

Assessment of the Regional Transportation System

Rural Long Range Plan FY27 Update

Rural Transportation Advisory Committee
November 4, 2026

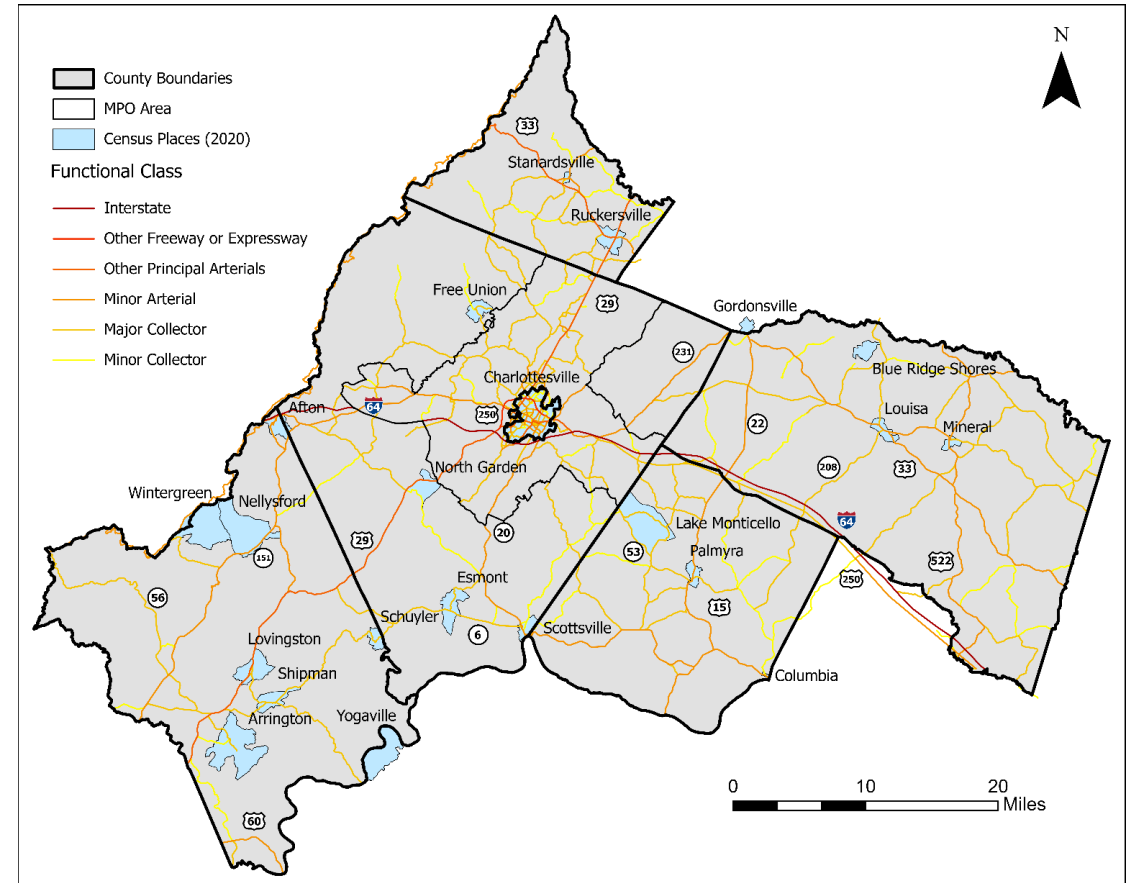


Agenda

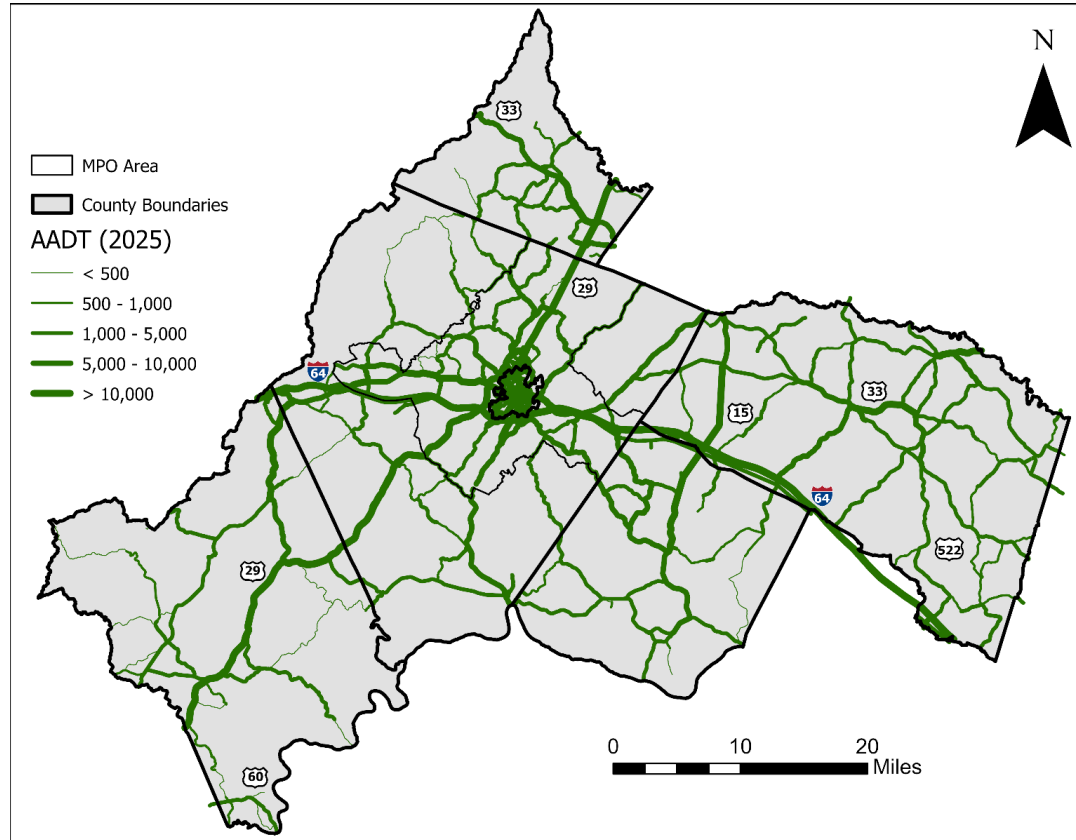
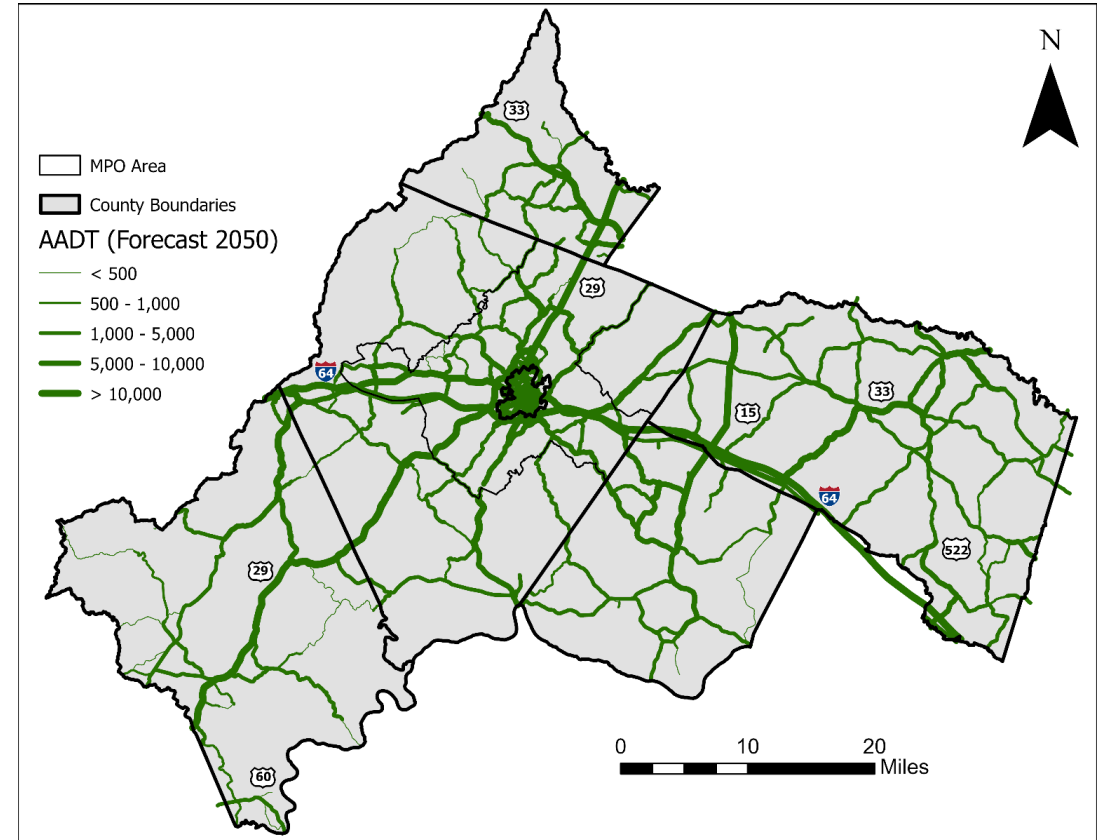
- I. Regional Transportation System Data
- II. RLRP Goals
- III. Public Engagement Activities

Functional Classification

- Process by which streets and highways are grouped according to the character of service they provide
- Excluding private and local roads, **45.09%** of classified roadways are major collectors
- I-64 is the only interstate in Planning District 10; US 29 and US 33 west of Ruckersville area principal arterials
- Functional classification impacts road design standards, eligibility for certain federal transportation funds, access management requirements
- ~10-year update, but interim updates can be requested

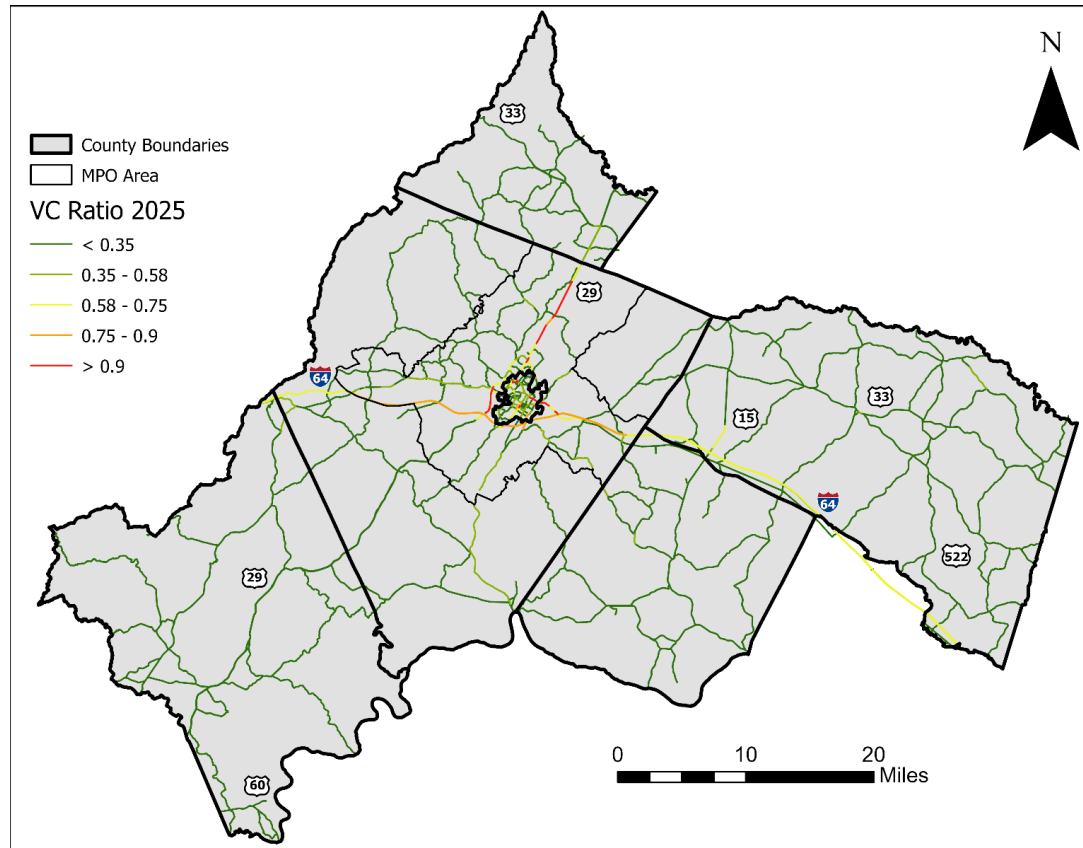
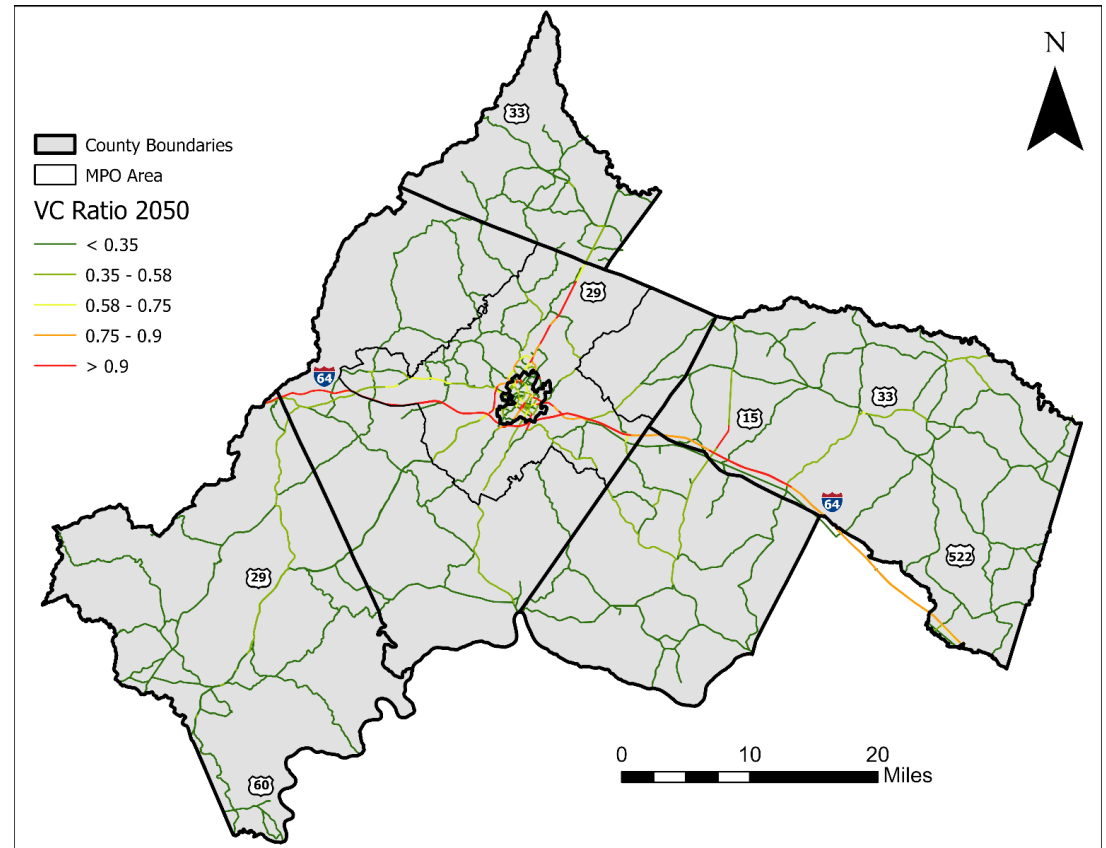


Annual Average Daily Traffic: 2025 and 2050



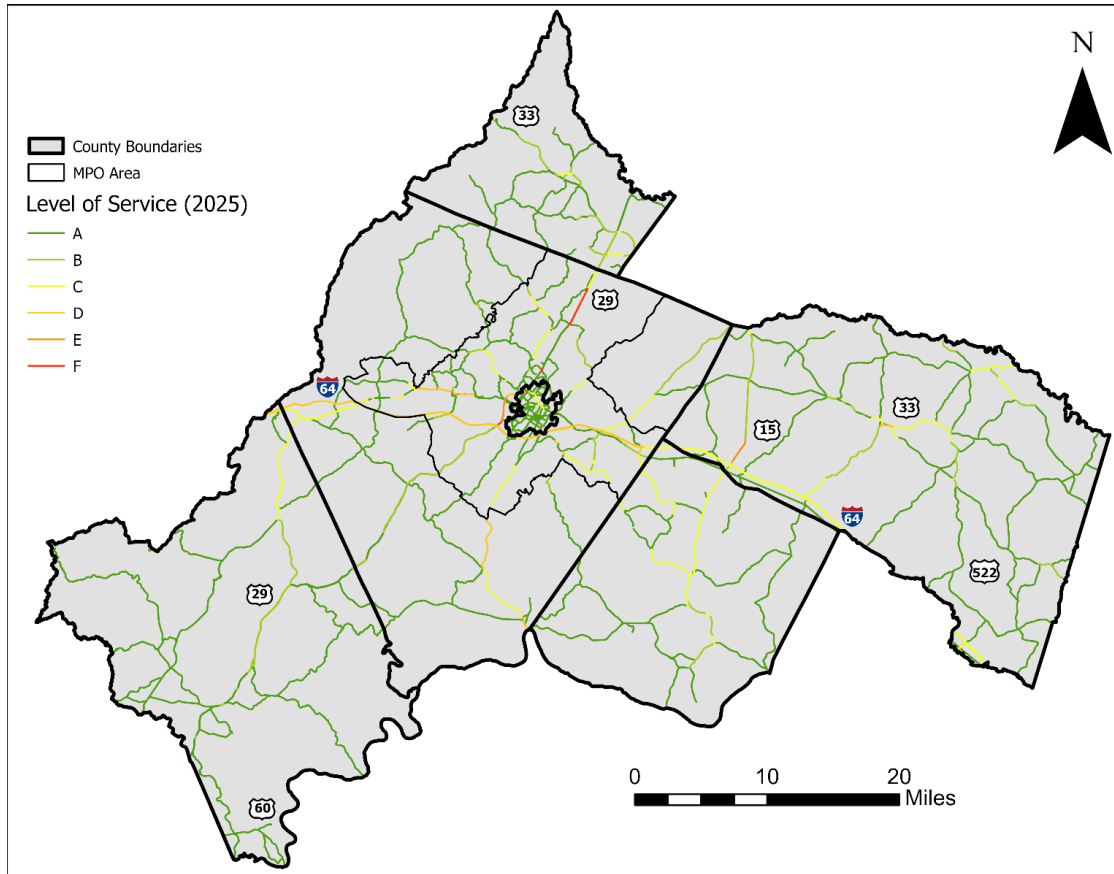
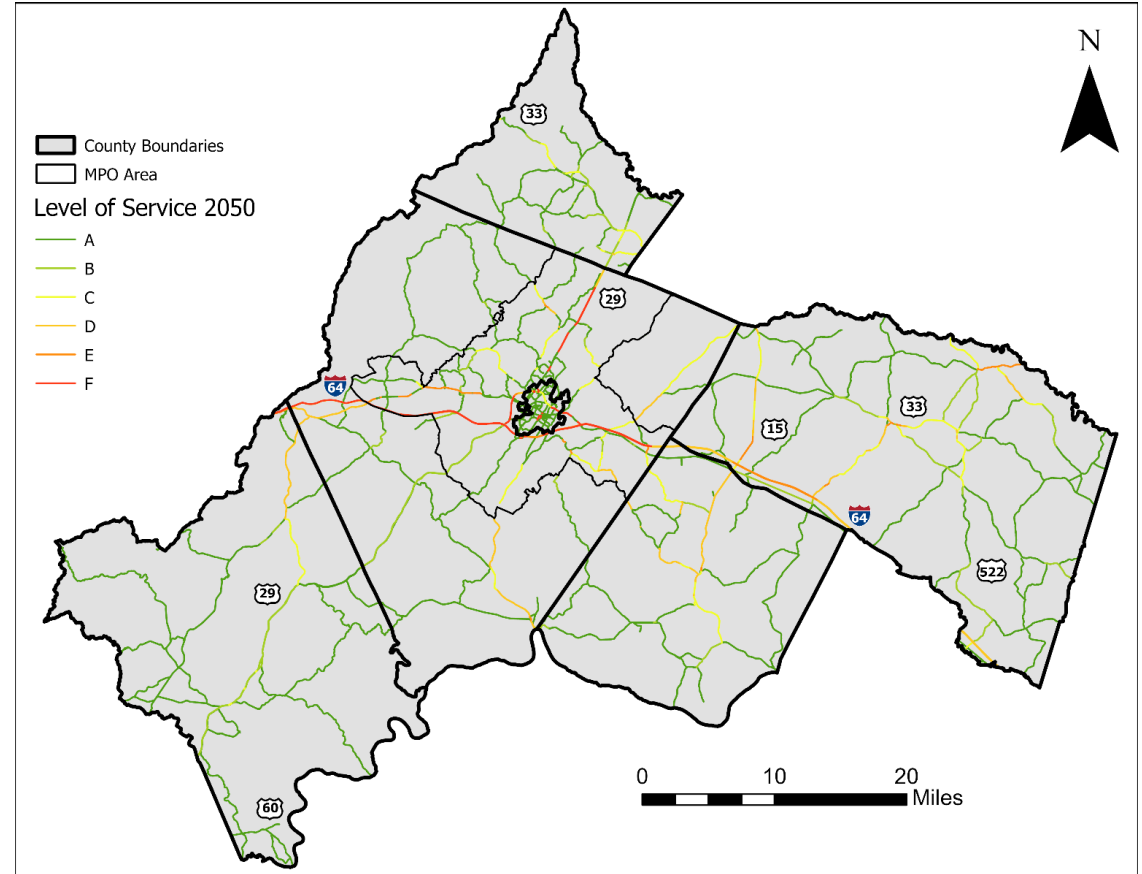
- Rural corridors carrying the highest volumes include I-64, US 29, US 33, and US 15 north of Zion Crossroads
- According to 2050 forecast data, the largest projected increase includes select segments along I-64 and routes in Nelson (VA 657, VA 6, US 29) and Louisa (VA 208, VA 613, VA 623)

V/C Ratio: 2025 and 2050



- Volume to Capacity (V/C) Ratio compares estimated traffic volume with calculated roadway capacity

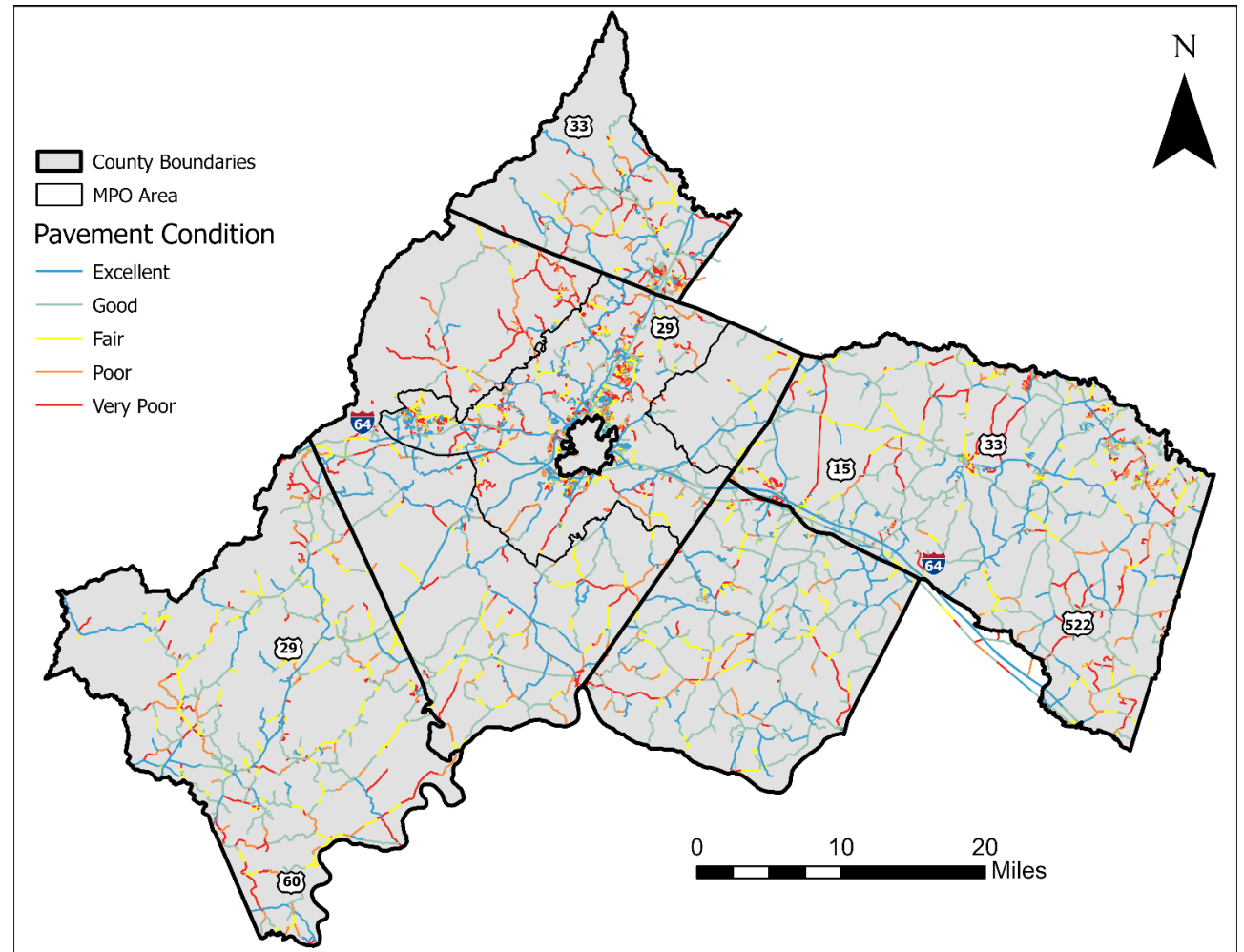
Level of Service: 2025 and 2050



- Describes estimated traffic operating conditions; describes motor vehicle operations rather than assessing the quality of the complete multimodal transportation system
- Most roadway segments in the region are classified as LOS A, with localized operating concerns present in some places (US 29, I-64, US 15)

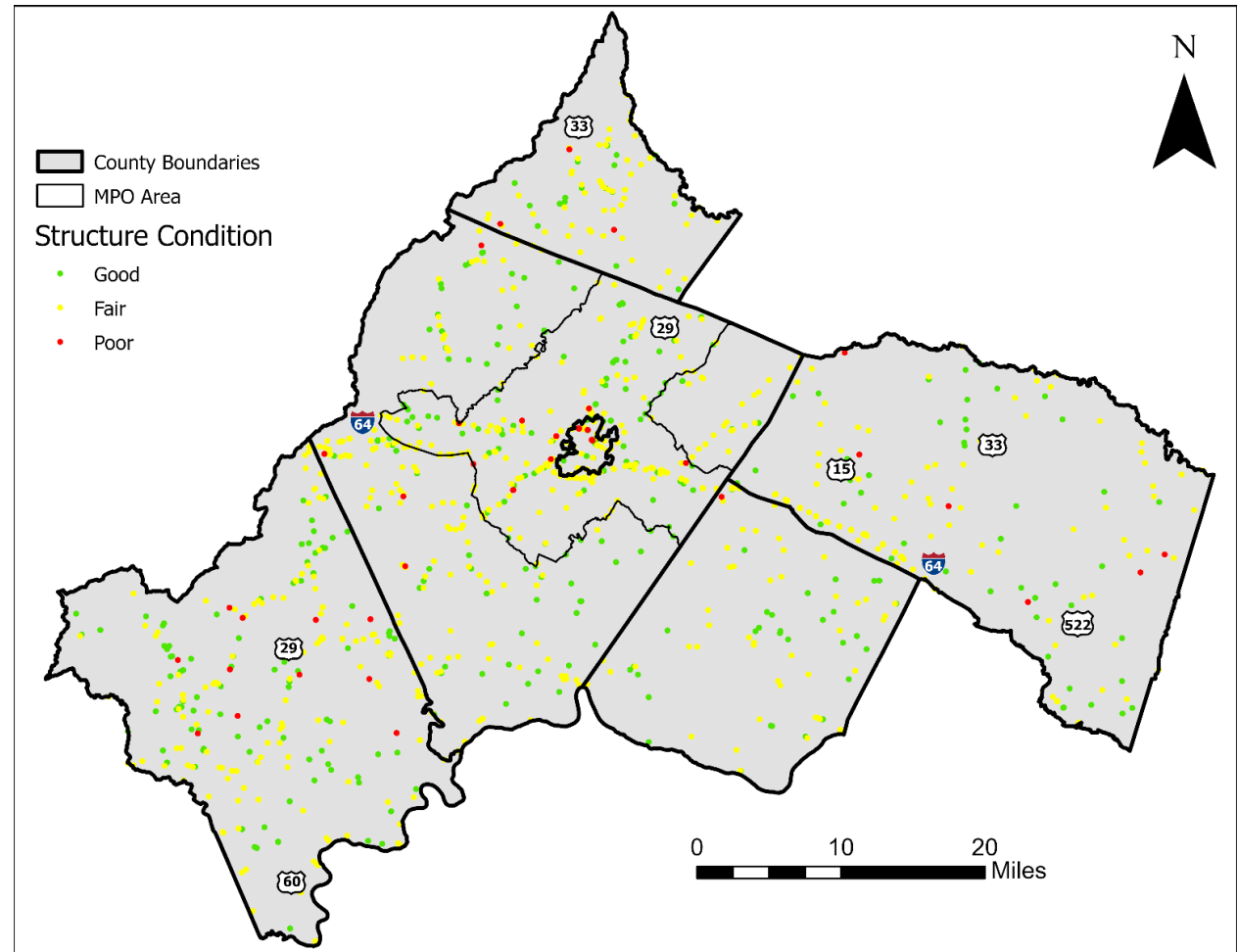
Pavement Condition

- Critical Condition Index (CCI) measures the physical state of a roadway's paved surface
- Pavement rated fair or better is generally considered sufficient, while pavement rated poor or very poor may require additional evaluation for rehabilitation needs
- As of 2025, ~28% of lane miles in the region are rated poor or very poor



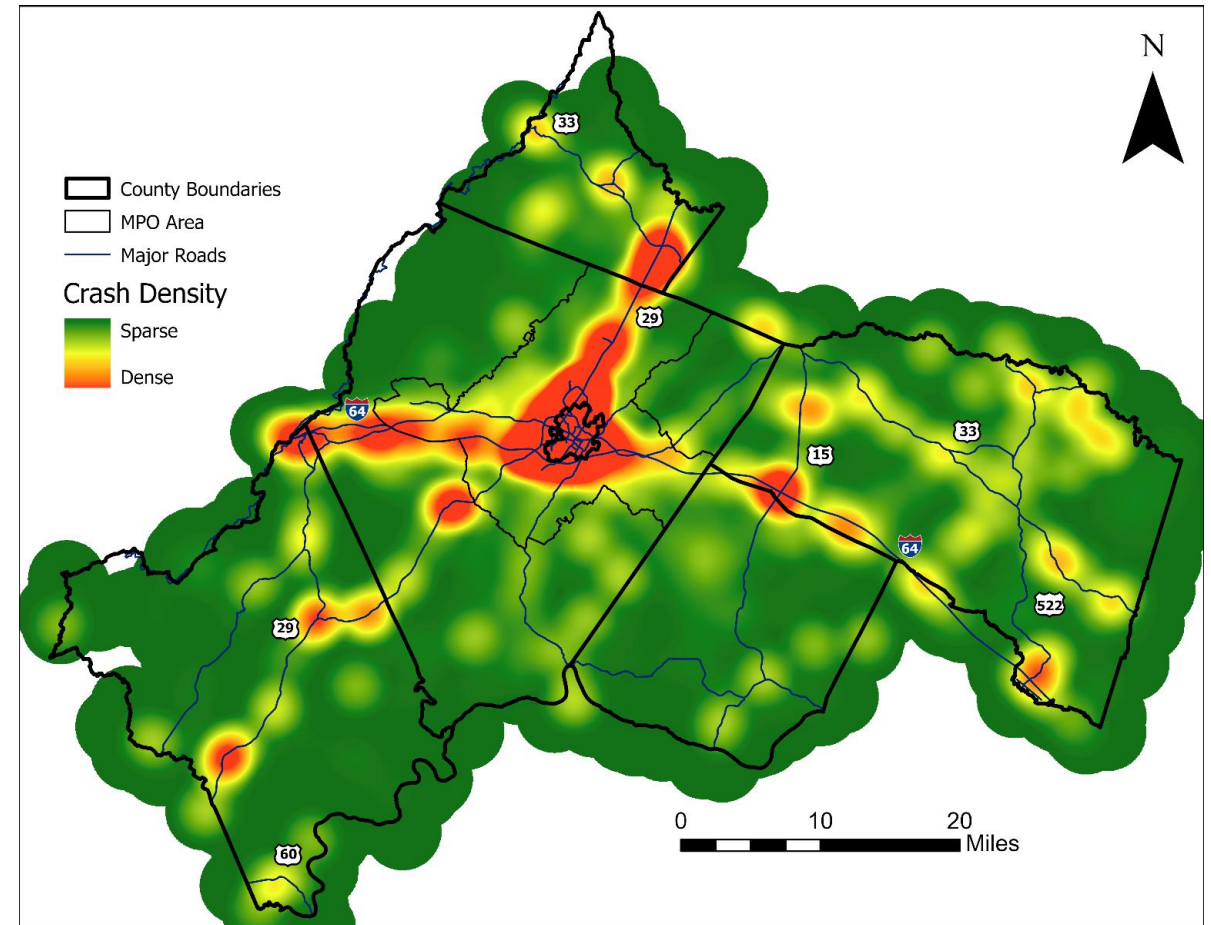
Bridges and Large Culverts

- Bridge sufficiency ratings were developed by the Federal Highway Administration (FHWA) to serve as a prioritization tool to allocate funds
- As of 2026, 51 bridges and culverts are rated poor condition out of 1,228 in the TJPDC region



Regional Crash Data: 2022-2025

- Heat map of TJPDC-region crashes weighted by severity, with fatal and serious injury crashes having the highest weight
- Between 2022 and 2025, regional crashes resulted in 136 deaths and 1,270 serious injuries
 - 13 pedestrian deaths, 47 serious injuries to pedestrians
 - 31 serious injuries to bicyclists
- Jurisdiction-specific heat maps included in draft chapter



Potential for Safety Improvement Locations

- VDOT screening that identifies route segments and intersections with an increased opportunity to reduce crashes
- Candidate locations are ranked, with higher rankings indicating higher potential for improvement
- Some PSI locations are near or overlapping jurisdictional boundaries

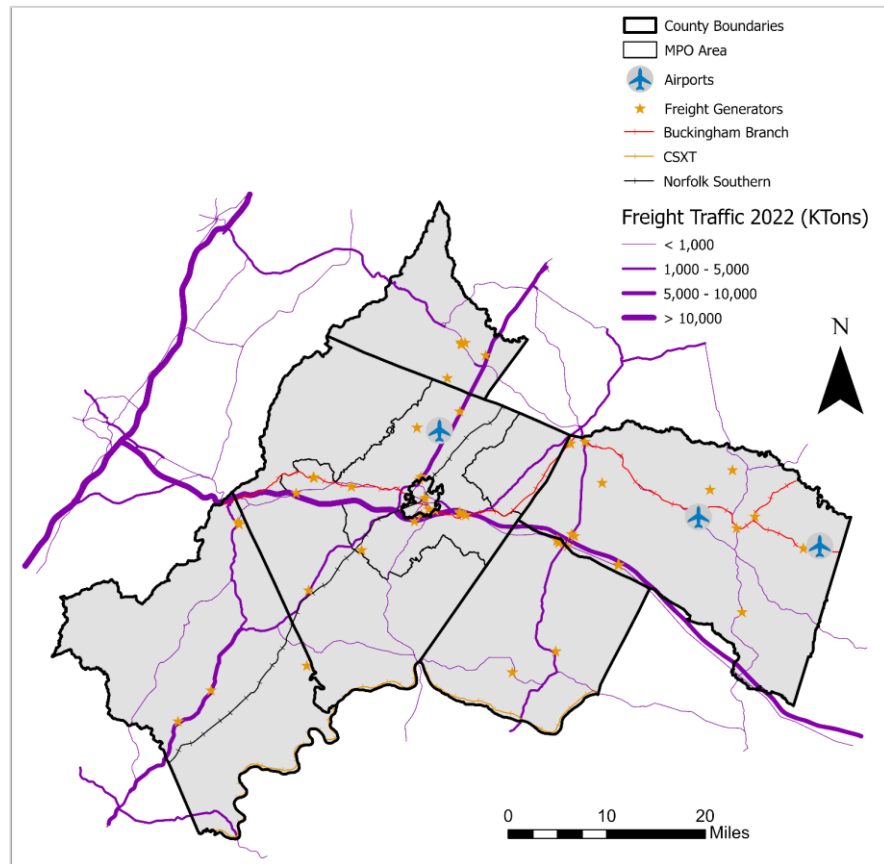
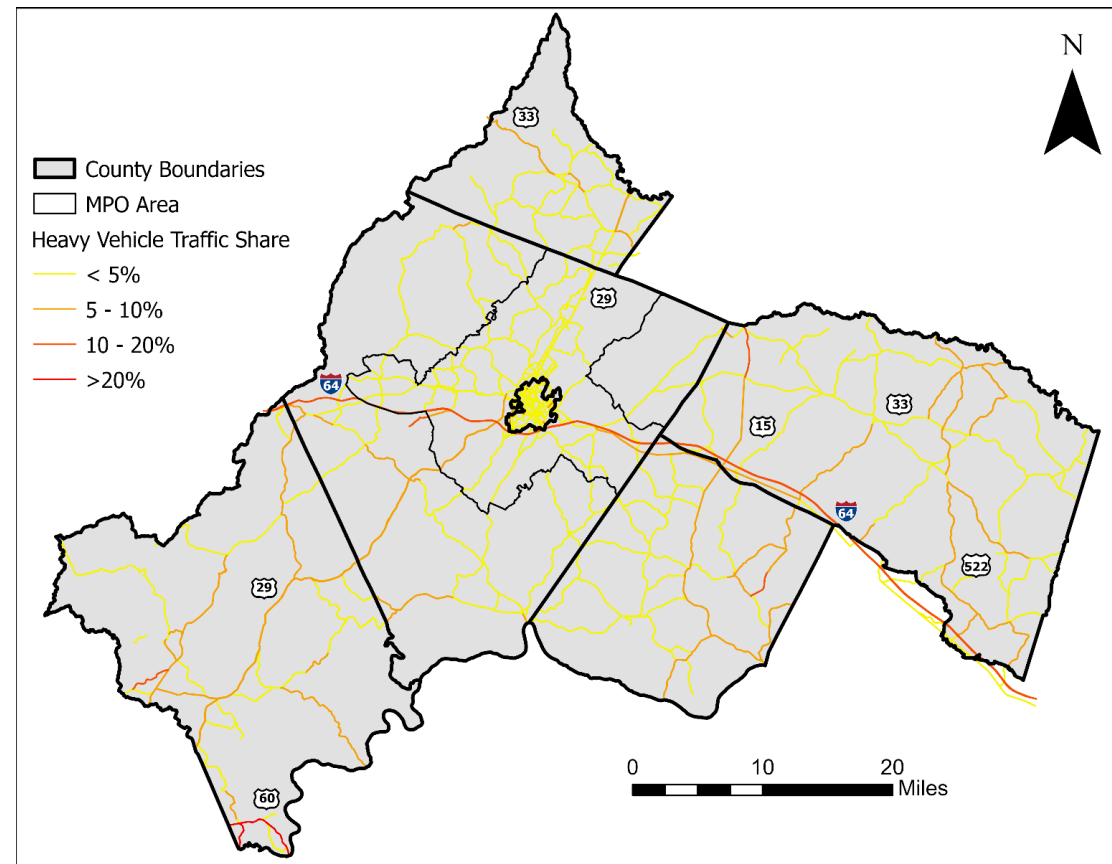
Top 5 Rural PSI Segments in Region, 2026

District Rank	Location	County
3	I-64 east of Afton	Albemarle
7	US-29 between Keleigh Ln and Cedar Grove/Matthew Mill Rd	Greene
17	US-29 leading southwest from Woods Mill	Nelson
21	US-29 between Carpenters Mill Rd and US-33 in Ruckersville	Greene
26	I-64 around Afton	Nelson

Top 5 Rural PSI Intersections in Region, 2026

District Rank	Location	County
20	US-29 and Deerfield Dr / Clore Dr	Greene
26	US-33 and Shannon Hill Rd	Louisa
27	Lake Monticello Rd and S Boston Rd	Fluvanna
28	US-522 and SR-208	Louisa
31	US-29 and N Garden Ln	Nelson

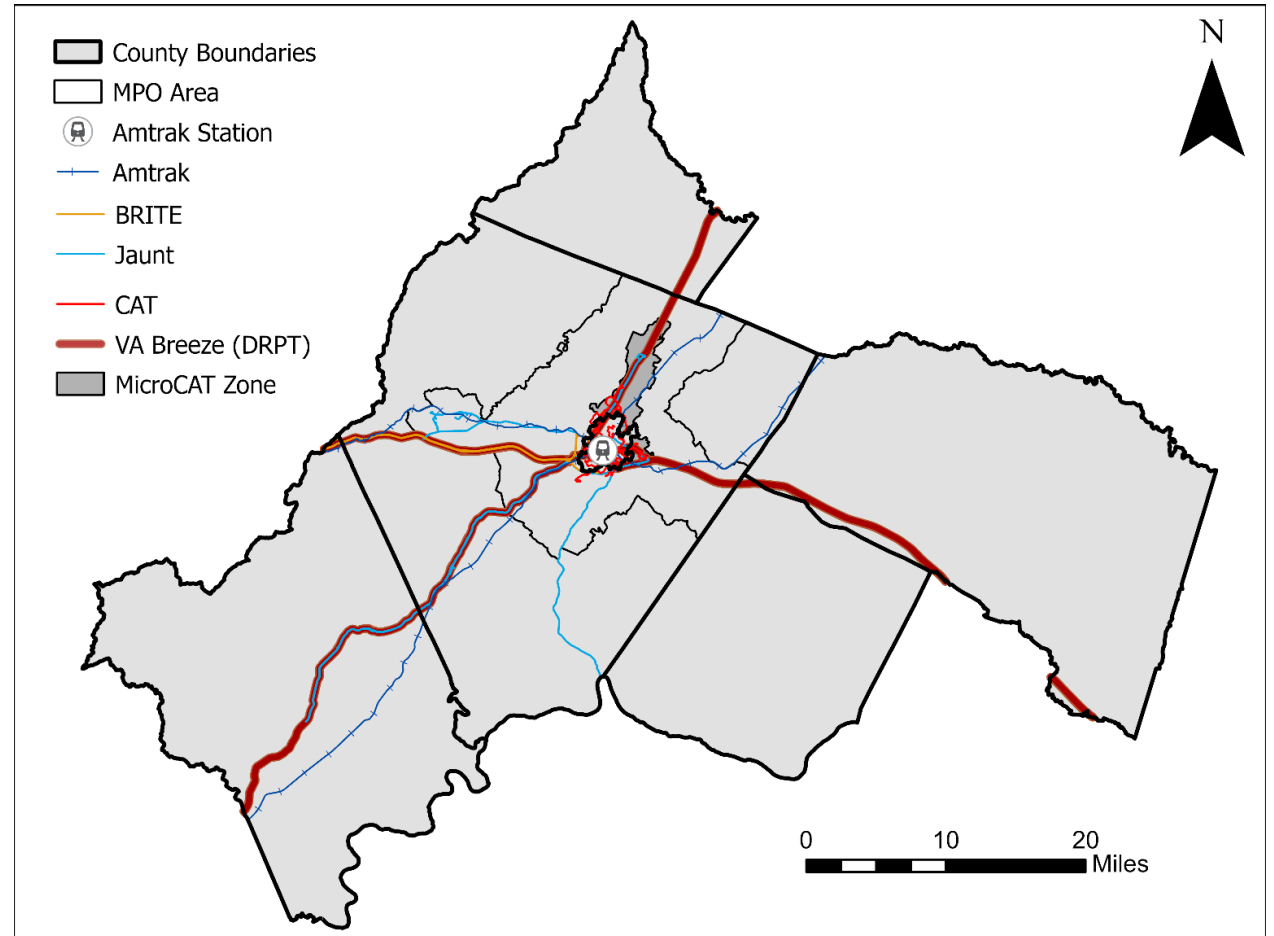
Freight, Rail, and Air Transportation



- Freight system includes highways, local access roads, rail lines, freight facilities
- Charlottesville-Albemarle Airport, Louisa County Airport, Lake Anna Airport
- CSX, Norfolk Southern, Buckingham Branch Railroad (freight); Amtrak (passenger)

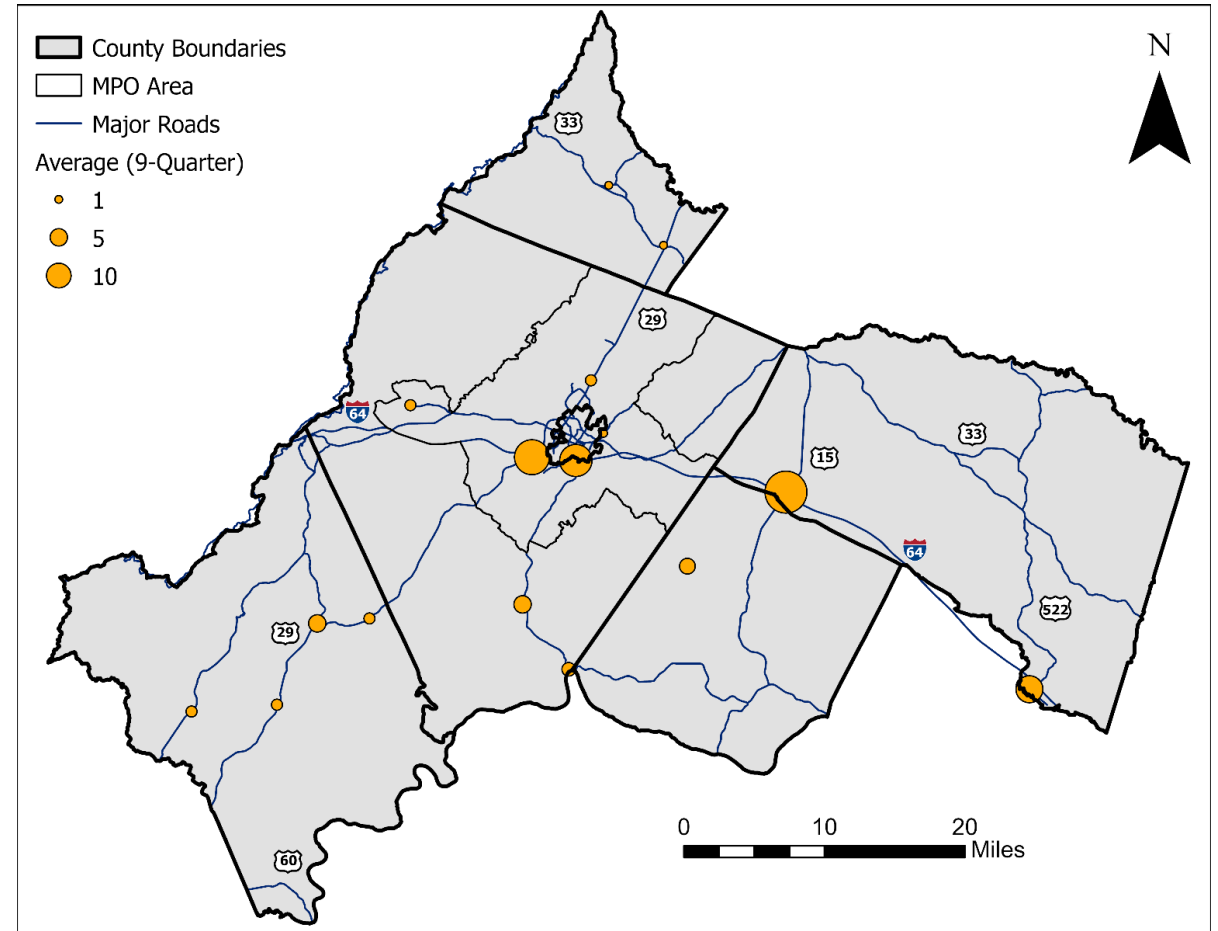
Public Transportation

- Several public transportation providers operate in the TJPDC region
 - Charlottesville Area Transit (CAT)
 - Jaunt
 - UVA Transit
 - BRITE Afton Express
 - Virginia Breeze Bus Lines
 - Amtrak Passenger Rail
- Newly-activated Charlottesville-Albemarle Regional Transit Authority (CARTA)



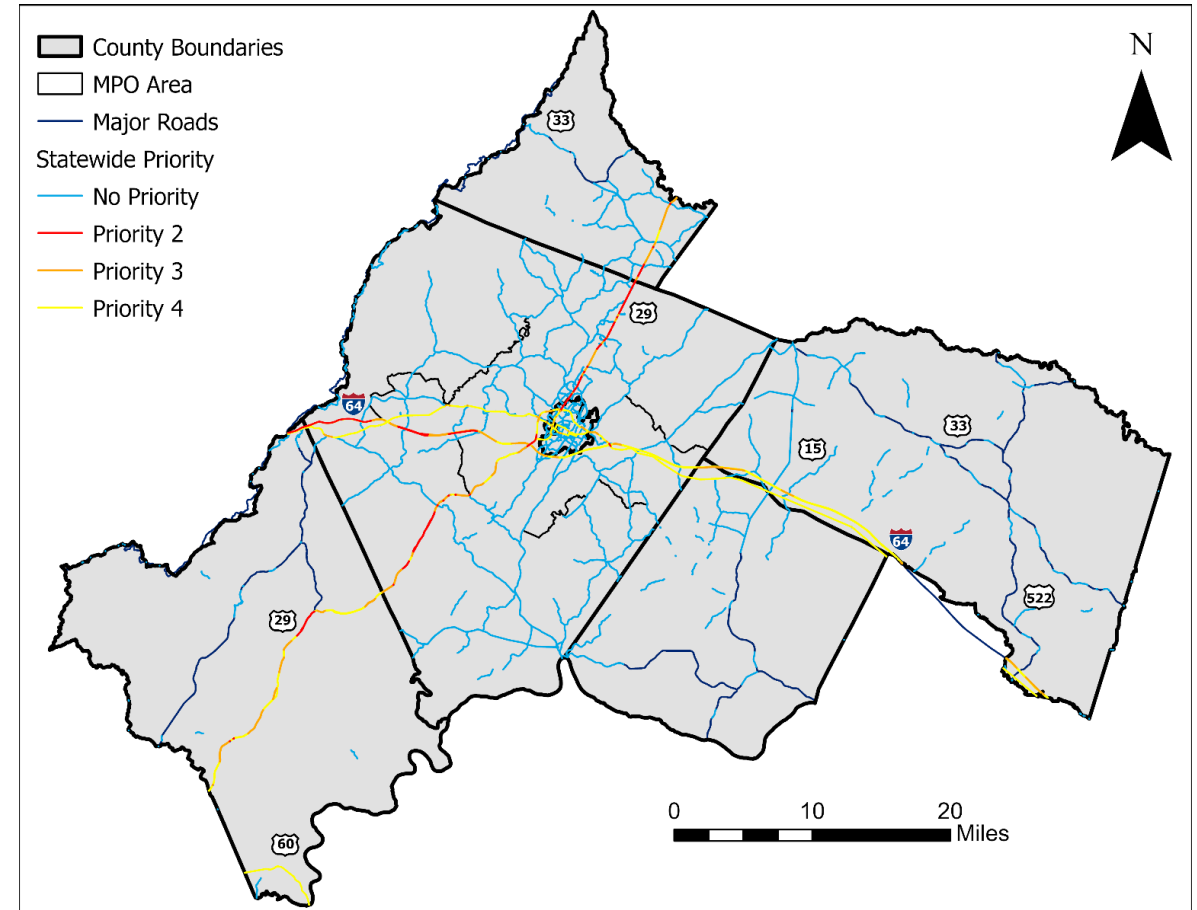
Transportation Demand Management

- Transportation Demand Management (TDM) refers to a suite of measures to reduce single occupancy vehicle traffic volumes
- 20 park and ride lots in the TJPDC region
 - **Zion Crossroads** and **Teel Lane** serving as the most-used locations
- TJPDC and Central Shenandoah Planning District Commission (CSPDC) joint RideShare Program
- Quarterly park and ride count program



2025 VTrans Mid-Term Needs

- VTrans is Virginia's statewide transportation plan
- Establishes goals and identifies needs that inform planning and investment decisions
- Two geographic levels
 - **Statewide Priorities** identify the most severe transportation needs across the Commonwealth
 - **Construction District Priorities** identify the most severe transportation needs within each VDOT construction district
- Statewide Priority 2 and Construction District Priority 1-2 needs are identified in draft chapter tables



2050 RLRP Goals

- **Goal 1: Safety**

Improve the safety of the transportation system for all users *by reducing fatalities and serious injuries* through infrastructure improvements, education, *and other elements of the safe system approach*.

- **Goal 2: Mobility and Accessibility**

Provide reliable access to destinations for all users by integrating various modes of transportation.

- **Goal 3: Economic Vitality**

Support *regional economic vitality, including* freight movement, workforce access, agriculture, tourism, and economic development.

- **Goal 4: Land Use and Transportation Coordination**

Promote coordinated transportation and land use decisions that support efficient growth, improve access to destinations, preserve rural character, and maximize the effectiveness of transportation investments.

- **Goal 5: System Preservation and Maintenance**

Maintain, preserve, and enhance the transportation system to ensure existing assets remain safe, reliable, and cost-effective.

- **Goal 6: Community and Environmental Stewardship**

Reduce the impact of transportation projects on the environment and communities by promoting sustainable transportation investments that improve the region's quality of life.

RLRP Public Engagement

- Press release to introduce the plan and announce survey
- Public survey mid-January to mid-February
 - Online format, with paper available at designated locations throughout the region
 - Draft survey questions included in today's meeting packet for review/feedback
- Standardized outreach toolkit for local partners
 - Project flyer
 - Social media graphics
 - Project description and talking points
 - Paper surveys, if requested
- TJPDC Communications
 - Facebook, e-newsletter, project webpage

2050 Rural Long Range Transportation Plan Survey

Thomas Jefferson Planning District Commission (TJPDC)

Purpose: The Thomas Jefferson Planning District Commission (TJPDC) is updating the **2050 Rural Long Range Transportation Plan** for Albemarle, Fluvanna, Greene, Louisa, and Nelson Counties.

This short 7-10 minute survey asks about your travel experiences, transportation challenges, and priorities for future improvements. Your feedback will help identify transportation needs and priorities in the rural communities of the Thomas Jefferson Planning District.

Section 1. Introduction

1. What county or locality do you live in?

- ☐ Albemarle
- ☐ Greene
- ☐ Fluvanna
- ☐ Louisa
- ☐ Nelson
- ☐ Town of Louisa
- ☐ Town of Mineral
- ☐ Town of Scottsville
- ☐ Town of Stanardsville
- ☐ Other (please specify)

2. Home ZIP code: _____

3. What county or locality do you work in?

- ☐ Albemarle
- ☐ Charlottesville
- ☐ Greene
- ☐ Fluvanna

Next Steps

- November 2026 RTAC meeting
 - *RLRP Goal Recommendation
 - Draft: Assessment of the regional transportation system
 - Public engagement approach
- December 2026 TJPD Commission meeting
 - *RLRP Goal Approval
 - Draft: Assessment of the regional transportation system
 - Public engagement approach

Questions?