



# MOVING

mid-michigan

2045 METROPOLITAN TRANSPORTATION PLAN



What is the Tri-County Regional Planning Commission?

What is a Metropolitan Transportation Plan?

How Significant are Our Transportation Problems?

How Do We Know Any of This is Helping?

How Can You Get Involved?

# WHO ARE WE?

## The Tri-County Regional Planning Commission:

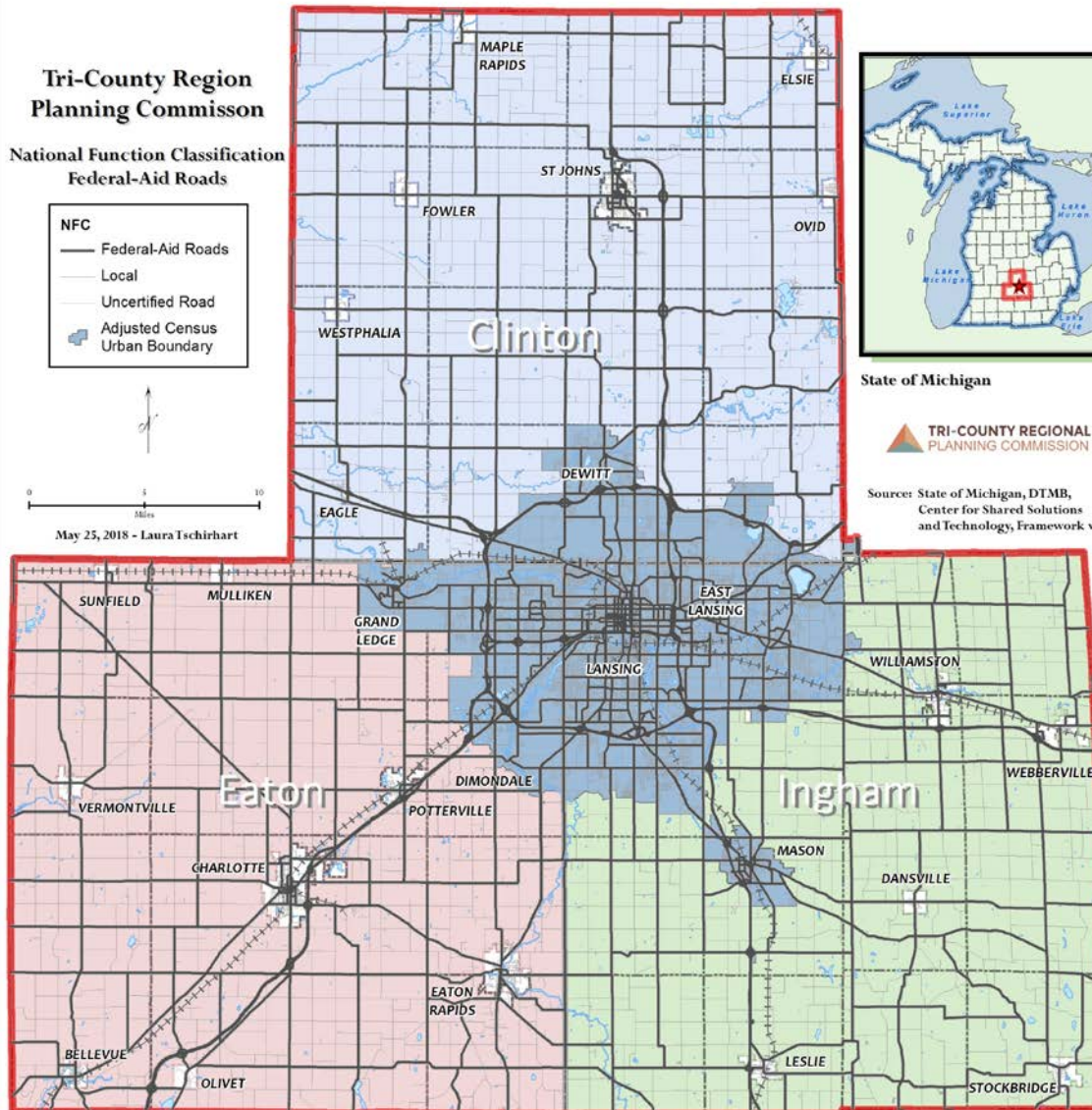
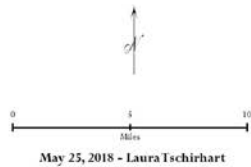
- Established in 1956
- Covers Clinton, Eaton, and Ingham counties
- Publicly funded (Federal, State, local)
- Areas of focus
  - Economic Development
  - Environmental
  - Land Use
  - Transportation
- Coordinates planning and implementation of federally funded transportation projects in the region



# Tri-County Region Planning Commission

## National Function Classification Federal-Aid Roads

NFC	
	Federal-Aid Roads
	Local
	Uncertified Road
	Adjusted Census Urban Boundary



State of Michigan



Source: State of Michigan, DTMB,  
Center for Shared Solutions  
and Technology, Framework v17



# WHAT IS THE 2045 METROPOLITAN TRANSPORTATION PLAN?



Federally-mandated document

Transportation investment strategy for next 25 yrs.  
Updated every four years  
No MTP = No Federal Funds



Addresses all modes of  
transportation

Safety  
Road Condition & Congestion  
Freight

Transit  
Air and Rail  
Non-Motorized



Uses the most recent data to  
assess needs and priorities

Population and employment forecasts  
Traffic count and travel time studies  
Pavement management inventory  
Safety/Crash data



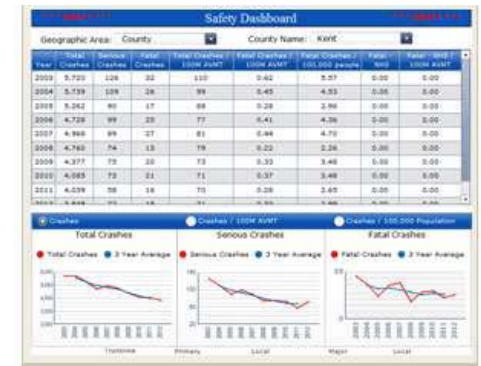
MTP must be financially  
constrained

Revenues must equal expenditures



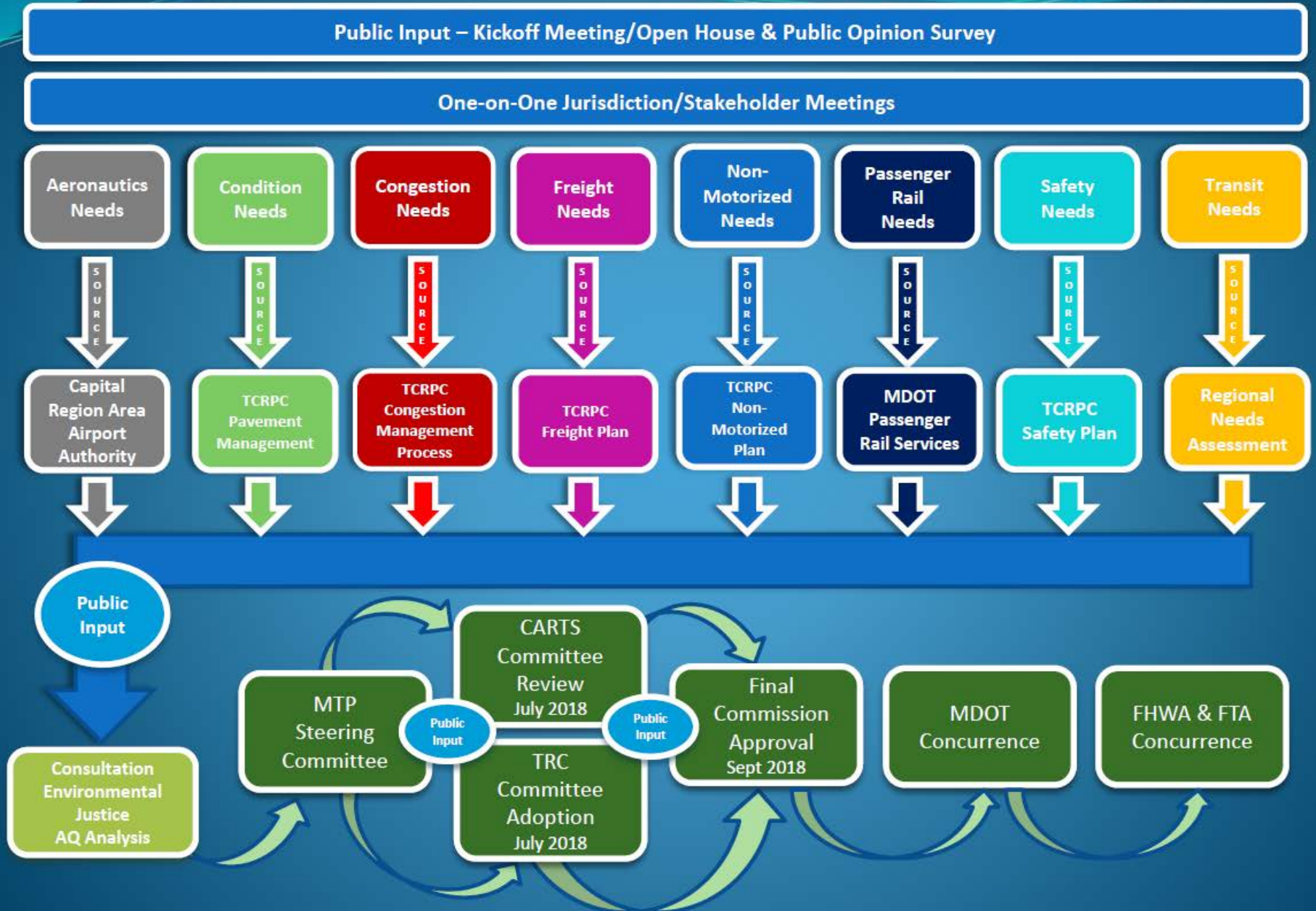
# PERFORMANCE MEASURES: MAKING SURE OUR APPROACH IS SOUND

- National Goals
  - MAP-21 established seven national, performance based goals which include:
    - Safety
    - Infrastructure Condition
    - Congestion Reduction
    - System Reliability
    - Freight Movement
    - Environmental Sustainability
    - Economic Vitality



- Performance Measures
  - Established at the national level, followed by states and MPOs developing their own performance targets in support of those measures
  - States and MPOs will be required to report on how project selection will help achieve the defined targets
  - Tri-County is working with MDOT and our transportation partners to address this requirement

# 2045 Regional Metropolitan Transportation Plan - Process



# MTP GOALS



- Enhance the economic vitality of the region.
- Increase the safety of the transportation system for all users.
- Increase the security of the transportation system for all users.
- Equitably provide enhancements.
- Protect and enhance the environment, promote energy conservation, improve the quality of life.
- Enhance the connectivity of the transportation system.
- Promote efficient system management and operation.
- Emphasize the preservation of the existing transportation system.
- Reduce or mitigate stormwater impacts of surface transportation.
- Enhance travel and tourism.



# WHO PARTICIPATES IN THIS PROCESS?

- General public
- Cities and villages in Clinton, Eaton and Ingham counties
- Clinton and Eaton County Road Commissions, Ingham County Road Department
- Greater Lansing Area Chamber of Commerce
- LEAP
- CATA
- Michigan Department of Transportation
- Capital Region International Airport
- Michigan State University
- Passenger rail and freight rail (e.g. Amtrak and CSX)
- Intercity passenger transit agencies (e.g. Greyhound)
- Federal Highway Administration
- Federal Transit Administration
- U.S. Environmental Protection Agency
- Michigan Department of Natural Resources
- Other private and public groups and interested organizations



# 2045 SOCIOECONOMIC DATA REVIEW

HISTORICAL AND FUTURE DATA FOR POPULATION, EMPLOYMENT, HOUSEHOLDS:

Tri-County Region	2000	2010	2015	2045
Population	447,728	464,495	473,587	527,352
Employment	299,735	268,957	281,206	292,627



# DEFICIENCY ANALYSIS



- Needs identification by mode/  
program area
  - Condition
  - Congestion
  - Transit
  - Non-Motorized
  - Freight
  - Safety
  - Aeronautics
  - Passenger Rail
- Alternatives analysis
- Project/program identification

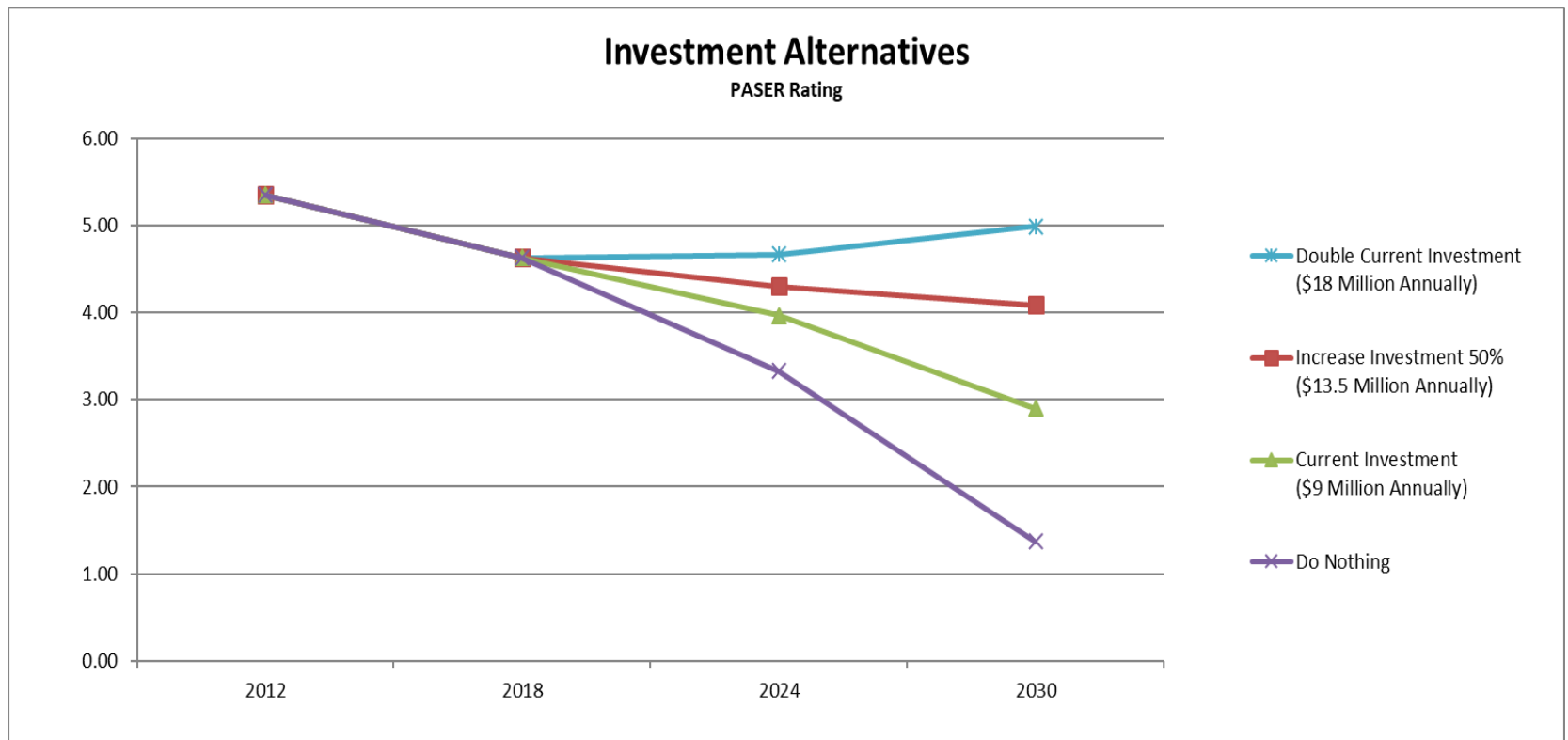
# ROAD PAVEMENT CONDITION

- 42% of non-trunkline federal-aid system is in good or fair condition today (2018)
- 26% of non-trunkline federal-aid system is projected to be in good or fair condition by 2030 with current funding levels and optimal maintenance practices
- To achieve 80% of the system in good/fair condition, an additional \$1.965 billion is required over the next 25 years





# ROAD PAVEMENT CONDITION



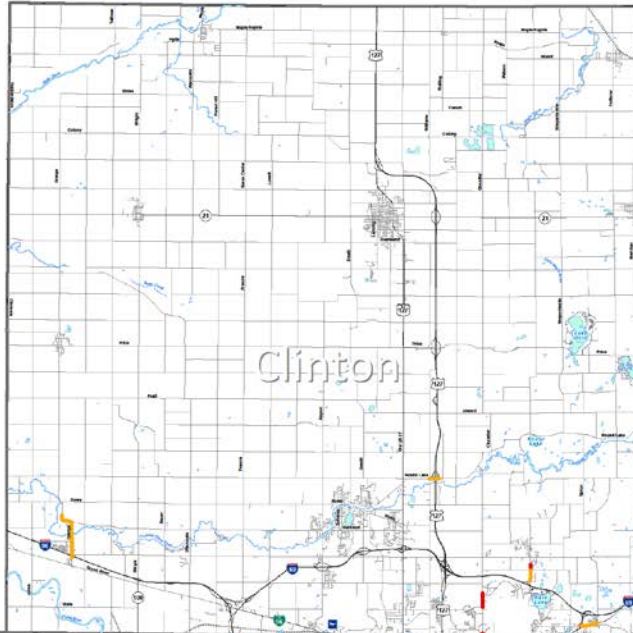
# ROADWAY CAPACITY DEFICIENCIES

- 4.1% of non-trunkline federal-aid system is currently over the 24 hour design capacity (Congested)
- By 2045 7.4% of non-trunkline federal-aid system will be over the 24 hour design capacity (Congested)
- 52 intersections have been identified as needing congestion relief
- To significantly address future congestion a total of **\$442,600,000** is needed through 2045





Lansing Area



# TRI-COUNTY REGION 2045 MODELED CONGESTION AM & PM PEAK PERIOD

## 2045 PM Congested Links

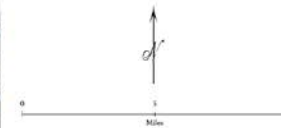
Volume to Capacity Ratio

1.00 or greater

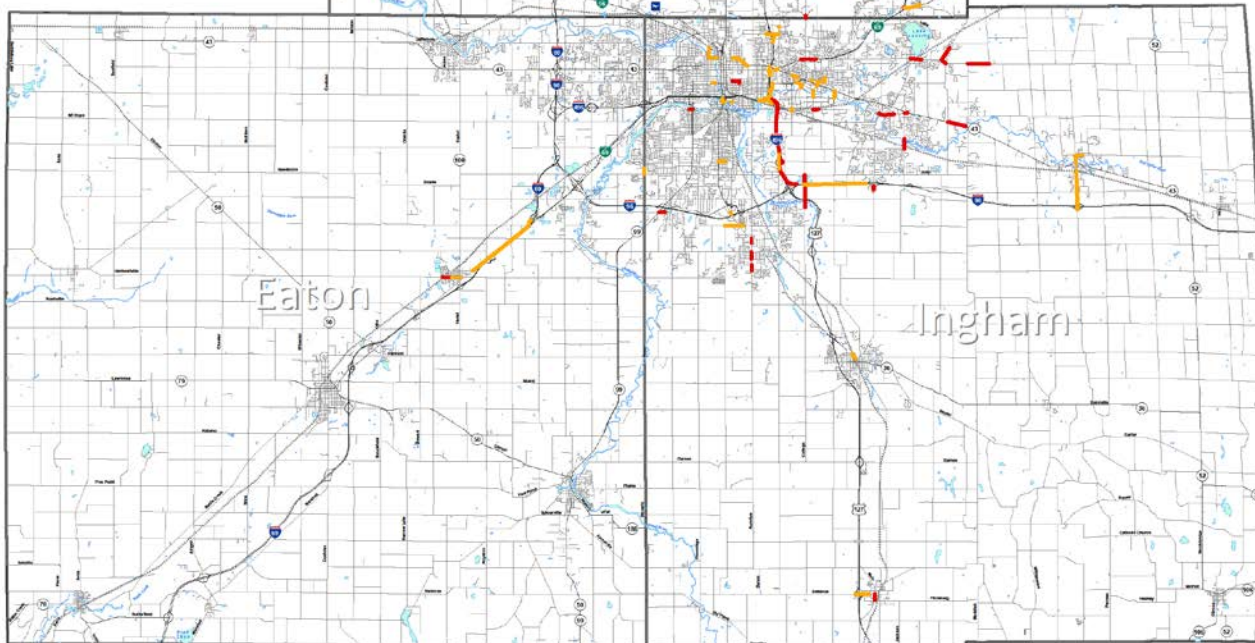
## 2045 AM Congested Links

Volume to Capacity Ratio

1.00 or greater



Source: Center for Shared Solutions and Technology,  
TCRPC Travel Demand Model 2045



# 2045 CONGESTION



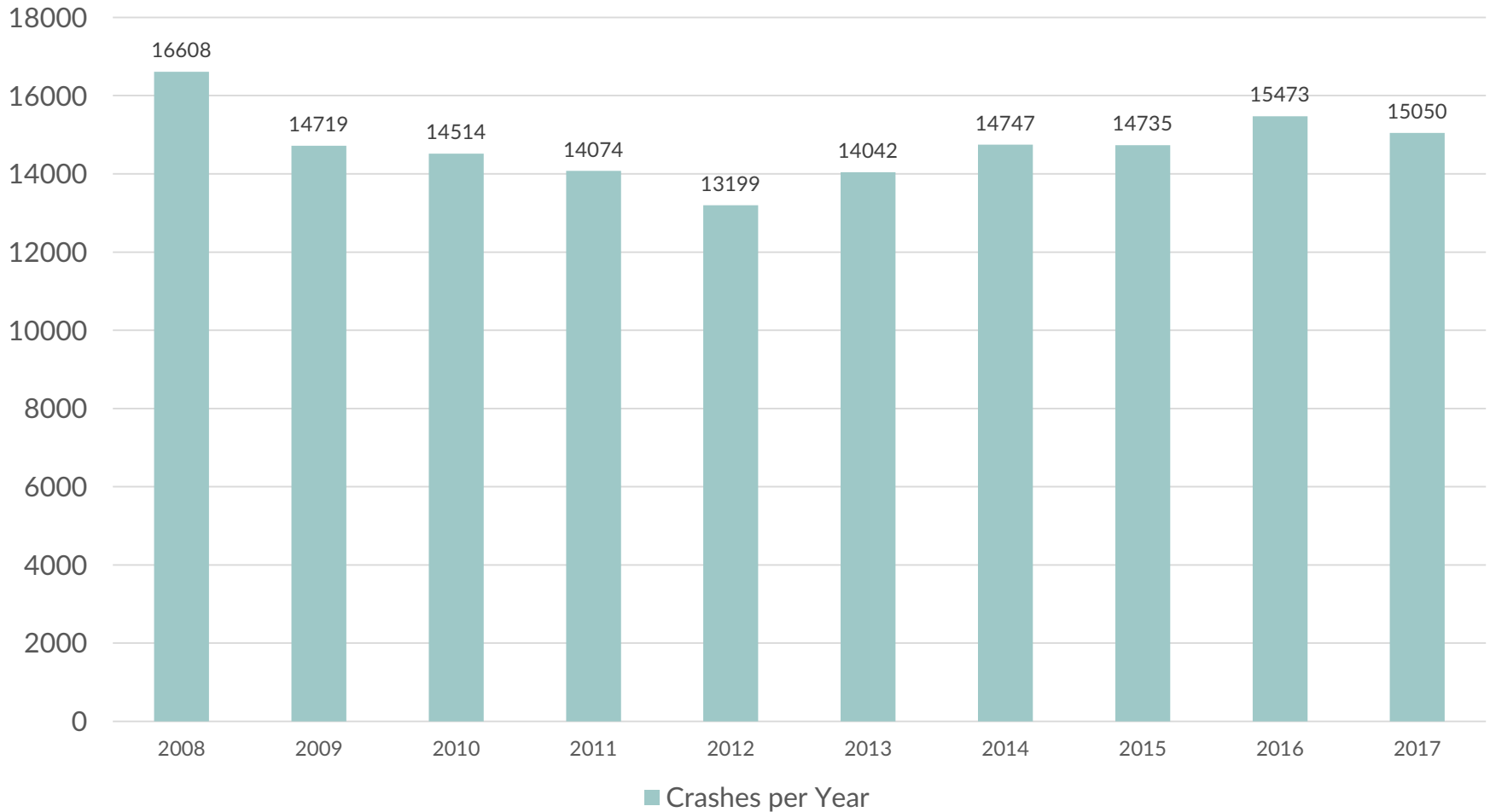
# SAFETY



- Traffic Crashes
  - 15,050 crashes in region in 2017
  - 37 fatal crashes in 2017
  - Down 11.4% in ten years
- Focus Areas
  - Distracted Driving
  - Intersections
    - 38% of crashes locally
    - Signalization
  - Corridors
    - 62% of crashes locally
    - Center turn lanes



# Traffic Crashes per Year



# NON-MOTORIZED TRANSPORTATION



## Existing non-motorized facilities

- 121 miles shared-use path
- 62 miles bicycle lane
- 136 side path
- 385 miles paved shoulders

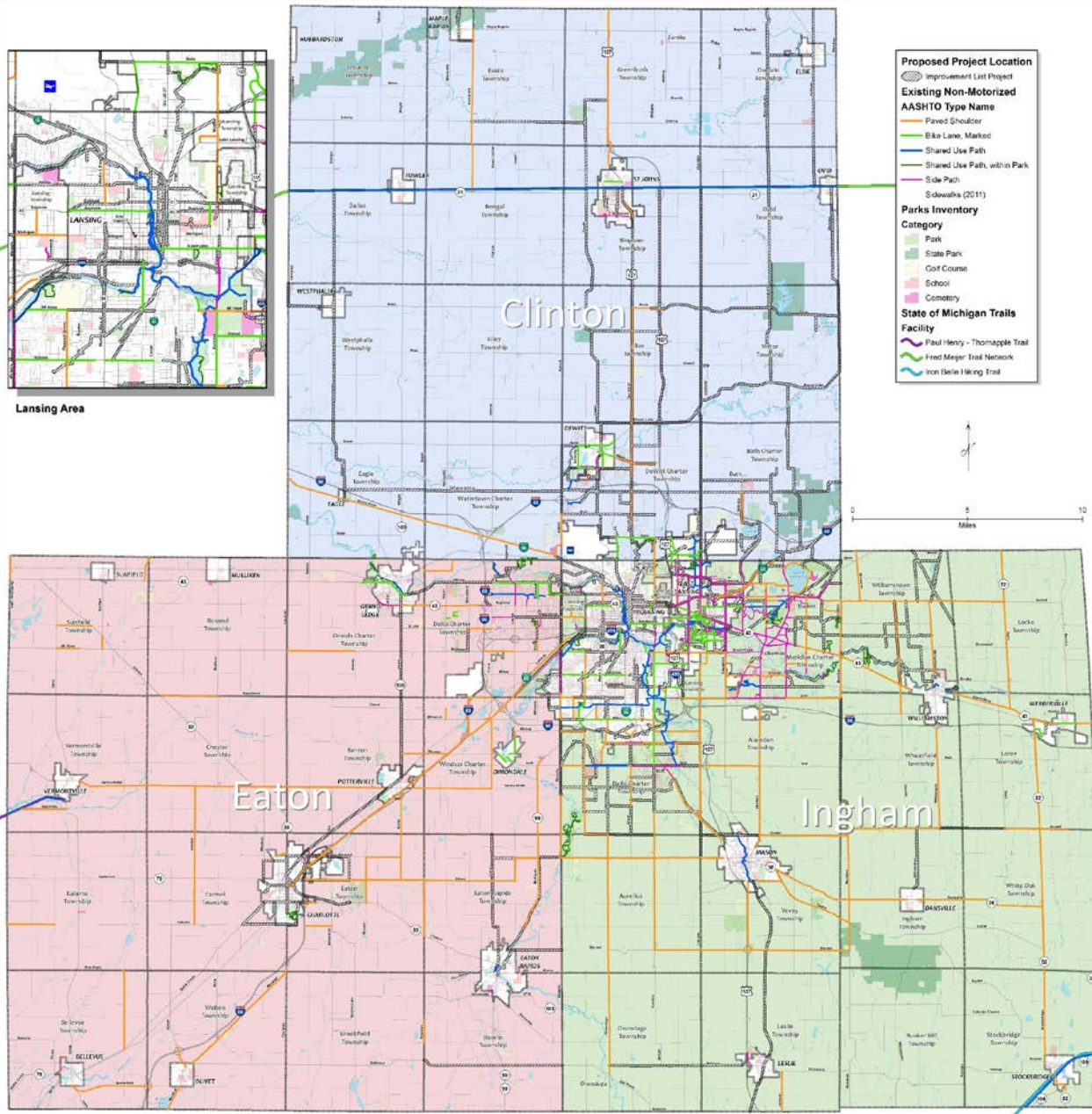


## Proposed non-motorized improvements in MTP

- \$140 million identified non-motorized needs



Lansing Area



# EXISTING NON- MOTORIZED NETWORK & IDENTIFIED NEEDS



# PASSENGER RAIL

- The Bluewater Passenger Rail
  - One of three Amtrak-operated Michigan routes
  - Nearly 375,000 riders in 2017
  - New East Lansing Amtrak Station opened in 2016





# FREIGHT

- Identified freight issues
  - Weight-restricted roads
  - Short line railroad limitations and equipment shortages
  - Preservation of rail corridors and spurs
  - Regional Rail Study



# HOW MUCH DO WE NEED FOR THE TRANSPORTATION SYSTEM BY 2045?

Element	Identified Need	Total Dedicated Funding	Unfunded Needs
Congestion	\$442,600,000	TBD	TBD
Non-Motorized	\$140,000,000	TBD	TBD
Pavement Condition	\$1,965,000,000	TBD	TBD
Safety	TBD	TBD	TBD
Transit	TBD	TBD	TBD
TOTAL	\$2,547,600,000+	TBD	TBD

# WE NEED YOU!

2045 METROPOLITAN TRANSPORTATION  
PLAN AND TRANSPORTATION IMPROVEMENT  
PROGRAM IS UNDER DEVELOPMENT

- Learn more at [www.MovingMidMichigan.org](http://www.MovingMidMichigan.org)
- Take a survey for the chance to win a \$50 gift card
- Public open houses & meetings
- Public comment form available 24/7



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Moving Mid-Michigan is produced by the



**TRI-COUNTY REGIONAL  
PLANNING COMMISSION**

# MTP NEXT STEPS



- Complete public outreach efforts (Sept 2018)
- Integrate public comments (Sept 2018)
- Determine all available funding (Oct 2018)
- Complete alternatives analysis (Feb 2019)
- Environmental Justice Analysis (March 2019)
- Air Quality Analysis (March 2019)
- Environmental Mitigation Analysis (March 2019)
- Draft Document (April 2019)
- Final Approval (May 2019)





# Questions?



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