



State of Transportation

September 8, 2023



MM2045

Michigan's State Long-Range Transportation Plan

First of its kind ground-breaking integrated long-range transportation plan



[Michigan Mobility 2045 Plan](#)

MM2045 All Modes and All of Michigan

Roads

Michigan's federal-aid system



MDOT-owned:

34,960
lane miles

Locally owned:

92,950
lane miles

Bridges



11,000 plus
bridges more than
20 feet long

Transit



More than 80
transit providers
operating local and
intercity buses,
demand-response
services, and ferries

Rail



3,600
miles of private and
state-owned freight
and passenger rail
corridors

The transportation system in Michigan involves numerous public and private entities with no single organization overseeing the entire system. MDOT does not directly control all aspects of the transportation system that Michiganders use every day. Each mode and owner have their own processes, priorities, missions, and areas of influence. Even within a single mode, there may be a diverse range of owners who do not fully control all safety oversight and funding decisions.

KEY ORGANIZATIONS

Surface Transportation Board; National Transportation Safety Board (NTSB); Federal Railroad Administration (FRA); Federal Highway Administration (FHWA); private companies; MDOT



Rail



Roadways

KEY ORGANIZATIONS

Cities and villages; county road commissions; metropolitan planning organizations (MPOs); rural task forces; MDOT; State Transportation Commission; FHWA



Transit

KEY ORGANIZATIONS

Local transit agencies; intercity bus carriers; ferry operators; local government; MPOs; MDOT; Federal Transit Administration (FTA)

MM2045

All Modes and All of Michigan

Aviation

All airports



18
commercial
airports

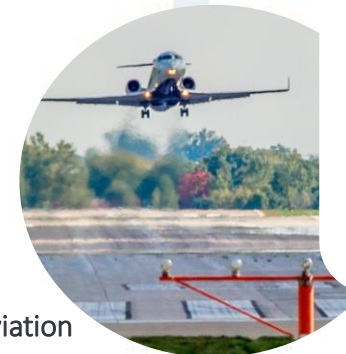
219
licensed, public-
use airports

Ports



**More
than 30**
ports

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Aviation

KEY ORGANIZATIONS

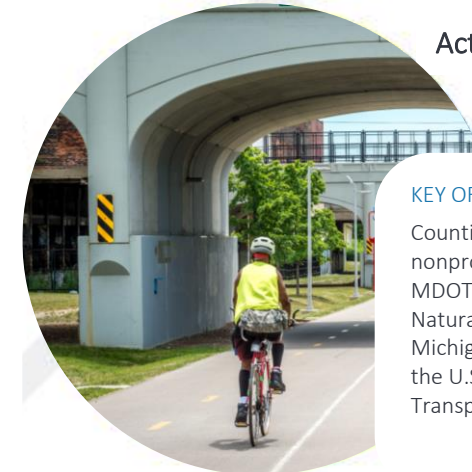
Michigan Aeronautics Commission (MAC); MDOT's Office of Aeronautics; Federal Aviation Administration (FAA)



Ports

KEY ORGANIZATIONS

Cargo and recreational ports, public port authorities, and marine terminal operators; vessel owners/steamship companies; MDOT; Michigan Department of Environment, Great Lakes, and Energy (EGLE); MDNR; Michigan Department of Agriculture and Rural Development (MDARD); Michigan Economic Development Corp. (MEDC); U.S. Army Corps of Engineers; U.S. Coast Guard; U.S. Customs and Border Protection; U.S. Maritime Administration; U.S. Fish and Wildlife Service; U.S. Environmental Protection Agency (EPA)



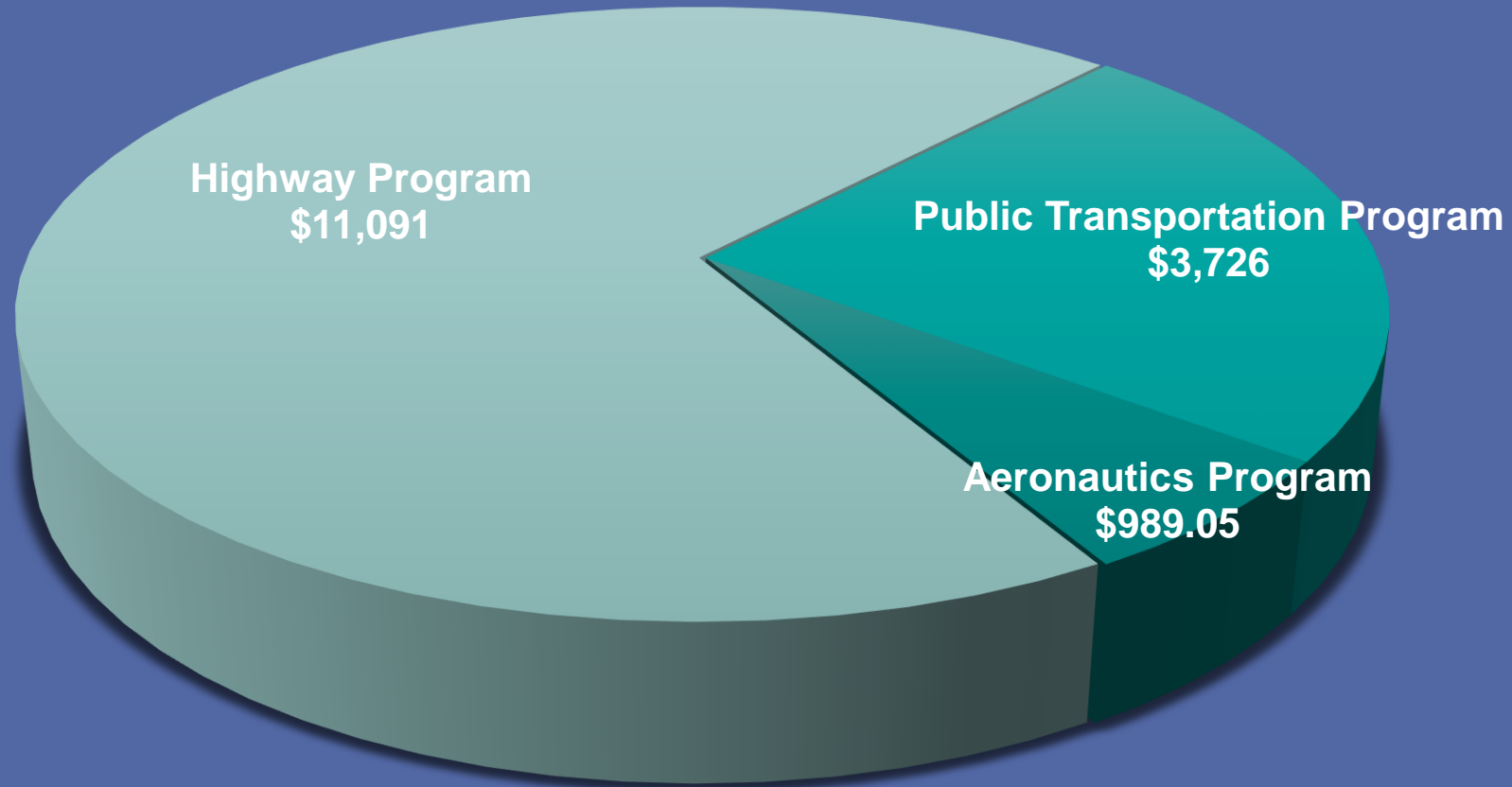
Active Transportation

KEY ORGANIZATIONS

Counties, cities, villages; nonprofit organizations; MPOs; MDOT; Michigan Department of Natural Resources (MDNR); Michigan State Police (MSP); the U.S. Department of Transportation (USDOT)

Draft Five-Year Trunkline Transportation Program

(5YTP) 2024-2028



\$15.8 Billion (in millions)
[Five-Year Transportation Program \(michigan.gov\)](http://michigan.gov)

Draft Five-Year Trunkline Transportation Program (5YTP) 2024-2028

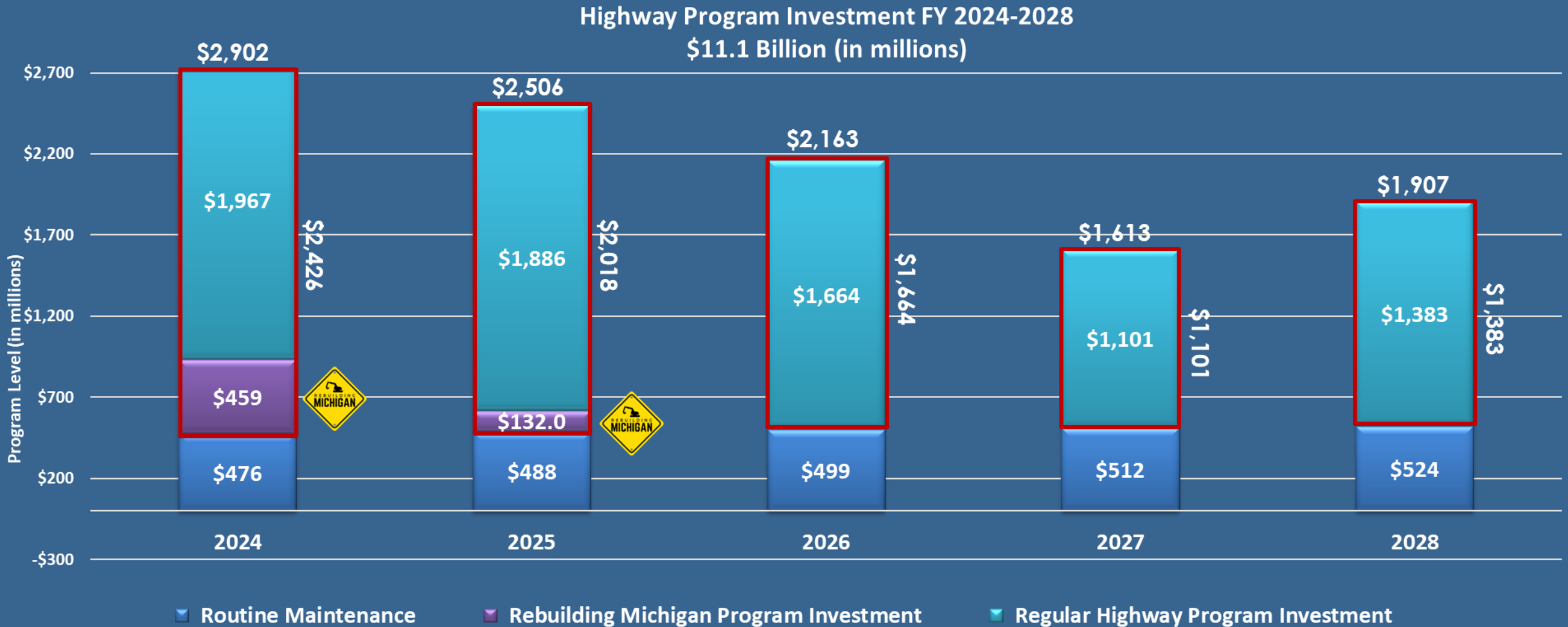
FY 2024-2028 MDOT Highway Program (in millions)
\$11.1 Billion Total

Program	FY 2024	Five-Year Total	Annual Avg.
Repair and Rebuild Roads*	\$1,600	\$5,218	\$1,044
Repair and Rebuild Bridges**	\$515	\$1,918	\$383
Routine Maintenance	\$476	\$2,499	\$500
Safety and System Operations	\$216	\$926	\$185
Additional State and Federally Funded Programs	\$95	\$531	\$106
Total Five-Year Trunkline Program	\$2,902	\$11,091	\$2,218

*Including Trunkline Modernization

**Includes \$40 million in FY2024 and \$600 million total from FY 2024 to 2028 for ongoing Blue Water Bridge (BWB) Plaza work accounted for in previous years.

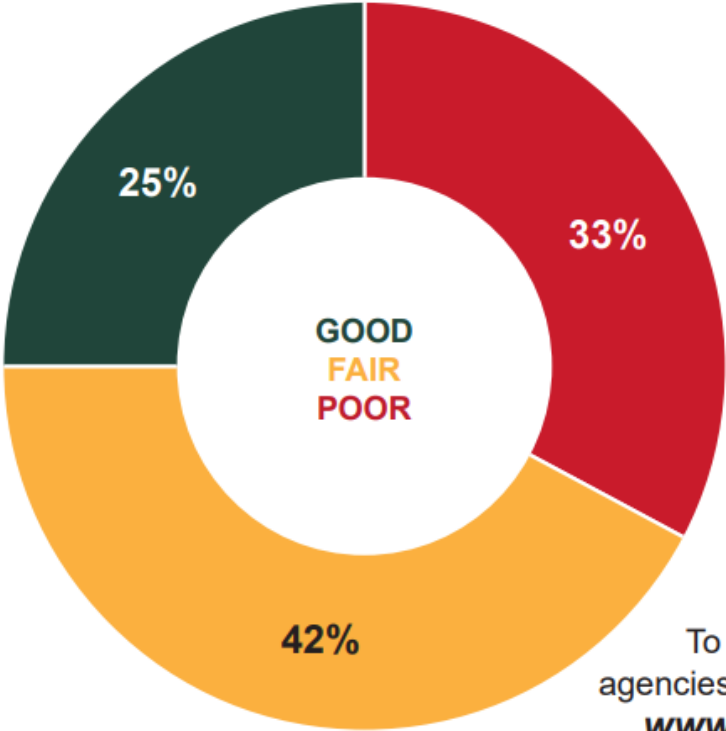
Draft Five-Year Trunkline Transportation Program (5YTP) 2024-2028



Transportation Asset Management Council

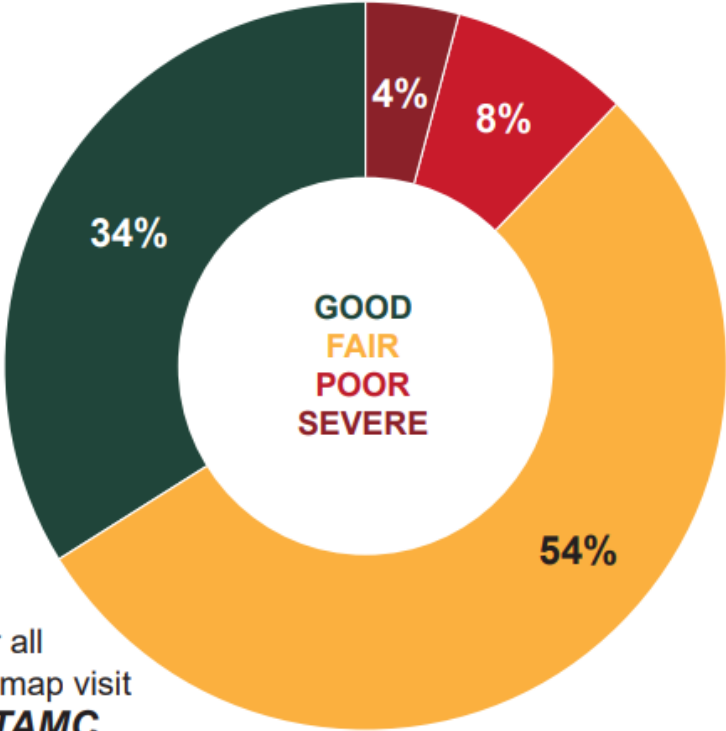
2022 Federal-Aid Pavement Condition

Percent Lane Miles



2022 Bridge Condition

All Roadway Bridges



To see dashboards for all agencies and an interactive map visit www.Michigan.gov/TAMC

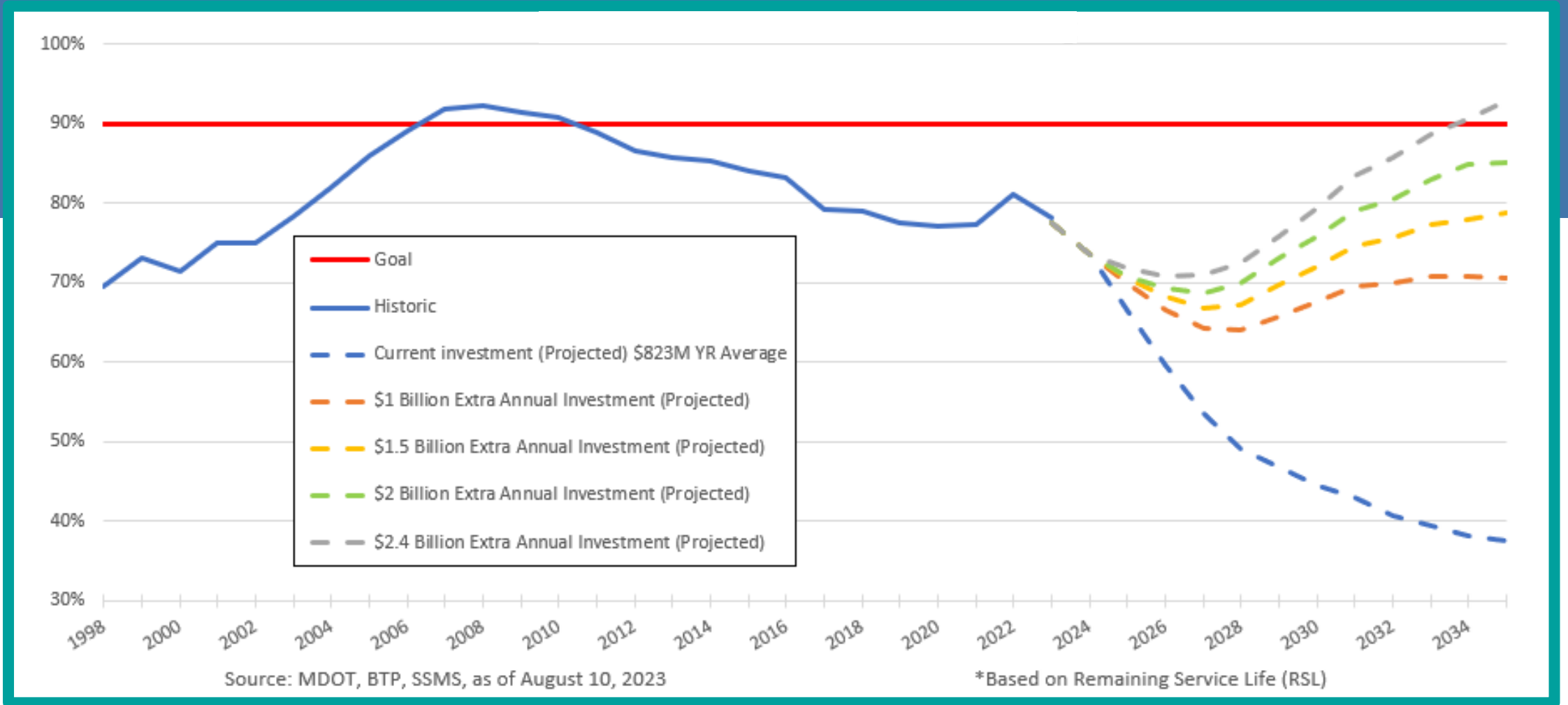
Revenue Gap Assessment

Summary of Revenue Gap by Category, 25 years, Millions of 2020 Dollars

Category		Forecast Revenue	Forecast Needs	Gap	Percent of Needs Met
MDOT-owned Roads	Pavement	\$22,420	\$38,063	\$15,642	58.9%
	Bridges	\$5,269	\$10,675	\$5,406	49.4%
	Maintenance	\$10,659	\$13,150	\$2,491	81.1%
	Safety	\$1,486	\$3,246	\$1,760	45.8%
	System Operations	\$1,605	\$4,814	\$3,208	33.3%
	ITS	\$1,271	\$1,968	\$697	64.6%
	Traffic Signals	\$579	\$1,249	\$670	46.3%
	Right-Sizing	\$205	\$464	\$259	44.3%
	Active Transportation	\$302	\$458	\$156	65.9%
	Subtotal MDOT-owned Roads		\$43,798	\$74,087	\$30,289
Locally-owned Roads	Pavement (Federal-aid highways only)	\$15,478	\$41,572	\$26,094	37.2%
	Bridges	\$3,690	\$7,800	\$4,110	47.3%
	Maintenance (County Primary Roads only)	\$6,427	\$12,240	\$5,813	52.5%
	Right-Sizing	\$179	\$222	\$43	80.5%
	Subtotal Locally-owned Roads		\$25,775	\$61,834	\$36,059
Public Transportation	Freight and Passenger Rail	\$2,063	\$4,017	\$1,954	51.4%
	Transit	\$11,409	\$17,305	\$5,896	65.9%
	Subtotal Public Transportation		\$13,472	\$21,322	\$7,850
Aviation	Aviation	\$1,949	\$7,383	\$5,435	26.4%
Total	Total	\$84,993	\$164,626	\$79,633	51.6%

As of 2020, 52% of our needs were anticipated to be met; as of 2023, these numbers have changed but we still need to double our revenues to meet our long-term multimodal needs to achieve the MM2045 vision.

State Trunkline Projected Pavement Conditions



County Road Association

2021 Michigan County Road Investment Plan:

A comprehensive 83-county overview of investment requirements to restore Michigan's county road system

County Road Association of Michigan
by L.W. Brown Consulting, LLC

June 2021



Need Category	Annual Cost
Bridges	\$ 222,177,467 ↑
Buildings, Maintenance Facilities	\$ 44,624,483 ↑
Maintenance	\$ 912,903,033 ↑
Equipment	\$ 164,615,464 ↑
Federal Aid-Eligible Roads	\$ 764,613,642 ↓
Nonfederal Aid-Eligible Roads	\$1,516,405,856 ↓
Annual County Road Investment Needs	\$3,625,366,945 ↑
Less county road revenue documented in 2019 PA 51 Report <small>*Total revenue is Line 97 minus Lines 77 & 78 from PA 51 Reports of 2019.</small>	<u>- \$1,734,106,480*</u> ↑
Outstanding Annual Funds Needed for County System	\$1,844,185,068 ↓

Michigan Infrastructure & Transportation Association

21st Century Infrastructure Commission Report Update

- Estimates Michigan's transportation network cost \$9.0 billion per year to operate and maintain and could reach \$16.7 billion per year with limited or deferred maintenance.
- Investment in recommended maintenance can save Michigan residents money.
- Reconstruction is five to eight times more expensive per lane mile than preventive maintenance.
- There is a \$3.9 billion annual funding gap; could be larger depending on the maintenance approach



Michigan Infrastructure Council

Michigan's 30-Year Integrated Infrastructure Strategy (the Strategy)

- Long-term framework for addressing the critical needs of the infrastructure systems that support our quality of life and overall economy.
- Encourage community discussion, guide prioritization, promote sound investments, and minimize citizen inconvenience through more coordination and collaboration that can enhance infrastructure performance and improve the quality of life for Michigan's residents.
- Actions are identified with timeframes short, medium, and long.

[21st Century Infrastructure Report](#)



Asset Management

Vision

To integrate asset management practices and systems into everyday business operations and decision making to provide the desired level of service in a sustainable way, while managing risk, at the lowest lifecycle cost.





**THANK
YOU**