

# 2050 MTP

**Appendix E:** 

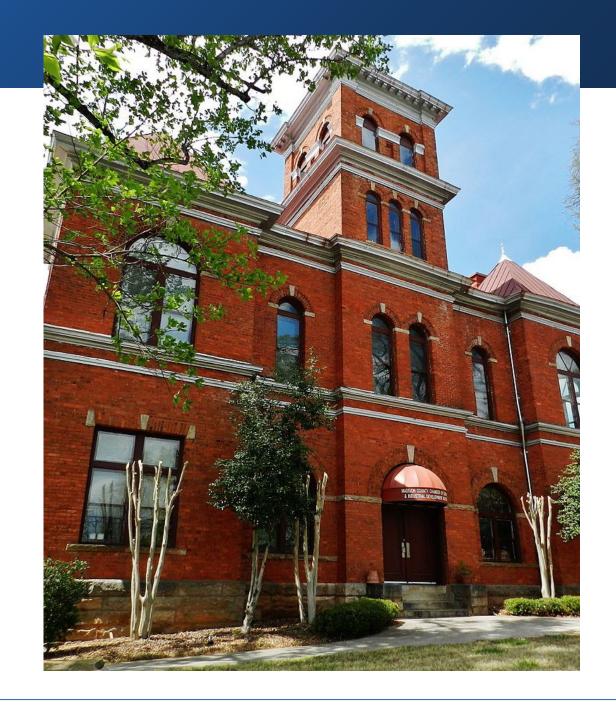




2050 Metropolitan Transportation Plan Update Technical Subcommittee Meeting #2

## **Presentation Agenda**

- Project Status Update
- Public and Stakeholder Engagement Results
- Needs Assessment and Financial Projections
- Project Considerations
- Recap of Goals and Objectives
- Prioritization Process Review/Endorsement
- Next Steps
- General Discussion/Questions





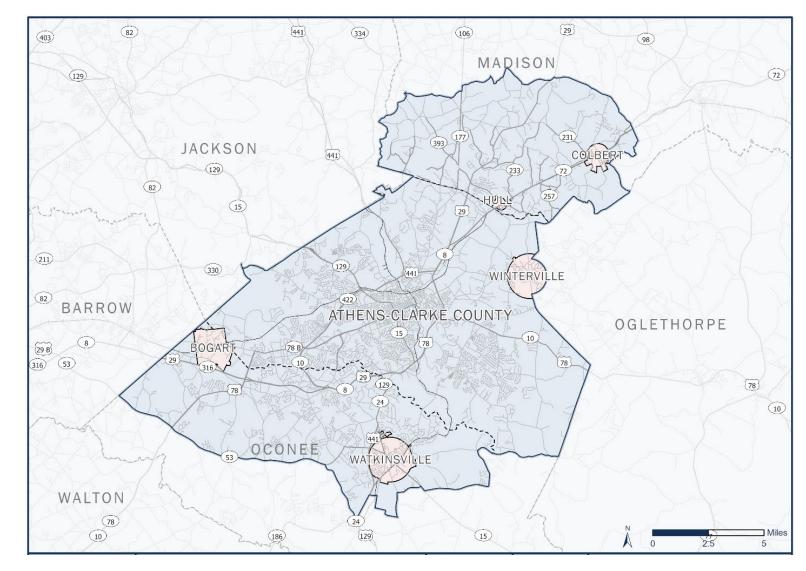


# **Project Status Update**

## **Study Overview & Schedule**

#### **MACORTS**

- Includes Athens-Clarke, Madison, and Oconee Counties
- Governed by a Policy Board comprised of elected officials
- Responsible for Federally mandated planning products





## **Study Overview & Schedule**

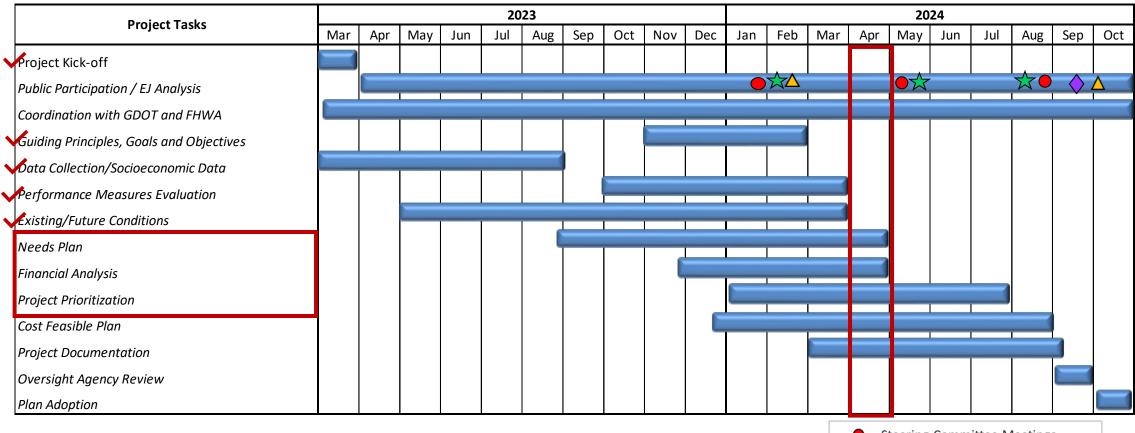
#### What is a Long Range/Metropolitan Transportation Plan?

- Federal legislation requires updates every 5 years to remain eligible for transportation funding
- The MTP covers a 20-year planning horizon with fiscal constraint
- Provides MPOs the opportunity to:
  - Assess existing transportation network performance
  - Estimate future demands
  - Identify needs and investments



## **Study Overview & Schedule – MTP Schedule**

#### MACORTS 2050 METROPOLITAN TRANSPORTATION PLAN SCHEDULE



\*Schedule is subject to change



Steering Committee Meetings
 △ Public Engagement Workshops
 ★ Technical Sub-Committee
 → 30 Day Public Comment Period

#### **Key Responsibilities**

#### **Technical Subcommittee – Key Responsibilities**

#### Review and provide comment/guidance on the following project elements:

- ✓ Goals, objectives, and measures of effectiveness
- Existing conditions and needs assessment results
- ✓ Identification of projects for consideration
- Modal Considerations (Bike, Ped, Transit, Freight, Air)
- Project assessment and prioritization criteria
  - Modal Considerations (Bike, Ped, Transit, Freight, Air)
- Prioritized and cost constrained project list
- Plan document





## Public & Stakeholder Engagement

#### **Public Engagement Tactics**

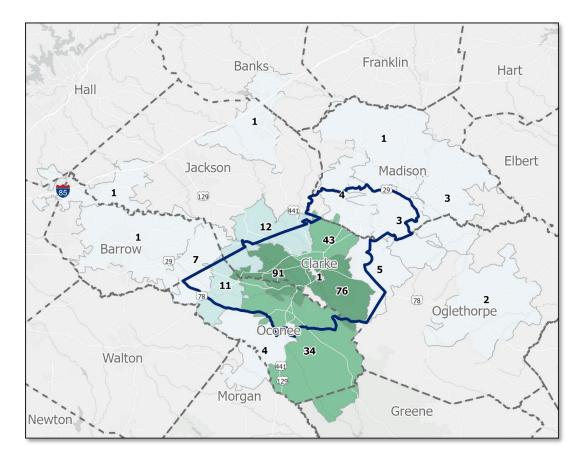
- Stakeholders Committee
  - Project Emissaries
- Public Engagement "Pop-up" Meetings
- Public Survey
- Interactive Mapping
- Interactive Prioritization
- Social Media Publications
- Newspaper Advertisements
- Press Releases

## MACORTS 2050 METROPOLITAN Drop by the project booth at a local event! Saturday, March 9 Oconee County Little League Opening Day Saturday, March 16 Athens Little League Opening Day Saturday, March 23 Madison County Golden Easter Egg Hunt & Spring Festival



#### **Public Survey**

- February 5 March 31, 2024
- 321 responses: including English (317) and Spanish (4)
- Mapping component enabled participants to provide site-specific feedback
  - 101 points and 93 comments

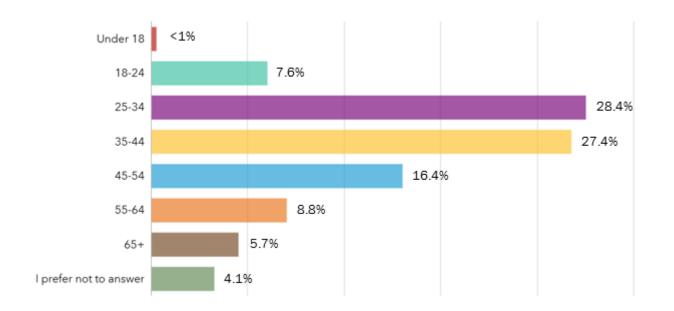


Survey Respondent Zip Codes

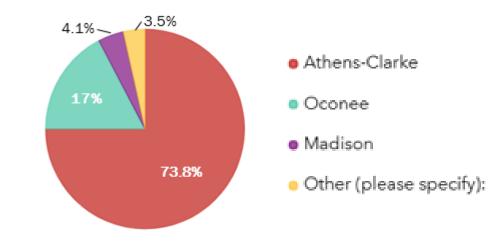


#### Who Responded?

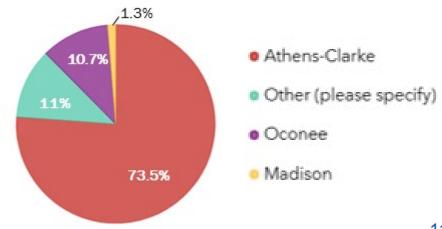
#### Survey Respondents Age



#### Where Respondents Live



#### Where Respondents Work / Go to School

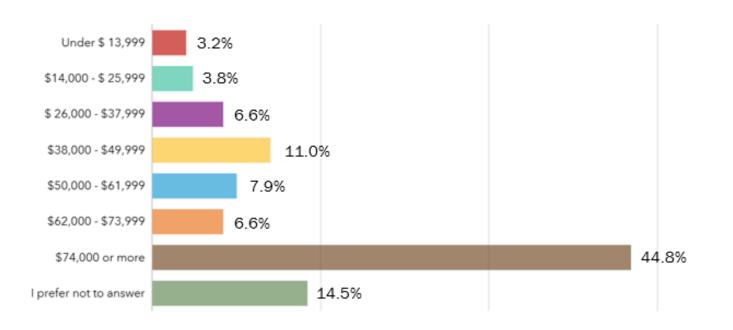


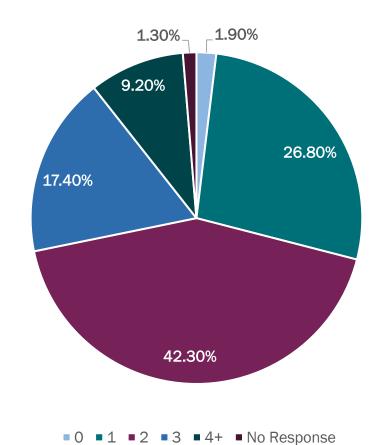


#### Who Responded?

Respondents' vehicle access (per household)









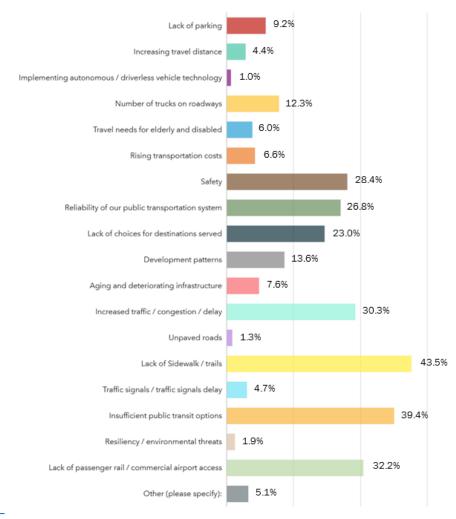
#### **Key Survey Themes:**

- Higher conflict areas are in more urban sectors of the study area
- Improved sidewalks, bike lanes, transit, and trails are common priorities
- Priorities/perspectives on transportation needs vary between Counties
- Access management and traffic flow improvements are common needs



# Survey Question: What are the top 3 challenges your community faces with regards to transportation?

- 1. Lack of Sidewalks (43.5%)
- 2. Insufficient Public Transit Options (39.4%)
- 3. Lack of Passenger Rail/Commercial Airport Access (32.2%)
- 4. Increased Traffic/Congestion/Delay (30.3%)
- 5. Safety (28.4%)
- 6. Reliability of Public Transportation System (26.8%)
- 7. Lack of Choices (23%)



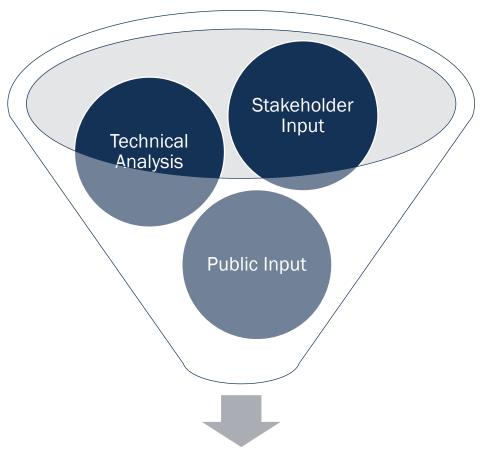




## Needs Assessment & Financial Projections

#### 2050 MTP Needs Assessment

- ✓ Existing Conditions
- ✓ Travel Demand Model Outputs
- ✓ Public and Stakeholder Engagement
- ✓ Local Call for Projects
- ✓ Previous Plan Recommendations

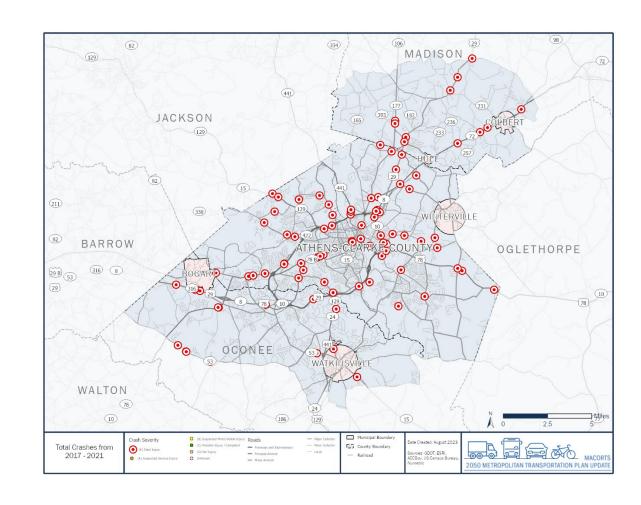


**Needs Assessment** 



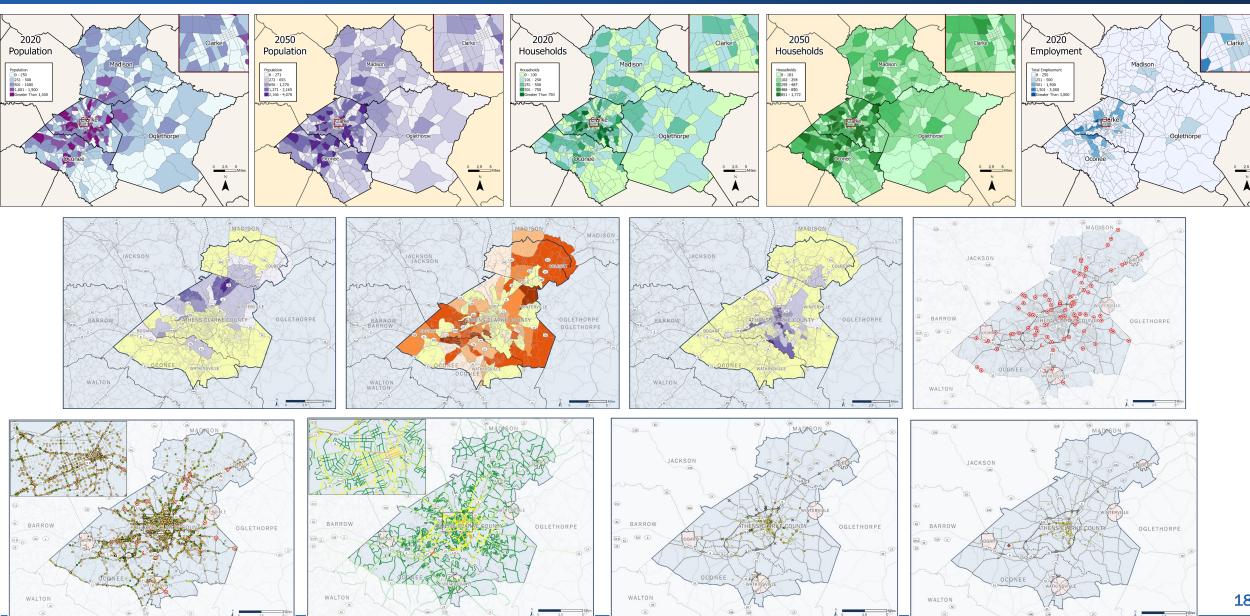
#### **Needs Assessment: Existing Conditions Analysis**

- Past and related studies
- Local Comprehensive Plans
- Demographic data: 2020 US Census and American Community Survey (ACS)
- Roadway network, functional classification, and Level of Service (LOS)
- Bicycle, pedestrian, and transit facilities
- Rail, freight, and airport infrastructure
- Crash statistics





## **Needs Assessment: Existing Conditions Analysis**

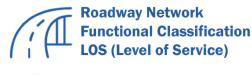


#### **Needs Assessment: Existing Conditions Analysis**

#### Top 10 Takeaways

- 1. Jobs increased by 2.9% overall; Madison showed -20.7% decrease
- 2. Total number of households decreased from 2015
- 3. Regional population increased by 4.4% from 2015; Oconee showed most growth (12.3%)
- 4. Athens-Clarke and Northern Oconee are major employment centers
- 5. Severe crashes occur around SR 10 Loop and SR 29 into Madison
- 6. Most bicycle crashes occur in Athens, and on/near arterial roads
- Tri-county comprehensive plan updates since last MTP
- 8. Potential increase of freight traffic in north Georgia (Gainesville Inland Container Port facility)
- Greenway/trail system is an opportunity to promote connectivity of existing bicycle/pedestrian infrastructure
- 10. Identified stakeholder desire for connectivity, accessibility, and safety







Local
Comprehensive
Plans



Bicycle Pedestrian Transit Facilities



Demographic Data



Freight
Airport Infrastructure



Crash Statistics

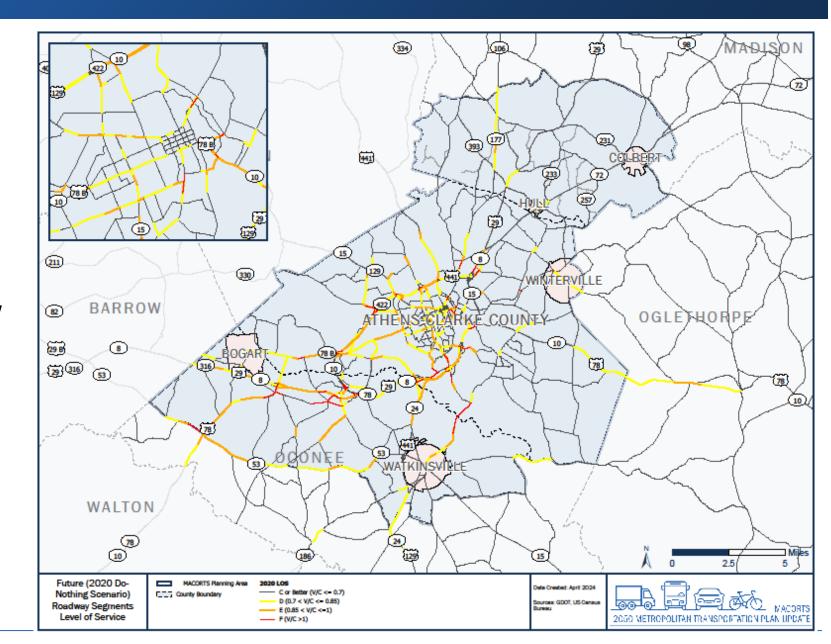
**Existing Conditions Elements** 



## Needs Assessment: Travel Demand Model Results

#### 2020 LOS D - F

- 1. 4,008 segments
- 2. 728 with a LOS of D F
- 3. US 78 and US 441
  Interchange is the area
  with highest V/C and low
  LOS
- 4. Atlanta Hwy/S Athens
  Perimeter Hwy W
  Interchange is another
  area with high V/C and
  low LOS

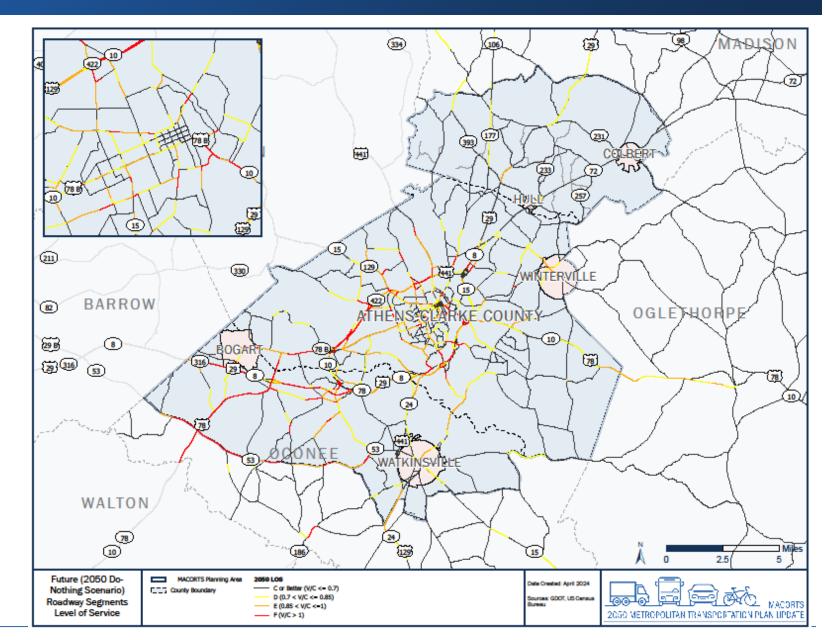




## Needs Assessment: Travel Demand Model Results

#### 2050 LOS D - F

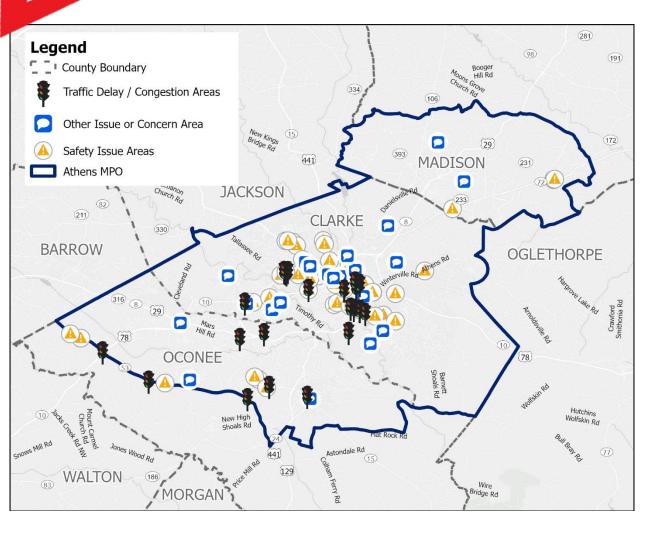
- 1. 4,008 segments
- 2. 1,202 at LOS D F
- 3. Decrease in LOS on SR 10 Loop
- 4. Decrease in LOS on major roadways in south ACC and north Oconee
- 5. 65.1% increase in roadways with LOS D F





# NEW

#### Needs Assessment: Public Input



#### Safety Issues

- Jefferson Rd/US 129/SR 15 near Camak Dr. (ACC) Turn Lanes and Freight
- Oglethorpe Ave between Loop 10 and GA-15 (ACC) Bike/Ped Safety
- College Station Rd near Loop 10 (ACC) Speeds & Bike/Ped Safety
- Mars Hill Rd & Hog Mountain Rd. (Oconee) Left Turns and School Traffic
- Hog Mountain Road (Oconee) Congestion and General Safety Issues
- GA-72 and S 4<sup>th</sup> St (Madison) Left turns on GA-72 and Freight Conflicts

#### Issues and Areas of Concern

- GA-15 / Prince Ave inside Loop 10 multimodal
- Upgrades to signs, intersections, paths, walkways and roads
- Improved sidewalks, bike lanes and trail infrastructure
- Signal timing improvements for accessing 441





## **Needs Assessment: Freight Analysis**

Freight Focus Groups

Truck Bottleneck Analysis Freight intensive Land Use

**Commodity Flows** 

Freight Route Network Truck Parking Inventory

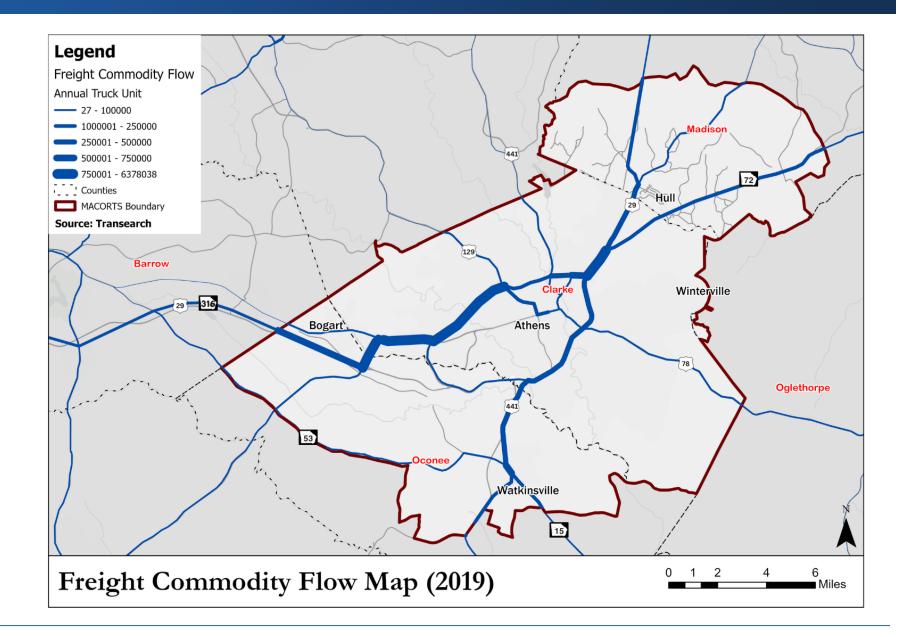
Freight Project Recommendations



# NEW

## **Needs Assessment: Freight Commodity Flows**

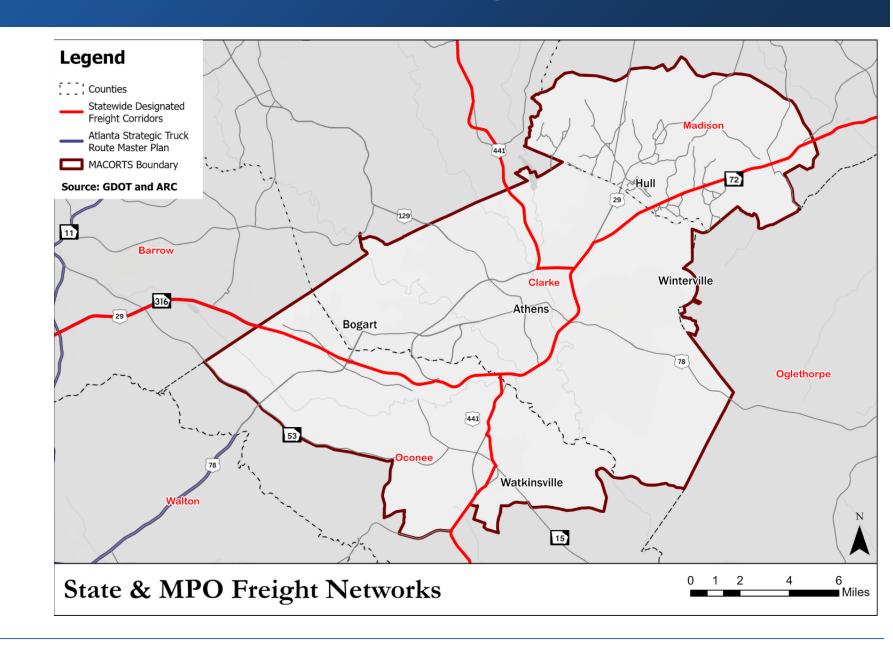
- Highest flows are in Athens-Clarke County
- SR 10 Loop, W. US 78, and N. US 29 carry the highest flows
- US 441 in Oconee and Athens-Clarke and US 29 in Madison County also carry significant flows





#### Needs Assessment: State & MPO Freight Networks

- Statewide Designated Freight Corridors
  - US 441 (also a GRIP corridor)
  - SR 72
  - SR 316
- Atlanta Strategic Truck Route Master Plan (ASTRoMaP) – ARC
- Gainesville-Hall MPO Regional Freight Network

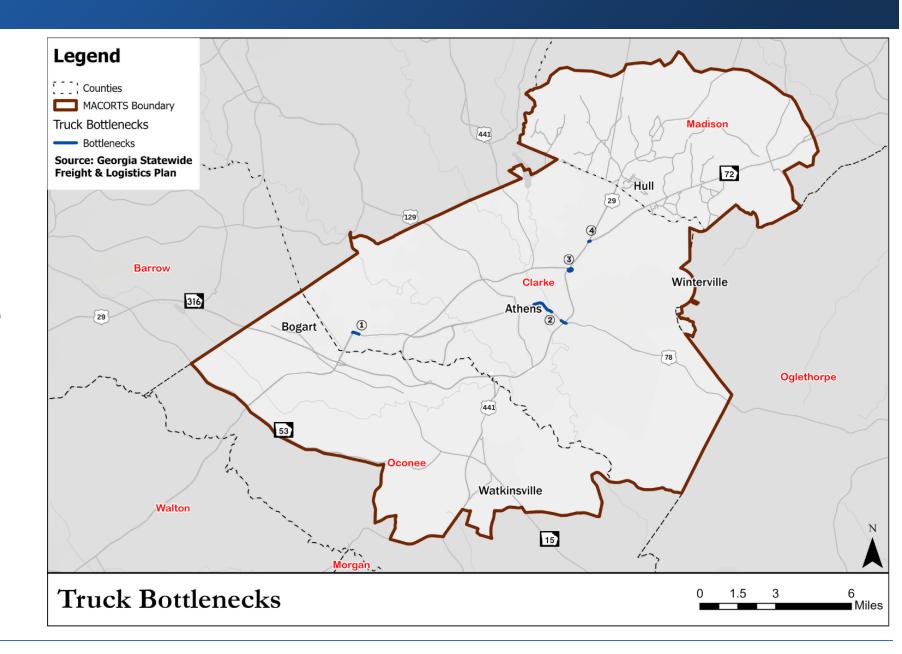




#### **Needs Assessment: Truck Bottlenecks**

#	Bottleneck Locations
1	US 78 (Monroe Hwy) at Atlanta Hwy
2	US 78 (Oconee St) between Lumpkin St and US 441/SR 10 (Outer Loop)
3	US 441/SR 10 (Outer Loop) northeast junction
4	US 29 at SR 72

- Bottlenecks are in the top 5% of cost/mile for urban non-Atlanta areas
- Cost = total cost of delays to freight companies
  - Due to reduction in speed and reliability



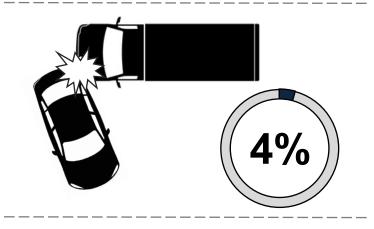


## **Needs Assessment: Truck-Related Crashes**

1,129

NEW

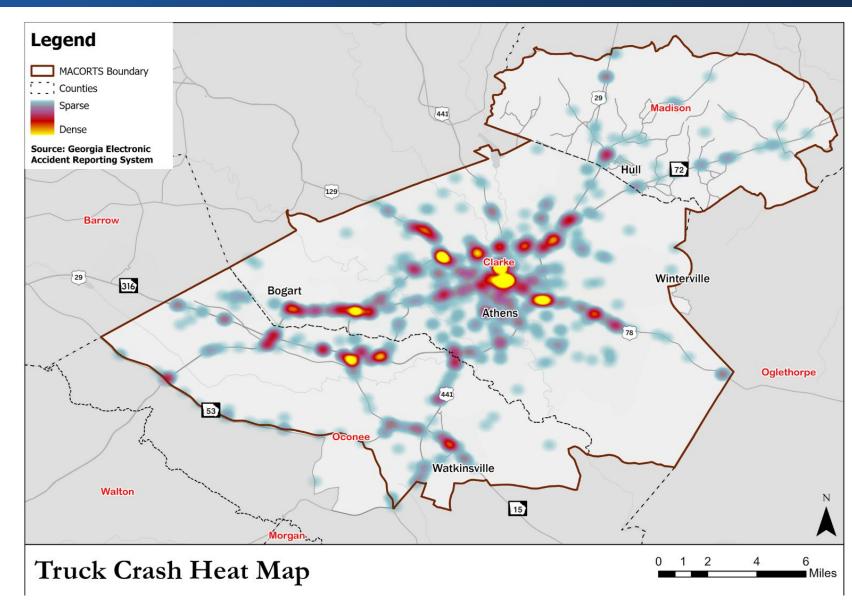
**Truck-Related Crashes** 



31,435

**Total Crashes** 





## **2050 MTP Financial Projections**

#### Sources of Funding

- Federal Funding
- State Funding
- SPLOST/TSPLOST
- Discretionary Funding

#### **Funding Considerations**

- Funding increases at 2% annually; 1% annually after 2026
- Project costs increase at 5% annually

#### 2025-2050 Financial Projections: GDOT

	Projects	Maintenance		
	Estimate	Estimate	Total Estimate	
2025	\$20,935,098	\$1,336,030	\$22,271,128	
2026	\$21,353,800	\$1,362,751	\$22,716,551	
2027	\$21,567,338	\$1,376,378	\$22,943,716	
2028	1		\$23,173,154	
2029	\$22,000,842	\$1,404,043	\$23,404,885	
2030	\$22,220,850	\$1,418,084	\$23,638,934	
2031	\$22,443,059 \$1,432,265 <b>\$2</b>		\$23,875,323	
2032	\$22,667,489 \$1,446,587		\$24,114,077	
2033	\$22,894,164 \$1,461,053		\$24,355,217	
2034	\$23,123,106	\$1,475,664	\$24,598,770	
2035	\$23,354,337	\$1,490,420	\$24,844,757	
2036	\$23,587,880	\$1,505,324	\$25,093,205	
2037	\$23,823,759	\$1,520,378	\$25,344,137	
2038	\$24,061,997	\$1,535,582	\$25,597,578	
2039	\$24,302,617	\$1,550,937	\$25,853,554	
2040	\$24,545,643	24,545,643 \$1,566,447 <b>\$26,112,09</b> 0		
2041	\$24,791,099	\$1,582,111	.1 <b>\$26,373,210</b>	
2042	\$25,039,010	\$25,039,010 \$1,597,932 <b>\$26,6</b> 3		
2043	\$25,289,400	\$1,613,912		
2044			\$27,172,345	
2045			\$27,444,069	
2046	\$26,055,695	\$1,662,815	\$27,718,509	
2047	\$26,316,251	\$1,679,443	\$27,995,694	
2048	\$26,579,414	\$1,696,237	\$28,275,651	
2049	\$26,845,208	\$1,713,200	\$28,558,408	
2050	\$27,113,660	\$1,730,332	\$28,843,992	
Total	\$624,034,742	\$39,824,467	\$663,859,210	





# **Project Considerations**

#### **Project Considerations: 2050 Unconstrained List**

#### 2045 Projects included in 2050 Unconstrained List

Typical Project Types	Number in the 2050 MTP
Access Management	7
Bridge	16
Intersection/Interchange	39
New Roadway	7
Other	6
Passenger Rail	1
Safety Improvements	7
Widening	32
Transit	1
Signals	3

- 67 projects in Athens-Clarke County
- 47 in Oconee County, 10 in Madison County, 4 in ACC/Oconee
- Includes Watkinsville Bypass project
- 10 projects currently in FY 24-27 TIP
- Build on foundation provided by the 2045 projects
  - 7 were added to 2045 MTP as amendments



#### **Project Considerations: 2050 Unconstrained List**

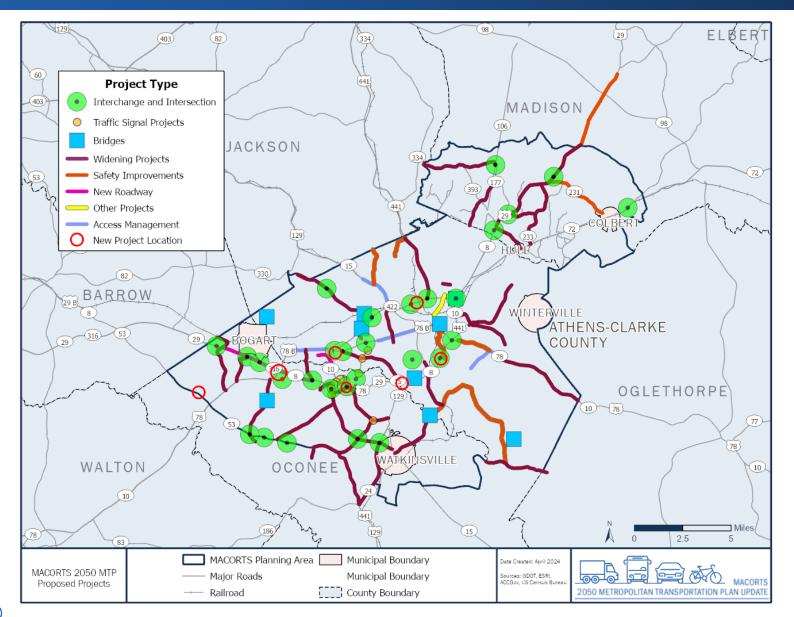
#### **New 2050 Projects**

County	Project Description	Project Type
Oconee	Hog Mountain Road Widening	Widening
Oconee	Epps Bridge Pkwy Widening	Widening
ACC/Oconee SR 15/Macon Rd Widening		Widening
ACC	SR 10 LOOP from S. Milledge Ave & US 441	Widening
Oconee	US 78 from Clotfelter Rd to Oconee Co. Border	Widening
ACC	SR 10 LOOP from US 441 to Epps Bridge Pkwy	Widening
ACC	SR 10 LOOP from US 441 to N Chase St	Widening
ACC	US 29 N From Hull Rd to SR 10 Loop	Widening
	US 78 Off/On Ramps at Lexington Rd & SR 10	Access
ACC	LOOP	Management
ACC	Timothy Rd/US 129 Off/On Ramps at SR 10 LOOP S	Access Management

- Developed by using TDM outputs and Level of Service for 2020 and 2050
- Corridors were analyzed on crashes with serious injuries and fatalities
- Freight projects were incorporated as recommended

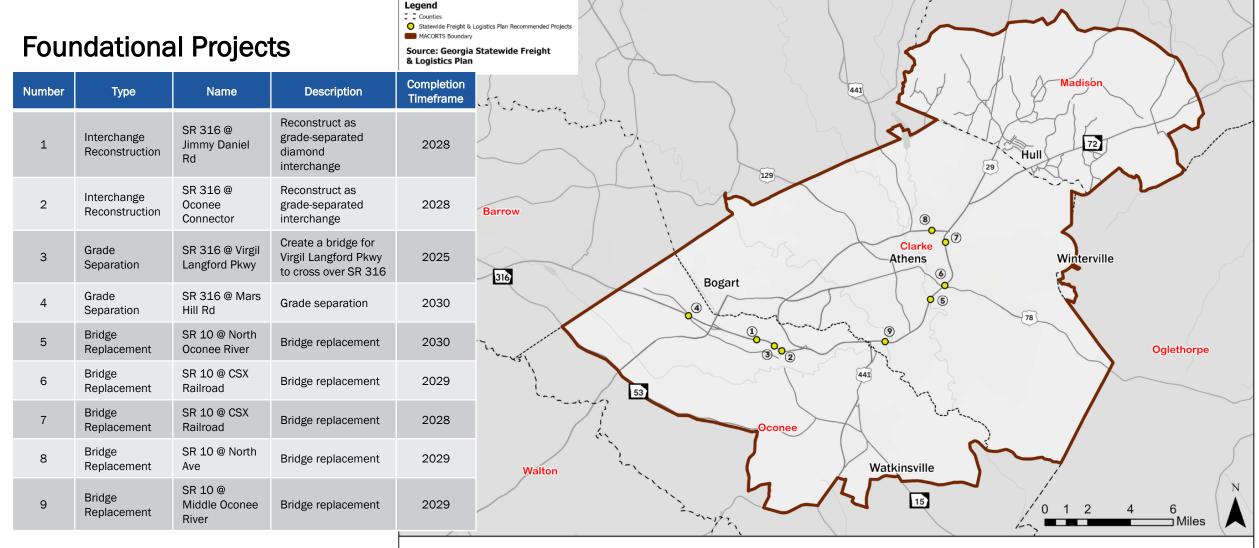


#### **Project Considerations: 2050 Unconstrained List**





#### Project Considerations: Statewide Freight & Logistics Plan Recommended









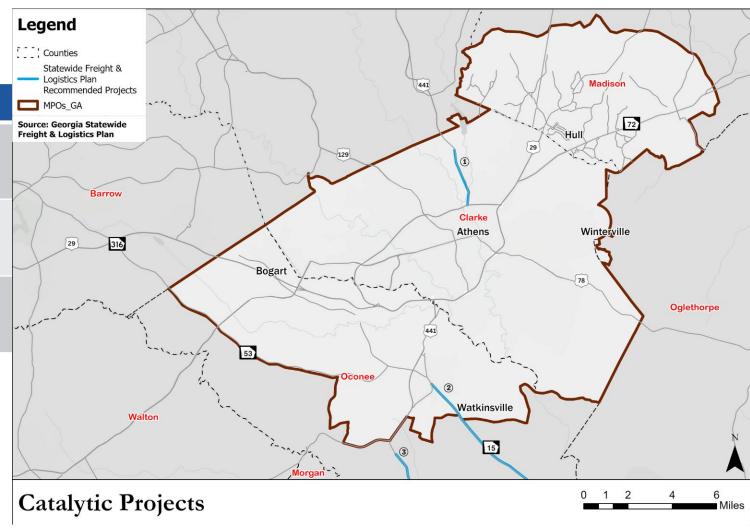




#### Project Considerations: Statewide Freight & Logistics Plan Recommended

#### **Catalytic Projects**

Number	Туре	Name	Description
1	Widening	US 441 from SR 10 to Clarke County Line	Widening from two to four lanes
2	Widening	SR 15 from Antioch Church Rd to US 129	Widening from two to four lanes
3	Widening	US 441 from Apalachee River to Astondale Rd	Widening from two to four lanes







## **Prioritization Process Review & Endorsement**

#### Performance Based Project Screening Tool

#### **Built on**

- Federal Planning Factors
- Statewide Goals
- Public and Stakeholder Input
- Adopted Local Goals

#### **Incorporates**

- Established Objectives
- Adopted Performance Metrics and Targets







#### Performance Based Project Screening Tool

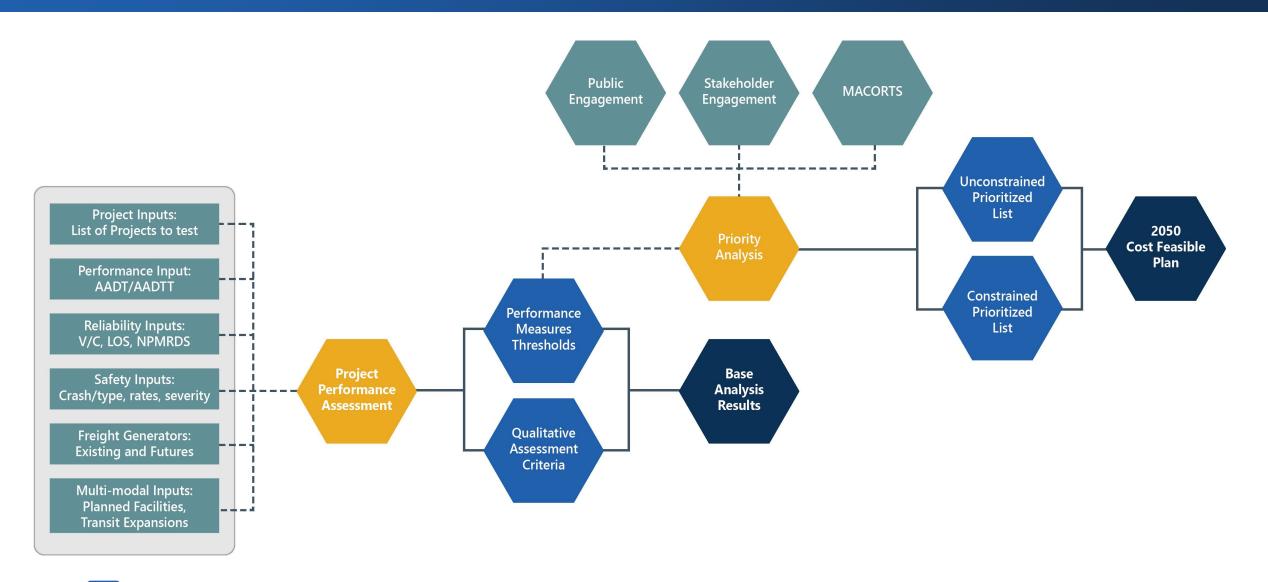
#### **Excel-based**

- Data inputs from approved measures of effectiveness
- Incorporates quantitative and qualitative factors
- Results in Project Prioritization "Dashboard"
- Includes goals met by each project
- Easily updated for future MTP Amendments

## **Qualitative**









## Performance Based Project Screening Tool

#### **Quantitative Tool Inputs:**

- Average Annual Daily Traffic/Average Annual Daily Truck Traffic (AADT/AADTT)
- Level of Service (LOS)/Vehicle to Capacity Ratio (V/C)
- Total Vehicle Crashes, Injury Crashes, and Fatal Crashes
- Vehicle, Injury, and Fatal Crash Rates (per 100MVMT)
- Bicycle Crashes, Injury Crashes, and Fatal Crashes
- Pedestrian Crashes, Injury Crashes, and Fatal Crashes
- Replica Bicycle/Pedestrian Movements (volumes)



## Performance Based Project Screening Tool

#### Qualitative Tool Inputs (Yes/No):

- Supports Access to Freight Generators and Attractors
  - GDOT and MACORTS Freight Plan Data
- Supports Access to Tourism Attractions
  - Attractions Identified from Convention and Visitors Agencies
- Multimodal Elements
  - Access to Planned Bicycle/Pedestrian Facilities
  - Recommended Projects from Bicycle/Pedestrian Plans
  - Connections to Existing/Planned Regional Multimodal Facilities
- Access to Existing/Planned Transit Service
  - Data from Transit Plans
- Supports Improved Airport Access

Yes	Somewhat	No
2	1	0



## **Performance Based Project Screening Tool**

Project Performance Summary Table (Example Only)

#### **Project Performance Summary**

	AADT/A	AADTT	RELIA	BILITY				2013 - 2017			CRASH DATA			FREIGHT ECONOMY	TOURISM	MULTIMODAL ELEMENTS				
PROJECT ID	BASE AADT	BASE %TRUCK	BASE LOS	BASE V/C	TOTAL VEHICLE CRASHES	CRASH RATE (PER 100M VMT)	TOTAL BIKE /PED. CRASHES	# OF CRASHES WITH BIKE/PED INJURIES	# OF CRASHES WITH BIKE/PED FATALITIES	# OF VEHICULAR CRASHES WITH INJURY	# OF VEHICULAR CRASHES WITH FATALITY	RATE OF FATALITIES (PER 100M VMT)	RATE OF INJURIES (PER 100M VMT)	SUPPORTS ACCESS TO FREIGHT GEN/ATT	SUPPORTS ACCESS TO TOURISM ATTRACTOR	PLANNED BICYCLE FACILITIES	PLANNED PEDESTRIAN FACILITIES	EXISTING/ PLANNED TRANSIT SERVICE	SUPPORTS REGIONAL MULTIMODAL CONNECTIONS	SUPPORTS IMPROVED ACCESS TO PUBLIC AIRPORT
R-1	20,625	3%	С	0.59	120	127.52	1	1	0	44	0	0	0	Yes		Yes	No	No	-	Yes
R-2	32,575	4%	0	0.00	0	0.00	0	0	0	0	0	0	0	-		No	No	-	-	No
R-3	29,840	9%	D	0.62	227	148.87	1	1	0	64	0	0	0	Yes		Yes	Yes	Somewhat	-	No
R-4	27,487	8%	Е	0.80	413	514.56	4	3	1	87	0	0	0	-	Yes	Yes	Yes	Yes	_	No
R-5	27,400	2%	D	0.61	23	25.55	0	0	0	5	0	0	0	Yes		Yes	Yes	No	-	No
R-6	52,030	5%	D	0.61	36	37.91	1	1	0	9	0	0	0	-		No	No	Yes	-	No
R-7	30,607	3%	Е	0.86	443	1321.81	5	5	0	104	0	0	0	Yes	Yes	Somewhat	Somewhat	Yes	-	Yes
R-8	36,315	9%	D	0.75	520	181.62	1	1	0	95	3	0	0	Yes		No	Yes	Yes	-	No



#### **Performance Based Project Screening Tool**

Project Performance Ranking Table (Example Only)

		FREIGHT ECONOMY	RELIABILITY		SAFET	TY AND SECUR	RITY		FREIGHT ECONOMY	TOURISM	MULTIMODAL ELEMENTS						
Total Score	PROJECT ID	BASE %TRUCK	BASE V/C	CRASH RATE (PER 100M VMT)	TOTAL BIKE /PED. CRASHES	# OF CRASHES WITH BIKE/PED FATALITIES	RATE OF FATALITIES (PER 100M VMT)	RATE OF INJURIES (PER 100M VMT)	SUPPORTS ACCESS TO FREIGHT GEN / ATT	SUPPORTS ACCESS TO TOURISM ATTRACTOR	PLANNED BICYCLE FACILITIES	PLANNED PEDESTRIAN FACILITIES	EXISTING/ PLANNED TRANSIT SERVICE	SUPPORTS REGIONAL MULTIMODAL CONNECTIONS	SUPPORTS IMPROVED ACCESS TO PUBLIC AIRPORT		
159.6	R-1	3%	28	127.52	1	0	0	0	1.0		1.0	-	-	-	1.0		
0.04	R-2	4%	0	0.00	0	0	0	0	-		-	-	-	-	-		
185.5	R-3	9%	31	148.87	1	0	0	0	1.0	1.0	1.0	1.0	0.5	-	-		
569.6	R-4	8%	47	514.56	4	1	0	0	-		1.0	1.0	1.0	-	-		
58.57		2%	30	25.55	0	0	0	0	1.0		1.0	1.0	-	-	-		
69.96		5%	29	37.91	1	0	0	0	-	1.0	-	-	1.0	-	-		
1381		3%	50	1321.81	5	0	0	0	1.0		0.5	0.5	1.0	-	1.0		
225.7	R-8	9%	41	181.62	1	0	0	0	-		-	1.0	1.0	-	-		



## **Performance Based Project Screening Tool**

- Prioritization Dashboard (Example Only)
  - Quick reference to how projects contribute to prioritized goals

	Project Type	Jurisdication	Cost	MACORTS MTP Goals & Objectives												
ID				Enhance Landuse	Safety and Security	Transit	Mobility	Environment and Quality of Life	Multimodal Connectivity	System Preservation and Maintenance	System Management and Operation	Reliability and Resiliency	and	Economic Vitality		
R-1	Widening	ACC	\$ 28,446,000			•	•	•	0		•	•	•	0		
R-2	New Roadway	ACC	\$ 8,521,000	•	•	•		•	•	•	•	•	0			
R-3	Widening	ACC	\$ 23,600,000	•	•	0	•	•	•	•	0	•	•	•		
R-4	Widening	ACC	\$ 31,664,000	•	•		•	•	•	0	•		•	0		
R-5	New Roadway	ACC	\$ 4,800,000	0		•	•	•	•	•	0	•		•		



#### **Prioritizing the Plan**

#### **Performance-based Prioritization**

- Projects with more significant need rank higher (Fatalities)
- Projects that respond to multiple goals/needs rank higher
   (Crash Rate = 2, LOS = 2, Bike/Ped Improvements = 2)

#### **MACORTS Priorities**

- Multipliers applied to ranking scores
- Adjustments to tool outputs to reflect local needs



#### **Multipliers Approach**

## Performance-based Prioritization Based On:

- Public Input (Meetings and Survey)
- Stakeholders (Mentimeter Survey)
- MACORTS Staff

#### Priorities: High to Low

- Multimodal Connectivity
- Transit
- Safety and Security
- Mobility
- Environment and Quality of Life
- Reliability and Resiliency
- Economic Vitality
- System Preservation and Maintenance
- System Management and Operation
- Travel and Tourism
- Enhance Land Use

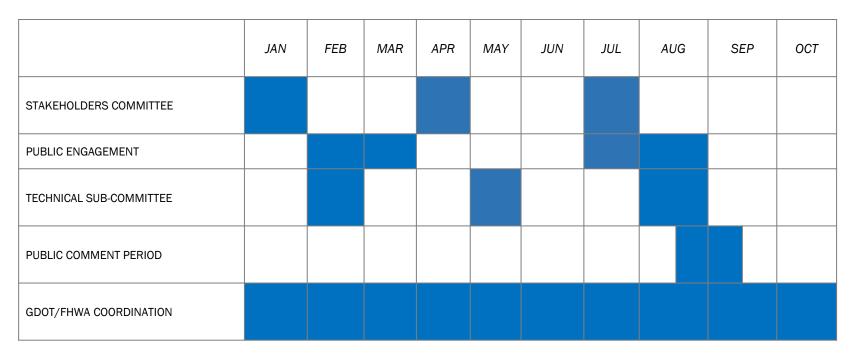




# **Upcoming Activities & Next Steps**

## Upcoming Activities & Next Steps - Public Engagement

## **Public Engagement Schedule**



Note: Dates are estimated and subject to change



## **Upcoming Activities & Next Steps**

#### **Next Steps**

- Complete Project Prioritization and Circulate for Review
- Host Committee Meetings to Refine Initial Prioritized List
- Complete Financial Plan and Constrain Project List
- Complete Draft MTP Report and Circulate for Review
- Host 30-Day Public Comment Period
- MACORTS Adoption





**Questions?**