

Preservation versus Modernization



Standard green epoxied steel reinforcement lasts 50 years in our climate



Standard 16 gauge galvanized pipe lasts 25 years



Stainless steel reinforcement costs 3-4 times as much as green epoxied and lasts at least 100 years



Aluminized pipe costs 17% more but lasts 50+ years

Preservation versus Modernization



Standard HPS luminaire lasts 4-5 years and costs \$260 to replace plus \$250 if lane closures are required



City of Glenwood—Standard Mill and Overlay of Hwy 28



LED luminaire costs 25% more, lasts for 17 years and uses 65% less energy



City of Glenwood—Complete Streets vision includes parking lane, trail connections, pedestrian enhancements

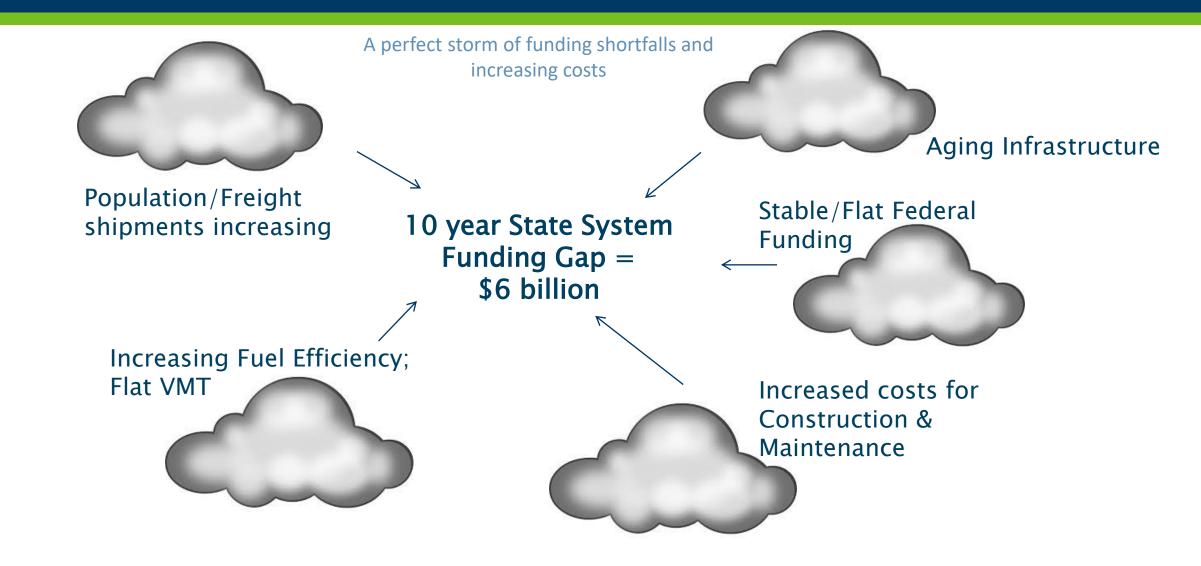
The Funding Gap

- 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

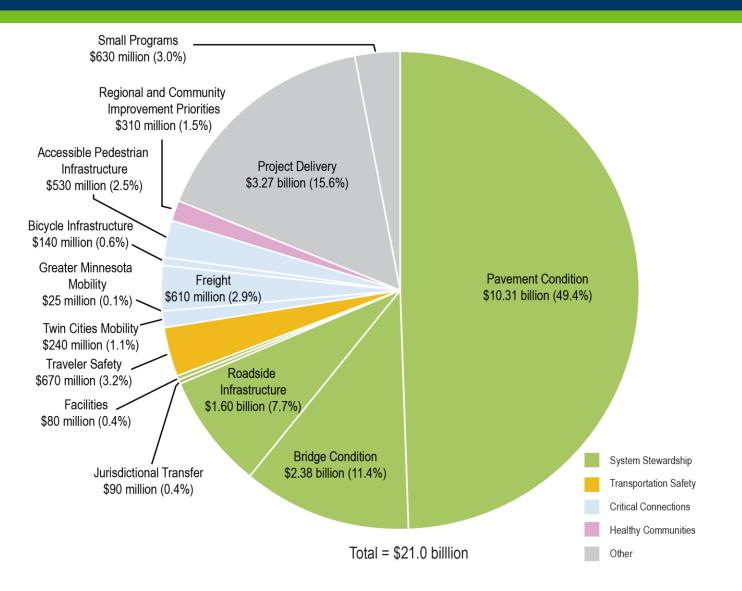
Years	Capital Investment Preservation <u>Current Funding</u>	Strategic Expansion Investment <u>Current Funding</u>	Preservation and Modernization Gap	Strategic Expansion Investment Gap	Total Gap
2018- 2027	\$8.5 B	\$0.7 B	\$4 B	\$2 B	\$6 B

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

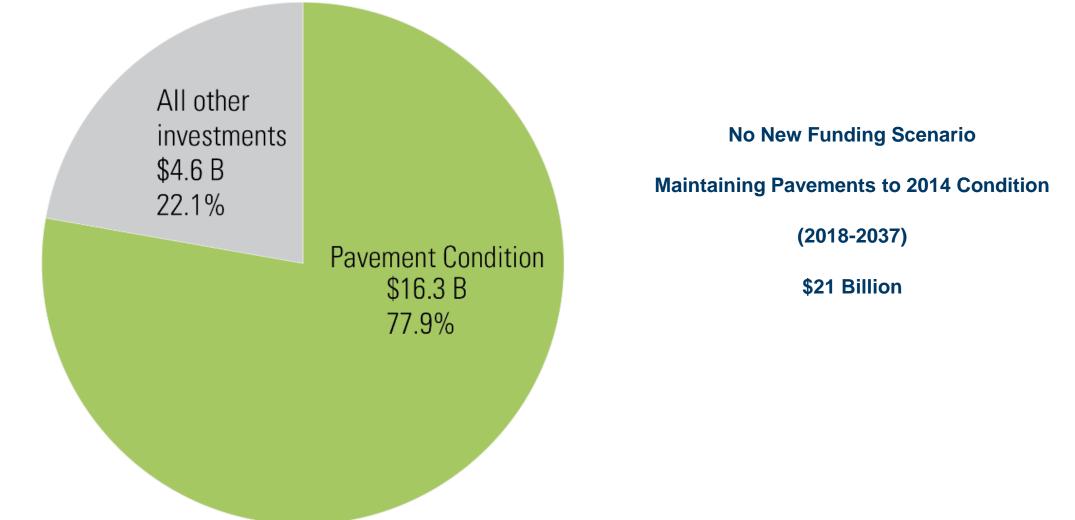
The Perfect Storm of Need Drives the Funding Gap



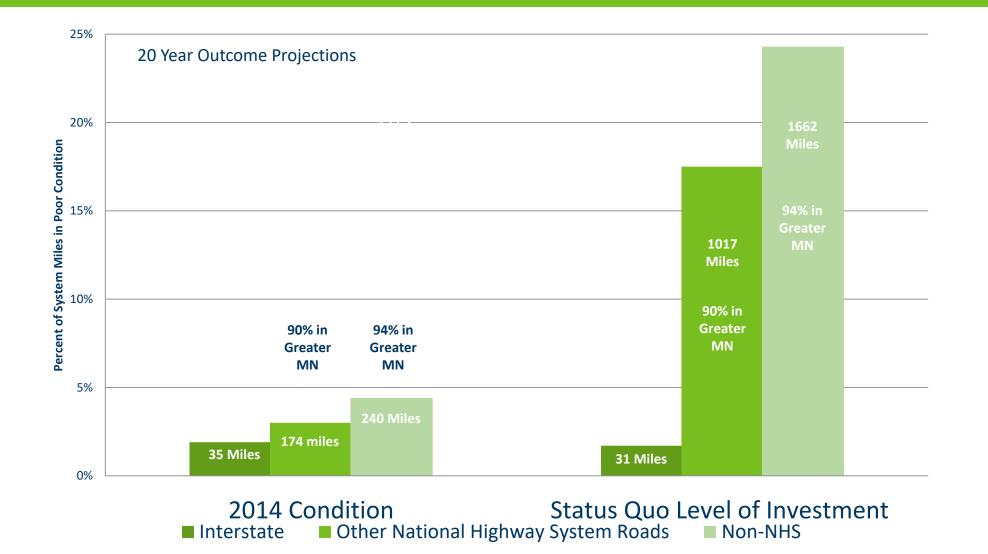
MnSHIP Investment Direction (2018-2037)



A Financially Unstable Path Forward



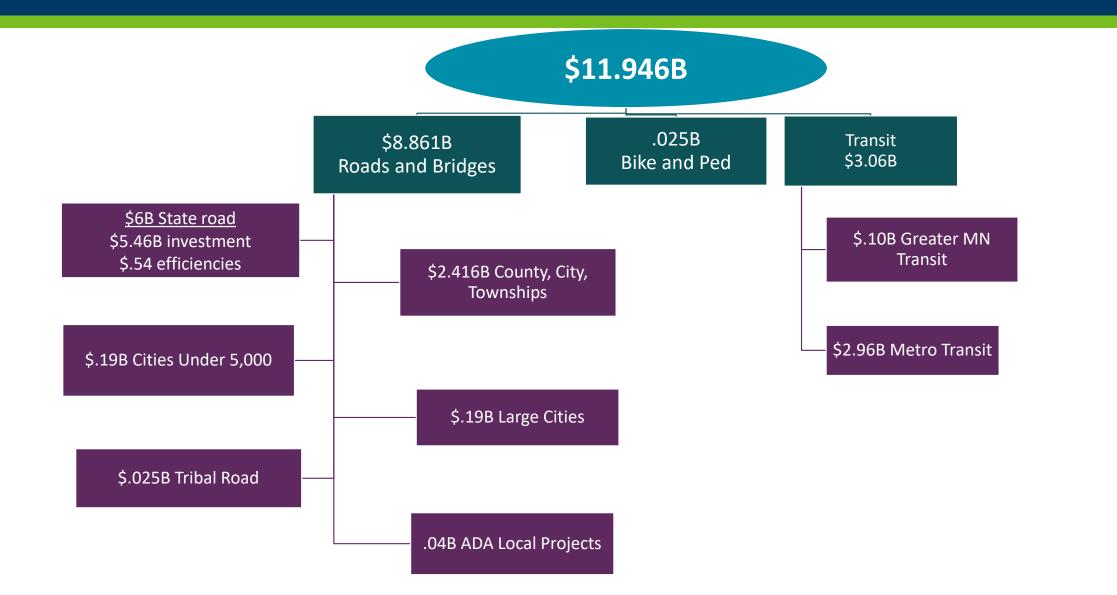
The Vast Majority of Poor Quality Roads will be in Greater MN with No New Funding



Funding Choices

Scenario	10-year additional \$	Key Outcome
Status Quo	\$0	 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)	 Preserve modernize, strategically expand 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

Additional Investment at a Glance



What we need to do

- Long-term investment
 - Sustainable
 - Dedicated
 - Predictable
 - \$6 billion for state (ongoing)
 - \$2.41 billion for local governments (ongoing)

• This will provide

- Fuel economic growth, support business expansion
- Enhance safety for traveling public
- Strong, well maintained infrastructure
- Reduced costs with early fixes
- Support to thousands of jobs in transportation sector

We need a transportation system that works

- Attracts businesses, employees
- Enables more efficiency
- Reduces congestion
- Enhances road safety
- Fixes our system for future generations



