

TRANSPORTATION PLANNING FOR THE FUTURE OF CENTRAL OHIO



MID-OHIO REGIONAL
MORPC
PLANNING COMMISSION

WHO IS MORPC?



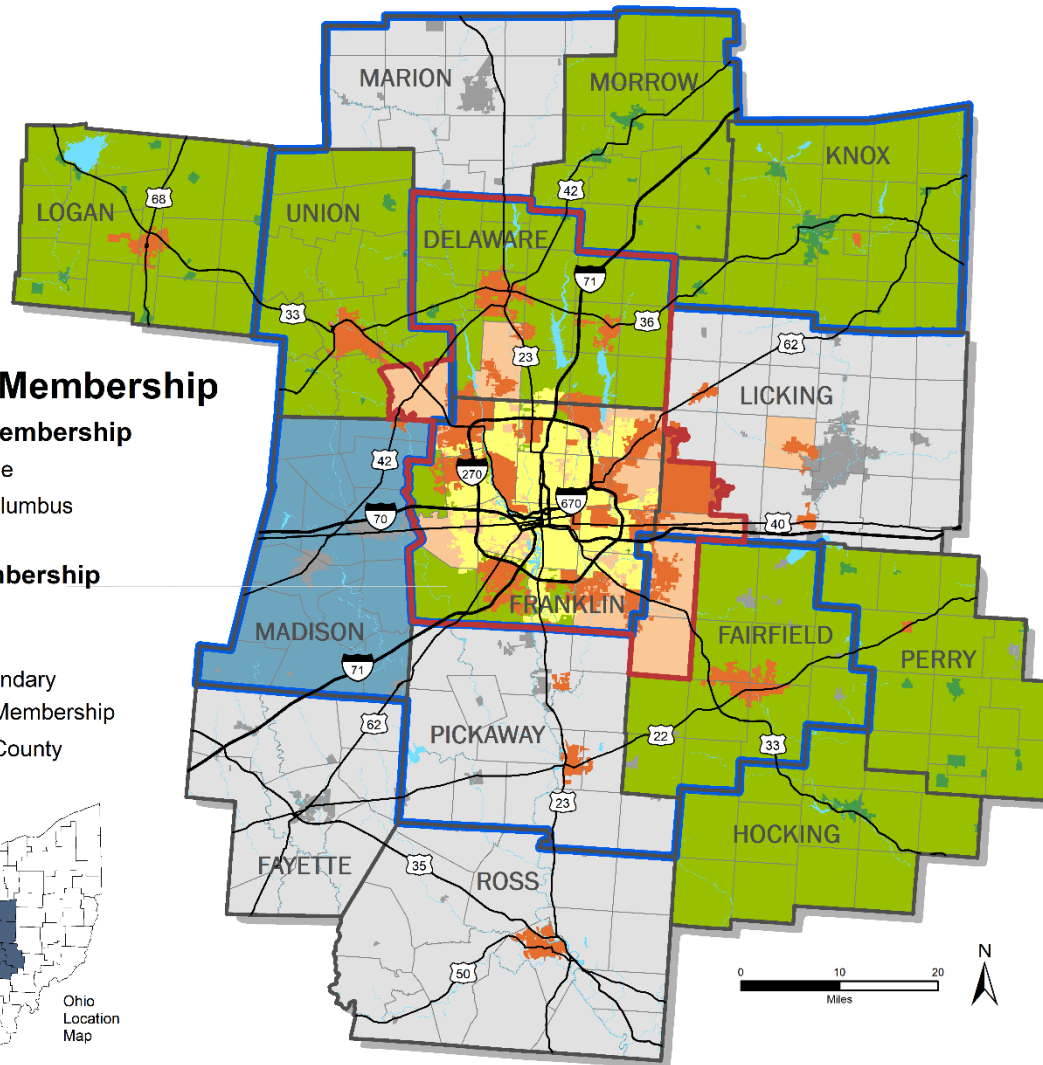
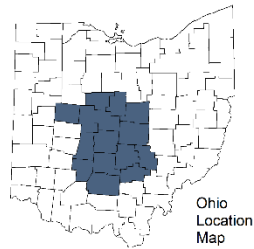
MORPC Membership

Individual Membership

- City/Village
- City of Columbus
- Township

County Membership

- County
- Township
- MPO Boundary
- CORPO Membership
- CORPO County



- Transportation & Infrastructure Development
- Planning & Sustainability
- Data & Mapping
- Residential Services
- Government Affairs
- Communications & Engagement

Metropolitan Planning Organization (MPO)

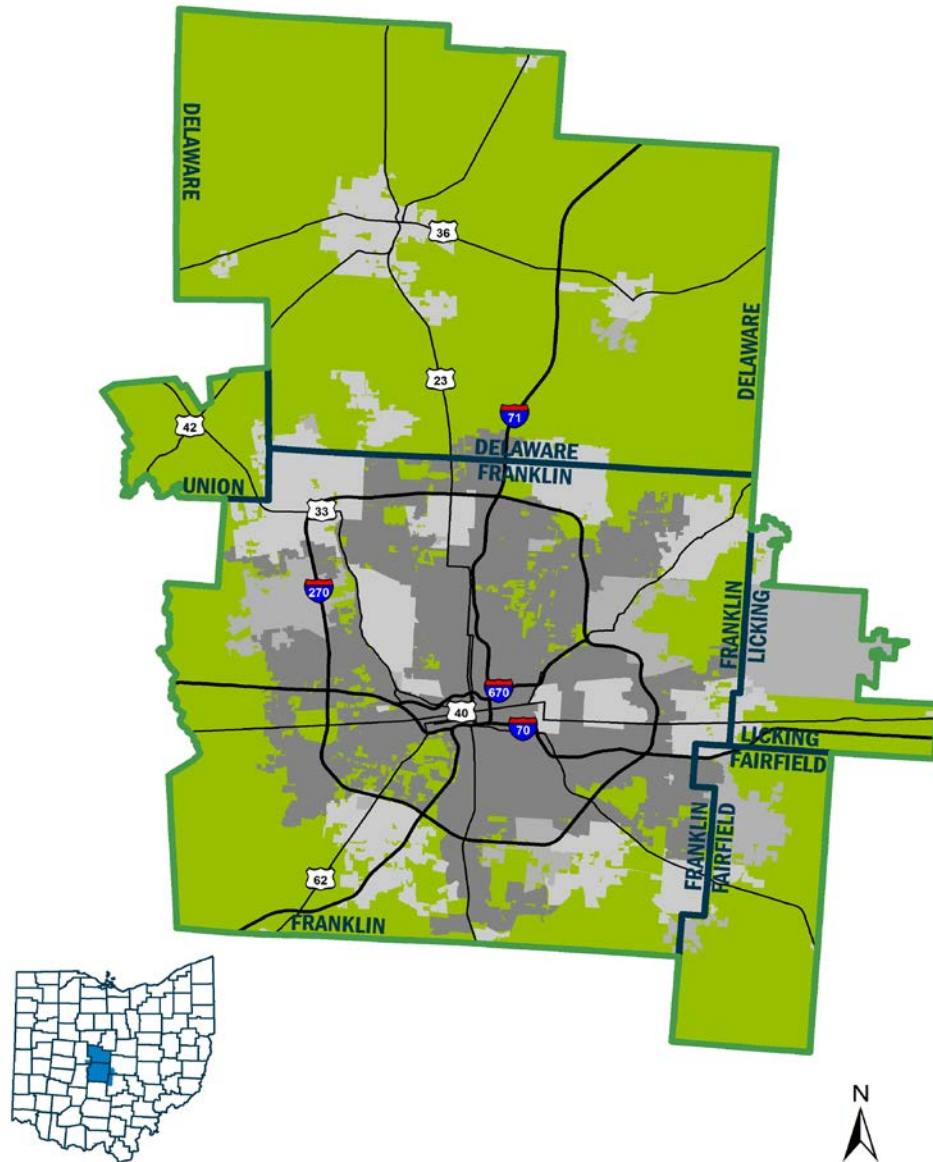


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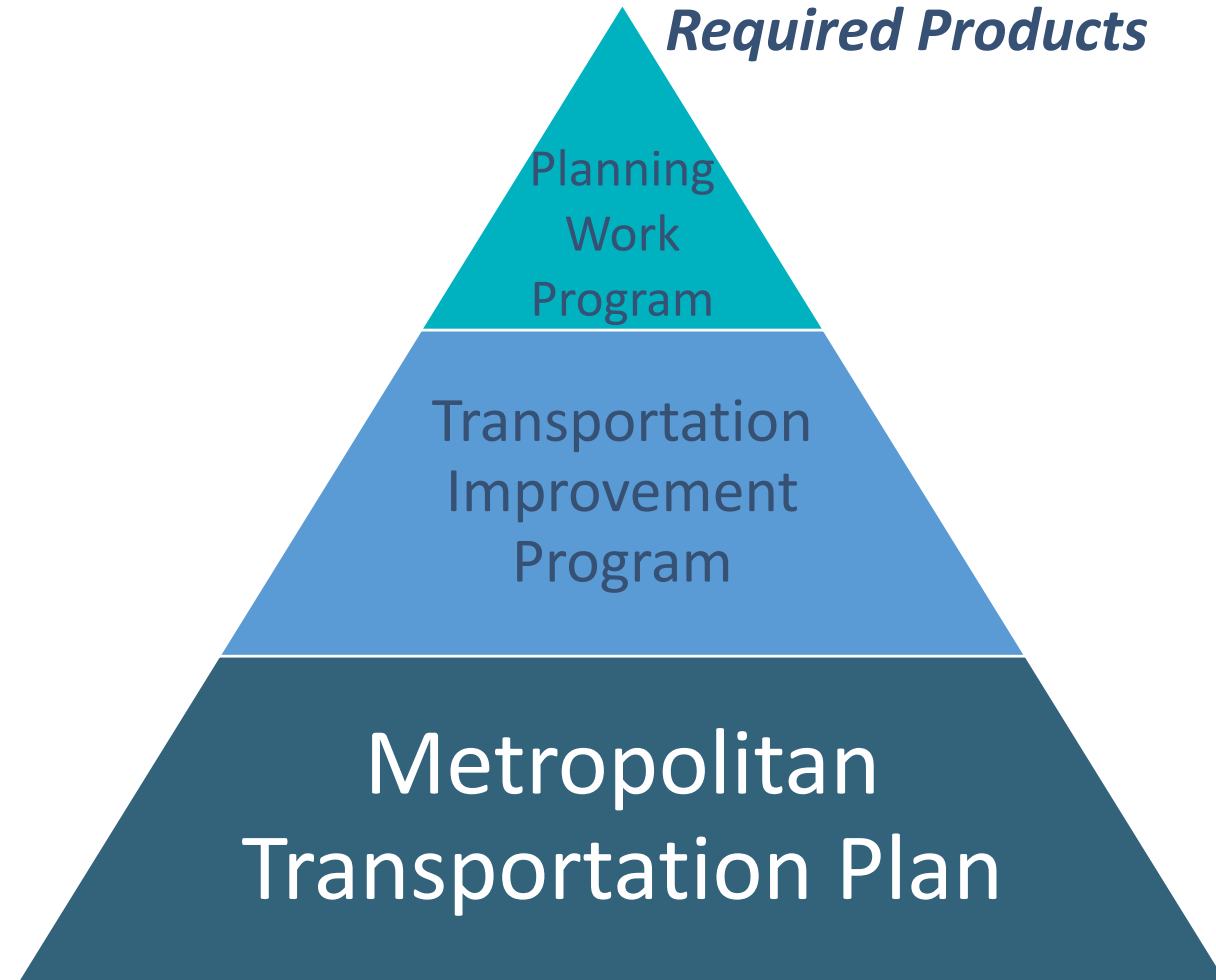
A metropolitan planning organization (MPO)

- **Federally mandated** and **federally funded transportation policy making**
- Created to ensure **regional cooperation in transportation planning**
- Urbanized areas over 50k per Federal-Aid Highway Act of 1962
- **Federal funding** for transportation projects and programs are **channeled through this planning process**
- Continuing, cooperative, and comprehensive ("**3-C**") **planning process**
- Statewide & MPO transportation planning processes are governed by federal law (23 U.S.C. §§ 134–135).
- **Transparency** (participation in planning process & electronic publication of plans) **required by federal law**

METROPOLITAN PLANNING AREA



Metropolitan Planning Organization *Required Products*



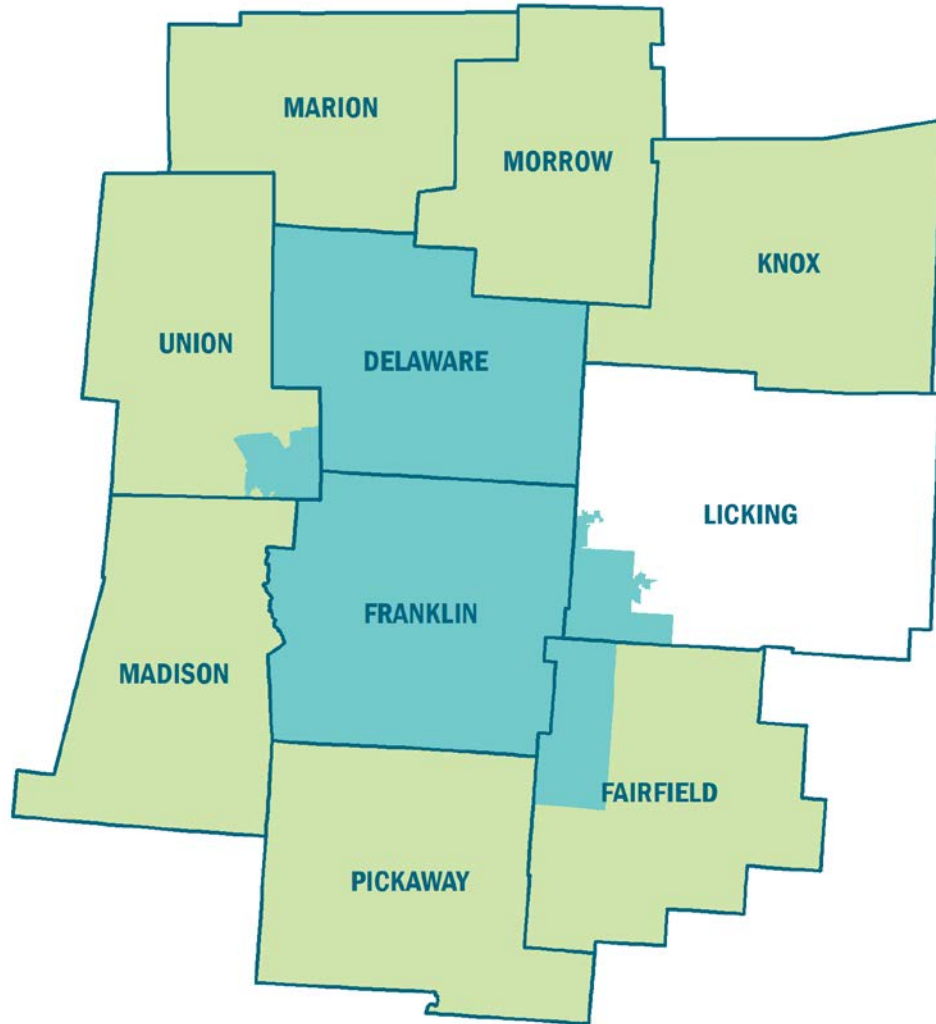
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RURAL TRANSPORTATION PLANNING AREA



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-  MORPC Metropolitan Planning Organization
-  Central Ohio Rural Planning Organization



MPOs & RTPOs State of Ohio



ODOT 2019 = \$5 Billion +

ODOT 2019 Federal Core = \$1.5 Billion

MPO Current Construction \$680 Million

MPO Current PE/ RW \$212 Million





TRANSPORTATION PLANNING PROCESS



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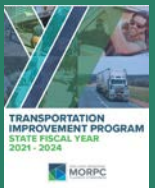
Stakeholders

Citizens

Decision Makers



Metropolitan Transportation Plan



Transportation Improvement Program

Projects

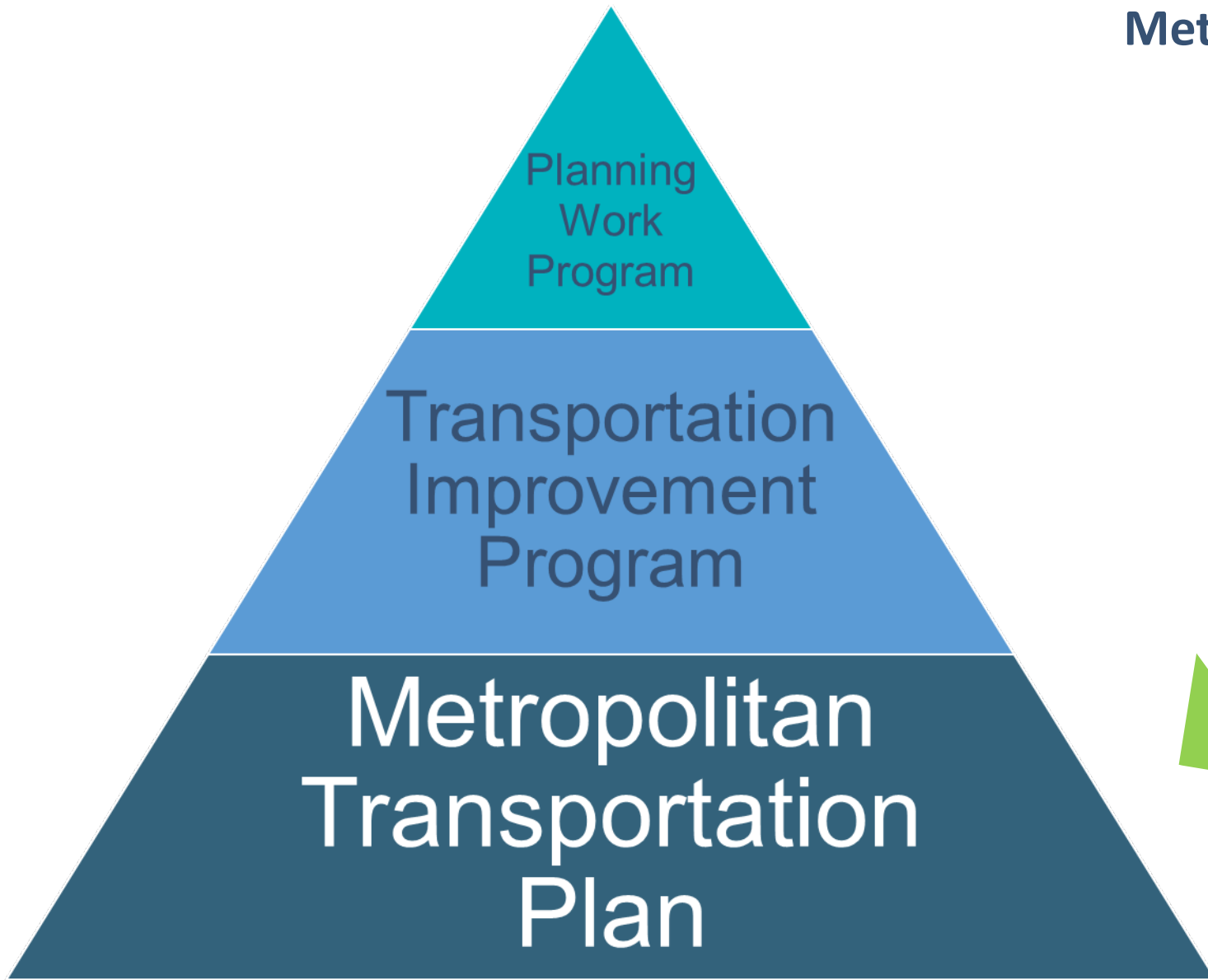
Evaluation Metric

MTP VS. TIP



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MTP	vs.	TIP
Both part of the continuing, cooperative & comprehensive (3-C) planning process		
Sets transportation goals & policies through 2050		Identifies specific projects & activities in each year through 2024
Estimates available resources through 2050		Identifies specific funding sources committed to each project & activity
Identifies desired changes to the system (projects) within available resources		Projects <u>must</u> be in the MTP
Updated entirely every 4 years, rarely amended		Updated entirely every 2 years, amended quarterly or more often



Metropolitan Planning Organization *Required Products*

The 2020-2050 Metropolitan Transportation Plan (MTP) establishes a set of regional transportation goals and objectives and recommends strategies—including projects—that will maintain, manage, and develop Central Ohio's transportation system through 2050.



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REGIONAL GOALS

REDUCE PER CAPITA ENERGY CONSUMPTION AND PROMOTE ALTERNATIVE FUEL RESOURCES TO INCREASE AFFORDABILITY AND RESILIENCE OF REGIONAL ENERGY SUPPLIES



PROTECT NATURAL RESOURCES AND MITIGATE INFRASTRUCTURE VULNERABILITIES TO MAINTAIN A HEALTHY ECOSYSTEM AND COMMUNITY



POSITION CENTRAL OHIO TO ATTRACT AND RETAIN ECONOMIC OPPORTUNITY TO PROSPER AS A REGION AND COMPETE GLOBALLY



CREATE SUSTAINABLE NEIGHBORHOODS TO IMPROVE RESIDENTS' QUALITY OF LIFE



INCREASE REGIONAL COLLABORATION AND EMPLOY INNOVATIVE TRANSPORTATION SOLUTIONS TO MAXIMIZE THE RETURN ON PUBLIC EXPENDITURES



USE PUBLIC INVESTMENTS TO BENEFIT THE HEALTH, SAFETY, AND WELFARE OF PEOPLE

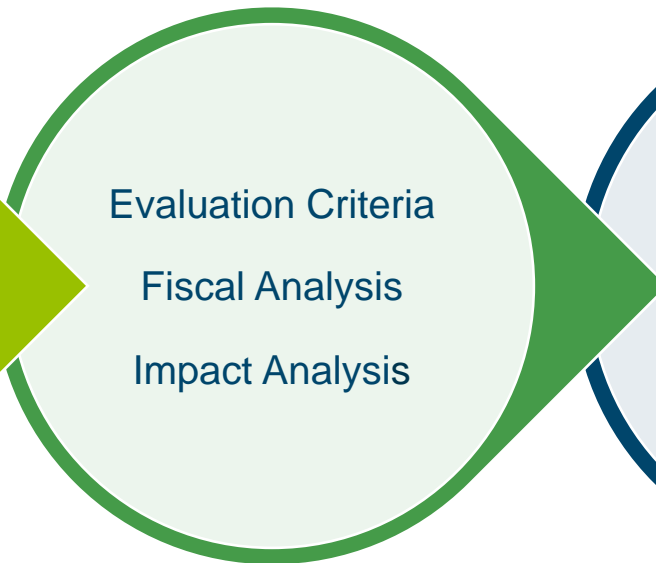




INPUT



PROCESS



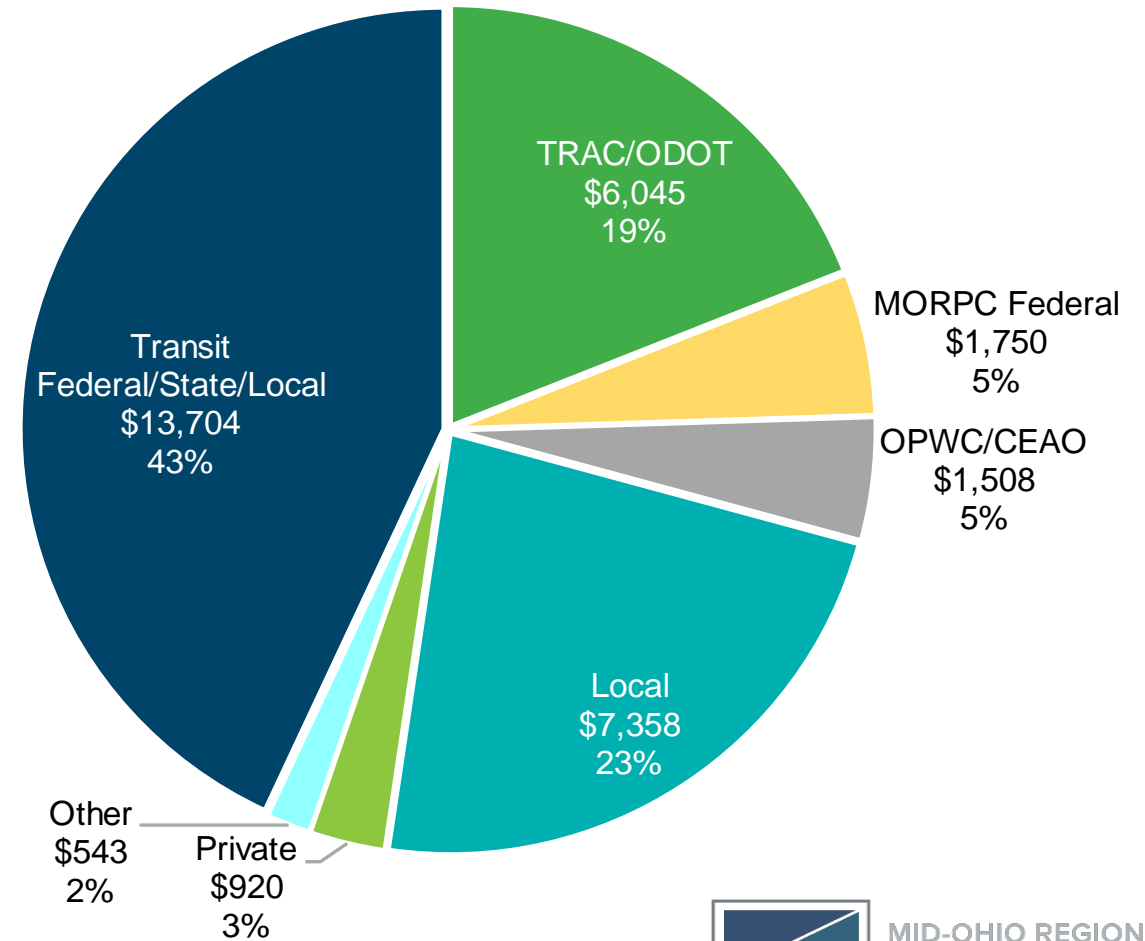
OUTPUT





FISCAL ANALYSIS – RESOURCES

- Federal – generally controlled through ODOT or MORPC program
- State – ODOT programs, Ohio Public Works Commission, or County Engineers Association of Ohio
- Local agency or private
- Assumes modest growth of current funding levels with some new funding in the region



SYSTEM DEVELOPMENT

- **Transit - \$12.4 billion**

- Five high-capacity transit projects covering 36 miles
- Maintain and expand COTA and DCT service
- Replacement vehicles and other capital expenses

- **Bicycle & Pedestrian - \$830 million**

- 415 miles of stand-alone bike and/or pedestrian facilities

- **Freeways - \$3.4 billion**

- 26 miles of freeways widened
- 17 miles of four-lane divided roadways converted to freeways
- 42 miles with lane management along freeways
- 25 interchange modifications
- 6 new interchanges

- **Non-Freeway Roadways - \$4 billion**

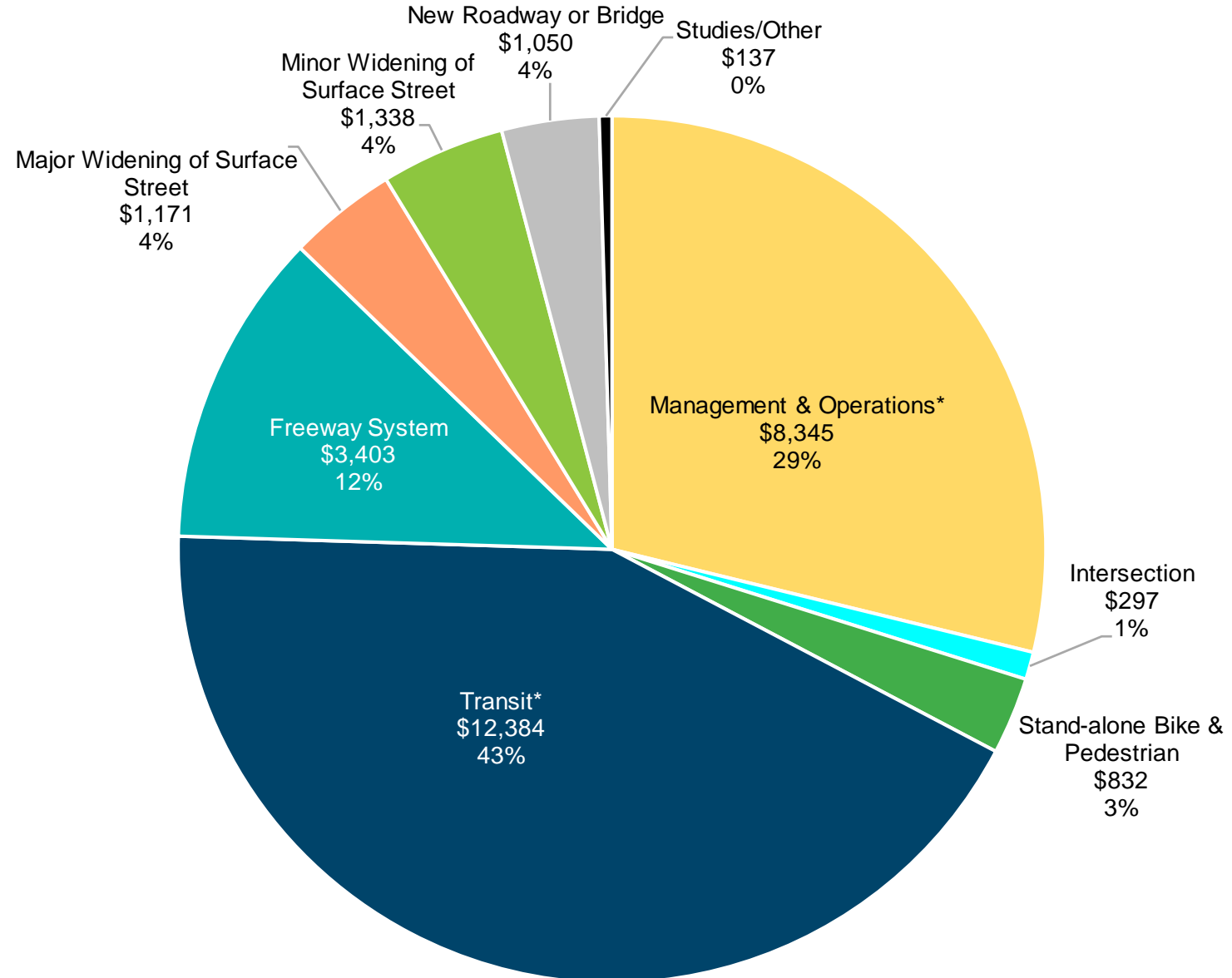
- 98 miles of new roadway connections
- 81 miles with through lane additions
- 120 miles with minor widening/safety improvements
- 149 intersection modifications



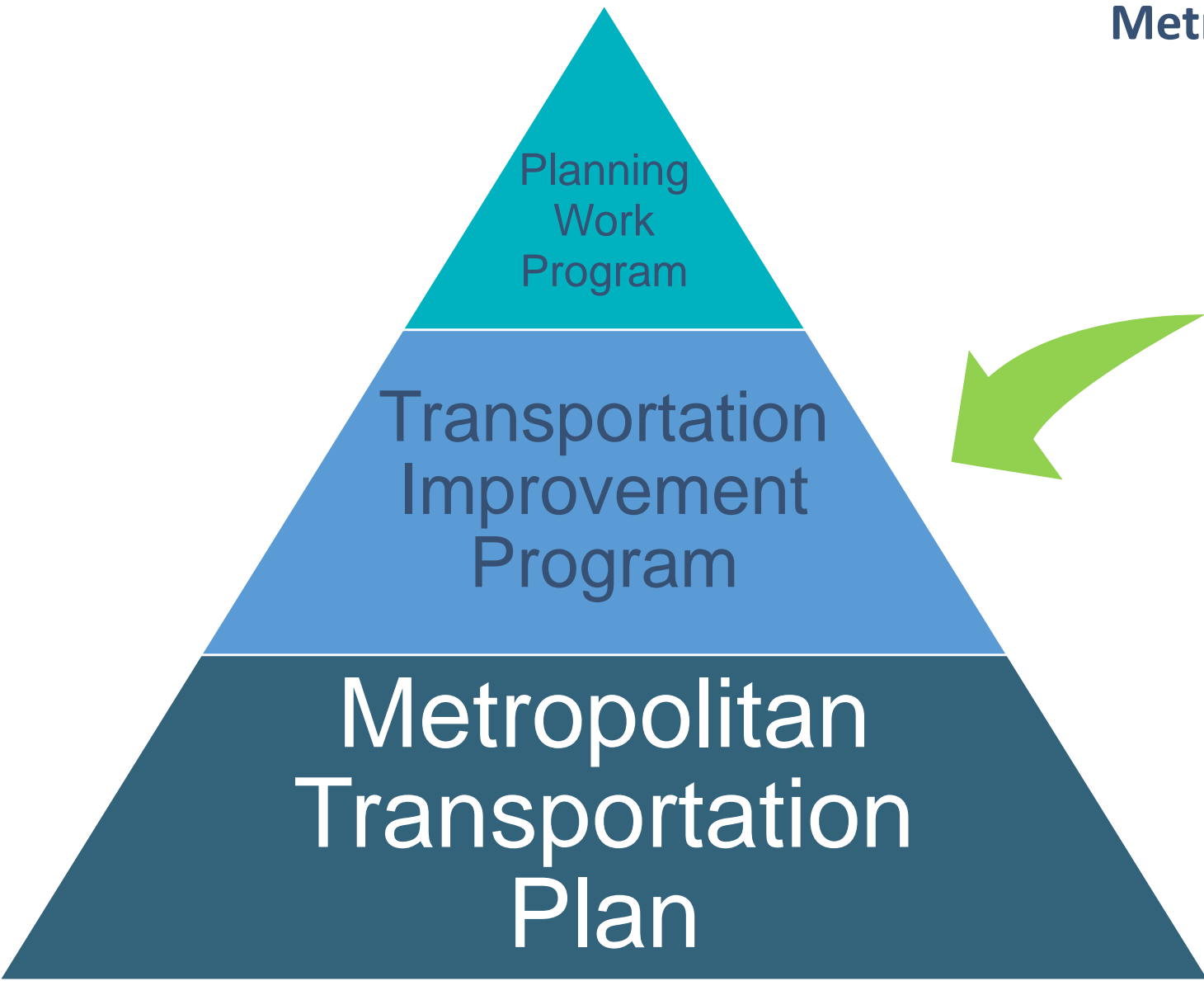
FISCAL ANALYSIS – EXPENDITURES

- Maintain and manage existing system
- Expand the system

Total: \$29.6 billion



*cost includes activities in addition to specific projects



Metropolitan Planning Organization *Required Products*

Through our Transportation Improvement Program (TIP), residents and communities can see what transportation projects in their area are receiving funding during the next four years.

It includes:

- Listing of the projects and programs*
- Specific funding sources we have committed to each*
- All projects receiving federal funding*
- Prioritizes the actions for performance targets established in the MTP*



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TIP PROJECT MAP

LEGEND

Construction Phase
FY 2021 - 2024

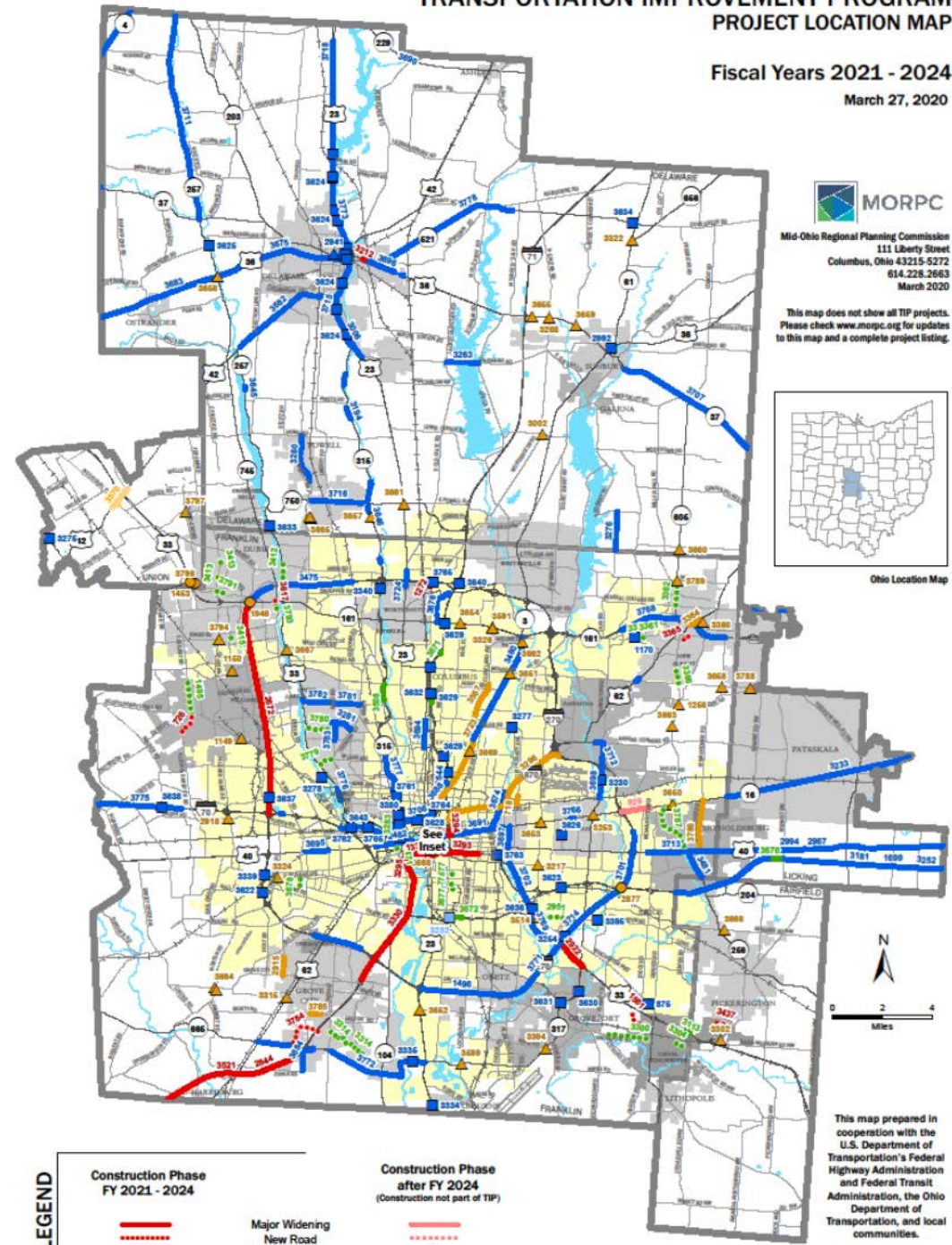
- Major Widening
 - New Road
 - New Interchange
 - Minor Widening/Safety Improvement
 - Interchange Modification
 - Intersection Modification
 - Maintenance/Resurfacing
 - Bridge Repair/Replacement
 - Traffic Signal Upgrade
 - Noise Barrier/Study/Other
 - Bikeway/Sidewalk/Transit
 - Transit/Study/Other
- 100 100 100 100

Construction Phase
after FY 2024
(Construction not part of TIP)

- Major Widening
 - New Road
 - New Interchange
 - Minor Widening/Safety Improvement
 - Interchange Modification
 - Intersection Modification
 - Maintenance/Resurfacing
 - Bridge Repair/Replacement
 - Traffic Signal Upgrade
 - Noise Barrier/Study/Other
 - Bikeway/Sidewalk/Transit
 - Transit/Study/Other
- 100 100 100 100

Planning Area

DOWNTOWN COLUMBUS



MORPC
Mid-Ohio Regional Planning Commission
111 Liberty Street
Columbus, Ohio 43215-5272
614.228.2663
March 2020

This map does not show all TIP projects. Please check www.morpc.org for updates to this map and a complete project listing.



LEGEND

- Construction Phase FY 2021 - 2024
- Construction Phase after FY 2024 (Construction not part of TIP)

This map prepared in cooperation with the U.S. Department of Transportation's Federal Highway Administration and Federal Transit Administration, the Ohio Department of Transportation, and local communities.



TIP CONTENTS

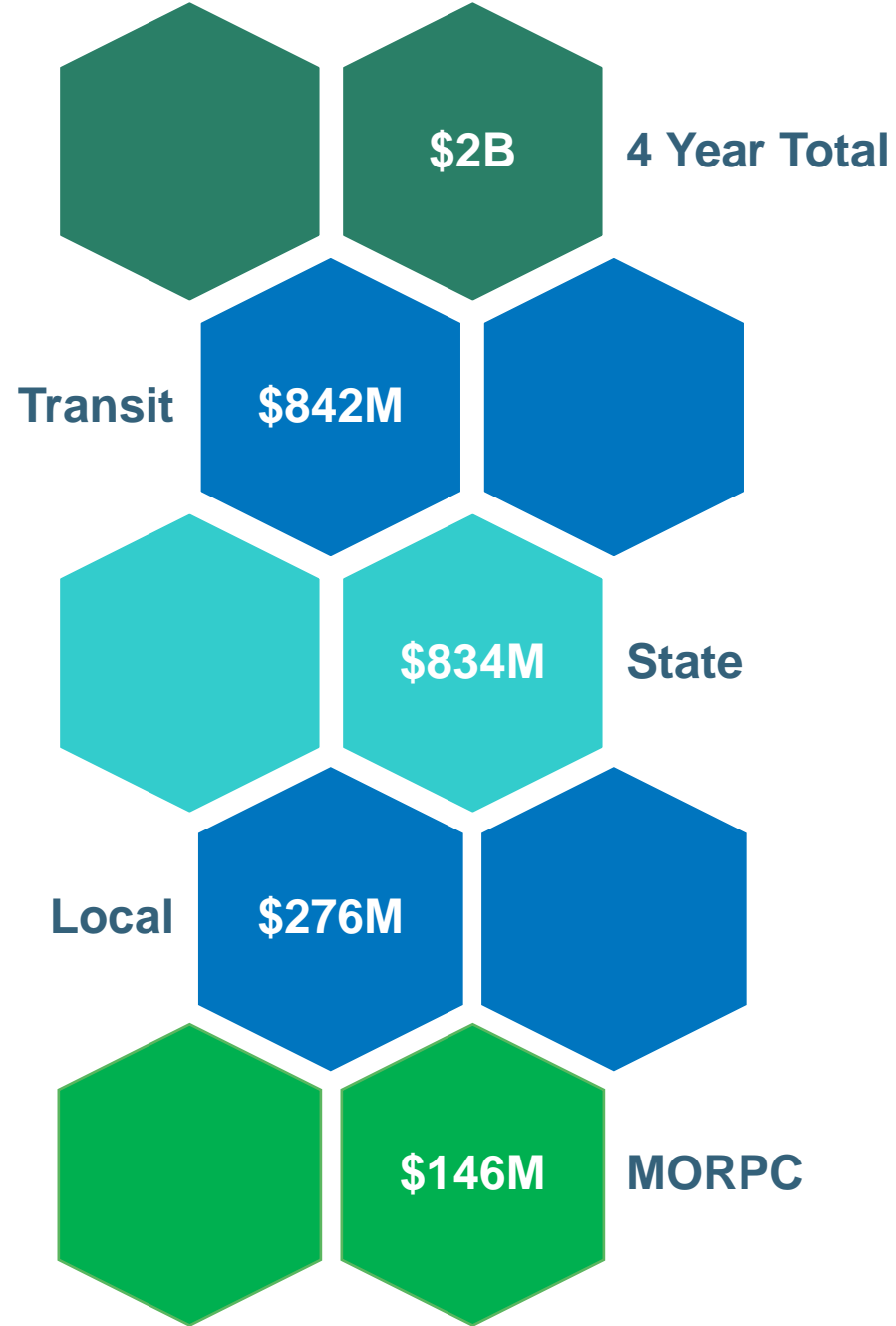
- Description of TIP process & public participation
- Project selection process
- Progress toward performance targets
- Analysis of impacts
 - Air quality
 - Disadvantaged populations
- Detailed listing of projects
 - Individual projects
 - Grouped projects
- Status of projects from previous TIP



TIP by the NUMBERS



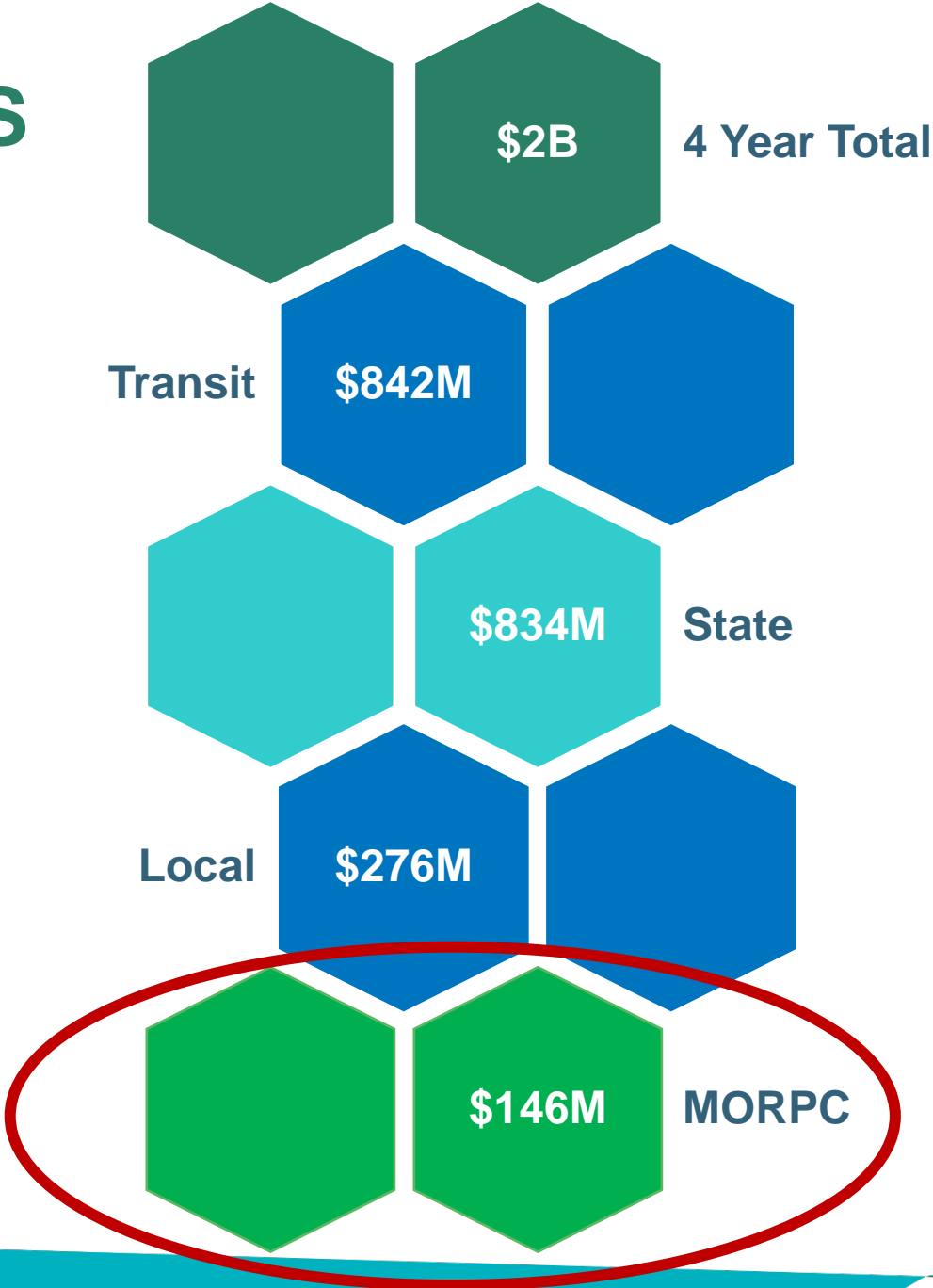
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TIP by the NUMBERS



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REVISING THE TIP

- Applies to individual projects
- Amendments
 - Major changes to scope or funding amount
 - Add or delete projects
 - Affects fiscal balance or air quality analysis
 - Approved by resolution
- Administrative Modifications
 - Minor changes to scope or funding amount
 - Split or combine projects
 - Change of fiscal year
 - Approved by MORPC staff

PERFORMANCE MONITORING

2018-2040 Columbus Area Metropolitan Transportation Plan

2019 Report Card

- Energy
- Economic Opportunity
- Natural Resources
- Collaboration
- Sustainable Neighborhoods
- Health, Safety & Welfare

MORPC PLANNING COMMISSION
www.morpc.org/mtp2040

<https://www.morpc.org/wordpress/wp-content/uploads/2019/07/Report-Card-Digital-2019.pdf>

Of the specific projects identified, construction has started on:



*Category includes access management, lane management, other traffic operations management. Project built in 2019 is the hard-shoulder running along I-670, branded as SmartLane.

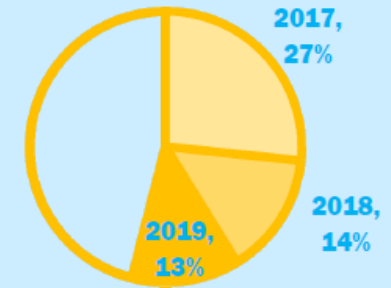
**In addition to one funded project, 18 high capacity transit corridors are listed in the MTP for further study, two of which (and portions of others) have had study activity completed through insight2050 Corridor Concepts.

Other Construction Activity

Many smaller activities are included by categorical line item in the MTP and not individually identified. Among these categories are isolated intersections/ coordinated signalization and additional stand-alone bike/pedestrian projects.

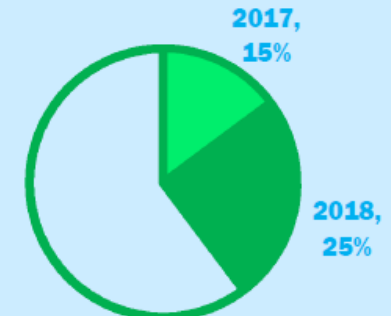
Isolated Intersections & Coordinated Signalization

20 projects totaling over \$68 million have gone to construction since the MTP adoption, utilizing 54% of the \$149 million forecasted.



Stand-alone Bike/Pedestrian Projects

Six projects totaling over \$29 million have gone to construction since the MTP adoption, utilizing 40% of the \$75 million forecasted.



MORPC PERFORMANCE MONITORING

2016-2040 Columbus Area Metropolitan Transportation Plan

2019 Report Card

- Energy
- Economic Opportunity
- Natural Resources
- Collaboration
- Sustainable Neighborhoods
- Health, Safety & Welfare

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<https://www.morpc.org/wordpress/wp-content/uploads/2019/07/Report-Card-Digital-2019.pdf>

Measure	Benchmark (2016)	2019 Grade	2020 Target	2040 Target	Notes
% commuters driving alone	82%	On track	80%	75%	Vehicle miles traveled per capita have increased slightly since 2016, but still achieve the 2020 target.
% commuters riding transit, bicycle, or walking	5%	On track	6%	10%	Mode share has shifted away from both 2020 targets.
Vehicle miles traveled (VMT) per capita	9,700	On track	9,200	8,800	
Meet EPA air quality standards for each pollutant	None Non-Attainment PM2.5 Attainment	On track	None Attainment PM2.5 Attainment	None Attainment PM2.5 Attainment	Exceedances chart showing a general downward trend from 2008 to 2018.
Number of freeway locations at risk for flooding	3	On track	3	2	A detention basin installed as part of the I-71/Stringtown Rd. interchange project should resolve ongoing flooding issues in the southbound right lane of I-71.
Jobs reachable within 20 minutes via automobile	332,000	On track	350,000	365,000	Jobs reachable within 20 minutes via automobile has declined, but remained steady.
Jobs reachable within 40 minutes via transit	32,000	On track	35,000	38,500	Jobs reachable within 40 minutes via transit has surpassed both 2020 and 2040 targets.
% of vehicle miles traveled under congested conditions	Daily: 3.1% Peak: 6.9%	On track	Daily: <5% Peak: <10%	Daily: <5% Peak: <10%	Travel under congested conditions is within the targeted range, but travel uncertainty has increased.
Region-wide uncertainty index	AM Peak: 1.51 PM Peak: 1.35	On track	1.3	1.25	
% communities with adopted complete streets policies	14%	On track	45%	100%	Franklin County adopted a complete streets policy this year, and two communities have policies in development.
People + jobs per acre (activity density) within 3/4 mile of arterials	4.3	On track	5	6	The 2020 targets for activity density and sidewalk coverage have been reached.
% of arterials and collectors with sidewalk coverage	98%	On track	40%	85%	While the percent of population living within 3/4 mile of transit stops has remained steady and below the target, the percent of population living within 3/4 mile of a bikeway continues to increase.
% of population living within 3/4 mile of a transit stop	70%	On track	72%	80%	
% of population living within 3/4 miles of a bikeway	71%	On track	72%	80%	
% of funding from non-public sources on transportation projects	1.3%	On track	5%	20%	Percentage of new projects using non-public funding has remained steady and is not meeting set targets.
% of projects utilizing innovative initiatives	1%	On track	4%	8%	Percentage of new projects utilizing innovative initiatives has surpassed the 2020 and 2040 targets.
% of mileage utilizing coordinated ITS technologies	20%	On track	30%	90%	Coordinated Intelligent Transportation System mileage and mileage under surveillance have increased and have met near-term targets.
% of transit vehicles/facilities with surveillance capabilities	79%	On track	90%	100%	Surveillance capabilities in transit vehicles and facilities has decreased.
% of arterials and above under video surveillance	18%	On track	25%	90%	
Average trip travel time for disadvantaged populations compared to regional average	5% less than average	On track	Within 5%	Within 5%	Travel time for disadvantaged populations remains within 5% of the regional average travel time.
% of bridges with GA ratings of 5 or better	95%	On track	95%	98%	Bridge and pavement conditions have remained steady and within targets.
% of pavement miles in unacceptable conditions	5%	On track	No more than 5%	No more than 5%	The percentage of transit fleet older than useful life has increased, and is not on track to meet the 2020 target.
% of transit fleet older than useful life	6%	On track	0%	0%	Approximately 170 miles of bikeways have been built or accounted for since MTP adoption, surpassing the near-term target.
Total miles of bikeways	580	On track	630	830	Crashes in all three categories have remained relatively steady. Reducing crash rates continues to be a challenge for the region.
Fatalities per 100 million VMT	0.69	On track	0.63	0.42	
Serious injuries per 100 million VMT	6.4	On track	5.83	3.91	
Number of fatalities	96	On track	10% reduction	39% reduction	
Number of serious injuries	896	On track	10% reduction	39% reduction	
Number of non-motorized fatal and serious injuries	138	On track	10% reduction	39% reduction	

The State of Ohio Transportation System Performance

2020 REPORT

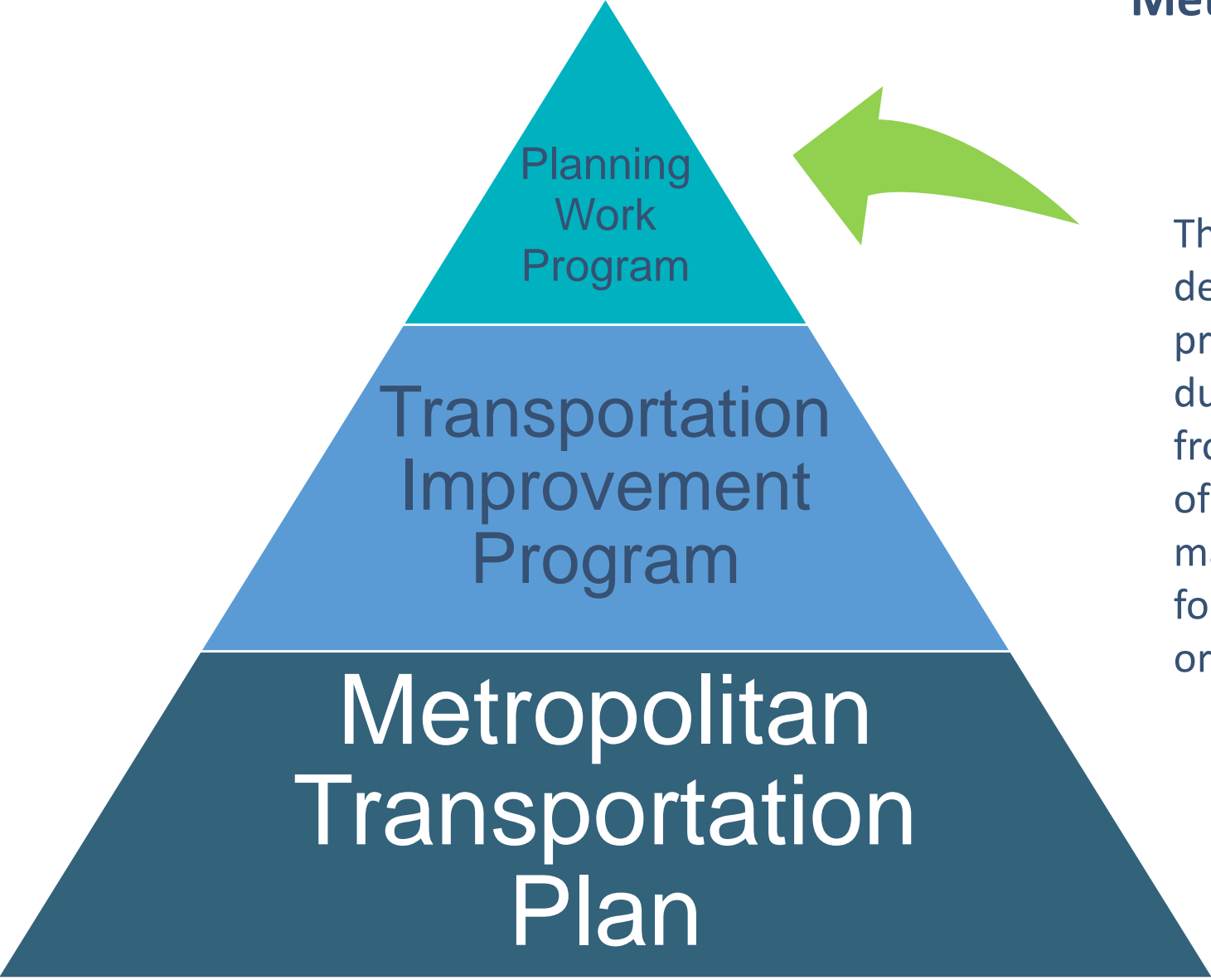
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OHIO DEPARTMENT OF TRANSPORTATION





Metropolitan Planning Organization *Required Products*



The Planning Work Program (PWP) describes the transportation planning, projects and studies we conduct during the state fiscal year running from July 1 through June 30. It is one of three major planning documents mandated by the federal government for metropolitan planning organizations.



PLANNING WORK PROGRAM

- FORMULA FUNDED ACTIVITIES **\$2.9M**
 - Active Transportation Planning
 - Safety
 - Traffic Forecasting & Modeling
 - Transportation Improvement Program (TIP)
 - Metropolitan Transportation Plan (MTP)
- SPECIAL STUDIES **\$1.3M**
 - Rapid Speed Transportation Initiative
 - Rickenbacker Area
 - LinkUS efforts
- RIDESHARE/ AIR QUALITY **\$1.2M**
 - Gohio
 - Alerts & more



LET'S TALK ABOUT FEDERAL FUNDING.....



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Intermodal Transportation Authorization Bills



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- Intermodal Surface Transportation Efficiency Act (ISTEA)
1991
- Transportation Equity Act for the 21st Century (TEA-21)
1998
- Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU)
2005
- Moving Ahead for Progress in the 21st Century Act, (MAP-21)
2012
- Fixing America's Surface Transportation Act (FAST)
2015

The FAST Act

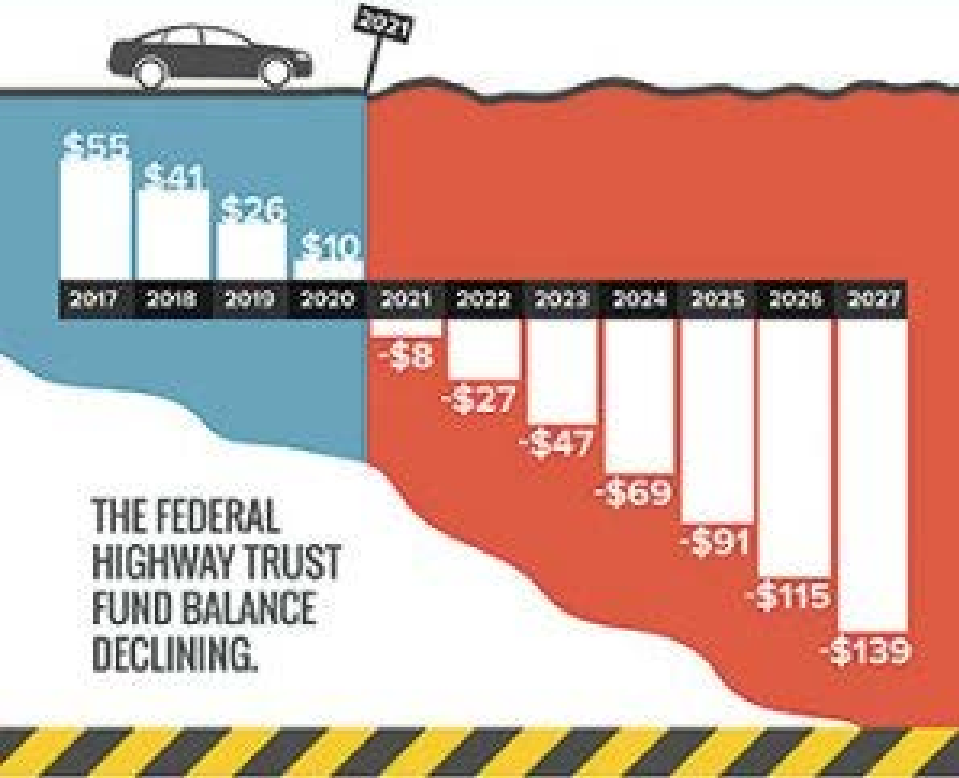


- **\$305 Billion**
 - FFY2016 –FFY2020 (ended on September 30, 2020)
- **October 1, 2020 Continuing Resolution**
 - Continuing Appropriations Act, 2021 and Other Extensions Act
 - All other areas through Dec. 11, 2020
 - Provides a one-year extension to surface transportation programs

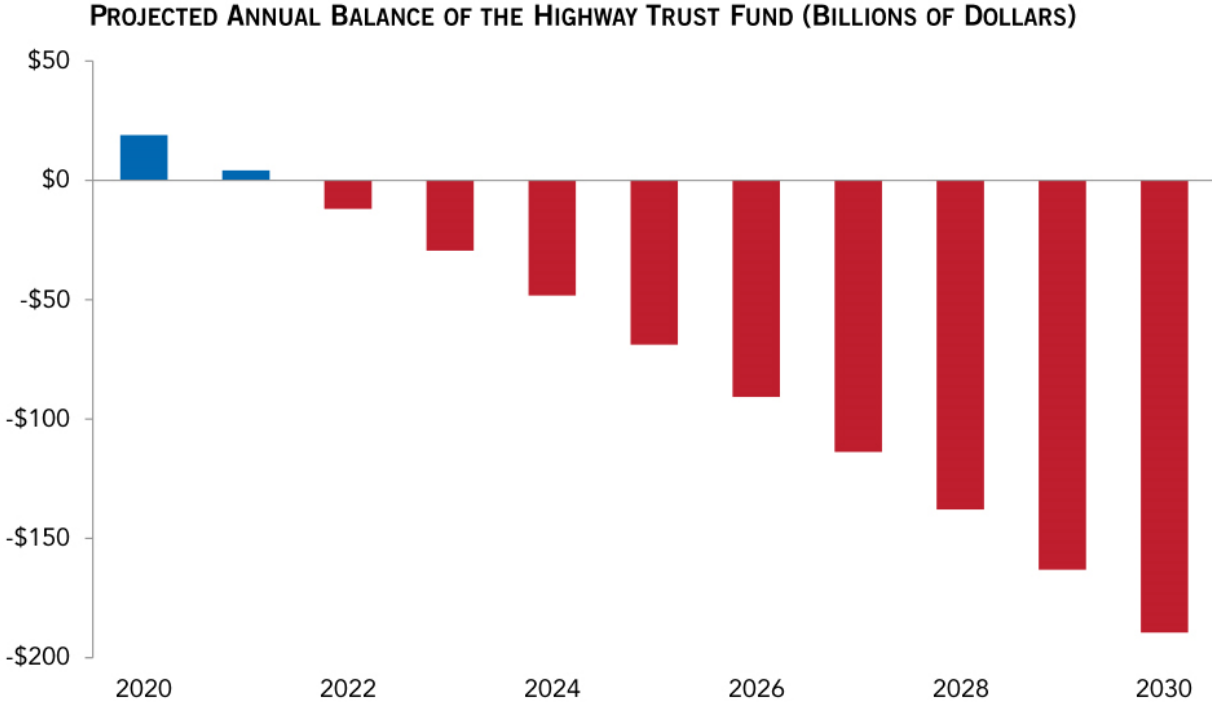
The Highway Trust Fund



FEDERAL HIGHWAY TRUST FUND BALANCE FY 2017 - FY 2027 (IN BILLIONS)



From 2020 to 2030, the Highway Trust Fund is projected to accumulate a funding shortfall of nearly \$190 billion



SOURCE: Congressional Budget Office, *Reauthorizing Federal Highway Programs: Issues and Options*, May 2020.
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Infrastructure Package / Bill

Recent History...



- 2009 America Recovery and Reinvestment Act (ARRA)
 - \$800 Billion (Obama)

- 2016 Proposal for Infrastructure Package
 - \$1 Trillion (Trump)

Federal Stimulus Legislation

Existing Legislation

Proposed Legislation

Families First Coronavirus Response Act
\$15.4 billion

Paycheck Protection Program and Health Care Enhancement Act
\$483 billion

American Rescue Plan
\$1.9 trillion

Federal Earmarks
~\$15 billion

American Jobs Plan
\$2.3 trillion

American Families Plan
\$1.8 trillion

Coronavirus Preparedness and Response Supplemental Appropriations Act
\$7.8 billion

Coronavirus Aid, Relief, and Economic Security (CARES) Act
\$2.1 trillion

Coronavirus Response and Relief Supplemental Appropriations Act
\$900 billion

- Direct congressional provisional spending for specific districts, states and/or community projects

- Federal spending on transportation infrastructure, housing, schools, water, broadband, care for elderly + people with disabilities, R&D, manufacturing

- Funding for child care, paid and family medical leave, education (universal pre-kindergarten, community college) health care, drug pricing

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