Agenda:
MPO Citizens Transportation Advisory Committee (CTAC)
Wednesday, April 17, 2024, 7:00 p.m.
Water Street Center, 407 East Water Street, Charlottesville 22902

For Remote Participation in Compliance with
Adopted Remote Meeting Policy, Guest Speakers, and Members of Public
Zoom Meeting Link: https://us02web.zoom.us/j/83277478800
Meeting ID: 832 7747 8800

Item	Time	Description
1	7:00 – 7:05	Attendance
2	7:10 – 7:15	Matters from the Public • *Members of the public are welcome to provide comment on any public-interest, transportation-related topic, including items listed on this agenda – limit three minutes per speaker*
3	7:15 – 7:20	Approval of Meeting Minutes • *Draft March 20, 2024 Meeting Minutes (attachment)*
4	7:55 – 8:05	Unified Planning Work Program – **Christine Jacobs**, TJPDC • *Staff Memo, FY25 UPWP (attachments)* • *Discussion* • *Recommendation to the MPO Policy Board on the UPWP*
5	7:30 – 7:55	Moving Toward 2050 – **Will Cockrell and Alan Simpson**, EPR, virtual • *Memo, Long Range Transportation Plan Draft, Constrained Budget (attachments)* • *Discussion*
6	8:05 – 8:15	Additional Matters from the Committee and Public • *Members of the Committee and the public are welcome to provide comment on any public-interest, transportation-related topic, including items listed on this agenda – limit three minutes per non-Committee speaker*
7	8:15 – 8:20	Next meeting: July 17, 2024

CA-MPO

Citizen Transportation Advisory Committee
Draft Summary Minutes
March 20, 2024

	RHP Committee Members		Staff
X	Lee Kondor, Albemarle County	X	Laurie Jean Talun
X	Nathan Moore, Albemarle	X	Christine Jacobs
X	Jose Gomez, Albemarle		Gretchen Thomas
	Marty Meth, Albemarle County		
X	Peter Thompson, Albemarle		
X	Sarah Medley, City of Charlottesville		
X	Greg Weaver, City of Charlottesville		
X	Ethan Heil, City of Charlottesville		**Guests / Public**
	Karim Habbab, City of Charlottesville	X	Alan Simpson
X	Patrick Healy, City of Charlottesville	X	Chuck Proctor
	Donna Chen, MPO		
X	Chapman Munn, MPO		
	Stuart Gardner, MPO		

0. Call to Order

Chair Lee Kondor called the meeting to order at 7:03 p.m.

1. Attendance

Laurie Jean Talun took attendance, and each individual introduced themselves.

2. Introduction of New Members

Jose Gomez and Peter Thompson introduced themselves.

3. Matters from the Public

Sarah Medley reported that there is a lack of sidewalks on Blenheim Ave in Charlottesville near the parking lot of the IX Building. Speed humps may also be a resolution to address the issue of traffic and pedestrians in that area.

Lee Kondor suggested that this be brought before the City of Charlottesville, and could potentially be a SS4A activity.

4. Approval of Meeting Minutes

Draft minutes from January 17, 2024, were approved.

5. SMART SCALE Alternatives Selection

Because of a delay in the arrival of the speaker, this section was delayed until after item # 6.

6. Moving Toward 2050

Alan Simpson presented about the Long Range Transportation Plan, including citizen participation. The focus of the plan is on pedestrian safety and accessibility in general.

Next steps are to finalize the priority project list using stakeholder and public feedback, develop implementation strategies, and adopt the LRTP in May of 2024.

Sarah Medley noted that there was not a great deal of public feedback, but the prioritization of the projects was based on public feedback previously.

Alan Simpson explained that a heatmap of public comments was used to develop the initial plan, although not in determining the priority level of each project.

Sarah Medley asked how public input will be incorporated into the next round.

Christine Jacobs said that it is a part of the whole process, not the only chance for public input.

Chair Kondor noted that some of the items on the priority list are already approved projects.

5. SMART SCALE Alternatives Selection

Chuck Proctor from Virginia Department of Transportation provided a presentation about the Barracks Road and I-64 & 5th Street Interchange projects.

Public feedback regarding Barracks Road was received last week through a survey. He pulled out the solutions that had the most public buy-in, and presented them to CTAC. The path will have a 12 foot off-set. The goal is to have the least amount of impact possible on right-of-way, and least impact on the residences beside the intersection.

Georgetown Road Roundabout survey received 1,447 responses. 66% were in favor, and 43% of the comments were negative. Charles reported that the typical response to roundabouts tends to be polarized. This is a significantly positive response to roundabouts for this specific location. Chuck Proctor reported that he is seeing an increase in comfort with roundabouts, as people in our region become familiar with them, and learn about the increase in safety and decrease in crashes.

Albemarle County will submit the Western portion of the Smart Scale Application, and the MPO will submit two additional applications, including the second application which is all inclusive.

Chair Kondor asked whether it would be feasible for the shared use path to go under the ramps instead of requiring such sharp turns.

Chuck Proctor said it may be possible, but not feasible, because adding a structure to allow the shared use path to go under the ramps, may not be feasible to fund. This plan will address congestion and safety issues at the location, but may not be cost effective with a change such as that.

Chair Kondor asked if an additional roundabout might be required in the Western portion as well.

Chuck Proctor said this discussion has not yet been had.

Sarah Medley asked how bikes will be able to cross the road where there is a barrier in the Western portion.

Chuck Proctor said the most likely method will be rapid flashing beacons.

Chair Kondor suggested the presentation about the Interstate 64 – 5th Street Interchange begin.

Chuck Proctor presented on the topic. Public input will begin next week. They are offering four alternatives to the public.

There were no questions about this project.

Chuck Proctor introduced the next projects that Albemarle will submit to Smart Scale: US 250 – Pantops. This application will provide crosswalks at Rolkin Road, and sidewalks along 250.

7. Unified Planning Work Program

Christine Jacobs presented the UPWP to the committee. The annual plan must be submitted yearly, and describes the activities the MPO will undertake in that year. The final vote about UPWP will be completed in April, to be submitted federally in May.

Christine reviewed the additional priorities that CA-MPO had been interested in expanding when possible, in addition to the federal requirements.

Two federal agencies fund the MPO's planning activities: (1) Federal Highway Administration (FHWA), which is administered through VDOT, and Federal Transit Administration (FTA), which is administered through the Virginia Department of Rail and Public Transportation (DRPT). Local contributions from each locality involved in the MPO contribute 10% of the total MPO funding.

Christine reviewed the funding that will be received and administered through the MPO. In the UPWP, each task is shown tied to the funding it will receive.

Next steps for the UPWP: A final draft will be delivered in April, and will be seeking recommendation to the Policy Board to approve it. It will then be submitted in May to the funders.

8. Additional Matters from the Committee and Public

All comments were made by members of the Committee.

A comment was made that the desire is to be more visionary, and find strategies to move away from car use as much as possible.

The concern was also raised that cars drive too fast in our community, and a question raised about who can impact these changes, and how we can keep this at the center of the CTAC and MPO work.

Charles Proctor reported that he reviews safety data every year, and comes up with multimodal solutions to address the locations where a high number of safety issues occur.

Christine Jacobs acknowledged the great desires that are shared by those in leadership, throughout the MPO and even the Planning District regionally, but the challenge is finding the funding to do everything that is desired with transportation and transit.

Christine Jacobs reported that the RAISE grant has been submitted.

9. Next meeting: April

Chair Kondor reported that the review of the LRTP requires a meeting in April instead of May.

Thomas Jefferson Planning District Commission
Charlottesville/Albemarle MPO

Charlottesville-Albemarle Metropolitan Planning Organization
POB 1505, 401 E. Water St, Charlottesville, VA 22902 www.tjpdc.org
(434) 979-7310 phone • info@tjpdc.org email

Memorandum

To: Charlottesville-Albemarle Metropolitan Planning Organization's (CA-MPO) Committees
From: Christine Jacobs, Executive Director, TJPDC/CA-MPO
Date: April 16, 2024
Reference: Draft FY25 Unified Planning Work Program

Purpose:

The Unified Planning Work Program (UPWP) for transportation planning identifies all activities to be undertaken in the Charlottesville-Albemarle Metropolitan Planning Organization (CA-MPO) area for fiscal year 2025. The UPWP provides a mechanism for coordination of transportation planning activities in the region and is required as a basis and condition for all federal funding assistance for transportation planning by the joint metropolitan planning regulations of the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA).

Background:

Based on ongoing initiatives that CA-MPO staff has been pursuing in coordination with discussions occurring with the MPO committees as well as federal and state agency priorities, MPO staff have prepared the draft FY25 UPWP for consideration. The proposed FY25 UPWP includes several required activities, as well as the completion of activities that were initiated in FY24 and will be carried over into FY25, such as project management and coordination to develop the regional and multi-jurisdictional Comprehensive Safety Action Plan, Moving Safely Blue Ridge. Funding for this task is also included in the approved Rural Transportation Work Program.

Additional work tasks added to the FY25 work plan include the first phase of a Travel Demand Management Study, continued staff support for work towards implementing recommendations from the approved Regional Transit Governance Study, an update to the regional Travel Demand Model maintained by the Virginia Department of Transportation (VDOT), and a Pedestrian Navigation of Innovative Intersections resource guide.

The on-call services/contingency task will support the ongoing development of an on-call program as well as provide flexibility for MPO staff to provide technical assistance or general support for projects that may be of interest to the region but are not identified at this time.

Ongoing tasks to support the administration of the MPO program reflect a slight increase in budget as seen in previous years ($74,000 to $84,000) to support new transportation planning staff. Administrative tasks include reporting and compliance with regulations, staffing committees, and information sharing. The information sharing task includes continued updates to the CA-MPO website to more consistently conform to the style of the previously updated TJPDC website.

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There are two budget changes in the most recent draft of the UPWP that were not in the original draft shared with CA-MPO committees in March. The first is a minor change to the FTA/DRPT allocation. On April 9, 2024, DRPT/FTA confirmed the final funding allocations. The planning/projected amount of $131,199 has been updated to the confirmed amount of $136,851. The additional amount in the budget will increase the total amount in task three for transit and rail planning. The second change is to VDOT's State Planning and Research (SPR) funds originally projected at last year's amount of $170,000. VDOT has finalized their SPR budget with an increase to $202,500.

Additionally, there is one added task in rail and transit planning to include supporting the development of Charlottesville Area Transit's (CAT) and Jaunt's Transit Strategic Plans (TSP).

The Short-Range Planning tasks reflect the ongoing support of the MPO staff in preparing/submitting SMART SCALE applications, coordination with the state and local jurisdictions, meeting federal reporting requirements, and providing ongoing public outreach and engagement consistent with federal requirements.

A summary of programmed tasks and VDOT's SPR budget are indicated in the attached tables.

The FY25 Draft UPWP was presented at the MPO Policy Board in February, and the MPO Technical Committee, the Citizen's Advisory Committee, and the MPO Policy Board meetings in March for review. The FY25 UPWP was posted on April 3-23 for the required minimum 15-day public comment period. No public comments have been received to date.

The MPO Technical Committee and the Citizens Transportation Advisory Committee reviewed the UPWP at their meetings in April.

Recommendations:

MPO Technical Committee: Staff recommends a motion to recommend approval of the FY25 UPWP to the MPO Policy Board, as presented.

Citizens Advisory Committee: Staff recommends a motion to recommend approval of the FY25 UPWP to the MPO Policy Board, as presented.

MPO Policy Board: Staff recommends a motion to approve the FY25 UPWP, as presented and recommended by the MPO Technical and Citizens Transportation Advisory Committee (CTAC) in their April meetings.

If there are any questions or comments, please contact Christine Jacobs at cjacobs@tjpdc.org.

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PL-FHWA/VDOT Section 5303 and FTA/DRPT Funding Breakdown

FY25			
	FHWA/VDOT - PL	**FTA/DRPT**	**Total**
Task 1: Administration	**$ 62,500**	**$ 21,500**	**$ 84,000**
Reporting and Compliance with Regulations	$ 14,000	$ 8,000	$ 22,000
Staffing Committees	$ 24,000	$ 8,000	$ 32,000
Information Sharing	$ 24,500	$ 5,500	$ 30,000
Task 2: Long Range Transportation Planning	**$ 192,029**	**$ 73,000**	**$ 265,029**
Comprehensive Safety Action Plan	$ 50,000		$ 50,000
Travel Demand Management Study	$ 60,000	$ 15,000	$ 75,000
Regional Transit Authority		$ 55,000	$ 55,000
Travel Demand Model Update	$ 10,000		$ 10,000
Pedestrian Navigation of Innovative Intersections	$ 20,000		$ 20,000
On-call Services/Contingency	$ 52,029	$ 3,000	$ 55,029
Task 3: Short Range Transportation Planning	**$ 68,000**	**$ 42,351**	**$ 110,351**
TIP Maintenance	$ 5,000	$ 2,000	$ 7,000
SMART SCALE & Grant Support	$ 35,500	$ 10,400	$ 45,900
RTP, TDM, and Bike/Ped Support	$ 8,500	$ 8,500	$ 17,000
Performance Targets	$ 2,000	$ 1,000	$ 3,000
Regional Transit & Rail Planning	$ -	$ 12,276	$ 12,276
CTAC/Public Outreach/Title VI	$ 17,000	$ 8,175	$ 25,175
TOTAL	**$ 322,529**	**$ 136,851**	**$ 459,380**

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FY25 Work Program: Funding by Source

Funding Source	Federal	State	Local	Total
	80%	*10%*	*10%*	*100%*
FY-25 PL-FHWA/VDOT Funding	$ 229,369	$ 28,671	$ 28,671	$ 286,711
FY-23 PL-FHWA/VDOT Passive Rollover	$ 28,654	$ 3,582	$ 3,582	$ 35,818
FY-24 PL-FHWA/VDOT Active Rollover				
FY-24 PL-FHWA/VDOT Total	**$ 258,023**	**$ 32,253**	**$ 32,253**	**$ 322,529**
FY-25 FTA/DRPT Funding	$ 109,481	$ 13,685	$ 13,685	$ 136,851
FY-24 FTA/DRPT Active Rollover				
FY-25 FTA/DRPT Total	**$ 109,481**	**$ 13,685**	**$ 13,685**	**$ 136,851**
PL-FHWA/VDOT + FTA/DRPT Total	***$ 367,504***	***$ 45,938***	***$ 45,938***	***$ 459,380***
VDOT SPR	**$ 162,000**	**$ 40,500**	**$ -**	**$ 202,500**
Total FY25 Work Program	***$ 529,504***	***$ 86,438***	***$ 45,938***	***$ 661,880***

FY25 Work Program: Funding by Task

Funding Source	Task 1	Task 2	Task 3	Total
	18.29%	*57.69%*	*24.02%*	*100%*
FY-25 PL-FHWA/VDOT Funding	$ 62,500	$ 166,211	$ 68,000	$ 296,711
FY-23 PL-FHWA/VDOT Passive Rollover	$ -	$ 35,818	$ -	$ 35,818
FY-24 PL-FHWA/VDOT Active Rollover	$ -	$ -	$ -	$ -
PL-FHWA/VDOT Total	**$ 62,500**	**$ 192,029**	**$ 68,000**	**$ 322,529**
FY-25 FTA/DRPT Funding	$ 21,500	$ 73,000	$ 42,351	$ 136,851
FY-24 FTA/DRPT Active Rollover	$ -	$ -	$ -	$ -
FTA/DRPT Total	**$ 21,500**	**$ 73,000**	**$ 42,351**	**$ 136,851**
PL-FHWA/VDOT + FTA/DRPT Total	***$ 84,000***	***$ 265,029***	***$ 110,351***	***$ 459,380***
VDOT SPR	**$ 40,500**	**$ 121,500**	**$ 40,500**	**$ 202,500**
Total FY25 Work Program	***$ 124,500***	***$ 386,529***	***$ 150,851***	***$ 661,880***







Unified Planning Work Program (UPWP)

Fiscal Year 2025
July 1, 2024 – June 30, 2025
Approved April XX, 2024

Thomas Jefferson Planning District Commission
Charlottesville/Albemarle MPO

VDOT Virginia Department of Transportation

DRPT Virginia Department of Rail and Public Transportation

U.S. Department of Transportation Federal Highway Administration

FTA Federal Transit Administration

PREFACE

Prepared on behalf of the Charlottesville-Albemarle Metropolitan Planning Organization (CA-MPO) by the staff of the Thomas Jefferson Planning District Commission (TJPDC) through a cooperative process involving the City of Charlottesville and the County of Albemarle, Charlottesville Area Transit (CAT), Jaunt, University of Virginia (UVA), the Virginia Department of Transportation (VDOT), the Department of Rail and Public Transportation (DRPT), the Federal Highway Administration (FHWA), and the Federal Transit Administration (FTA).

The preparation of this work program was financially aided through grants from FHWA, FTA, DRPT, and VDOT.

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INTRODUCTION

Purpose of the Unified Planning Work Program

The Unified Planning Work Program (UPWP) for transportation planning identifies all activities to be undertaken in the Charlottesville-Albemarle Metropolitan Planning Organization (CA-MPO) area for fiscal year 2025. The UPWP provides a mechanism for coordination of transportation planning activities in the region and is required as a basis and condition for all federal funding assistance for transportation planning by the joint metropolitan planning regulations of the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA).

Purpose of the Metropolitan Planning Organization

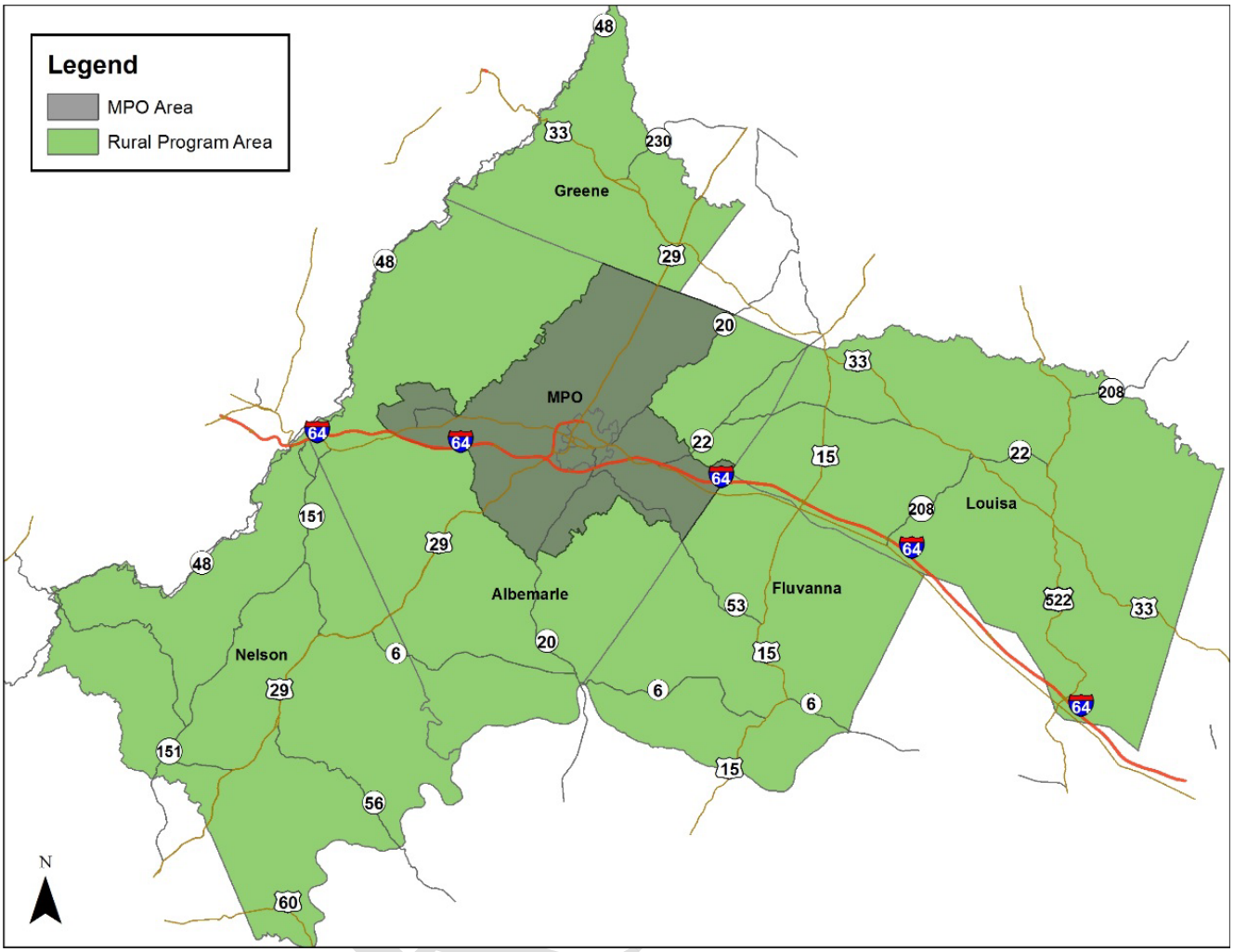
CA-MPO provides a forum for conducting continuing, comprehensive, and coordinated (3-C) transportation decision-making among the City of Charlottesville, County of Albemarle, University of Virginia (UVA), Jaunt, Charlottesville Area Transit (CAT), Department of Rail and Public Transportation (DRPT) and Virginia Department of Transportation (VDOT) officials. In 1982, Charlottesville and Albemarle officials established the MPO in response to a federal mandate through a memorandum of understanding signed by the Thomas Jefferson Planning District Commission (TJPDC), Jaunt, VDOT and the two localities. The same parties adopted a new agreement on July 25, 2018 (*Attachment A*).

The MPO conducts transportation studies and ongoing planning activities, including the Transportation Improvement Program (TIP), which lists road and transit improvements approved for federal funding, and the 25-year long range plan for the overall transportation network, which is updated every five years. Projects funded in the TIP are required to be in the long-range plan.

The policy making body of the CA-MPO is its Board, consisting of two representatives from the City of Charlottesville and two representatives from Albemarle County. A fifth representative is from the VDOT Culpeper District. Non-voting members include DRPT, CAT, Jaunt, UVA, the Federal Highway Administration (FHWA), the Federal Aviation Administration (FAA), the Federal Transit Administration (FTA), the Thomas Jefferson Planning District Commission, and the Citizens Transportation Advisory Committee (CTAC). CA-MPO is staffed by the TJPDC, which works in conjunction with partner and professional agencies, to collect, analyze, evaluate, and prepare materials for the Policy Board and MPO Committees at their regularly scheduled meetings, as well as any sub-committee meetings deemed necessary.

The MPO area includes the City of Charlottesville and the portion of Albemarle County that is either urban or anticipated to be urban within the next 20 years. In 2013, the MPO boundaries were updated and expanded to be more consistent with 2010 census data. The Commonwealth's Secretary of Transportation approved these new boundaries in March 2013. A map of the MPO area appears on the next page:

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Relationship of UPWP to Long Range Transportation Planning

The MPO develops its UPWP each spring. It outlines the transportation studies and planning efforts to be conducted during the upcoming fiscal year (July 1 – June 30). The transportation studies and planning efforts outlined in the UPWP are guided by the regional transportation vision, goals, issues, and priorities developed through the extensive long-range planning process. Federal law requires the MPO to address eight basic planning factors in the metropolitan planning process. These eight planning factors are used in the development of any plan or other work of the MPO, including the Work Program, and are as follows:

- *Economic Vitality:* Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency.
- *Safety:* Increase the safety of the transportation system for motorized and non-motorized users.
- *Security:* Increase the security of the transportation system for motorized and non-motorized users.
- *Accessibility/Mobility:* Increase the accessibility and mobility of people and freight.

- *Environmental Quality:* Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns.
- *Connectivity:* Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight.
- *Efficiency:* Promote efficient system management and operation.
- *Maintenance:* Emphasize the preservation of the existing transportation system.

MPO Transportation Infrastructure Issues and Priorities

In addition to the eight planning factors identified by FHWA and FTA, the issues listed below (in no particular order) have been identified by the MPO, its transportation planning partners, and the public throughout the metropolitan planning process. These issues are interconnected components of effective regional transportation planning, and collectively create the planning priorities facing the CA-MPO that will be addressed through the Work Program tasks and deliverables.

The following issues call for a need to:

- Expand and enhance transit, transportation demand management strategies including ridesharing services, and parking strategies to provide competitive choices for travel throughout the region.
- Improve mobility and safety for the movement of people and goods in the area transportation system.
- Improve strategies to make the community friendly to bicycles and pedestrians, particularly the mobility and safety of bicyclists and pedestrians, as well as access to transit, rail and transit/rail facilities.
- Take more visible steps to better integrate transportation planning with local government land use plans, with a goal of creating patterns of interconnected transportation networks and long-term multimodal possibilities such as non-vehicular commuter trails, intercity rail, and right-of-way corridors for bus ways.
- Ensure that new transportation networks are designed to minimize negative impacts on the community and its natural environment, and to save money.
- Encourage public involvement and participation, particularly addressing environmental justice and Title VI issues.[1]
- Improve the understanding of environmental impacts of transportation projects and identify opportunities for environmental mitigation.

[1] The 1994 Presidential Executive Order directs Federal agencies to identify and address the needs of minority and low-income populations in all programs, policies, and activities.

Public Participation/Title VI and Environmental Justice

The MPO makes every effort to include minority, low-income, and limited-English speaking populations in transportation planning. Throughout this document there are several tasks that specifically discuss the MPO's efforts to include these populations. In addition to the UPWP, the MPO also maintains a Public Participation Plan and a Title VI/Environmental Justice Plan. Both plans specify that the MPO must post public notices in key locations for low-income, minority and limited-English speaking populations. Both plans state that the MPO must make all official documents accessible to all members of our community. The Title VI/Environmental Justice Plan also outlines a complaint process, should a member of these specialized populations feel as though they have been discriminated against. These documents work in tandem with the UPWP to outline the MPO's annual goals and processes for regional transportation planning.

Funding

Two federal agencies fund the MPO's planning activity. This includes FHWA's funds, labeled as "PL," and FTA, labeled as "FTA." The FHWA funds are administered through VDOT, while FTA funds are administered through the DRPT. Funds are allocated to the TJPDC, to carry out MPO staffing and the 3c process. The CA-MPO budget consists of 10% local funds, 10% state funds, and 80% federal funds.

VDOT receives federal planning funds from FHWA for State Planning and Research. These are noted with the initials "SPR." The total budget for SPR items reflects 80% federal funds and 20% state funds. ***Attachment B*** shows the tasks to be performed by VDOT's District Staff, utilizing SPR funds. VDOT's Transportation and Mobility Planning Division (TMPD), located in the VDOT Central Office, will provide statewide oversight, guidance, and support for the federally mandated Metropolitan Transportation Planning & Programming Process. TMPD will provide technical assistance to VDOT District Planning Managers, local jurisdictions, regional agencies, and various divisions within VDOT in the development of transportation planning documents for the MPO areas. TMPD will participate in special studies as requested. DRPT staff also participate actively in MPO studies and committees, although funding for their staff time and resources is not allocated through the MPO process.

The following tables provide information about the FY25 Work Program Budget. These tables outline the FY25 Program Funds by Source and by Agency. The second table summarizes the budget by the three Work Program tasks: Administration (Task 1), Long Range Planning (Task 2), and Short-Range Planning (Task 3). More detailed budget information is included with the descriptions of the task activities.

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Funding Source	Federal	State	Local	Total
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HIGHLIGHTS OF FY25 UPWP

The CA-MPO conducted several projects and initiatives in FY24. Below are highlights from that year, helping to give context for the FY25 activities.

SMART SCALE
The SMART SCALE process scores and ranks transportation projects, based on an objective analysis that is applied statewide. The legislation is intended to improve the transparency and accountability of project selection, helping the Commonwealth Transportation Board (CTB) to select projects that provide the maximum benefits for tax dollars spent. In FY24, CA-MPO staff followed the comprehensive review of the SMART SCALE program and provided regular updates and presentations to MPO stakeholders regarding proposed changes. The CA-MPO selected projects and prepared pre-applications to be submitted as final applications in FY25.

2050 Long Range Transportation Plan
MPO staff completed the five-year update of the Long-Range Transportation Plan (LRTP), utilizing the new needs identification process that was developed through the Office of Intermodal Planning and Investment's Growth and Accessibility Planning technical assistance grant.

Comprehensive Safety Action Plan
In FY24, MPO staff worked on the process of finalizing the FHWA contract and officially launching the multi-jurisdictional effort to complete a Comprehensive Safety Action Plan. The project is largely funded through a US DOT Safe Streets and Roads for All Discretionary Grant with additional support for MPO staff programmed into the UPWP and the Rural Transportation Work Programs. The project will be completed near the end of FY25.

Regional Transit Planning
MPO staff has continued their involvement in overseeing the Regional Transit Partnership. In FY24, staff completed a Regional Transit Governance Study through a DRPT Technical Assistance Grant. The Regional Transit Governance Study provides guidance on the appropriate governing and funding structure for a transit authority. MPO staff will continue to support regional transit planning through the Transit Strategic Plans of Jaunt and Charlottesville Area Transit.

Transportation Improvement Program (TIP)
MPO continued to maintain the TIP in collaboration with VDOT, DRPT, Jaunt, and CAT, and corrected a long-standing inconsistency by removing Jaunt's funding allocations from inclusion in the TIP document.

National Transportation Performance Measures
Performance Based Planning and Programming requirements for transportation planning are laid out in the Moving Ahead for Progress in the 21st century (MAP-21), enacted in 2012 and reinforced in the 2015 FAST Act, which calls for states and MPOs to adopt targets for national

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performance measures. Each MPO adopts targets for a set of performance measures, in coordination with the Virginia Department of Transportation (VDOT) and the Virginia Department of Rail and Public Transit (DRPT), and these measures are used to help in the prioritization of TIP and Long-Range Transportation Plan projects. In FY24, the MPO Policy Board voted to adopt safety targets based on regionally specific trends.

Grant Applications

MPO staff prepared applications for federal funding through the Rebuilding American Infrastructure with Sustainability and Equity (RAISE) grant to complete the preliminary engineering phase of a bicycle and pedestrian bridge across the Rivanna River. Additionally, MPO staff applied for funding through to the 5310 Mobility Management Program to develop a regional one-call-one-click center to provide support for seniors and individuals with disabilities to access transportation services.

Title VI/Public Participation

In FY23 and FY24, MPO Staff continued improving implementation of the Title VI plan in conformance with feedback received from VDOT.

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FY25 UPWP ACTIVITIES BY TASK

Task 1: Administration

Total Funding: $84,000
PL Funding: $62,500
FTA Funding: $21,500

A) Reporting and Compliance with Regulations
PL Funding: $14,000
FTA Funding: $8,000

There are several reports and documents that the MPO is required to prepare or maintain, including:

- FY25 Unified Planning Work Program Implementation;
- FY26 Unified Planning Work Program Development;
- Monthly progress reports and invoices; and,
- Other funding agreements.

TJPDC staff will also provide for the use of legal counsel, accounting, and audit services for administering federal and state contracts.

End Products:

- Complete annual Unified Planning Work Program (UPWP) process;
- Administer Grants and other funding;
- Execute project agreements, along with related certifications and assurances; and,
- Complete invoicing, monthly billing, and progress reports.

B) Staffing Committees
PL Funding: $24,000
FTA Funding: $8,000

TJPDC staff is responsible for staffing the MPO Policy Board and Committees. These efforts include preparation of agendas, public notice, minutes, and other materials for the committees listed below. The MPO continues to urge localities to appoint committee representatives from minority and low-income communities.

The CA-MPO staffs the following groups:

- MPO Policy Board;
- MPO Technical Committee;
- Regional Transit Partnership (RTP); and,
- Additional committees as directed by the MPO Policy Board.

End Products:

- Staff committees;

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- Maintain memberships on committees;
- Issue public notices and mailings;
- Issue notice of Public Hearings, when appropriate; and,
- Maintain committee information on the TJPDC/MPO Website.

C) Information Sharing
PL Funding: $24,500
FTA Funding: $5,500

The MPO functions as a conduit for sharing information between local governments, transportation agencies, state agencies, other MPOs, and the public. MPO staff will provide data and maps to State and Federal agencies, localities, and the public as needed. Staff will also contribute articles to TJPDC's newsletters and Quarterly Report. The CA-MPO will continually monitor and report on changes to Federal and State requirements related to transportation planning and implementation policies. Staff will attend seminars, meetings, trainings, workshops, and conferences related to MPO activities as necessary. Staff will assist local, regional, and state efforts with special studies, projects, and programs. Staff will also conduct ongoing intergovernmental discussions, coordinate transportation projects, and attend/organize informational meetings and training sessions. MPO staff will attend additional meetings with local planning commissions and elected boards to maintain a constant stream of information with local officials to include transportation, transit, and environmental topics.

Additional funding is provided in this task to complete a comprehensive overhaul of the CA-MPO website, consistent with the recent updates to the TJPDC website. This update will allow staff to manage the website content more directly, as well as provide continuity among the TJPDC's program areas.

End Products:
- Continue to review and update facts and figures;
- Provide technical data, maps and reports to planning partners;
- Attend local planning commission meetings as needed;
- Attend City Council and Board of Supervisors meetings as needed;
- Ensure adequate communication between Planning District Commission and MPO Policy Board;
- Continue coordination of ongoing meetings with staff from Charlottesville, Albemarle and UVA regarding bicycle and pedestrian projects;
- Participate and maintain membership with the Virginia Association of MPOs (VAMPO);
- Participate and maintain membership with the American Association of MPOs (AMPO); and,
- Participate in local Land Use and Environmental Planning Committee (LUEPC) meetings, when relevant to MPO topics/projects;
- Hold annual joint-MPO Policy Board meeting with the Staunton-Augusta-Waynesboro MPO and propose meetings with Lynchburg MPO;
- Maintain the TJPDC's social media; and,

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- Maintain and update the MPO Website.

Task 2: Long Range Transportation Planning

Total Funding: $265,029
PL Funding: $192,029
FTA Funding: $73,000

A) Comprehensive Safety Action Plan

PL Funding: $50,000
FTA Funding: $0

In FY23, the TJPDC applied for and was awarded a Safe Streets and Roads for All (SS4A) discretionary grant to develop a Comprehensive Safety Action Plan for all jurisdictions within the TJPDC region. To best leverage the funding for the grant, the TJPDC staff are providing additional support for the development of this safety action plan through both the Unified Planning Work Program and the Rural Work Program. The Comprehensive Safety Action Plan will develop a better understanding of crash risk factors throughout the regional transportation system and identify strategies specific to improving safety outcomes taking a multi-faceted approach that includes infrastructure improvements, enforcement practices, information sharing, education.

The Comprehensive Safety Action Plan will consider the safety needs for all modes of transportation and will include significant public outreach as part of the scope, allowing strong emphasis on equity considerations in developing recommended priorities. This activity demonstrates compliance with the required Complete Streets planning activities found in IIJA/BIL § 11206.

End Products:

- Analysis of regional crash data detailing the high injury networks and multi-modal system deficiencies to provide better understanding of factors that contribute to crashes developed in support with VDOT's Highway Safety Improvement Program;
- The coordination of a stakeholder group to provide feedback on planning process and considerations;
- Implementation of a public engagement strategy to conduct robust and comprehensive outreach throughout the region;
- Prioritized strategies for each locality, as well as regional priorities;
- Support with project development and SS4A implementation applications for the City of Charlottesville and the County of Albemarle; and
- Template for ongoing monitoring and reporting of regional safety data.

B) Travel Demand Management Study

PL Funding: $60,000
FTA Funding: $15,000

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Through the development of the 2050 Long Range Transportation Plan, the MPO identified the need to complete a comprehensive travel demand management study to identify long-term initiatives that would reduce the increase in vehicle miles traveled specifically within the Charlottesville City limits. This study will provide a high-level understanding of travel demand factors, and support the identification of longer-term infrastructure and transit service improvements needed to support mode-shift for those traveling into the downtown areas.

End Products:

- Synthesis of existing studies that have been previously completed in the region;
- Comprehensive data analysis providing understanding of trip origin and destination;
- Determination of primary traffic generators;
- Assessment of existing parking capacity within the City of Charlottesville;
- Review of regional transportation demand model to determine future growth impacts;
- Identification of general park and ride infrastructure needed to accommodate future traffic volumes; and
- Identification of needed transit service improvements and bicycle/pedestrian infrastructure to support travel within downtown area from parking facilities.

C) Regional Transit Authority

PL Funding: $0
FTA Funding: $55,000

The Thomas Jefferson Planning District Commission completed the Regional Transit Governance Study in FY24. There is an expressed desire to move forward with the next steps of activating the existing authority under the previously established legislation and to continue efforts to pursue legislative action by the General Assembly.

End Products:

- Administrative support for meetings and correspondence;
- Identify and apply for funding opportunities to support the initiative;
- Ongoing MPO staff support to draft organizational documents such as by-laws to support the activation of the Charlottesville-Albemarle Regional Transit Authority (CARTA);
- Engagement with local stakeholders to determine interest in participation in CARTA;
- Engagement with statewide and external points of contact to define goals and identify priority initiatives that should be pursued in support of the establishment of CARTA; and
- Preparing and supporting requests for legislative action by the General Assembly.

D) Travel Demand Model Update

PL Funding: $10,000
FTA Funding: $0

VDOT maintains and updates the regional travel demand model for the Charlottesville-Albemarle MPO area. Following the required schedule, CA-MPO's model update began in FY24

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and continues into FY25. MPO staff will coordinate with local government staff and VDOT to provide needed data and inform updates to the model.

- Coordinate meetings between local and state stakeholders related to model assumptions and data needs;
- Support the collection and gathering of regional data, as needed;
- Coordinate with local government staff to provide feedback on growth projections and land use decisions; and
- Review drafts of the travel demand model and provide feedback on any requested changes.

E) Pedestrian Navigation of Innovative Intersections

PL Funding: $20,000
FTA Funding: $0

The implementation of innovative intersections such as roundabouts, R-cuts, and diverging diamond interchanges are increasingly used as cost-effective solutions to address roadway safety and operational needs. The outcome of this project will be a resource guide specifically for understanding the impacts of innovative intersections on bicycle and pedestrian travel.

- Identify innovation intersection used and planned in Virginia;
- Research existing resources on bicycle and pedestrian considerations in innovative intersections;
- Develop resource guide on impacts.

End Product:

- User-friendly resource guide on the impacts of innovative intersections on bicycle and pedestrian travel.

F) On-call Services/Contingencies

PL Funding: $52,029
FTA Funding: $3,000

MPO, VDOT, and local staff will be available to conduct transportation studies, data collection, and planning efforts as requested by our planning partners, including projects focusing on transportation system improvements to improve mobility, safety, and security for area pedestrians, bicyclists, and motorists. Costs may be incurred to identify and initiate contractual arrangements. MPO staff began exploring an on-call consultant program in FY24 to provide efficient access to technical consultants as needed. MPO staff will finalize development of the on-call consultant program in FY25 if support continues to exist.

This task may also be used to support the development of grant applications that may present themselves outside of the normal application cycles.

- Transportation study or planning effort, as requested, that can be used as a basis for implementing short-term and long-term transportation solutions;
- Development and submission of grant applications;

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- Development of desired services that an on-call consultant program can provide; and
- A contract or contracts with consultant(s) procured to provide on-call services to the MPO, TJPDC, and/or partner localities.

Task 3: Short Range Planning

Total Funding: $110,351
PL Funding: $68,000
FTA Funding: $42,351

A) Transportation Improvement Program (TIP)
PL Funding: $5,000
FTA Funding: $2,000

There are a number of federal-aid highway programs (i.e. administered by FHWA) which, in order to be eligible for use by the implementing agency, must be programmed in the TIP. Similarly, there are funds available under federal-aid transit programs (i.e. administered by FTA) which, in order to be used, must also be programmed in the TIP. In fact, any federally funded transportation project within the MPO must be included in the TIP, including transit agency projects. Project descriptions include: implementing agency; location/service area; cost estimates; funding sources; funding amounts actual or scheduled for allocation; type of improvement, and; other information, including a required overall financial plan.

MPO staff prepared the FY24-FY27 TIP adopted by the Policy Board in FY23. This task will support the ongoing maintenance and update of the developed TIP.

End Products:
- Process the Annual Obligation Report;
- Process TIP amendments and adjustments; and
- Monitor the TIP as necessary, ensuring compliance with federal planning regulations.

B) SMART SCALE & Other Grant Planning and Support
PL Funding: $35,500
FTA Funding: $10,400

MPO staff will continue to work with VDOT, DRPT, and City and County staff to identify appropriate funding sources for regional priority projects. MPO staff will coordinate with localities and VDOT to identify potential SMART SCALE projects and support engagement needed to prepare those projects for Round 7 applications (2026).

End Products:
- Provide regular updates to the MPO committees regarding the process of developing SMART SCALE applications for Round 7;
- Support application development through coordination with VDOT pipeline projects and evaluation of previously identified high-priority projects that remain unfunded;

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- Review performance of applications submitted in Round 6 and review projects for consideration in Round 7;
- Coordinate sharing of economic development, and other relevant information, between the localities in support of SMART SCALE applications; and
- Attend the Quarterly Transportation Meetings hosted by OIPI to ensure that MPO and locality staff have appropriate information about all funding programs.

C) Travel Demand Management (TDM), Regional Transit Partnership (RTP), and Travel Demand Management/Transit/Bike/Ped Support
PL Funding: $8,500
FTA Funding: $8,500

The RideShare program, housed by the TJPDC, is an essential program of the MPO's planning process. The Regional Transit Partnership was established to provide a venue for continued communication, coordination, and collaboration between transit providers, localities and citizens. These programs, along with continued support for bike and pedestrian travel, support regional TDM efforts. TDM has been, and will continue to be, included in the long-range transportation planning process.

End Products:
- Continue efforts to improve carpooling and alternative modes of transportation in MPO;
- Staff Regional Transit Partnership meetings;
- Address immediate transit coordination needs;
- Formalize transit agreements, as requested;
- Improve communication between transit providers, localities and stakeholders;
- Explore shared facilities and operations for transit providers;
- Provide continued support to coordinating bike/ped planning activities between the City of Charlottesville, Albemarle County, UVA, and with the rural localities; and
- Integrate TDM into all MPO recommendations and projects.

D) Performance Targets
PL Funding: $2,000
FTA Funding: $1,000

MPOs are asked to participate in the federal Transportation Performance Management process by coordinating with the state to set targets for their regions based on the state targets and trend data provided by the state. The CA-MPO will need to set and document the regional safety and performance targets adopted.

End Products:
- Prepare workbook and background materials for MPO committees and Policy Board to review;
- Facilitate discussion of performance targets with the MPO committees and Policy Board;

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- Complete all documentation notifying the state of the adopted safety and performance targets; and
- Update the TIP when updated performance targets are adopted.

E) Regional Transit and Rail Planning
PL Funding: $0
FTA Funding: $12,276

There is high regional interest in improving transit and passenger rail for the Charlottesville-Albemarle urbanized areas. This task supports the engagement of the CA-MPO with the state and intra-regional stakeholders in transit and rail planning.

End Products:
- Participate in statewide initiatives to expand and improve transit and rail service to the Charlottesville region;
- Support Charlottesville Area Transit and Jaunt's development of Transit Strategic Plans (TSP); and
- Prepare and submit planning and implementation grant applications for transit and rail projects as opportunities are identified.

F) CTAC, Public Participation, and Title VI
PL Funding: $17,000
FTA Funding: $8,175

TJPDC staff will participate in and help develop community events and educational forums such as workshops, neighborhood meetings, local media, and the MPO web page. Staff will also participate in and act upon training efforts to improve outreach to underserved communities, such as low-income households, people with disabilities, minority groups, and limited English-speaking populations, including maintenance and implementation of the agency Title VI Plan. The TJPDC will continue to staff the Citizens Transportation Advisory Committee, which is an important conduit for receiving feedback and input on the efficacy of public outreach and engagement efforts.

End Products:
- Utilize a broad range of public engagement strategies to disseminate information on transportation planning efforts and processes;
- Develop programs to better inform the public about transportation planning and project development;
- Demonstrate responsiveness to public input received during transportation planning processes;
- Review Title VI/Environmental Justice Plan, as needed;
- Review Public Participation Plan, as needed;
- Implement processes in compliance with Title VI Plan, Environmental Justice Plan, and Public Participation Plan;

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- Review information on website for accessibility and understandability;
- Continue to investigate methods to increase participation from historically underserved communities;
- Provide proper and adequate notice of public participation activities; and
- Provide reasonable access to information about transportation issues and processes in paper and electronic media.

PUBLIC PARTICIPATION PROCESS

Review and Approval of Tasks

MPO Policy Board:

- Initial Draft provided February 28, 2024
- Revised Draft provided March 26, 2024
- Final Draft provided April 24, 2024

MPO Technical Committee:

- Initial Draft provided March 19, 2024
- Revised Draft provided April 16, 2024

CTAC Committee:

- Initial Draft provided March 20, 2024
- Revised Draft provided April 17, 2024

Online Posting

Posted as part of MPO meeting agendas for:
February 28, 2024 – MPO Policy Board
March 19, 2024 – MPO Tech
March 20, 2024 – CTAC
March 26, 2024 – MPO Policy Board

Posted on TJPDC.org: April 3, 2024, for 15-day public comment period
Posted as Public Notice in local newspaper on April 3, 2024, for 15-day public comment period

State Review

Draft submittal for VDOT review/comment: April 16, 2024
Draft submittal for DRPT review/comment: April 16, 2024

Review of Final FY25 UPWP

MPO Technical Committee: April 16, 2024
Citizen Transportation Advisory Committee (CTAC): April 17, 2024
MPO Policy Board: April 24, 2024

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GLOSSARY OF ACRONYMS

The following transportation-related acronyms are used in this document:

3-C Planning Process	Federal Planning Process which ensures that transportation planning is continuing, comprehensive, and coordinated in the way it is conducted
AADT	Annual Average Daily Traffic
BRT	Bus Rapid Transit
CAT	Charlottesville Area Transit
CTAC	Citizens Transportation Advisory Committee
CTB	Commonwealth Transportation Board
DRPT	Virginia Department of Rail and Public Transportation
EV	Electric Vehicle
FHWA	Federal Highway Administration
FTA	Federal Transit Administration
FY	Fiscal Year (refers to the state fiscal year July 1 – June 30)
GIS	Geographic Information System
JAUNT	Regional transit service provider to Charlottesville City, and Albemarle, Fluvanna, Louisa, Nelson, Buckingham, Greene and Orange Counties
LRTP	Long Range Transportation Plan
MAP-21	Moving Ahead for Progress in the 21st Century (legislation governing the metropolitan planning process)
MPO	Metropolitan Planning Organization
NHS	National Highway System
PL	FHWA Planning Funding (used by MPO)
RAISE	USDOT Rebuilding American Infrastructure with Sustainability and Equity
RideShare	Travel Demand Management (TDM) services housed at TJPDC that promote congestion relief and air quality improvement through carpool matching, vanpool formation, Guaranteed Ride Home, employer outreach, telework consulting and multimedia marketing programs for the City of Charlottesville, and Albemarle, Fluvanna, Louisa, Nelson, and Greene Counties.
RLRP	Rural Long Range Transportation Plan
RTA	Regional Transit Authority
RTP	Rural Transportation Program
SAFETEA-LU	Safe, Accountable, Flexible, Efficient, Transportation Equity Act: A Legacy for Users (legislation that formerly governed the metropolitan planning process)
SOV	Single Occupant Vehicle
SPR	FHWA State Planning and Research Funding (used by VDOT to support MPO)
SS4A	Safe Streets and Roads for All (USDOT Discretionary Grant)
SYIP	Six Year Improvement Plan
TAZ	Traffic Analysis Zone

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TDP	Transit Development Plan (for CAT and JAUNT)
TDM	Travel Demand Management
TIP	Transportation Improvement Program
TJPDC	Thomas Jefferson Planning District Commission
TMPD	VDOT Transportation and Mobility Planning Division
UPWP	Unified Planning Work Program (also referred to as Work Program)
UTS	University Transit Service
UVA	University of Virginia
VDOT	Virginia Department of Transportation
VMT	Vehicle Miles Traveled
Work Program	Unified Planning Work Program (also referred to as UPWP)

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Appendix

Attachment A: Memorandum of Understanding (2019)
Attachment B: Tasks Performed by VDOT
Attachment C: PL-FHWA/VDOT and FTA/DRPT Section 5303
Attachment D: Resolution

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MEMORANDUM OF UNDERSTANDING ON METROPOLITAN TRANSPORTATION PLANNING RESPONSIBILITIES FOR THE CHARLOTTESVILLE-ALBEMARLE METROPOLITAN PLANNING AREA

This agreement is made and entered into as of _____, 2018 by and between the Commonwealth of Virginia hereinafter referred to as the State**,** the Charlottesville-Albemarle Metropolitan Planning Organization hereinafter referred to as the MPO; and the City of Charlottesville, the Charlottesville Area Transit Service, Albemarle County and JAUNT, Inc. hereinafter referred to as the Public Transportation Providers; and the Thomas Jefferson Planning District Commission serving as planning and administrative staff to the MPO, hereinafter referred to as the Staff.

WHEREAS, joint responsibilities must be met for establishing and maintaining a continuing, cooperative, and comprehensive (3-C) metropolitan transportation planning and programming process as defined and required by the United States Department of Transportation in regulations at 23 CFR 450 Subpart C, and

WHEREAS, the regulations at 23 CFR 450.314 direct that the MPO, State, and Public Transportation Provider responsibilities for carrying out the 3-C process shall be cooperatively determined and clearly identified in a written agreement.

NOW, THEREFORE, it is recognized and agreed that, as the regional transportation planning and programming authority in cooperation with the Staff, State and Public Transportation Provider, the MPO shall serve as the forum for cooperative development of the transportation planning and programming activities and products for the Charlottesville-Albemarle metropolitan area. It is also agreed that the following articles will guide the 3-C process. Amendments to this agreement may be made by written agreement among the parties of this agreement.

Article 1
Planning and Modeling Boundaries

The MPO is responsible as the lead for coordinating transportation planning and programming in the Charlottesville-Albemarle metropolitan transportation planning area (MPA) that includes the City of Charlottesville and a portion of Albemarle County. A map providing a visual and itemized description of the current MPA will be included on the MPO website. It is recognized that the scope of the regional study area used with the travel demand model may extend beyond the MPA. The boundaries of the MPA shall be subject to approval of the MPO and the Governor. The MPA shall, at a minimum, cover the U.S. Bureau of the Census' designated urbanized area and the contiguous geographic area expected to become urbanized within the 20 year long range plan forecast period. The boundaries will be reviewed by the MPO and the State at least after

each Census decennial update, to adjust the MPA boundaries as necessary. Planning funds shall be provided to financially support the MPO's planning activities under 23 CFR 450 and 49 CFR 613, and the latest applicable metropolitan planning funding agreement with the State for the metropolitan planning area. All parties to this agreement shall comply with applicable state and federal requirements necessary to carry out the provisions of this agreement.

Article 2
MPO Structure & Committees

The MPO shall consist of, at a minimum, a Policy Board and a standing advisory group, the MPO Technical Committee. The MPO shall establish and follow rules of order and record. The Policy Board and MPO Technical Committee each shall be responsible for electing a chairman with other officers elected as deemed appropriate. These committees and their roles are described below. Redesignation of an MPO is required when an existing MPO proposes to make substantial changes on membership voting, decisionmaking authority, responsibility, or the procedure of the MPO.

(A) The Policy Board serves as the MPO's policy board, and is the chief regional authority responsible for cooperative development and approval of the core transportation planning activities and products for the urbanized region including:

- the MPO budget and Unified Planning Work Program (UPWP); and
- the performance based Constrained Long Range Transportation Plan (CLRP); and
- the performance-based Transportation Improvement Program (TIP) including all regionally significant projects regardless of their funding source; and
- the adoption of performance measure targets in accord with federal law and regulations that are applicable to the MPO metropolitan planning area; and
- the reporting of targets and performance to be used in tracking progress toward attainment of critical outcomes for the MPO region [450.314]; and
- the Public Participation Plan

The Policy Board will consider, analyze as appropriate, and reflect in the planning and programming process the improvement needs and performance of the transportation system, as well as the federal metropolitan planning factors consistent with 23 CFR 450.306. The Policy Board and the MPO will comply and certify compliance with applicable federal requirements as required by 23 CFR 450.336, The Policy Board and the MPO also shall comply with applicable state requirements such as, but not limited to, the Freedom of Information Act requirements which affect public bodies under the Code of Virginia at 2.2-3700 et sequel.

Voting membership of the Policy Board shall consist of the following representatives, designated by and representing their respective governments and agencies:

- One representative participating on behalf of the State appointed by the Commonwealth of Virginia Secretary of Transportation, and
- Locally elected officials representing each County, independent City, Town or other appropriate representation within the metropolitan transportation planning area.

The individual voting representatives may be revised from time to time as designated by the respective government or agency. State elected officials may also serve on the MPO. Nonvoting members may be added or deleted by the Policy Board through a majority of all voting members. Voting and nonvoting designated membership of the Policy Board will be identified and updated on the MPO's website with contact information.

(B) The MPO Technical Committee provides technical review, supervision and assistance in transportation planning. Members are responsible for providing, obtaining, and validating the required latest official travel and socio-economic planning data and assumptions for the regional study area. Members are to ensure proper use of the data and assumptions by the MPO with appropriate travel forecast related models. Additional and specific responsibilities may be defined from time to time by the Policy Board. This committee consists of the designated technical staff of the Policy Board members, plus other interests deemed necessary and approved by the Policy Board. The designated voting and nonvoting membership of the MPO Technical Committee will be updated by the Policy Board, and will be identified online with contact information.

(C) Regular Meetings – The Policy Board and MPO Technical Committee shall each be responsible for establishing and maintaining a regular meeting schedule for carrying out respective responsibilities and to conduct official business. Meeting policies and procedures shall follow regulations set forth in 23 CFR §450.316. The regular meeting schedule of each committee shall be posted on the MPO's website and all meetings shall be open to the public. Any meetings and records concerning the business of the MPO shall comply with State Freedom of Information Act requirements.

Article 3
Unified Planning Work Program (UPWP)

Transportation planning activities anticipated within the Charlottesville-Albemarle Metropolitan Planning Area during the next one or two year period shall be documented and prepared annually by the Staff and the MPO Technical Committee in accord with 23 CFR 450.308 and reviewed and endorsed by the Policy Board. Prior to the expenditure of any funds, such UPWP shall be subject to the approval of the Federal Highway Administration (FHWA), Federal Transit Administration (FTA), and the State for funding the activities. Any changes in

transportation planning and related activities, regardless of funding source, shall be accomplished by amendments to the UPWP and adoption by the Policy Board according to the same, full procedure as the initial UPWP.

Article 4
Participation Plan

The Policy Board shall adopt and maintain a formal, written Public Participation Plan. The Participation Plan shall provide reasonable opportunity for involvement with all interested parties in carrying out the metropolitan area's transportation planning and programming process, providing reasonable opportunities for preliminary review and comment especially at key decision points. Initial or revised participation plan procedures shall undergo a minimum 45 day draft public review and comment period. The Participation Plan will be published and available on the MPO's website. The State may assist, upon request of the MPO and on a case by case basis, in the provision of documents in alternative formats to facilitate the participation of persons with limited English proficiency or visual impairment.

The MPO also shall, to the extent practicable, develop and follow documented process(es) that at least outline the roles, responsibilities and key points for consulting with adjoining MPOs, other governments and agencies and Indian Tribal or federal public lands regarding other planning activities, thereby ensuring compliance with all sections of 23 CFR 450.316. The process(es) shall identify procedures for circulating or providing ready access to draft documents with supporting materials that reference, summarize or detail key assumptions and facilitate agency consultations, and public review and comment as well as provide an opportunity for MPO consideration of such comments before formal adoption of a transportation plan or program.

Article 5
Inclusion and Selection of Project Recommendations

Selection of projects for inclusion into the financially Constrained Long-Range Plan (CLRP)

Recommended transportation investments and strategies to be included in the CLRP shall be determined cooperatively by the MPO, the State, and Public Transportation Provider(s). The CLRP shall be updated at least every five years, and address no less than a 20 year planning horizon. Prior to the formal adoption of a final CLRP, the MPO shall provide the public and other interested stakeholders (including any intercity bus operators) with reasonable opportunities for involvement and comment as specified in 23 CFR 450.316 and in accordance with the procedures outlined in the Participation Plan. The MPO shall demonstrate explicit consideration and response to public input received during the development of the CLRP.

Development of the Transportation Improvement Program (TIP)

The financially constrained TIP shall be developed by the MPO with assistance from the State and Public Transportation Provider(s). The TIP shall cover a minimum four year period and shall be updated at least every four years, or more frequently as determined by the State to coincide and be compatible with the Statewide Transportation Improvement development and approval process.

The State shall assist the MPO and Public Transportation Provider(s) in the development of the TIP by: 1) providing the project listing, planned funding and obligations, and 2) working collaboratively to ensure consistency for incorporation into the STIP. The TIP shall include any federally funded projects as well as any projects that are regionally significant regardless of type of funding. Projects shall be included and programmed in the TIP only if they are consistent with the recommendations in the CLRP. The State and the Public Transportation Provider(s), assisted by the state, shall provide the MPO a list of project, program, or grouped obligations by year and phase for all the State and the public transportation projects to facilitate the development of the TIP document. The TIP shall include demonstration of fiscal constraint and may include additional detail or supporting information provided the minimum requirements are met. The MPO shall demonstrate explicit consideration and response to public input received during the development of the TIP.

Once the TIP is compiled and adopted by the Policy Board the MPO shall forward the approved TIP, MPO certification, and MPO TIP resolution to the State. After approval by the MPO and the Governor, the State shall incorporate the TIP, without change, into the STIP. The incorporation of the TIP into the STIP demonstrates the Governor's approval of the MPO TIP. Once complete, the STIP shall be forwarded by the State to FHWA and FTA for review and approval.

Article 6
Financial Planning and Programming, and Obligations

The State, the MPO and the Public Transportation Provider(s) are responsible for financial planning that demonstrates how metropolitan long-range transportation plans and improvement programs can be implemented consistent with principles for financial constraint. Federal requirements direct that specific provisions be agreed on for cooperatively developing and sharing information for development of financial plans to support the metropolitan transportation plan (23 CFR 450.324) and program (23 CFR 450.326), as well as the development of the annual listing of obligated projects (23 CFR 450.334).

Fiscal Constraint and Financial Forecasts

The CLRP and TIP shall be fiscally constrained pursuant to 23 CFR 450.324 and 450.326 respectively with highway, public transportation and other transportation project costs inflated to reflect the expected year of expenditure. To support the development of the financial plan for the CLRP, the State shall provide the MPO with a long-range forecast of expected state and federal transportation revenues

for the metropolitan planning area. The Public Transportation Provider(s), similarly, shall provide information on the revenues expected for public transportation for the metropolitan planning area. The financial plan shall contain system-level estimates of the costs and the revenue sources reasonably expected to be available to adequately operate and maintain the federal aid highways and public transportation. The MPO shall review the forecast and add any local or private funding sources reasonably expected to be available during the planning horizon. Recommendations on any alternative financing strategies to fund the projects and programs in the transportation plan shall be identified and included in the plan. In the case of new funding sources, strategies for ensuring their availability shall be identified and documented. If a revenue source is subsequently found removed or substantially reduced (i.e., by legislative or administrative actions) the MPO will not act on a full update or amended CLRP and/or TIP that does not reflect the changed revenue situation.

Annual Obligation Report

Within 90 days after the close of the federal fiscal year the State and the Public Transportation Provider(s) shall provide the MPO with information for an Annual Obligation Report (AOR). This report shall contain a listing of projects for which federal highway and/or transit funds were obligated in the preceding program year. It shall include all federally funded projects authorized or revised to increase obligations in the preceding program year, and at a minimum include TIP project description and implementing agency information and identify, for each project, the amount of Federal funds requested in the TIP, the Federal funding that was obligated during the preceding year, and the Federal funding remaining and available for subsequent years. The MPO shall publish the AOR in accordance with the MPO's public participation plan criteria for the TIP.

Article 7
Performance-Based Metropolitan Planning Process Responsibilities

The MPO

The MPO, in cooperation with the State and Public Transportation Provider(s), shall establish and use a performance-based approach in carrying out the region's metropolitan transportation planning process consistent with 23 CFR 450.306, and 23 CFR 490. The MPO shall integrate into the metropolitan transportation planning process, directly or by reference, the goals, objectives, performance measures, and targets described in applicable transportation plans and transportation processes, as well as any plans developed under 49 U.S.C. Chapter 53 by providers of public transportation required as part of a performance-based program. The MPO shall properly plan, administratively account for and document the MPO's performance based planning activities in the MPO UPWP.

The MPO shall develop, establish and update the federally required transportation performance targets that apply for the MPO metropolitan planning area in coordination with the State(s) and the Public Transportation Provider(s) to the maximum extent practicable. The Policy Board shall adopt federal targets of the MPO after reasonable opportunity for and consideration of public review and comment, and not later than 180 days after the date on which the relevant State(s) and Public Transportation Provider(s) establish or update the Statewide and Public Transportation Provider(s) performance targets, respectively. No later than 21 days of the MPO deadline for the selection of new or updated targets, for each federally required performance measure, the MPO shall formally notify the state(s) and Public Transit Provider(s) of whether the MPO: 1) has selected "to contribute toward the accomplishment" of the statewide target selected by the state, or 2) has identified and committed to meet a specific quantitative target selected by the Public Transportation Provider(s) or the MPO for use in the MPO's planning area of Virginia.

In the event that a Virginia MPO chooses to establish a MPO-specific federal highway or transit performance measure quantitative target, then the Virginia MPO shall be responsible for its own performance baseline and outcome analyses, and for the development and submittal of special report(s) to the State for the MPO-specific highway and/or transit performance measure(s). Reports from the Virginia MPOs that choose their own MPO-specific highway or transit target(s) will be due to the State no later than 21 days from the date that the MPO is federally required to establish its performance target for an upcoming performance period. The special report(s) for each new or updated MPO-specific highway target shall be sent from the Virginia MPO to the VDOT Construction District Engineer. The special report(s) for each new or updated MPO-specific transit target shall be sent from the Virginia MPO to the Department of Rail and Public Transportation. The special report(s) shall include summary documentation on the performance analyses calculation methods, baseline conditions, quantitative target(s), and applicable outcome(s) regarding the latest performance period for the MPO-specific performance measure(s). For the Virginia MPOs which agree to plan and program projects "to contribute toward the accomplishment" of each of the statewide performance measure targets, the State will conduct the performance analyses for the MPO's metropolitan planning area in Virginia and provide online summaries for each measure such that no special report to the State will be due from these MPOs.

If a Virginia MPO chooses to contribute to achieving the statewide performance target, the MPO shall, at minimum, refer to the latest performance measure analyses and summary information provided by the State, including information that was compiled and provided by the State on the metropolitan planning area's performance to inform the development of appropriate performance targets. The MPO may use State performance measures information and targets to update the required performance status reports and discussions associated with each MPO CLRP and/or TIP update or non-administrative modification. The MPO's

transportation performance targets, recent performance history and status will be identified and considered by the MPO's Policy Board in the development of the MPO CLRP with its accompanying systems performance report required per 23 CFR 450.324, as well as in the development of the TIP with its accompanying description of the anticipated effect of the TIP toward achieving the performance targets, linking their TIP investment priorities to the performance targets as required per 23 CFR 450.326. The MPO CLRP and its accompanying systems performance report, and/or the MPO TIP and its accompanying description of the anticipated effect of the TIP, shall directly discuss or reference the latest State performance measure status information available and posted online by the State regarding the metropolitan planning area at the time of the MPO's Technical Committee recommendation of the draft MPO long range plan or draft TIP.

The State

Distinct from the roles of the metropolitan Public Transportation Provider(s) with federal performance measures on transit (transit is the subject of the next section), the State is the lead party responsible for continuous highway travel data measurement and collection. The State shall measure, collect highway data and provide highway field data for use in federal highway related performance measure analyses to inform the development of appropriate federal performance targets and performance status reports. MPO information from MPO-specific data analyses and reports might not be incorporated, referenced or featured in computations in the Virginia statewide performance data analyses or reports. The State shall provide highway analyses for recommending targets and reporting on the latest performance history and status not only on a statewide basis but also on the Virginia portions of each of Virginia's MPO metropolitan planning areas, as applicable. The findings of the State's highway performance analyses will inform the development or update of statewide targets.

Information regarding proposed statewide targets for highway safety and non-safety federal performance measures will be presented to the Commonwealth Transportation Board (CTB) at the CTB's public meetings and related documents, including, but not limited to, presentations and resolutions, will be made publicly available on the CTB website. The MPO and Public Transportation Provider(s) shall ensure that they inform the State of any special data or factors that should be considered by the State in the recommendation and setting of the statewide performance targets.

All statewide highway safety targets and performance reports are annually due from the State to FHWA beginning August 31, 2017 and each year thereafter. The MPO shall report their adopted annual safety performance targets to the State for the next calendar year within 180 days from August 31st each year. The statewide highway non-safety performance two and/or four year targets are due for establishment from the State initially no later than May 20, 2018 for use with the state biennial baseline report that is due by October 1, 2018. The subsequent state biennial report, a mid-period report for reviews and possible target

adjustments, is due by October 1, 2020. Thereafter, State biennial updates are cyclically due by October 1st of even numbered years with a baseline report to be followed in two years by a mid-period report. Using information cooperatively compiled from the MPOs, the State and the Public Transportation Providers, the State shall make publicly available the latest statewide and (each) MPO metropolitan planning area's federally required performance measure targets, and corresponding performance history and status.

The Public Transportation Provider(s)

For the metropolitan areas, Public Transportation Providers are the lead parties responsible for continuous public transit data measurement and collection, establishing and annually updating federal performance measure targets for the metropolitan transit asset management and public transportation agency safety measures under 49 U.S.C. 5326(c) and 49 U.S.C. 5329(d), respectively, as well as for updates that report on the public transit performance history and status. The selection of the performance targets that address performance measures described in 49 U.S.C. 5326(c) and 49 U.S.C. 5329(d) shall be coordinated, to the maximum extent practicable, between the MPO, the State and Public Transportation Provider(s) to ensure consistency with the performance targets that Public Transportation Providers establish under 49 U.S.C. 5326(c) and 49 U.S.C. 5329(d). Information from the Public Transportation Provider(s) on new or updated public transit asset management and safety performance targets, and data-reports on the public transit performance history and status relative to the targets is necessary for use and reference by the affected State(s) and the MPO(s). The Public Transportation Provider(s) that receive federal funds shall annually update and submit their transit asset management targets and data-reports to the FTA's National Transit Database consistent with FTA's deadlines based upon the applicable Public Transportation Provider's fiscal year. The Public Transportation Provider(s) shall notify, and share their information on their targets and data-reports electronically with the affected State(s) and MPO(s) at the time that they share the annual information with FTA, and coordinate, as appropriate, to adequately inform and enable the MPO(s) to establish and/or update metropolitan planning area transit target(s) no later than 180 days thereafter, as required by performance-based planning process.

IN WITNESS WHEREOF, the parties have executed this agreement on the day and year first written above.

Chair
Charlottesville-Albemarle
Metropolitan Planning Organization

WITNESS BY _____
DATE 7/25/18

_____

Secretary of Transportation
Commonwealth of Virginia

WITNESS BY _____
DATE _____

_____

City Manager
City of Charlottesville for
Charlottesville Area Transit

WITNESS BY _____
DATE 1/2/2019

_____

Executive Director
Jaunt, Inc.

WITNESS BY _____
DATE 12/10/2018

_____

Executive Director
Thomas Jefferson
Planning District Commission

WITNESS BY _____
DATE 8-3-18

County Executive
Albemarle County

WITNESS BY Cheryl Skeen
DATE 12/17/2018

ATTACHMENT – B
Charlottesville/Albemarle Urbanized Area
FY-2025 Unified Planning Work Program
VDOT Input

State Planning and Research (SPR) Funds Available $ 450,000

Task 1.0 Administration of the Continuing Urban Transportation Planning Process (3-C) with the

Charlottesville-Albemarle MPO

Budgeted **$40,500**

- Preparation for and attend:
  - MPO Policy Board Committee Meeting;
  - MPO Technical Committee as the VDOT Representative;
  - MPO Citizen Transportation Advisory Committee (CTAC), and
  - Various other local and jurisdictional committee meetings as necessary.
- Preparation of PL funding agreements and addenda.
- Review and process billing invoices and progress reports.
- Process adjustments and amendments to the FY 2024-2027 TIP.
- Review Performance Measure and assist with target setting.
- Review road plans for conformance with current transportation plan.
- Conduct Federal-Aid/Functional Classification System reviews.
- Coordinate multi-modal activities and maintain/update inventory datasets.
- Assist with the updates of the Public Participation Plan, Title VI/Environmental Justice Plan, and other regional plans as needed.
- Monitor regional travel.
- Assist with studies and project development/review.
- Review local and regional transportation planning activities and attend public hearings.

Task 2.0 Long-Range Transportation Planning with the

Charlottesville-Albemarle MPO

Budgeted **$121,500**

- Respond to inquiries concerning the Year 2050 Long-Range Transportation Plan.
- Assist the MPO with the updates of the Year 2050 Long-Range Transportation Plan.
- Assist the MPO with model scenario development, review and runs to forecast traffic demand and develop multi-modal transportation needs for long-range plans and corridor studies.
- Evaluate and review comments and respond to concerns relative to transportation planning process.
- Evaluate and review comments and respond to concerns relative to corridors, pedestrian, multi-modal, and access management studies.
- Evaluate planning study efforts as they relate to the NEPA process.

Task 3.0 Short-Range Transportation Planning with the

Charlottesville-Albemarle MPO

Budgeted **$40,500**

- Evaluate existing transportation system and identify deficiencies
- Recommend improvements to alleviate unacceptable conditions
- Coordinate recommended improvements with other plans and studies
- Coordinate planning activities with the private sector to identify mobility and commuter access issues such as additional commuter parking lots, etc.
- Review and comment on traffic impact studies, Rezoning's and Comprehensive Plan updates and changes
- Review environmental impact reports for impacts to existing and future transportation facilities
- Provide advice and support on freight issues and information compilation.

Task 4.0 Non-Urbanized/Rural Transportation Planning Program

Budgeted $247,500

- Assist in the administration of the Rural Transportation Programs for the Thomas Jefferson Planning District Commission and the Rappahannock-Rapidan Regional Commission.
- Preparation for and attendance at Rural Technical Committee and various other local and jurisdictional committee meetings as necessary
- Review and process billing invoices and progress reports
- Coordinate multi-modal activities and maintain necessary transportation inventory datasets
- Monitor regional travel
- Assist with the updates to the STIP to FY 2024-2027.
- Assist with studies and project development/review.
- Review local and regional transportation planning activities and attend public hearings for compliance with Chapter 729
- Assist the PDCs with the update of the Rural Long-Range Plan and small area plans
- Evaluate and review comments and respond to concerns relative to transportation planning process
- Evaluate and review comments and respond to concerns relative to corridor, pedestrian, multi-modal, and access management studies
- Evaluate planning study efforts as they relate to the NEPA process.
- Evaluate existing transportation system and identify deficiencies
- Recommend improvements to alleviate unacceptable conditions
- Coordinate recommended improvements with other plans and studies
- Coordinate planning activities with the private sector to identify mobility and commuter access issues such as additional commuter parking lots, etc.
- Review and comment on traffic impact studies

- Review environmental impact reports for impacts to existing and future transportation facilities

Provide advice and support on freight issues and information compilation. VDOT's Transportation and Mobility Planning Division (TMPD), located in the Central Office, will provide statewide oversight, guidance and support for the federally mandated Metropolitan Transportation Planning & Programming Process. TMPD will provide technical assistance to VDOT District Planning Managers, local jurisdictions, regional agencies and various divisions within VDOT, in the development of transportation planning documents for the MPO areas. TMPD will participate in special studies as requested.

Attachment C: PL-FHWA/VDOT Section 5303 and FTA/DRPT Funding Breakdown

FY25			
	FHWA/VDOT - PL	**FTA/DRPT**	**Total**
Task 1: Administration	**$ 62,500**	**$ 21,500**	**$ 84,000**
Reporting and Compliance with Regulations	$ 14,000	$ 8,000	$ 22,000
Staffing Committees	$ 24,000	$ 8,000	$ 32,000
Information Sharing	$ 24,500	$ 5,500	$ 30,000
Task 2: Long Range Transportation Planning	**$ 192,029**	**$ 73,000**	**$ 265,029**
Comprehensive Safety Action Plan	$ 50,000		$ 50,000
Travel Demand Management Study	$ 60,000	$ 15,000	$ 75,000
Regional Transit Authority		$ 55,000	$ 55,000
Travel Demand Model Update	$ 10,000		$ 10,000
Pedestrian Navigation of Innovative Intersections	$ 20,000		$ 20,000
On-call Services/Contingency	$ 52,029	$ 3,000	$ 55,029
Task 3: Short Range Transportation Planning	**$ 68,000**	**$ 42,351**	**$ 110,351**
TIP Maintenance	$ 5,000	$ 2,000	$ 7,000
SMART SCALE & Grant Support	$ 35,500	$ 10,400	$ 45,900
RTP, TDM, and Bike/Ped Support	$ 8,500	$ 8,500	$ 17,000
Performance Targets	$ 2,000	$ 1,000	$ 3,000
Regional Transit & Rail Planning	$ -	$ 12,276	$ 12,276
CTAC/Public Outreach/Title VI	$ 17,000	$ 8,175	$ 25,175
TOTAL	**$ 322,529**	**$ 136,851**	**$ 459,380**

Charlottesville-Albemarle Metropolitan Planning Organization
POB 1505, 401 E. Water Street, Charlottesville, VA 22902 www.tjpdc.org
(434) 979-7310 phone ● info@tjpdc.org email

Resolution of Approval
for the Charlottesville-Albemarle Metropolitan Planning Organization's (CA-MPO)
Fiscal Year 2025 Unified Planning Work Program (UPWP)

WHEREAS, The Unified Planning Work Program (UPWP) provides a mechanism for coordinating transportation planning activities in the region, and is required as a basis and condition for all federal funding assistance for transportation planning by the joint metropolitan planning regulations of the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA); and

WHEREAS, the Charlottesville-Albemarle Metropolitan Planning Organization (CA-MPO) provides a forum for conducting a continuing, comprehensive, and coordinated (3-C) transportation decision-making process among the City of Charlottesville, County of Albemarle, University of Virginia, Jaunt, Charlottesville Area Transit, Department of Rail and Public Transportation, and Virginia Department of Transportation officials; and

WHEREAS, the UPWP identifies all activities to be undertaken in the CA-MPO area for fiscal year 2025; and

WHEREAS, the MPO Technical Committee reviewed the draft UPWP at their regular meetings, on March 19 and April 16, 2024; and

WHEREAS, the Citizen Transportation Advisory Committee (CTAC) reviewed the draft UPWP at their regular meetings, on March 20 and April 17, 2024; and

WHEREAS, the MPO Policy Board reviewed the draft UPWP at their regular meetings, on February 20 and March 26, 2024, and April 24, 2024; and

WHEREAS, staff from the Virginia Department of Transportation (VDOT) and Department of Rail and Public Transportation (DRPT) reviewed the draft UPWP; and

WHEREAS, the draft UPWP was posted on the CA-MPO website and the public was provided with an opportunity to comment on the plan consistent with the Public Engagement Plan adopted on July 28, 2021.

NOW, THEREFORE BE IT RESOLVED that the Charlottesville-Albemarle Metropolitan Planning Organization (MPO) approves the Fiscal Year 2025 Unified Planning Work Program and associated budget.

Adopted this 24th day of April 2024 by the Charlottesville-Albemarle Metropolitan Planning Organization.

ATTESTED:

Ned Gallaway
Chair, Charlottesville-Albemarle MPO

Christine Jacobs
Executive Director, TJPDC, CA-MPO

MEMO

TO: Charlottesville-Albemarle MPO Technical Committee and Citizen Transportation Advisory Committee (CTAC)
FROM: Will Cockrell, EPR, P.C.
Alan Simpson, EPR, P.C.
DATE: April 10, 2024

RE: The MPO Technical Committee and CTAC's Review of the Moving Toward 2050 Draft

PURPOSE: At its April meetings, the MPO Technical Committee and CTAC will begin reviewing an unformatted draft of the region's Long Range Transportation Plan – **Moving Toward 2050**. TJPDC staff will forward this initial draft with the meeting packet, and the Committees will provide staff with questions and comments.

BACKGROUND: In the fall of 2022, TJPDC staff initiated a required five-year update to the MPO's 2045 Long-Range Transportation Plan (LRTP), last adopted in 2019. The latest version, "Moving Toward 2050," is due for renewal in May 2024 and includes numerous updates to planning approaches and project lists. Over the past 18 months, the MPO Technical Committee and CTAC have been central in reviewing the planning methodology and providing feedback to planning staff.

ISSUES: In 2022, the TJPDC contracted with EPR to consult on the planning process and assist with various tasks, such as managing a robust engagement effort, advising on federal requirements, and prioritizing transportation needs. However, staff turnover changed EPR's role in February and March of this year. Recently, the consultant team stepped in to write and format the plan as staff prepared for the required May adoption.

Attached is an unformatted draft of Moving Toward 2050, which reflects materials the MPO Technical Committee and CTAC reviewed over the past 18 months. None of the content in this draft should be new to those involved in the process. However, this is the first document that comprehensively records the planning methodology, engagement, and results. EPR has not yet formatted the draft, as the MPO's staff and committees may recommend additional changes. There is a branded format including updated maps and graphics, that the MPO Tech Committee will see before their May meeting. Additionally, consultants are still wordsmithing chapters, updating text, and finetuning the narrative.

ACTIONS NEEDED: The MPO Technical Committee and CTAC are familiar with the plan's content, given their role during the last 18 months. Committee members should review the attached document and forward questions or comments to TJPDC staff by **April 26**. In the meantime, EPR will continue to polish the document. Public Comment will be advertised from April 22nd to May 22nd. The Technical Committee will receive a final, formatted draft in its meeting packet a week before the May 21 meeting. At that time, the group must forward a recommendation to the MPO Policy Board, which must consider the final document for adoption on May 22. As stated earlier, the MPO may decide to revise the plan at any time. While the Policy Board must adopt the plan in May, there are future opportunities to tweak the document if a need should arise.

Technical Committee and CTAC members can send questions or comments to TJPDC staff, who will forward those items to EPR and direct efforts on further revisions.

Moving Toward 2050

Charlottesville/Albemarle MPO
Long-Range Transportation Plan

DRAFT April 10, 2024

Preface

Disclaimer

This report has been prepared in cooperation with and financed partly by the U.S. Department of Transportation - Federal Highway Administration, the Federal Transit Administration, the Virginia Department of Transportation, and the Virginia Department of Rail and Public Transportation. The contents of this report reflect the views of the Thomas Jefferson Planning District Commission (TJPDC) and Charlottesville- Albemarle Metropolitan Planning Organization (MPO), which are responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the Federal Highway Administration, Federal Transit Administration, the Virginia Department of Transportation, or the Virginia Department of Rail and Public Transportation. This report is not a legal document and does not constitute a standard, specification, or regulation. Although much care was taken to ensure the accuracy of the information presented in this document, TJPDC does not guarantee its accuracy.

Acceptance of this report as evidence of fulfillment of the objectives of this planning study does not constitute endorsement/approval of the need for any recommended improvement, nor does it constitute approval of their location and design or a commitment to fund any such improvements. Additional project-level environmental impact assessments and/or studies of alternatives may be necessary.

Nondiscrimination

The TJPDC fully complies with Title VI of the Civil Rights Act of 1964 and related statutes and regulations in all programs and activities. For more information or to obtain a Title VI Complaint Form, see https://tjpdc.org/title-vi/ or call (434) 979-7310. Communication material in alternative formats can be arranged, given sufficient notice.

Additional copies of this document may be obtained by contacting the TJPDC at:

401 East Water Street

P.O. Box 1505

Charlottesville, VA 22902-1505

(434) 979-7310

info@tjpdc.org

www.campo.tjpdc.org

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Acknowledgments

Developing this transportation plan involved cooperation from local government, the public, and technical staff. MPO staff expresses gratitude to those who have assisted with the plan's development and ultimate adoption.

MPO Staff

- Christine Jacobs, TJPDC/CA-MPO
- Lucinda Shannon, TJPDC/CA-MPO
- Sara Pennington, TJPDC/CA-MPO
- Ruth Emerick, TJPDC

MPO Policy Board

- Ned Gallaway, Albemarle County Board of Supervisors (Chair)
- Brian Pinkston, Charlottesville City Council (Vice Chair)

Voting Members

- Ann Mallek, Albemarle County BOS
- Natalie Oschrin, Charlottesville City Council
- Sean Nelson, VDOT Culpeper District
- Stacy Londrey, VDOT Culpeper District (alternate)

Non-Voting Members

- Christine Jacobs, TJPDC
- Lee Kondor, CTAC
- Daniel Koenig, FTA
- Steven Minor, FHWA
- Julia Monteith, UVA Office of the Architect
- Charles Proctor, VDOT – Culpeper District
- Mike Murphy, Jaunt
- Daniel Wagner, DRPT
- Garland Williams, CAT Transit Director

MPO Technical Committee

- Rory Stolzenberg, City of Charlottesville Planning Commission (Chair)
- Alberic Karina Plun, Albemarle County

Voting Members

- Jessica Hersh-Ballering, Albemarle County
- Michael Barnes, VDOT
- Luis Carrazana, Albemarle County Planning Commission
- Benjamin Chambers, City of Charlottesville
- James Freas, City of Charlottesville
- Christine Jacobs, TJPDC

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- Bill Palmer, UVA Office of the Architect
- Sara Pennington, Rideshare
- Daniel Wagner, DRPT

Citizens Transportation Advisory Committee (CTAC)

- Lee Kondor, Albemarle County (Chair)
- Donna Chen, MPO (Vice Chair)

Voting Members

- Donna Chen, MPO
- Stuart Gardner, MPO
- Jose Gomez, Albemarle County
- Karim Habbab, Charlottesville
- Patrick Healy, Charlottesville
- Ethan Heil, Charlottesville
- Lee Kondor, Albemarle County
- Sarah Medley, Charlottesville
- Marty Meth, Albemarle County
- Nathan Moore, Albemarle County
- Chapman Munn, MPO
- Peter Thompson, Albemarle County
- Greg Weaver, Charlottesville

Special Thanks

- Sandy Shackelford, former Director of Planning and Transportation, TJPDC
- Curtis Scarpignato, former Regional Planner, TJPDC

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List of Acronyms

AADT	Average Annual Daily Traffic
AASHTO	American Association of State Highway and Transportation Officials
ACS	American Community Survey
ADA	Americans with Disabilities Act
BMP	Best Management Practice
BRT	Bus Rapid Transit
CAT	Charlottesville Area Transit
CLRP	Constrained Long-Range Plan
CMAQ	Congestion Mitigation and Air Quality
CSR	Center for Survey Research
CTAC	Citizens Transportation Advisory Committee
CTF	Commonwealth Transportation Fund
DDI	Diverging Diamond Interchange
DEQ	Department of Environmental Quality, Virginia
DMV	Department of Motor Vehicles
E+C	Existing and Committed
EJ	Environmental Justice
EPA	Environmental Protection Agency
FEMA	Federal Emergency Management Agency
FHWA	Federal Highway Administration
FTA	Federal Transit Administration
FY	Fiscal Year (refers to the state fiscal year July 1 - June 30)
GA	General Aviation
GSI	Grade Separated Interchange
HSIP	Highway Safety Improvement Program
HUD	Housing and Urban Development, U.S. Department of
ISTEA	Intermodal Surface Transportation Efficiency Act

LAB	League of American Bicyclists
LOS	Level of Service
LRTP	Long-Range Transportation Plan, also referred to as Moving Toward 2050
LRT	Light Rail Transit
MAP-21	Moving Ahead for Progress in the 21st Century
MOVES	Motor Vehicle Emission Simulator

MPO	Metropolitan Planning Organization
NGIC	National Ground Intelligence Center
NHPP	National Highway Performance Program
NHS	National Highway System
OTAQ	Office of Transportation and Air Quality
PDC	Planning District Commission
PE	Preliminary Engineering
REF	Regional Ecological Framework
RTA	Regional Transit Authority
SAFETEA-LU	Safe, Accountable, Flexible, Efficient, Transportation Equity Act
SHRP2	Second Strategic Highway Research Program
SHSP	State Strategic Highway Safety Plan
SPR	State Planning and Research Funding (used by VDOT to support MPO)
STP	Surface Transportation Program
SYIP	Six-Year Improvement Program
TA	Transportation Alternatives
TCAPP	Transportation for Communities - Advancing Projects through Partnerships
TDM	Travel Demand Management
TDP	Transit Development Plan (for CAT and Jaunt)
TEA-21	Transportation Efficiency Act for the 21st Century

TIP	Transportation Improvement Program
TJPDC	Thomas Jefferson Planning District Commission
TMPD	VDOT Transportation and Mobility Planning Division
TRB	Transportation Research Board
UPWP	Unified Planning and Work Program (also referred to as Work Program)
UnJAM	United Jefferson Area Mobility Plan
UTS	University Transit Service
UVA	University of Virginia
SOV	Single Occupant Vehicle
V-C	Volume-to-Capacity Ratio
VCTIR	Virginia Center for Transportation Innovation and Research
VDOT	Virginia Department of Transportation
VDRPT	Virginia Department of Rail and Public Transportation
VMT	Vehicle Miles Traveled

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Executive Summary

The Charlottesville-Albemarle Metropolitan Planning Organization (CA-MPO) is a regional planning commission house within central Virginia's Thomas Jefferson Planning District Commission (TJPDC). Composed of the City of Charlottesville and a portion of Albemarle County, the CA-MPO is the forum for continuing, cooperative, and comprehensive transportation planning and decision-making among Charlottesville, Albemarle, state, and federal officials. The MPO collaborates with various agencies, facilitates public input, and conducts research and analysis to develop forward-thinking solutions for the region's transportation system.

One of the recurrent responsibilities of the CA-MPO is the creation of a Long-Range Transportation Plan (LRTP). This federally-mandated plan outlines the region's priority transportation improvements over the coming decades. The Long-Range Transportation Plan is a fundamental document for our community. It states our region's collective vision for the future of our transportation system, and it identifies projects that we anticipate our region will implement in the foreseeable future. The LRTP considers all modes of transportation, including private vehicles, public transit, bicycles, pedestrians, and air, and covers other transportation issues such as bridge maintenance and safety improvements. The Charlottesville-Albemarle MPO's LRTP must be updated every five years per federal mandate. The preceding version, approved by the MPO Policy Board in May 2019, was named the 2045 Long-Range Transportation Plan (2045 LRTP). The updated plan presented in this document has been named Moving Toward 2050.

With the development of Moving Toward 2050, the Charlottesville-Albemarle MPO continues and enhances a process for identifying and evaluating transportation projects that began with the 2045 LRTP. Public input was essential in all process aspects, especially in identifying transportation deficiencies and potential projects. The evaluation process leverages the interconnectedness of our transportation system. Rather than assessing the benefits of individual projects in an isolated manner, proposed projects were combined into scenarios, tested as a system, and compared with other project groupings through a method of performance measure analysis. A set of performance measures, created using federal resources, public comment, and committee input, produced quantitative values for project scenarios. With these tools, the MPO could determine how various transportation improvements accomplished the region's vision, goals, and objectives and select the most optimal project combination for achieving them.

Moving Toward 2050 describes the region's characteristics, transportation deficiencies, vision, goals, and objectives, as well as the analysis method's findings and conclusions. It is designed to improve the safety, efficiency, and interconnectedness of our facilities and services and strives to plan for and develop a continuing, cooperative, and comprehensive regional transportation system.

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Chapter 1: Introduction

Overview

Moving Toward 2050 is the federally-mandated Long-Range Transportation Plan (LRTP) for the Charlottesville-Albemarle Metropolitan Planning Organization (CA-MPO). It updates the 2045 Long-Range Transportation Plan approved by the CA-MPO Policy Board in May 2019. The plan considers projected growth rates throughout the study area through the year 2050 and uses existing and future projected system conditions to identify priority projects for the region.

This chapter describes the federal requirements fulfilled by the LRTP and the regional goals identified as part of the LRTP.

Purpose

Moving Toward 2050 is an essential document for improving the regional transportation system. The development of this plan is an opportunity for the region to determine its priorities for identifying the most critical transportation projects. While the plan provides a valuable framework to inform future planning initiatives based on the identified regional priorities, its ultimate purpose is to support the implementation of critical transportation improvements.

Moving Toward 2050 facilitates the implementation of these transportation improvements in the following ways:

1. To be eligible for federal funding, surface transportation projects must be identified in the MPO's adopted long-range transportation plan. This funding is critical for implementing necessary transportation solutions in the region.
2. Funding for transportation system improvements is limited. Therefore, the region must identify the highest priority projects that could be implemented based on the public and private resources that can be reasonably expected over the plan's lifetime. These projects are included on a "constrained list," referring to the consideration of the fiscal constraints that will limit the number of projects that could be implemented. The development of this plan allows the region to define what is important when considering transportation infrastructure investments.
3. Funding for transportation projects is based on competitive, performance-based application processes. To successfully implement projects that will improve the transportation system for our region, we need to identify not just the projects that will meet the highest priority needs, but also the projects that have the best overall opportunity to meet critical system needs compared to their costs. This plan facilitates a conversation about the best opportunities to leverage existing or potential funding sources to implement projects with the most value for the region.
4. Transportation planning is an ongoing process. The process of identifying transportation system projects for consideration occurs in two steps. The first step is to identify where existing system needs are. The second step is determining the most appropriate solutions to address that need. Not every need identified in Moving Toward 2050 will have an

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identified solution. Those needs will indicate where additional planning studies are necessary to develop solutions, establishing an ongoing pipeline for developing implementable projects.

Moving Toward 2050 Process

1. Establish goals and objectives for the regional transportation system.
    a. Goals were established by reviewing the goals in the 2045 Long-Range Plan, benchmarking against goals identified in other regions' plans, and getting feedback on draft goals and objectives through stakeholder discussion groups.
2. Assess system performance using data and public feedback.
    a. Public feedback was received through surveys, open houses, stakeholder meetings, and community outreach.
3. Identify areas of high-priority system needs.
    a. Staff identified the highest priority locations for system improvements based on safety, congestion, or lack of access.
4. Develop a comprehensive list of previously identified projects.
    a. These are the candidate projects considered when identifying the highest priority projects for implementation. Candidate projects that resolve high-priority system needs were evaluated and prioritized.
5. Prioritize projects based on:
    a. Ability to resolve high-priority system needs
    b. Project costs
    c. Additional public feedback
6. Identify gaps between high-priority needs and previously identified projects.

Moving Toward 2050 Engagement Efforts

Throughout 2023, MPO staff undertook a robust public engagement campaign to collect stakeholder and public comments to help shape the Goals and Needs Identification phase of the Moving Toward 2050 planning effort. The objectives of this engagement process were to:

- Set and prioritize goals;
- Identify travel needs; and
- Inform the travel need and project selection prioritization process

During this phase of the engagement process, MPO staff reached nearly 600 individuals, attended sixteen community events, and reviewed over 2,300 comments. Efforts included:

- Stakeholder Meetings (February 2023)
- Virtual Public Meeting (June 2023)
- Open House Event (June 2023)
- MetroQuest Community Survey (June 2023)
- Public Intercepts (July - August 2023)
- Community Advisory Committee (CAC) Meetings (July - August 2023)
- Cville Plans Together Survey (past effort)

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- Albemarle County 2044 Survey (past effort)
- Charlottesville Area Transit Vision Plan Survey (past effort)

Moving Toward 2050 Goals

At the beginning of the planning process, MPO staff established goals and objectives to identify regional transportation system priorities. Regionally identified goals were informed by national goals but based on regionally developed values.

Establishing goals and objectives for Moving Toward 2050 began with a review of goals identified in the 2045 Long-Range Transportation Plan and a benchmarking exercise reviewing goals identified by other MPOs in Virginia. Related local and regional planning documents were further examined to identify emerging local priorities. The final language for the goals was developed through an iterative process involving staff, the MPO committees, and identified stakeholder groups of organizations representing many community perspectives.

Framework

MPO staff began the process of establishing the plan's framework by considering the regional transportation system's goals and objectives. Goals are intended to be broad value statements, demonstrating the community's desired characteristics for its regional transportation system. Objectives are then developed that are more specific, identifying measurable outcomes that support the achievement of those stated goals. The final step was to establish metrics for evaluating the transportation system.

Lenses

As goals were being discussed, themes emerged that were important enough to be integrated throughout the evaluation of individual goals and objectives. These themes have been identified in the system evaluation framework as lenses, indicating that the entire process needs to start with these considerations first and foremost:

- Equity: While the importance of addressing equity in the planning processes is not new, it is an area of emphasis that has continued to grow since the adoption of the previous LRTP. In January 2019, Albemarle County passed the Resolution in Support of an Equitable and Inclusive Community, reinforcing a public commitment to enhance all its citizens' well-being and quality of life. Similarly, the City of Charlottesville formed an Advisory Committee on Organizational Equity in 2019. Planning, infrastructure, and neighborhood outreach & engagement were identified as focus areas for the City's racial equity and diversity & inclusion efforts.
- Quality of Life: Ultimately, the transportation system's purpose is to facilitate the movement of people and goods for their benefit. It connects people to the people, places, and things they need, love, and care about. Therefore, any evaluation of the transportation system needs to focus on improving the quality of life for those who rely on it as a primary consideration.
- Climate Action: Climate action has become an increasingly high priority for the Charlottesville-Albemarle region. Since the 2019 Long-Range Transportation Plan was

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completed, Albemarle County and the City of Charlottesville completed Climate Action Plans. Both plans independently identified a goal of reducing greenhouse gas (GHG) emissions by 45% from their identified base year by the year 2030 and achieving net zero emissions by 2050. Albemarle County used the base year of 2008 and determined that the transportation sector was responsible for 48% of the total GHG emissions within the county; the City of Charlottesville determined that the transportation sector was responsible for 39% of the GHG emissions in the city in 2019.

Goals

The plan's identified goals direct the process of evaluating the transportation system and developing infrastructure priorities. While the lenses indicate overarching community values that need to be considered, the goals address the transportation system directly. The goals define values necessary for the region to consider when determining how to improve the transportation system while incorporating and considering national goals, established performance targets, and state funding programs.

Objectives

The plan's objectives are specific and measurable, describing observable outcomes. They can determine whether the region is successfully achieving its established goals.

- Goal 1: Safety - Improve the safety of the transportation system for all users.
  - Objective 1: Reduce the frequency of serious injury and fatal crashes.
  - Objective 2: Improve comfort and safety for users of the multimodal system.

- Goal 2: Multi-Modal Accessibility - Improve access through greater availability of mode choices that are affordable and efficient.
  - Objective 1: Increase mode choice for all users.

- Goal 3: Land Use - Connect community destinations in a manner that aligns with growth management priorities.
  - Objective 1: Provide multimodal infrastructure in designated growth areas, mixed-use areas, and near community resources.
  - Objective 2: Fill connectivity gaps in the multimodal network.

- Goal 4: Environment - Reduce the negative environmental impacts of the transportation system.
  - Objective 1: Minimize impacts of the transportation system on the natural and built environment.
  - Objective 2: Integrate sustainable infrastructure practices into project design.

- Goal 5: Efficiency and Economic Development - Efficiently and reliably move people and goods through the multimodal transportation system.
  - Objective 1: Improve roadway and transit system efficiency through operational improvements.

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- Objective 2: Increase system capacity at identified bottlenecks.
- Objective 3: Maintain the existing system in a state of good repair.

While objectives are grouped under the primary goal they are meant to support, many objectives support more than one goal. Figure 1 illustrates the complex interconnection between lenses, goals, and objectives. In developing this framework, MPO staff intentionally worked to minimize redundancy in objectives, meaning that specific desired outcomes will not be reflected directly in the goals and objectives language. For example, emissions reduction is not listed as a goal. Still, full consideration is given to other objectives contributing to decreased emissions, such as improving the multimodal network and improving system efficiency/reducing congestion.

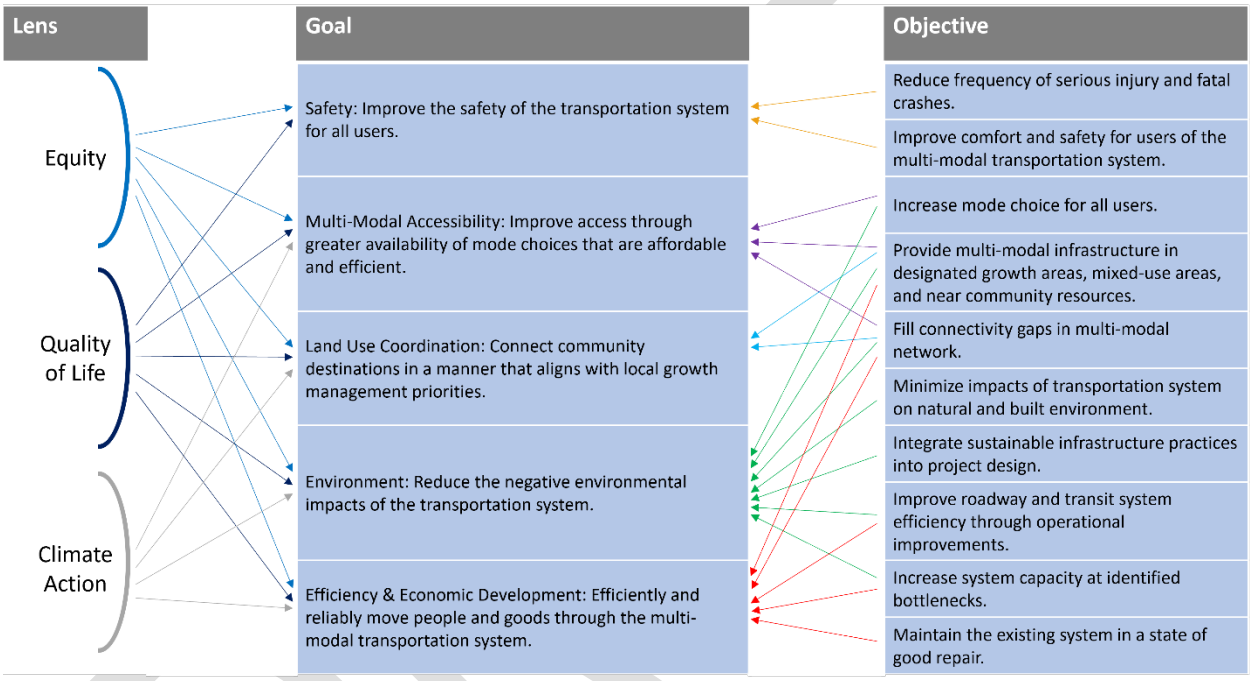


Figure 1: Relationship of Lenses, Goals, Objectives

Moving Toward 2050 Guiding Principles

The plan's Guiding Principles establish the framework used to develop the Goals and Objectives and, therefore, set the process to evaluate the transportation system as part of this plan. As early efforts were underway to assess transportation goals discussed in previous Long-Range Transportation Plans and other related studies and initiatives, it became clear there was a need to strengthen the importance of specific priorities – namely, the importance of considering equity, the environment, and multimodal system infrastructure.

Initially, these priorities were pulled out as individual goals and objectives. However, regular comments from the advisory committees, further confirmed through discussions with stakeholder discussion groups, revealed that the Goals and Objectives as initially presented did not adequately emphasize these factors. Therefore, Guiding Principles were added to establish the incorporation of these overarching themes in the approach being taken to evaluate system needs and prioritize projects.

Guiding Principle #1: Commitment to Equity

As mentioned in the previous section, Albemarle County and the City of Charlottesville have recently reinforced their commitments to equity and inclusion via resolutions and advisory committees. National priorities further bolster the identification of equity as an essential local priority. One of President Biden's early acts of his presidency was to sign Executive Order 14008, establishing the Justice40 Initiative. The initiative commits to direct 40 percent of new Federal program investments to disadvantaged communities. In late 2021, the Federal Transit Administration and Federal Highway Administration provided a notice of updated Planning Emphasis Areas identifying joint agency priorities emphasizing the vital role of MPOs in supporting these federal investment goals.

Guiding Principle #2: Commitment to the Environment

Climate Action Initiatives

As mentioned in the previous section, climate action has become an increasingly high priority for the Charlottesville-Albemarle region. Strategies developed to achieve these targets have included decreasing reliance on single occupancy vehicles through better land use planning, mode shift, and the deployment of readily available electric vehicle charging infrastructure. Charlottesville Area Transit (CAT) and Jaunt completed studies on adopting electric vehicles into their fleets in late 2022, and the Infrastructure Investment and Jobs Act (IIJA) dedicated funding to support the deployment of electric vehicle charging infrastructure. As part of this initiative, Virginia completed its statewide electric vehicle deployment plan in 2022 and identified the need for additional charging infrastructure in Charlottesville to support travel along I-64.

Resiliency

Regional initiatives have outlined the importance of considering the resiliency of planned transportation infrastructure as the potential impacts of climate change are better understood. Albemarle County completed a Climate Vulnerability and Risk Assessment in 2022 that identified the following effects that will impact the regional transportation system:

- Rising average temperatures will stress transportation infrastructure and the electrical grid, impacting traffic signals and roadway messaging.
- Anticipated changes in precipitation frequency will decrease, but the intensity will increase, supporting the likelihood that floodplains will continue to expand. Transportation infrastructure must be constructed to withstand additional flooding and maintain functionality under adverse weather conditions. There also needs to be consideration for minimizing the stormwater run-off that results from transportation infrastructure improvements and incorporating green infrastructure to the extent feasible.

Guiding Principle #3: Commitment to a Safe Multi-Modal System

The City of Charlottesville and Albemarle County prioritize a multimodal system approach in pursuing transportation projects. A well-connected, efficient multimodal system supports several identified goals, including reducing the transportation system's impact on the environment, improving access to jobs and opportunities for equity priority communities, and more efficiently

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managing the ever-increasing costs of maintaining and enhancing the surface transportation system. New federal guidance emphasizes the importance of considering the safety and comfort of all users using a “Complete Streets” approach.

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Chapter 2: Transportation Assessment

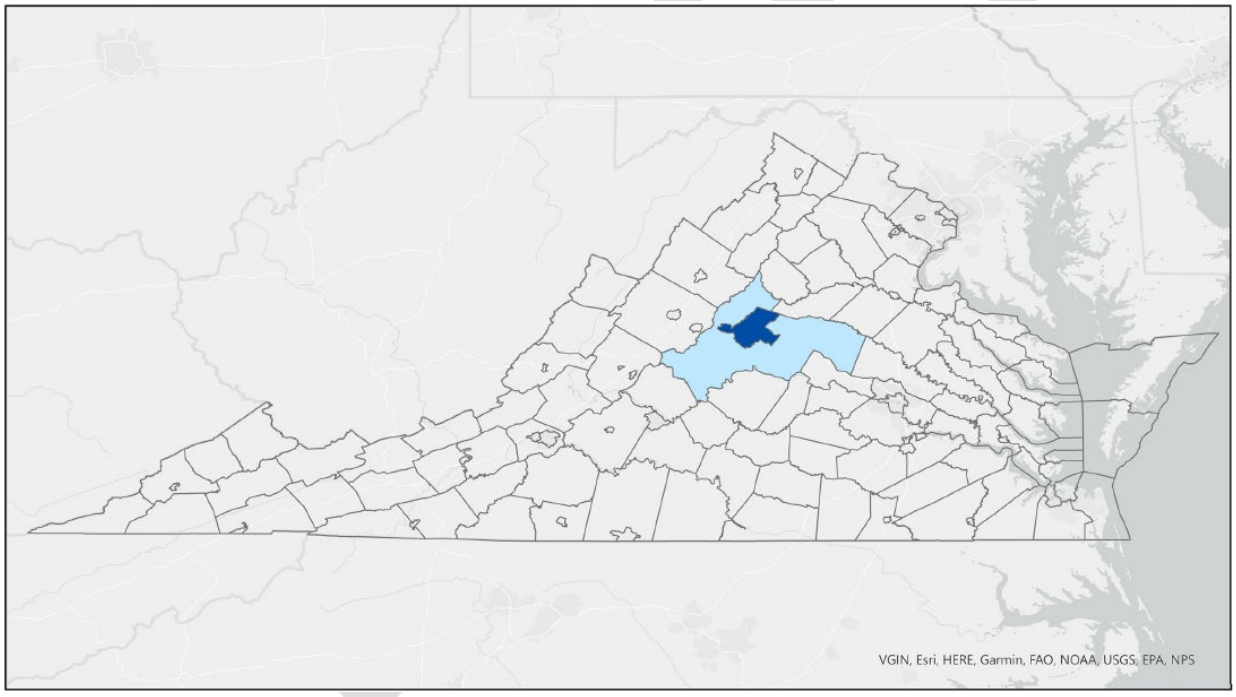
Overview

This section overviews the regional transportation network, focusing on roadways, bridges, freight, public transit, passenger rail, bicycle & pedestrian facilities, and travel demand management. The MPO's physical infrastructure and transportation programming influence how the existing transportation system is used and inform opportunities for future improvements.

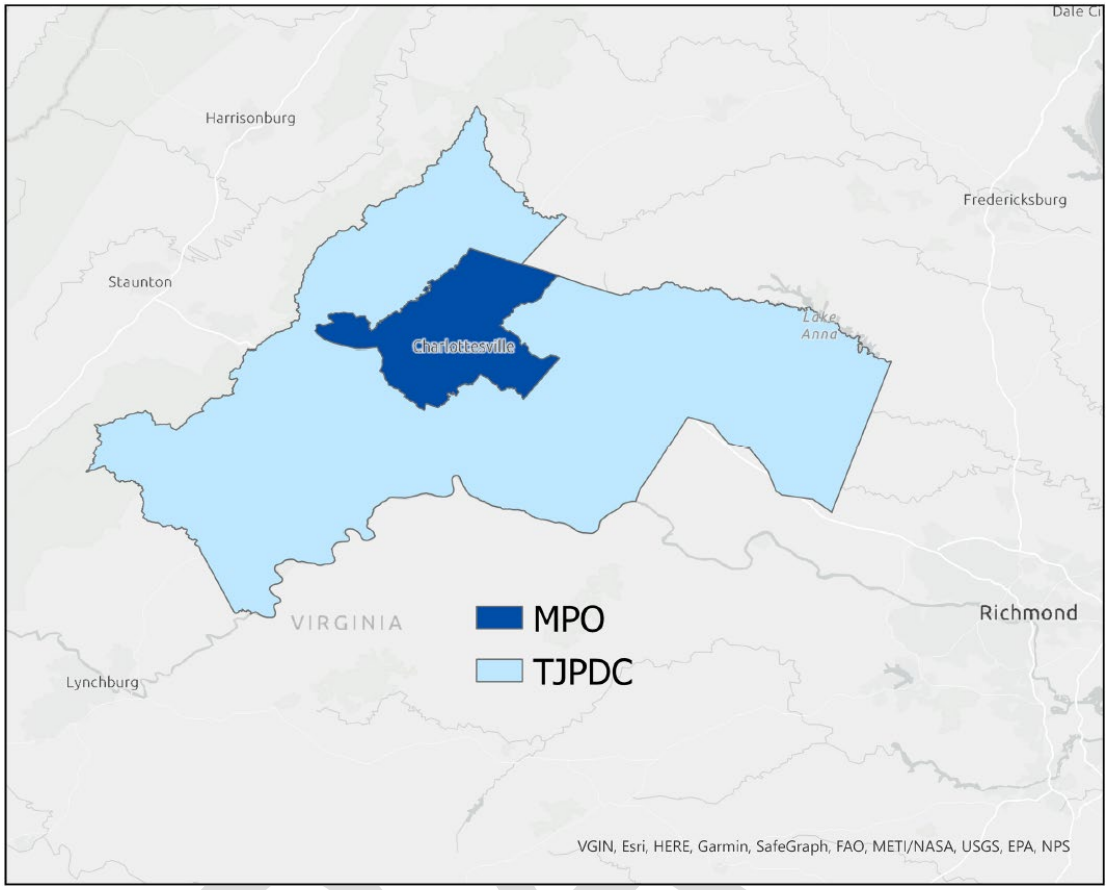
MPO Location

The MPO area (MPA) is in the scenic shadow of the Blue Ridge Mountains to the West. CA-MPO is in Central Virginia, with Richmond approximately 75 miles Southeast of Charlottesville and Washington D.C. approximately 100 miles to the Northeast. The University of Virginia calls this area home and serves as a primary employer in the region.

The maps below highlight the location of the TJPDC (light blue) and the CA-MPO (dark blue).



Map 1:TJPDC/MPO Location (state)



Map 2: TJPDC/MPO Location (region)

National Goals and Performance Measures

The Moving Ahead for Progress in the 21st Century Act (MAP-21) established a requirement for states and MPOs to participate in performance-based planning and programming processes. Performance-based planning and programming practices are intended to identify system performance goals and support transportation investment decisions based on meeting the established goals.

National Goals

Goal Area	National Goal
Safety	To achieve a significant reduction in traffic fatalities and serious injuries on all public roads.
Infrastructure Condition	To maintain the highway infrastructure asset system in a state of good repair.
Congestion Reduction	To achieve a significant reduction in congestion on the National Highway System.
System Reliability	To improve the efficiency of the surface transportation system.

Freight Movement and Economic Vitality	To improve the national freight network, strengthen the ability of rural communities to access national and international trade markets, and support regional economic development.
Environmental Sustainability	To enhance the performance of the transportation system while protecting and enhancing the natural environment.
Reduce Project Delivery Delays	To reduce project costs, promote jobs and the economy, and expedite the movement of people and goods by accelerating project completion through eliminating delays in the project development and delivery process, including reducing regulatory burdens and improving agencies' work practices.

Table 1: MAP-21 National Goals. Source: Federal Highway Administration

National Performance Measures

To measure progress in achieving these national goals, the following performance measures were established in 2017:

Highway Safety (crashes)

- Number and rate of fatalities (per 100 million Vehicle Miles Traveled)
- Number and rate of serious injuries (per 100 million Vehicle Miles Traveled)
- Number of non-motorized fatalities and serious injuries

Highway Infrastructure Condition

- Percent of pavement on the interstate system in good condition
- Percent of pavement on the interstate system in poor condition
- Percent of pavement on the non-interstate national highway system in good condition
- Percent of pavement on the non-interstate national highway system in poor condition
- Percent of national highway system bridges classified in good condition
- Percent of national highway system bridges classified in poor condition

Highway System Performance

- Percent of person miles traveled on the interstate system that is reliable
- Percent of person miles traveled on the non-interstate national highway system that are reliable (Vehicle Reliability Index)
- Percent of interstate system mileage providing for reliable truck travel times (Truck Travel Time Reliability Index)
- Annual hours of peak-hour excessive delay per capita (not applicable to the MPO)

Transit Asset Management

- Percent of revenue vehicles that have met or exceeded their useful life benchmark
- Percent of non-revenue vehicles that have met or exceeded their useful life benchmark

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- Percentage of track segments with performance restrictions
- Percentage of facilities rated in poor condition

Public Transportation Agency Safety

- Fatalities, total
- Fatalities per total vehicle revenue miles
- Injuries, total
- Injuries per total vehicle revenue miles
- Safety events, total
- Safety events per total vehicle revenue miles
- Distance between major failures
- Distance between minor failures

Performance Targets

States, MPOs, and public transportation providers are required to establish performance targets for each performance measure to support the achievement of the national goals. States will set their performance targets, and then MPOs set performance targets to support the achievement of the state's targets. With the establishment of performance targets, states, MPOs, and transit providers are committing to pursuing projects and activities that support the achievement of those targets.

Once the state has adopted its targets, MPOs can either adopt the state's targets or establish their own targets. Overall progress towards achieving the performance targets is evaluated at the state level, not the MPO level. There are no penalties if an MPO does not achieve its performance targets. MPOs must identify and report these performance targets to the state agencies at specified intervals.

Highway Safety (Crashes)

Virginia uses a data-driven predictive model to establish statewide safety targets. This model is based on developing a baseline for the safety data using a statistical analysis and then determining the expected safety benefits from implementing planned infrastructure improvement projects.

Virginia's 2022-2026 Strategic Highway Safety Plan, Arrive Alive, aimed to reduce fatalities and serious injuries by 50 percent over the next 25 years, equating to a two percent yearly reduction. The modeled predictions did not indicate that this annual target reduction would be met when the Commonwealth Transportation Board adopted its safety targets in 2022, so they adopted predicted safety targets while committing to pursue an aspirational safety target that meets the two percent annual reduction goal. State agencies were directed to identify actionable strategies to improve safety performance to support these aspirational goals.

Figure 2 and Figure 3 were provided by VDOT to aid in developing highway safety performance targets and show regionally specific trends. As the graphs show, the general trendline is pointing downward for the injury rate five-year average, but upward for the fatility five-year average. However, both graphs indicate a recent increase in fatalities and serious injuries. If this trend

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continues, projections will likely demonstrate an increasing number of fatalities and serious injuries.

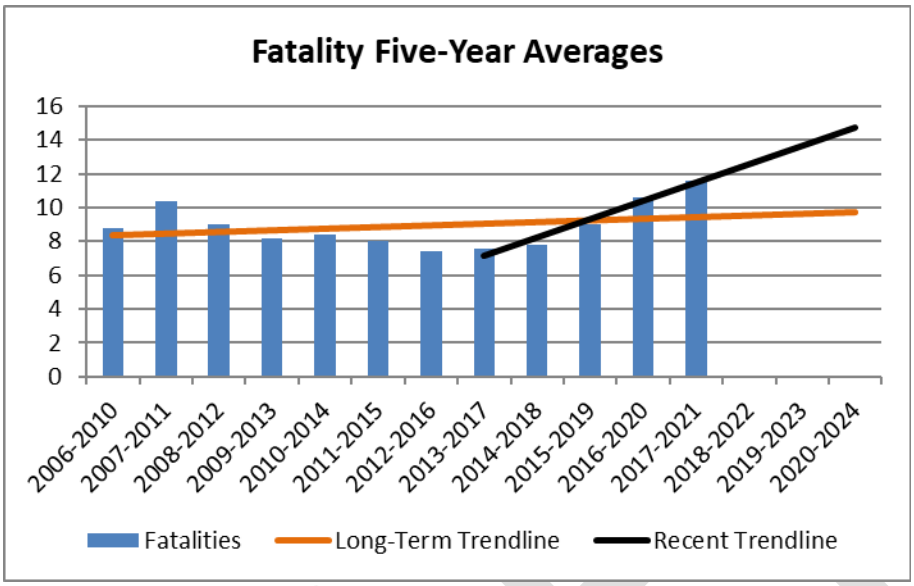


Figure 2: Fatality Five-Year Averages. Source: VDOT

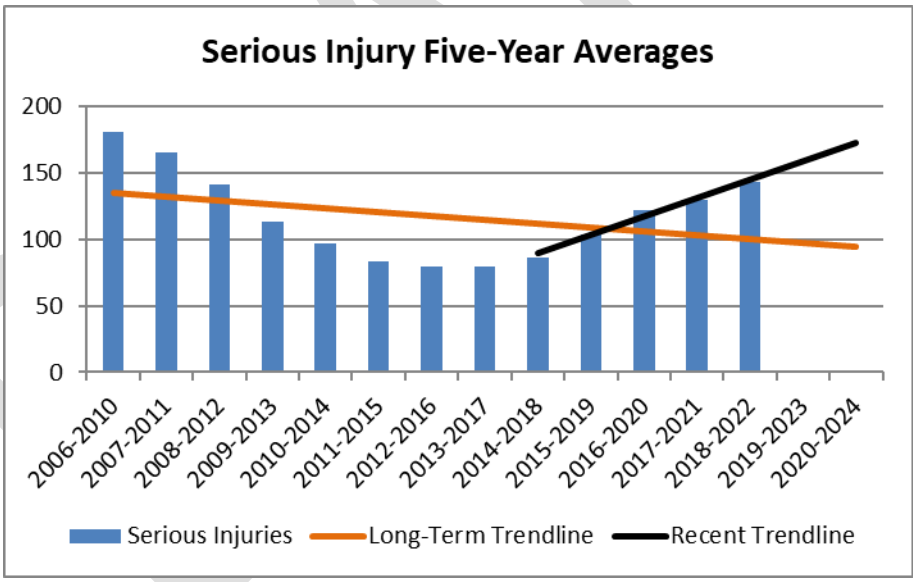


Figure 3: Serious Injury Five-Year Averages. Source: VDOT

The MPO's 2024 safety performance targets are based on goals established as part of the development of a multi-jurisdictional Comprehensive Safety Action Plan funded through a U.S. Department of Transportation Safe Streets and Roads for All Grant. Approval of more aspirational targets to reduce the number of fatalities and serious injuries by an average annual percentage change of 2% is consistent with the goals established in the statewide Strategic Highway Safety Plan. It supports reaching a 50% reduction in deaths and serious injuries by 2050.

CA-MPO 2024 Safety Performance Targets:

- Five-year average annual percentage change in fatalities: 2% reduction or more
- Number of fatalities: 11 or fewer
- Fatality rate per 100 million Vehicle Miles Traveled (VMT): 0.962 or lower
- Five-year average annual percentage change in serious injuries: 2% reduction or more
- Number of serious injuries: 137 or fewer
- Serious injury rate per 100 million Vehicle Miles Traveled (VMT): 12.106 or lower
- Five-year average annual percentage change in non-motorized fatalities and serious injuries: 2.00% reduction or more
- Number of non-motorized fatalities and serious injuries: 15 or fewer

Adopting these more aggressive safety goals reflects a commitment from the CA-MPO region to pursue projects and initiatives that will improve the safety of the regional transportation system.

Highway Infrastructure Condition

VDOT operates and maintains nearly 58,000 miles of road network throughout the state, the country's third highest state-maintained roadway systems. Highway infrastructure condition performance targets are based on pavement conditions on Interstate and National Highway System (NHS) facilities. In contrast, bridge conditions are based on bridges in the National Bridge Inventory (NBI) on the NHS, which are predominately part of a state-maintained system, as shown in Figure 4.

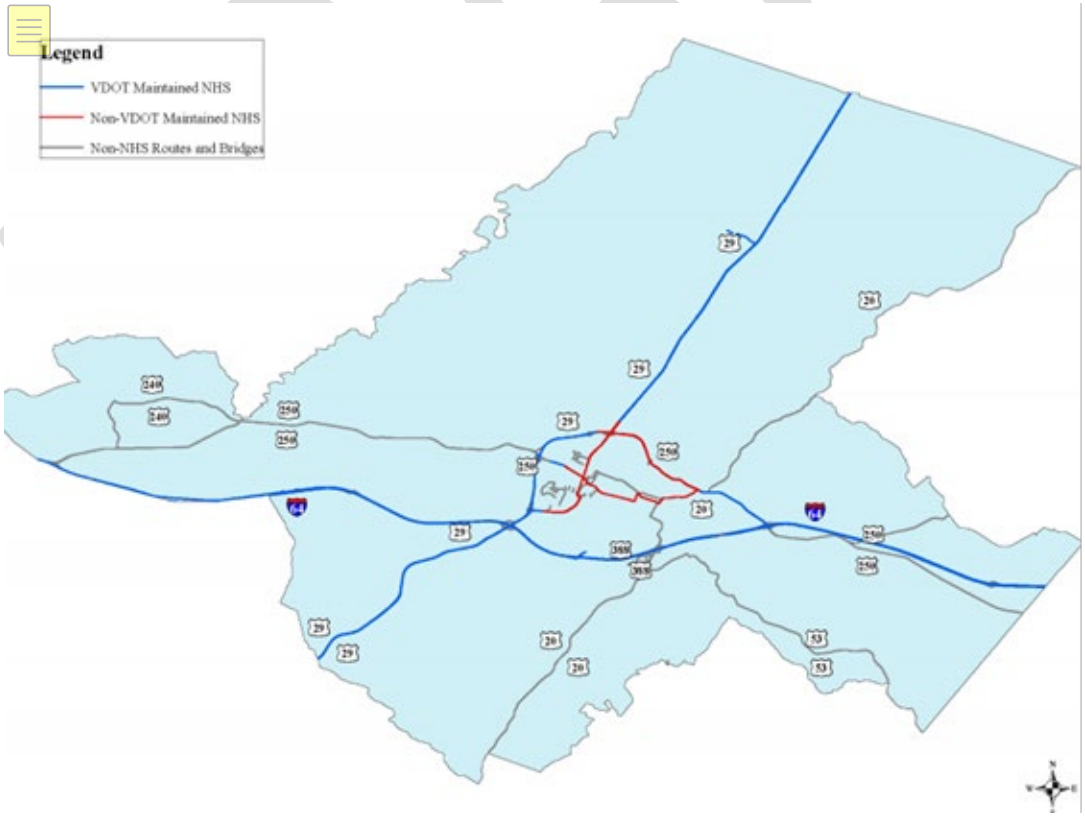


Figure 4: National Highway System (NHS) Maintenance. Source: VDOT

The state established performance targets for the condition of pavement and bridges in 2022, which the CA-MPO also adopted, as indicated in Table 2.

Highway Infrastructure Condition	CA-MPO 2017 Baseline	2018 Adopted Targets	CA-MPO 2021 Baseline	2023 Adopted Targets
Percentage of deck area of bridges in good condition (NBI on NHS)	12.8	23.0	10.8	25.1*
Percentage of deck area of bridges in poor condition (NBI on NHS)	12.1	2.0	7.8	3.6*
Percentage of pavement in good condition (Interstate)	Data Not Available	45*	73.5	45*
Percentage of pavement in poor condition (Interstate)	Data Not Available	3*	0	3*
Percentage of pavement in good condition (NHS)	Data Not Available	25*	28.7	25*
Percentage of pavement in poor condition (NHS)	Data Not Available	5*	0.1	5*
*CA-MPO adopted state-wide target.				

Table 2: Highway Infrastructure Performance Targets. Source: CA-MPO

When the CA-MPO adopted the first set of highway infrastructure conditions performance targets in 2018, regionally-specific data for pavement conditions was unavailable, so the MPO adopted the state's targets. Regionally-specific data was provided to CA-MPO by the Office of Intermodal Planning and Investment (OIPI) for consideration in adopting its targets in early 2023. The existing pavement conditions of the CA-MPO system already exceed the statewide performance targets.

Regarding the percentage of deck area of bridges in good condition, the actual condition for the CA-MPO region is below state-adopted targets. The data also shows that the percentage of deck area of bridges in good condition has actually decreased between 2017 and 2021. The percentage of deck area of bridges in poor condition is higher than the state-adopted goal. Still, the percentage of deck area of bridges in poor condition decreased between 2017 and 2021, demonstrating that the CA-MPO region is progressing in prioritizing improvements of the bridge infrastructure most in need of maintenance and repair.

Highway System Performance

Highway system performance is intended to assess how predictably the transportation system can move vehicles by measuring the variability in travel times between peak traffic conditions and free-flow traffic conditions. For example, a truck travel time reliability index value close to 1 indicates little variation in travel time between peak and free-flow conditions, meaning the system is very reliable.

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For all highway system performance measures, existing conditions for the CA-MPO region exceed state-identified system performance targets, as indicated in Table 3.

Highway System Performance	CA-MPO 2017 Baseline	2018 CA-MPO Targets	CA-MPO 2021 Baseline	2023 CA-MPO Targets
Percentage of person-miles traveled that are reliable (Interstate)	99	82*	100	85*
Percentage of person-miles traveled that are reliable (Non-Interstate NHS)	86.21	82.5*	90.7	88*
Truck travel time reliability index (Interstate)	1.13	1.56*	1.15	1.64*
*CA-MPO adopted state-wide target.				

Table 3: Highway System Performance Targets. Source: CA-MPO

Transit Asset Management

Transit agencies that receive federal financial assistance and own, operate, or manage capital assets used to provide public transportation are required to create a Transit Asset Management (TAM) plan. DRPT maintains a Tier II group plan for qualifying transit providers in Virginia. CAT and Jaunt participate in the state's Tier II group plan, and the CA-MPO adopted targets identified by DRPT as indicated in Table 4.

Asset Category - Performance Measure	Asset Class	FFY2022
Revenue Vehicles		
Age - % of revenue vehicles within a particular asset class that have met or exceeded their Useful Life Benchmark (ULB)	AB - Articulated Bus	5%
	BU - Bus	15%
	CU - Cutaway	10%
	MV-Minivan	20%
	BR - Over-the-Road Bus	15%
	VN - Van	20%
Equipment		
Age - % of vehicles that have met or exceeded their Useful Life Benchmark (ULB)	Non-Revenue/Service Automobile	30%
	Trucks and other Rubber Tire Vehicles	30%
Facilities		
Condition - % of facilities with a condition rating below 3.0 on the FTA TERM Scale	Administrative Facilities	10%
	Maintenance Facility	10%
	Passenger Facilities	15%
	Parking Facilities	10%

Table 4: Transit Asset Management Targets. Source: CA-MPO

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Public Safety Transportation Safety

In 2018, the Federal Transit Administration published 49 CFR Part 673, which requires transit agencies receiving Urbanized Area Formula Grants per 49 USC Section 5307 to develop a Public Transportation Safety Action Plan (PTASP). The federal code further requires that states establish a PTASP for small transit agencies. Jaunt and Charlottesville Area Transit (CAT) are both included in the state's PTASP.

The performance measures identified in the PTSAP are reported separately for fixed routes and paratransit/demand response services. The transit agencies developed these performance measures and provided them to DRPT for inclusion in the PTSAP adopted in July 2020.

Performance Measure	Fixed Route	Paratransit/Demand Response*
Fatalities (total number of reportable fatalities per year)	0	0
Fatalities (rate per total vehicle revenue miles by mode)	0	0
Injuries (total number of reportable injuries per year)	5	0
Injuries (rate per total vehicle revenue miles by mode)	Less than 0.5 injuries per 100,000 vehicle revenue miles	Less than 0.5 injuries per 100,000 vehicle revenue miles
Safety events (total number of safety events per year)	10	1
Safety events (rate per total vehicle revenue miles by mode)	Less than 1 reportable event per 100,000 vehicle revenue miles	Less than 1 reportable event per 100,000 vehicle revenue miles
Distance between Major Failures	10,000 miles	10,000 miles
Distance between Minor Failures	3,200 miles	3,200 miles
*Jaunt is under contract to provide paratransit service operations for CAT in urbanized areas.		

Table 5: Charlottesville Area Transit (CAT) PTSAP Performance Measures

Performance Measure	Fixed Route
Fatalities (total number of reportable fatalities per year)	0
Fatalities (rate per total vehicle revenue miles by mode)	0
Injuries (total number of reportable injuries per year)	9
Injuries (rate per total vehicle revenue miles by mode)	Less than 0.5 injuries per 100,000 vehicle revenue miles
Safety events (total number of safety events per year)	17

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Safety events (rate per total vehicle revenue miles by mode)	Less than 1 reportable event per 100,000 vehicle revenue miles
Distance between Major Failures	10,000 miles
Distance between Minor Failures	3,200 miles

Table 6: Jaunt PTSAP Performance Measures

Roadways

The following section identifies primary roadways and bridges in the MPO region.

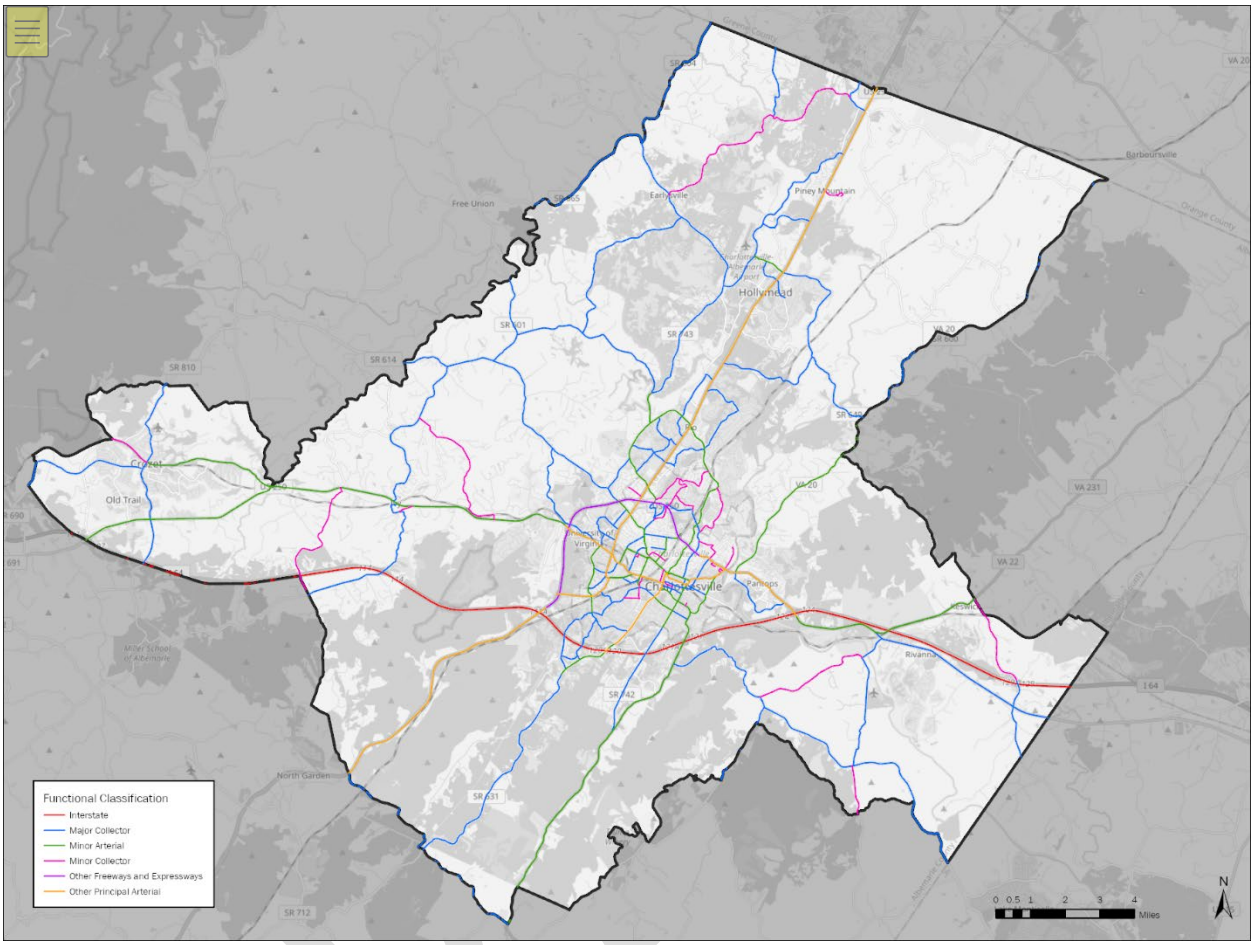
Roadway Classification

Per the Federal Highway Administration (FHWA) and American Association of State Highway Transportation Officials (AASHTO), functional classification is the process by which streets and highways are grouped into classes, or systems, according to the character of traffic service that they are intended to provide.

There are three functional classifications: arterial, collector, and local roads. Arterials provide the highest level of service at the greatest speed for the longest uninterrupted distance, with some degree of access control. These roads are typically classified as principal arterials (sub-grouped by Interstate, Freeway/ Expressway, and other principal arterials) and minor arterials. Collectors provide a lower level of service at a slower speed and provide service for shorter distances by collecting traffic from local roads and connecting them with arterials. Collectors are typically classified as “major” or “minor”. Finally, local roads consist of all roads not defined as arterials or collectors and primarily provide access to land with little or no through traffic.

VDOT further classifies roadways as interstate, primary, or secondary roads. Interstates are limited-access highways that connect states and major cities. Primary roads connect cities, towns, and interstates. Secondary roads are generally connectors and county routes designated with Route numbers 600 and above.

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Map 3: MPO Roadway Classification

MPO Roadways

The region's road network consists of primary, secondary, and local roads. The MPO region contains only one interstate: Interstate 64. U.S. primary roads within the MPO region include Routes 29, 250, 22, 20, and 53. These are the most heavily used commuter and commercial routes.

A network of secondary roads provides residents with connections to local and regional centers. Charlottesville and the urban areas of Albemarle County function as hubs for commercial and economic development within the Planning District. Residents from the urban core and outlying rural areas commute to Charlottesville and Albemarle's growth areas for work, shopping, and recreation. The following section describes higher-order roadways in the MPO region.

Interstate 64

Interstate 64 is an east-west highway connecting the region to Interstate 95 (east) and Interstate 81 (west). The interstate carries through traffic but also serves local trips in Albemarle County, especially during rush hour, making it a critical roadway in the commuter network. Residents and visitors use Interstate 64 to access urban centers and other primary roads.

U.S. Route 29

U.S. 29 is a north-south route linking the region to other metropolitan areas along the corridor, such as Washington, D.C. and northern Virginia, Lynchburg, Danville, and communities in North Carolina. Within the region, U.S. 29 passes through Greene, Nelson, and Albemarle Counties and the City of Charlottesville. It is also a major commuter and truck freight route through central Virginia. Increased development along U.S. 29 in the Places29 development area of Albemarle County has increased traffic in the corridor. U.S. 29 to the south of Charlottesville experiences less traffic and is a four-lane highway that connects with more rural areas of Albemarle County.

U.S. Route 250

US 250 is an east-west corridor that roughly parallels Interstate 64 and connects the Pantops area, Charlottesville, Ivy, and Crozet. The US 250 Bypass provides an alternative route around downtown Charlottesville. Commuters in Fluvanna and Louisa Counties use this road to travel to job centers located in urban Albemarle and Charlottesville. The Pantops area continues to experience rapid development, which increases traffic volumes on the US 250 corridor, particularly at Free Bridge.

State Route 22

Route 22 intersects US 250 at Shadwell and curves east-west through Louisa County. The road passes through the Town of Louisa and carries a moderate traffic volume. Route 22 experiences seasonal traffic variations due to tourist travel with the Green Springs National Historic Landmark District and Monticello.

State Route 20

Another primary road in Albemarle County is Route 20, a rural highway with a north-south alignment that connects Charlottesville to the Town of Scottsville. VDOT designated this corridor as a Virginia Byway for its scenic and historic qualities because it is part of the historic “Journey Through Hallowed Ground” and carries a moderate amount of tourist traffic.

State Route 53

Route 53 extends from Albemarle into Fluvanna County and intersects with U.S. 15 in Palmyra. Along with secondary Route 616, this road is heavily used by commuters from northwest Fluvanna County, particularly those from the Lake Monticello community. Tourists also use Route 53 when traveling to Monticello and Ashlawn, the historic homes of Thomas Jefferson and James Monroe.

Secondary Roads

The MPO also has a network of heavily used secondary roads that connect residents to local and regional centers. The City of Charlottesville has a dense roadway network with around 110 miles of secondary roads. Albemarle contains around 860 miles of secondary roads, roughly 220 miles of which are unpaved. Secondary roads connect developed areas with residential or commercial centers to larger-scale regional roads or primary routes. Secondary roads are typically more robust than local roads. Examples in the urban area are Rio and Hydraulic Road.

Bridges

VDOT assesses the condition of over 100 bridges and over 100 additional culverts in Charlottesville and Albemarle County. Like roadways, the City of Charlottesville is responsible for bridges within

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its boundaries, while VDOT maintains bridges in Albemarle County. Additional information about bridges can be found in Chapters 5 and 7.

Public Transit

Several public transit options exist within the MPO region, including commuter, local, regional, and intra-county bus service provided by Charlottesville Area Transit (CAT), Jaunt, and University Transit Service (UTS). Greyhound, Megabus, and the Virginia Breeze provide inter-city bus service to the region, and Amtrak offers inter-city passenger rail service. In 2017, the Regional Transit Partnership (RTP) was formed to increase communication and coordination between transit providers and identify regional transit goals and opportunities.

Charlottesville Area Transit

CAT currently provides public bus service to the greater Charlottesville area with twelve routes and a trolley service. Service is currently fare-free via a 3-year TRIP grant. Per CAT's ridership data, the average daily ridership in FY 2019 was 5,129. That number dropped significantly in FY 2020 with the onset of the COVID-19 pandemic, which affected the four final months of the fiscal year (March through June). FY 2021's average daily ridership dwindled to 1,691 as the pandemic continued to impact the MPO but began to recover in FY 2022, serving an average of 3,157 riders daily. The routes with the highest ridership in FY 2022 were Route 7, running from Downtown to Fashion Square Mall (28% of trips); Route 5, running from Barracks Road to Wal-Mart (16% of trips); and the Free Trolley, running from Downtown to UVA (14% of trips).

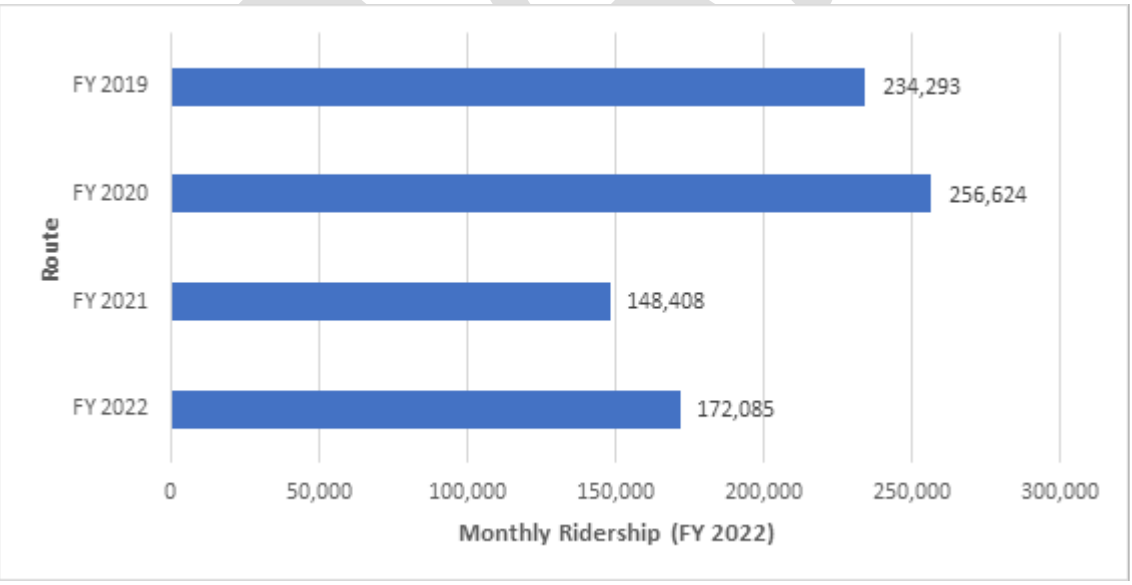


Figure 5: Map 4: CAT Monthly Ridership by Route (FY 2022). Source: CAT

Jaunt

Jaunt is a regional transportation syst for Central Virginia and serves as the Americans with Disabilities Act (ADA) paratransit service for CAT. Like CAT, service is currently fare-free via a 3-year

TRIP grant. Jaunt is funded by Charlottesville, Albemarle, and other local governments, and it uses federal, state, and local funding to supplement fares.

Service is available for all residents of Charlottesville and six surrounding counties in Central Virginia (Albemarle, Buckingham, Fluvanna, Greene, Louisa, and Nelson).

Figure 6 shows annual ridership from FY 2019 to FY 2022.

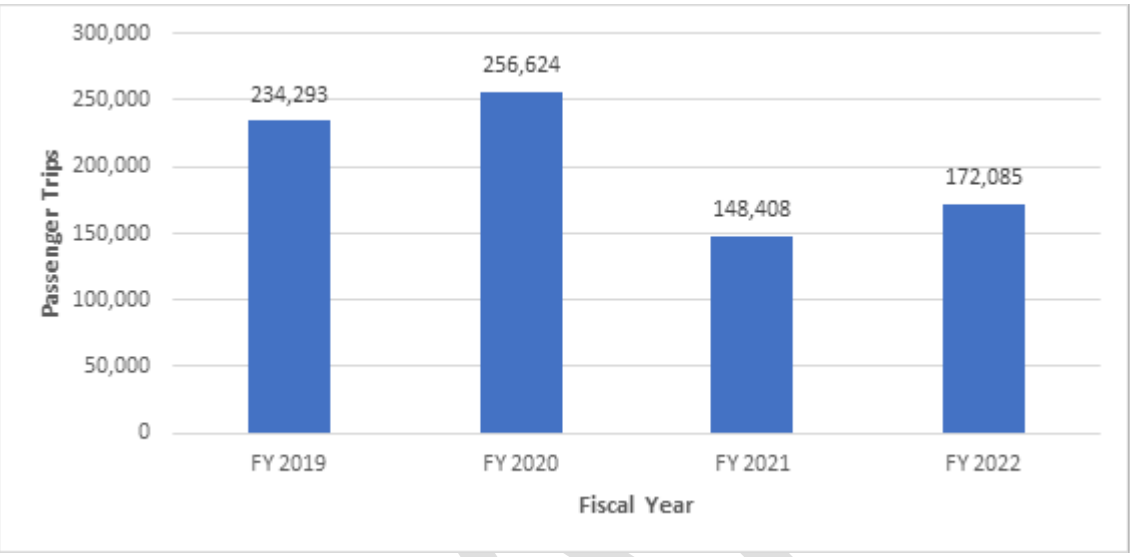


Figure 6: Jaunt Annual Ridership (FY 2019 – FY 2022). Source: Jaunt

University Transit Service (UTS)

UTS is a fare-free transit service UVA provides to its students, faculty and staff, and the general public. UTS services the UVA Hospital and the university's Central, West, and North Grounds. It also serves popular student housing areas, including Jefferson Park Avenue, Grady Avenue, Rugby Road, and 14th Street. UTS currently operates seven routes. Service hours vary by day, route, and time of year.

Regional Transit Partnership (RTP)

The Regional Transit Partnership (RTP) serves as an official advisory board created by the City of Charlottesville, Albemarle County, and Jaunt, in partnership with the Virginia Department of Rail and Public Transportation, to provide recommendations to decision-makers on transit-related matters. The RTP has four main goals:

- Establishing Strong Communication: The Partnership will provide a long-needed venue to exchange information and resolve transit-related matters.
- Ensuring Coordination between Transit Providers: The Partnership will allow transit providers a venue to coordinate services, initiatives, and administrative duties of their systems.
- Set the Region's Transit Goals and Vision: The Partnership will allow local officials and transit staff to work with other stakeholders to craft regional transit goals. The RTP will also

provide, through MPO staff updates of Transit Development Plans (TDPs), opportunities for regional transit planning.

- Identify Opportunities: The Partnership will assemble decision-makers and stakeholders to identify improved transit services and administration opportunities, including evaluating a Regional Transit Authority (RTA).

Inter-Regional Bus Service

Greyhound offers inter-city bus service from a station on West Main Street in Charlottesville. Bus service is available throughout the day to destinations including Richmond, Lynchburg, Roanoke, Fredericksburg, and Washington, D.C., with connections to major metropolitan areas available. Megabus offers inter-city bus service from Charlottesville to Washington, D.C., where passengers can transfer to other bus or rail routes. The DRPT's Virginia Breeze bus line passes through the MPO in Charlottesville, offering bus service from Danville to Washington, D.C.

Inter-Regional Passenger Rail

Amtrak currently operates three service routes from Charlottesville Union Station:

- The Crescent, running daily from New York City to New Orleans;
- The Cardinal, operating three days per week between New York City and Chicago; and
- The Northeast Regional, offering daily service from Roanoke to New York City.

Amtrak's Northeast Regional line has become a reliable transportation alternative for commuters and travelers along the eastern seaboard. Although Virginia is not strictly part of the Northeast Corridor, some Northeast Regional trains continue into Virginia. Northeast Regional service south to Alexandria, Richmond, Williamsburg, and Newport News formally began in 1976. In 2009, Amtrak extended the Northeast Regional with daily service from Alexandria, VA, via Burke, Manassas, Culpeper, and Charlottesville to Lynchburg. Since 2017, this service has been extended to provide same-seat trips to and from Roanoke, VA, and in 2022, a second daily train between Roanoke and Washington, D.C., was introduced.

As shown in Figure 7, Charlottesville Union Station is one of the state's busiest in terms of total ridership. Ridership was severely impacted by the COVID-19 pandemic in 2020 but increased steadily through 2022, as shown in Figure 8.

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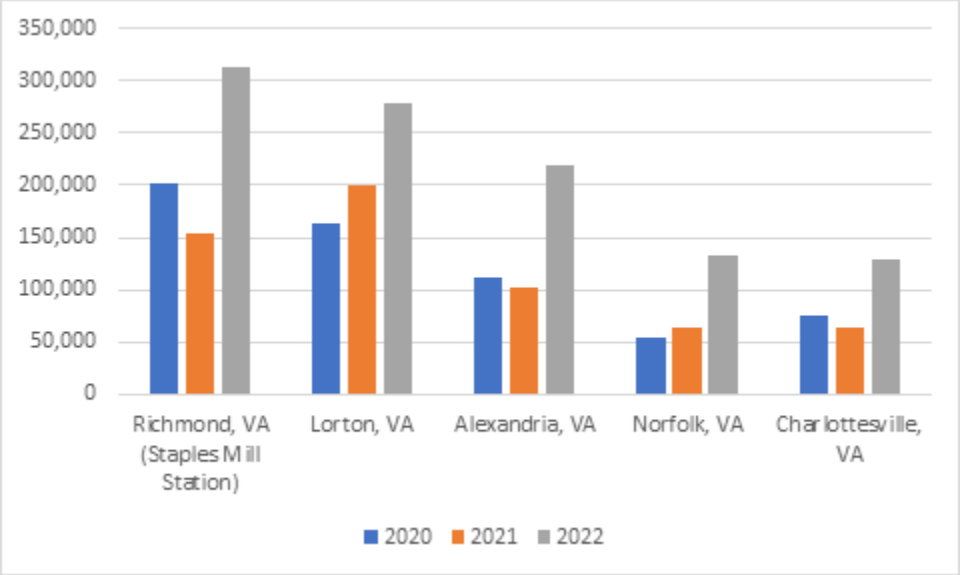


Figure 7: Total Amtrak Station Arrivals & Departures for Top Stations in Virginia (2020-2022). Source: Rail Passengers Association

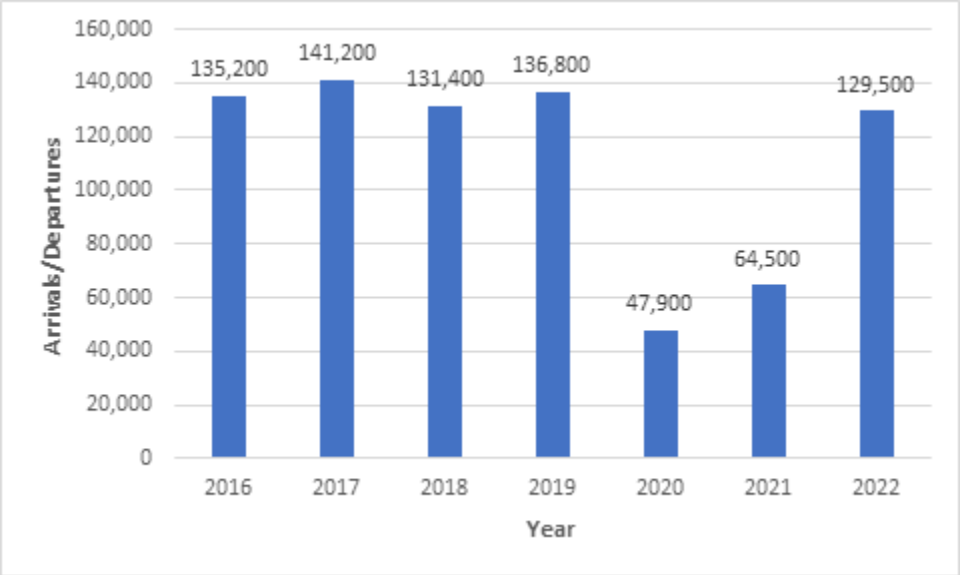


Figure 8: Charlottesville Amtrak Station Arrivals & Departures (2016-2022). Source: Rail Passengers Association

Bicycle and Pedestrian

Charlottesville has been honored as a silver-level Bicycle Friendly Community by the League of American Bicyclists since 2008. The University of Virginia received a silver-level Bicycle Friendly University award from the League of American Bicyclists in 2013. Additionally, the city has been designated a gold-level Pedestrian Community by Walk Friendly Communities since 2011 due to its high walking rates, innovative planning practices, and a centralized, successful Downtown Pedestrian Mall. Nonetheless, the region must continue to increase efforts to improve conditions for bicyclists and pedestrians. Improving safety is a crucial aspect of this plan.

The MPO Policy Board approved an update to the Jefferson Area Bicycle and Pedestrian Plan in March 2019. The updated plan encouraged implementation by providing a focused list of regionally significant bicycle and pedestrian projects that enhance connectivity and provide routes to important residential and economic centers.

Map 4 shows existing bicycle and pedestrian infrastructure in the MPO.



Map 4: Existing Bicycle and Pedestrian Infrastructure

Freight

Identifying freight corridors and preserving freight mobility is a Long-Range Transportation Plan component. The MPO is primarily served by truck freight and supplemented by rail service.

Truck

Interstate 64 is the primary east-west truck route in the MPO region, transporting goods statewide and connecting neighboring industrial centers. In 2022, the portion of Interstate 64, which runs through the MPO area, carried a daily truck traffic volume of approximately 11.8% of total daily traffic in the region. Truck freight also utilizes U.S. 29. U.S. 29 is the primary truck route in the north-south direction and facilitates freight routing changes. One of those routing changes, U.S. 250, also carries significant freight traffic and has become a major shipping corridor in recent years. Maintaining and improving the roadways for freight movement is critical to the region's economic development and sustainability.

Three roadways provide primary access to the major commercial areas and business centers at the center of the MPO region: Interstate 64, U.S. 29, and US 250. U.S. 20 experiences frequent congestion due to traffic volume, hilly terrain, reduced speed limit, and the number of signalized intersections, creating difficult driving conditions for freight trucks. Continued implementation of Route 29 improvement projects is necessary to prevent Charlottesville from becoming a bottleneck for freight on the U.S. 29 corridor.

As evident from the Freight Analysis Framework (FAF) data shown in Map 5, the highest densities of truck activity are at Virginia's major population hubs: Northern Virginia, Richmond, and Hampton Roads, with concentrations also visible at Roanoke, Lynchburg, and Charlottesville. Around 32,000-34,000 tons of freight are carried through I-64 in the Charlottesville-Albemarle MPO area, with closer to 1,000 tons carried on U.S. 29.



Map 5: Virginia's Inbound/Outbound/Internal Truck Tons (Year). Source:

Rail

Freight rail is provided via two railroads that cross at grade in downtown Charlottesville: CSX Transportation and Norfolk Southern Corporation, two of the largest railroad conglomerates in the U.S. The Norfolk Southern line travels north-south through Albemarle County, Charlottesville, and Nelson County. The CSX line, carrying primarily empty coal cars, follows a roughly east-west route through Albemarle County, the City of Charlottesville, and Louisa County.

In 2023, two rail projects in the MPO were awarded $500,000 each in federal funding to study improvements to passenger rail service. The Commonwealth Corridor project, proposed by the Virginia Department of Rail and Public Transportation (DRPT), aims to connect Newport News with Richmond, Charlottesville, and the New River Valley. It plans to utilize existing rail lines and complement current Northeast Regional services connecting Washington, D.C., Newport News, and Roanoke. The proposal includes filling a gap in passenger rail service along the Buckingham Branch Railroad freight line, with plans to offer east-west service across Virginia. A study estimates the corridor's annual ridership to be around 177,200 passengers.

Amtrak's project aims to enhance the Cardinal Service, which operates three days a week, to daily service. The route passes through Charlottesville and connects Alexandria, Manassas, Culpeper, and Clifton Forge to destinations such as New York City, Chicago, Philadelphia, Baltimore, and Washington, D.C. Increasing the frequency of the service will improve accessibility and connectivity for passengers along the route.

Figure 9 shows that Virginia's truck and rail freight volumes are expected to double their 2004 tonnage by 2035.



Figure 9: Projected Growth in VA Freight Tonnage. Source: Virginia Statewide Multimodal Freight Study, Phase I

Airport

Charlottesville-Albemarle Airport (CHO) is the only commercial service airport in the region. The airport is eight miles north of Charlottesville and one mile west of U.S. 29 on Airport Road. It is a general aviation and commercial service airport, offering more than 50 daily non-stop flights to and from Charlotte, Philadelphia, New York, Washington, D.C., Atlanta, and Chicago. Delta, United, and American Airlines serve the airport. The number of enplaned passengers has been steadily increasing since 2013. In FY 2018, enplaned passengers reached 315,099, an 8% increase from FY 2017, the highest total in the last ten fiscal years. The number of enplaned passengers in FY 2021 dwindled to 76,709 due to the COVID-19 pandemic but steadily increased to 275,002 in FY 2023. General aviation facilities include an executive terminal offering a full-service fixed-base operation, a flight school, and aircraft charter firms.

Daily and hourly parking is available at the airport. Car rentals are available in the terminal facility, and many area hotels provide shuttle service from the airport for guests. Taxi and rideshare services are also available.

Travel Demand Management

Two programs currently implemented for regional Travel Demand Management (TDM) in the MPO region include RideShare and Park & Ride Lots.

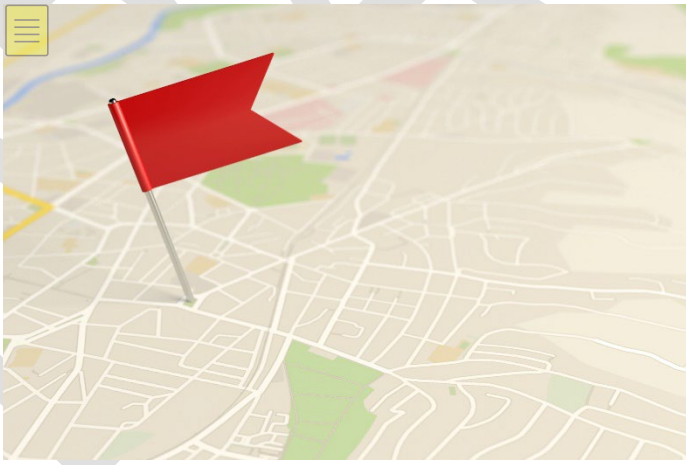
RideShare

RideShare is a program housed within the TJPDC, in cooperation with the Central Shenandoah Planning District Commission (CSPDC), working to reduce traffic congestion and increase mobility throughout Central Virginia and the Central Shenandoah Valley. Services include free carpool matching, vanpool coordination, and a Guaranteed Ride Home program to provide free rides home in an emergency. RideShare also works with employers to develop and implement traffic reduction programs and advertises the region's Park and Ride lots. The RideShare database has 1,682 registered members in the ConnectingVA system, and 257 registered users in the Guaranteed Ride Home program database as of April 2024.

Park & Ride Lots

There are thirty Park and Ride lots within the RideShare service area. Twenty-one are located within the TJPDC, and nine are within the MPO area, as listed in Map 6. Some of these lots are formal facilities managed by VDOT, while others are informal lots made available to commuters by businesses or organizations that own the property.

RideShare conducts quarterly inventories of each park & ride lot. The most active lot is in Waynesboro (AUG2), averaging 65 cars each weekday. Based on interviews conducted at the lot and data collected from RideShare, most travelers parking at this lot commute to Charlottesville. The second most active lot is at Zion Crossroads (LOU1), with an average of 40 cars each weekday. This lot's data on commuting destinations was unavailable, but Charlottesville and Richmond are likely the primary destinations.



Map 6: Park and Ride Lots in Region

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Chapter 3: Transportation Deficiencies Overview

Overview

Developing a plan for improving any aspect of the community must start with identifying what elements of the community's system are deficient. For this plan, MPO staff examined how the region's future transportation system would function if no future improvements were planned beyond projects included in the State's Six-Year Improvement Program (SYIP) or proffered from local developers. Through this process, MPO staff, working with MPO Committees, identified infrastructure expected to be incomplete or insufficient by 2050. Analysis for each mode considers the population total and distribution as projected for 2050, the employment total and distribution as projected for 2050, and road network conditions as projected for 2050.

Roads, Freight, Bridges, and Intersections

Roads

Most traffic in the MPO travels via the region's roadway system. As the Charlottesville-Albemarle region grows, more people are expected to use this system, which will constrain its capacity and result in congestion and delays. To ascertain how congested the road system would likely be in 2050, the MPO used its travel demand model to forecast where demand on the system is expected to exceed system capacity.

The travel demand model identifies these congested areas by calculating a volume-to-capacity ratio. The ratio indicates the volume of traffic expected on the road compared with the capacity the roadway can accommodate. Roadways approaching or over capacity are considered deficient. Map 7 shows roads expected to be classified under the "Minor Congestion" or "Congested" categories. The MPO used VDOT's volume-to-capacity ratio standards to define minor congestion and congestion. The capacity identified for each roadway varies based on multiple factors, including whether it is leading to an intersection. While this helps estimate the congestion caused by intersections, it is not a detailed analysis of any specific roadway or intersection.

Minor Congestion

Roads approaching capacity are those with a Level of Service (LOS) E, which indicates that between 85% and 100% of the road's capacity is being used. These roads are expected to experience minor congestion, which means they are likely to be congested during rush hour travel but operate at free-flow conditions during other times.

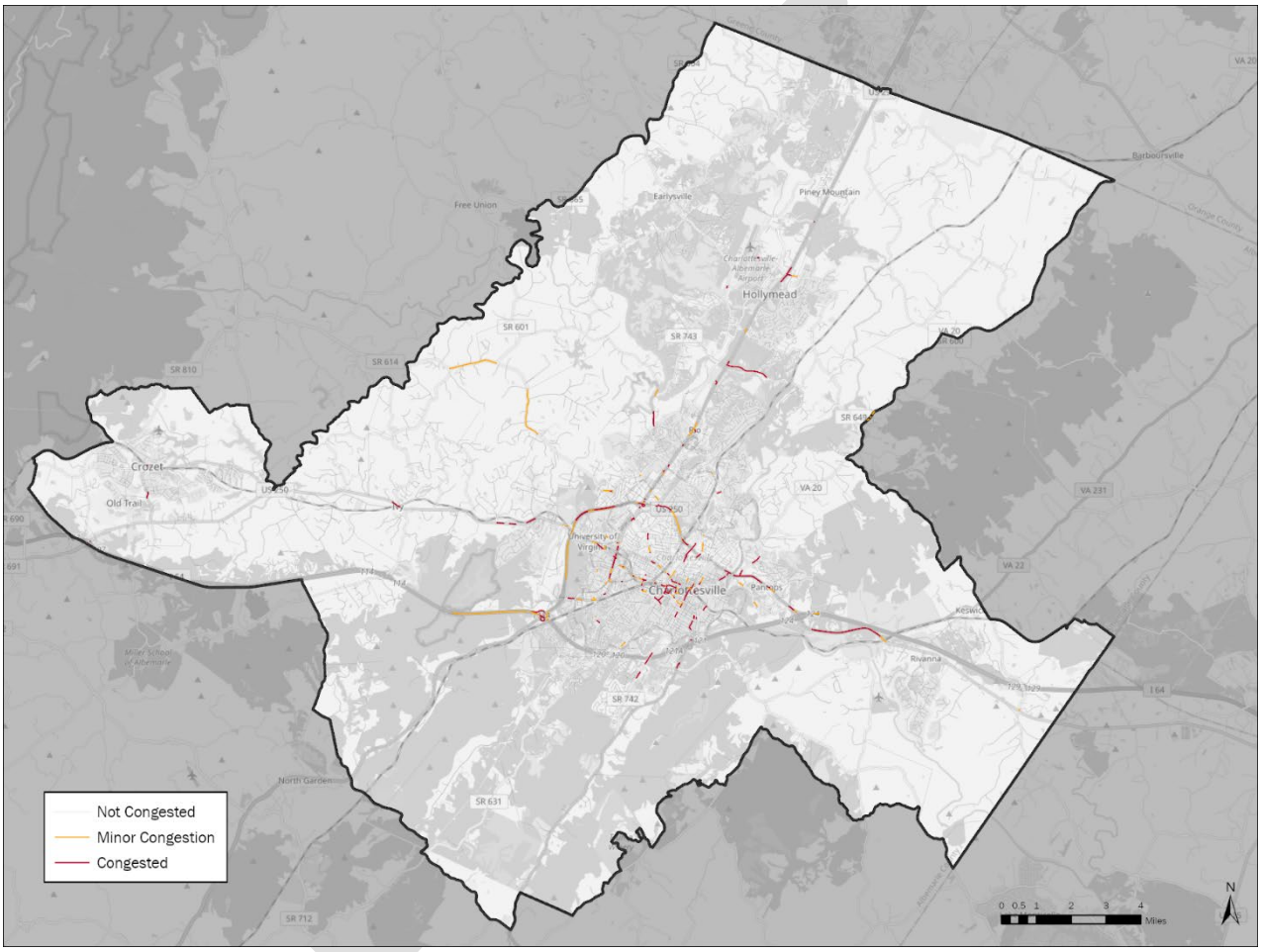
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Congested

Roads over capacity are those with a LOS F, which indicates that the roadway is expected to carry more volume than it was engineered to handle. These roads are expected to be congested throughout the day.

Significance

The transportation system's congestion level in 2050 was identified for two purposes. First, it was used to determine which areas would likely need improvements to reduce congestion and function more efficiently. Second, it served as a base against which each scenario could be compared.



Map 7: 2050 Congestion Levels. Source: VDOT

Freight

While important, the issue of freight movement throughout the region is not an overriding concern for regional mobility. The region's key freight corridors are Interstate 64 and US 29. Both routes are susceptible to congestion issues affecting general traffic mobility concurrent with freight movements.

Freight movement along rail corridors is also not a prevalent regional traffic concern. Currently, rail freight movement in the region travels to destinations outside the MPO's boundaries. While facilitating the movement of goods throughout the region is a priority, it is not as prominent in the Charlottesville-Albemarle MPO as it is for other MPOs.

Bridges

Safe and adequate bridges are vital components of a fully functional transportation system. Using VDOT bridge condition reports, the entire region of Albemarle County and the City of Charlottesville was reviewed to identify the condition of each bridge and assess the need for improvements. For the federal performance measure, bridges are categorized as "good," "fair," or "poor" and determined by the worst condition of the deck, superstructure, and substructure.

Bridges identified as being in poor condition are shown in Map 8 below. VDOT structure ID numbers are included on the map. A list of these bridges, including their funding status, is provided in Chapter 7.



Map 8: Bridges in Poor Condition

Intersections

Intersections are a central concern in the MPO, as they are primary areas of congestion, locations where many crashes occur, and barriers to bicycle and pedestrian travel. VDOT evaluates intersections to identify potential for safety improvement (PSI) locations. This evaluation is based on the number of crashes at each intersection over the most recent 5-year period. The region's intersections with the highest PSI scores are shown in Map 9, indicating the most potential benefit from improvements. A list of intersections identified for improvement or already funded is provided in Chapter 7.



Map 9: High PSI Intersections

Transit and Rail

Three transit entities serve the MPO: Charlottesville Area Transit (CAT), run by the City of Charlottesville with additional contributions coming from Albemarle County; University Transit Service (UTS), run by the University of Virginia; and Jaunt, which provides transit and para-transit service for several contiguous counties in the region including the City of Charlottesville and Albemarle County. To determine regional transit deficiencies, MPO staff considered regional transit services that have identified stops. Shuttle-style services, such as Jaunt's 29 Express and Park Connect services, are not included.

Transit Accessibility to Population and Employment Maps

The travel demand model's 2050 population and employment data was used to map each zone's population and employment densities forecast. Dark shades of blue indicate densely populated zones, while light shades of blue indicate sparse populations (refer to Map 10). Similarly, dark shades of red indicate zones with considerable employment opportunities, while light shades indicate fewer opportunities (refer to Map 11).

Because future bus stop locations for 2050 cannot be anticipated, existing bus stop locations for UTS and CAT routes were used in our analysis. Population and employment within a one-quarter-mile buffer of transit stops were calculated to determine access to transit in 2050. This analysis considers all stops equally, although some routes have a frequency as low as one bus per hour. Map 12 shows current CAT transit routes, and Map 13 displays transit access points and bus headway information.

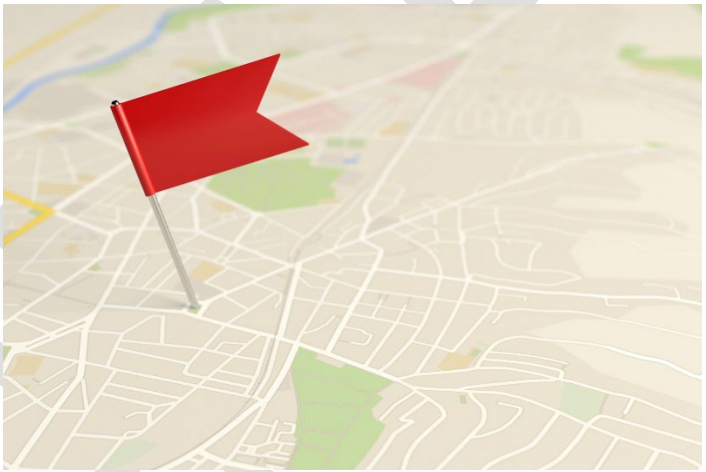
Within the MPO, approximately X% of the population and X% of employment opportunities are within a one-quarter-mile radius of a bus stop, indicating an opportunity to expand service to a more significant proportion of residents and increase transit use by residents who live close to existing transit services. These maps help identify general areas that would benefit from additional transit service.

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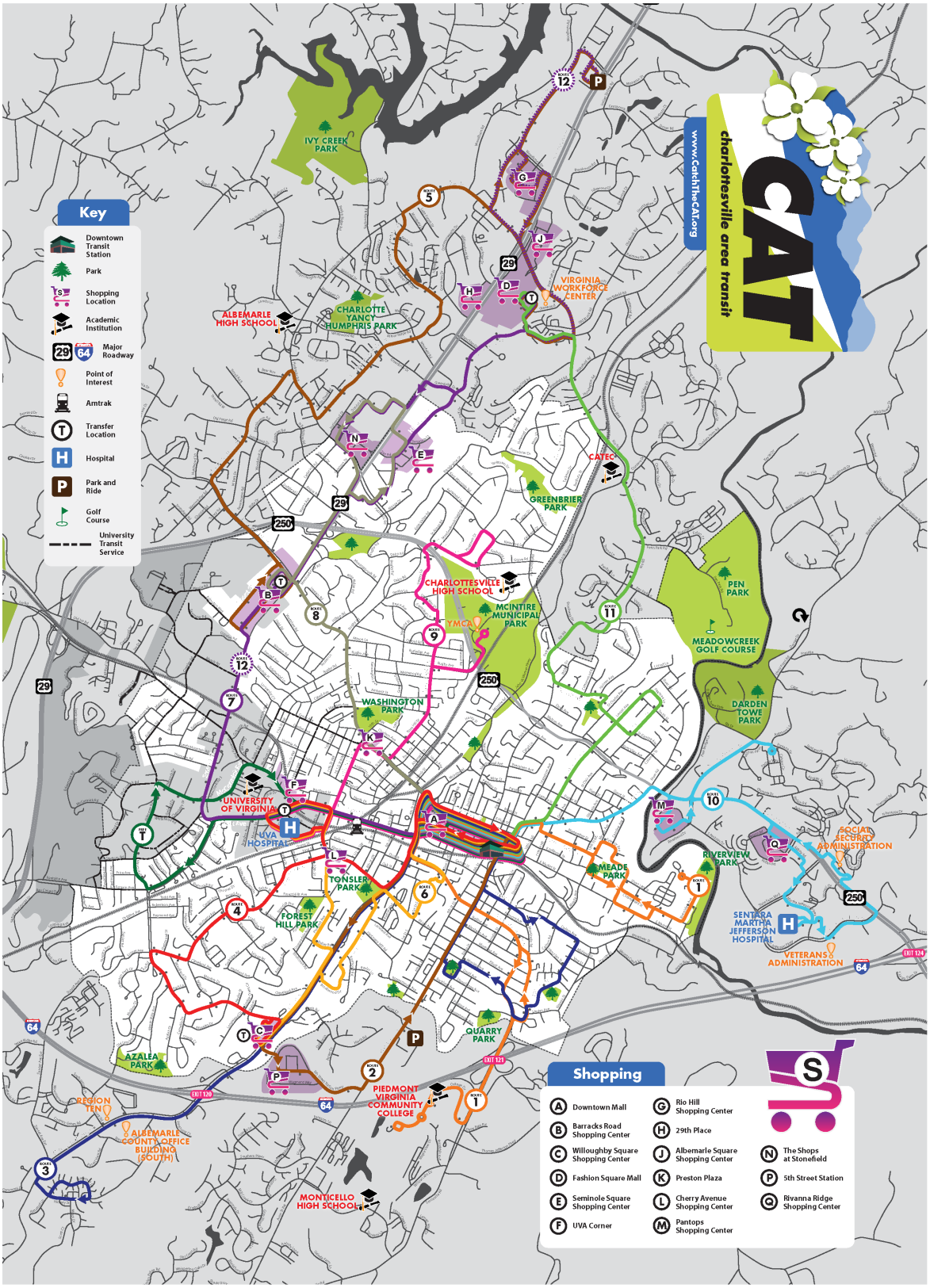
Darker shaded areas without bus stops indicate areas where expanded service is expected to perform well due to the high concentration of residents or employment opportunities in these areas.



Map 10: 2050 Population Access to Transit



Map 11: 2050 Employment Access to Transit



Map 12: CAT Transit Routes



Map 13: Transit Access by Headway

Bicycle and Pedestrian

The MPO's bicycle and pedestrian infrastructure is relatively robust for recreational purposes, but the current network is not extensive or connected enough to be a viable transportation option for most of the 2050 MPO's population and employment base. Public outreach efforts for the 2019 Jefferson Area Bicycle and Pedestrian Plan indicated that the community strongly desires additional infrastructure. Creating a more connected network would increase the desirability of bicycling and walking for transportation and recreation in the region.

Bicycle

The MPO's bicycle network includes bike lanes, shared-use paths, and shared roadway facilities. This plan's analysis focuses on existing designated bicycling facilities. It does not focus on areas that do not have these facilities but are, in fact, bikeable due to the nature of the roadway. It includes all existing bicycle infrastructure identified, although the Bicycle and Pedestrian Plan identified the need for improved infrastructure in many corridors. Many bike lanes and shared roadways in the region are on roads with speed limits of 35 or 45 mph. In these places, protected bike lanes and shared-use paths could dramatically increase safety and comfort for people riding bicycles.

Bicycle Accessibility to Population and Employment Maps

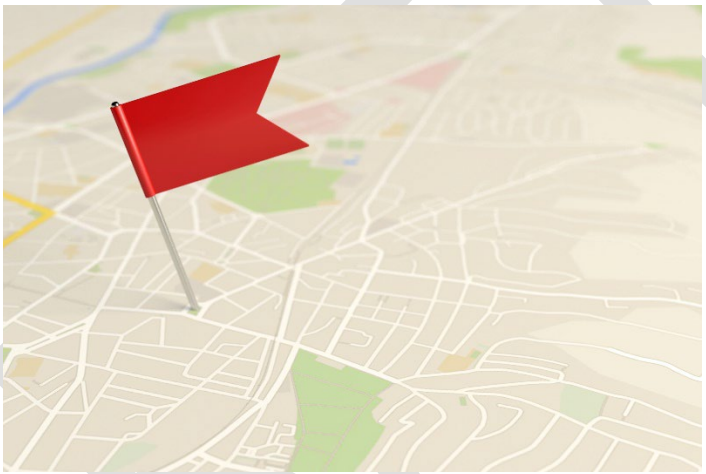
Existing bicycle facilities were added to each map in thin black lines along with a 500-foot buffer. Population and employment within 500 feet were calculated to determine what percentage of the population or employment in 2050 would have relatively easy access to bicycle facilities.

Within the MPO, approximately X% of the projected population and X% of employment opportunities are within 500 feet of a bicycle facility. However, regional biking tends to be limited to smaller zones due to barriers that prohibit bicycling beyond these areas. These maps help identify general areas that would benefit from improved connectivity.

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Map 14: 2050 Population Access to Bicycle Facilities



Map 15: 2050 Employment Access to Bicycle Facilities

Pedestrian

The MPO's pedestrian network includes sidewalks and walkable areas such as Charlottesville's Downtown Pedestrian Mall. This plan's analysis focused on access to this walkable network.

Pedestrian Accessibility to Population and Employment Maps

Existing pedestrian facilities were added to each map and buffered using a distance of 200 feet. The population or employment within 200 feet of pedestrian facilities was calculated to determine what percentage of the population or employment opportunities in 2050 would have access to a sidewalk or walkable area.

Within the MPO, approximately X% of the population and X% of employment opportunities are located within 200 feet of a pedestrian facility. The regional pedestrian network, while extensive, is missing links or extensions that would make the network more effective for the region. These maps help identify the general areas that would benefit from improved pedestrian connectivity. Efforts

are also necessary to improve conditions on existing sidewalks, as many sidewalks are narrow or difficult to use due to impediments such as utility poles.



Map 16: 2050 Population Access to Pedestrian Facilities



Map 17: 2050 Employment Access to Pedestrian Facilities

Conclusion

Transportation deficiency analysis provided MPO staff insights on transportation improvements to consider for Moving Toward 2050. Staff concluded that roadway improvements must be targeted at critical regional locations such as the US 29/US 250 Bypass or US 250 at Pantops. Regarding transit improvements, the ongoing work of the Regional Transit Partnership will be valuable in identifying priorities for the transit system. As part of the Jefferson Area Bicycle and Pedestrian Plan, staff determined that access via bike facilities is limited by significant barriers prohibiting connectivity despite reasonable access to facilities within the urban core. Likewise, staff established that the pedestrian network lacks key links that could provide greater accessibility.

Staff used this information and recommendations from other plans to develop an initial list of proposed roadway, transit, bicycle, and pedestrian projects targeted at improving these areas. Bicycle and pedestrian projects were taken from the 2019 Jefferson Area Bicycle and Pedestrian Plan. Intersection and bridge projects were identified based on VDOT and locality evaluations. These projects are discussed further in Chapter 7.

Chapter 4: Needs Evaluation, Project Identification, and Project Prioritization

Overview

This section describes the evaluation process undertaken by MPO staff to evaluate transportation needs, identify candidate projects, and prioritize those projects.



Figure 10: Evaluation Process

Needs Evaluation Process

To prepare for long-range transportation plan development, the MPO successfully applied for and was awarded a technical assistance grant through the Office of Intermodal Planning and Investment (OIPI) to develop a system needs and project prioritization process. This technical assistance aimed to create a process for the MPO to use a data-driven framework to support prioritizing transportation system needs. The process was developed based on MPO-defined goals, and MPO staff worked closely with consultants to identify appropriate evaluation metrics to assess the overall system operations.

The needs prioritization process was developed using the following framework:

1. The process would use publicly accessible data specific to the Charlottesville-Albemarle MPO area.
2. The process itself would be developed based on existing staff and technical capacity.
3. The process is replicable and can be used in future planning efforts.

With the consultant team's support, the MPO identified thirteen metrics to evaluate transportation system needs. The consultants developed two thresholds for each metric, and MPO staff worked with the Technical Advisory Committee and the MPO Policy Board to identify the preferred threshold for each metric. The thresholds determined whether a need was indicated at particular segments.

The final aspect of the needs prioritization process was determining how much weight each metric should carry to prioritize the transportation system's needs. The consultant team developed three potential approaches to the weighting scenarios:

1. Accessibility-Focused: Prioritizes needs that will improve access to jobs, non-work destinations, and multimodal choices for bicycling, walking, and transit.

2. Balanced: Prioritizes all categories equally with an increased focus on limiting environmental impacts.
3. Mobility-Focused: Prioritizes highway and roadway projects that reduce vehicular delay.

The accessibility-focused weighting scenario was determined to be the most appropriate for needs prioritization based on feedback received through the engagement process. Table 7 summarizes the data used for the need prioritization process. An in-depth explanation of each evaluation metric can be reviewed in the Charlottesville-Albemarle MPO Performance-Based Planning Process document, included in this plan's appendix.

			Weighting Scenarios		
Prioritization Category	Evaluation Metric	Threshold	Accessibility-Focused	Balanced	Mobility-Focused
Safety	Roadway Safety (PSI[1])	All PSI locations	15%	12%	15%
	Bike/Ped Safety (PSAP[2] Corridors)	Top 5% District Corridors	15%	13%	15%
Multimodal Accessibility	PAI[3] - Bike/Ped	All segments PAI greater than 0	8%	7%	7%
	PAI - Transit	All segments PAI greater than 0	8%	7%	7%
	PAI - Vehicle	All segments PAI greater than 0	6%	4%	9%
	PAI – Disadvantaged Populations	All segments PAI greater than 0	8%	7%	7%
Efficiency & Economic Development	Travel Time Index (TTI)	Avg weeklong TTI > 1.5 for three hours; > 1.7 for one hour	3%	7%	10%
	Travel Time Reliability (PTI[4])	Avg weeklong PTI > 1.5 for three hours; > 1.7 for one hour	3%	7%	10%
	Transit On-Time Performance[5]	On-time performance less than systemwide average performance from previous year	4%	11%	10%
Land Use Coordination	Walk Access[6] - General	All segments in "somewhat walkable" census tracts	10%	13%	5%
	Walk Access – Disadvantaged Populations	All segments in transit viable EEA[7] that are also in "somewhat	20%	12%	5%

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		walkable" census tracts			
Environment	Flooding Exposure	Segments Exposed to Historical Flooding	Applied to aggregate score in other factor areas		
		Additional Adjustment for economically distressed communities	Applied to aggregate score in other factor areas		

Table 7: Needs Prioritization Metrics

After metrics were standardized, they were combined into a needs score for the need category they supported. All standardized values were then summed into a weighted average score, assigning different weights to each metric in the scoring process for each factor. Finally, all need category scores were combined into an aggregate needs score that reflected total need based on all five categories, and staff created a map showing the need score for each road segment (see Map 18).

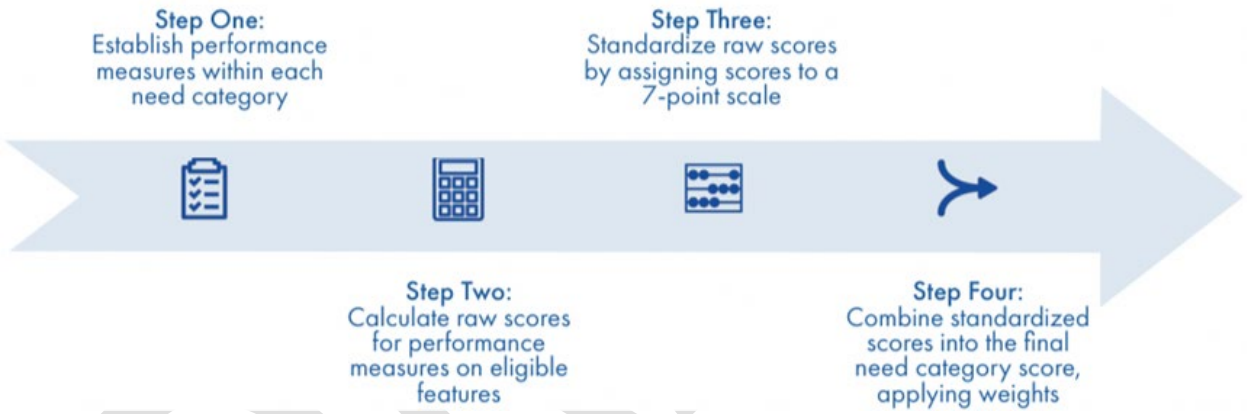
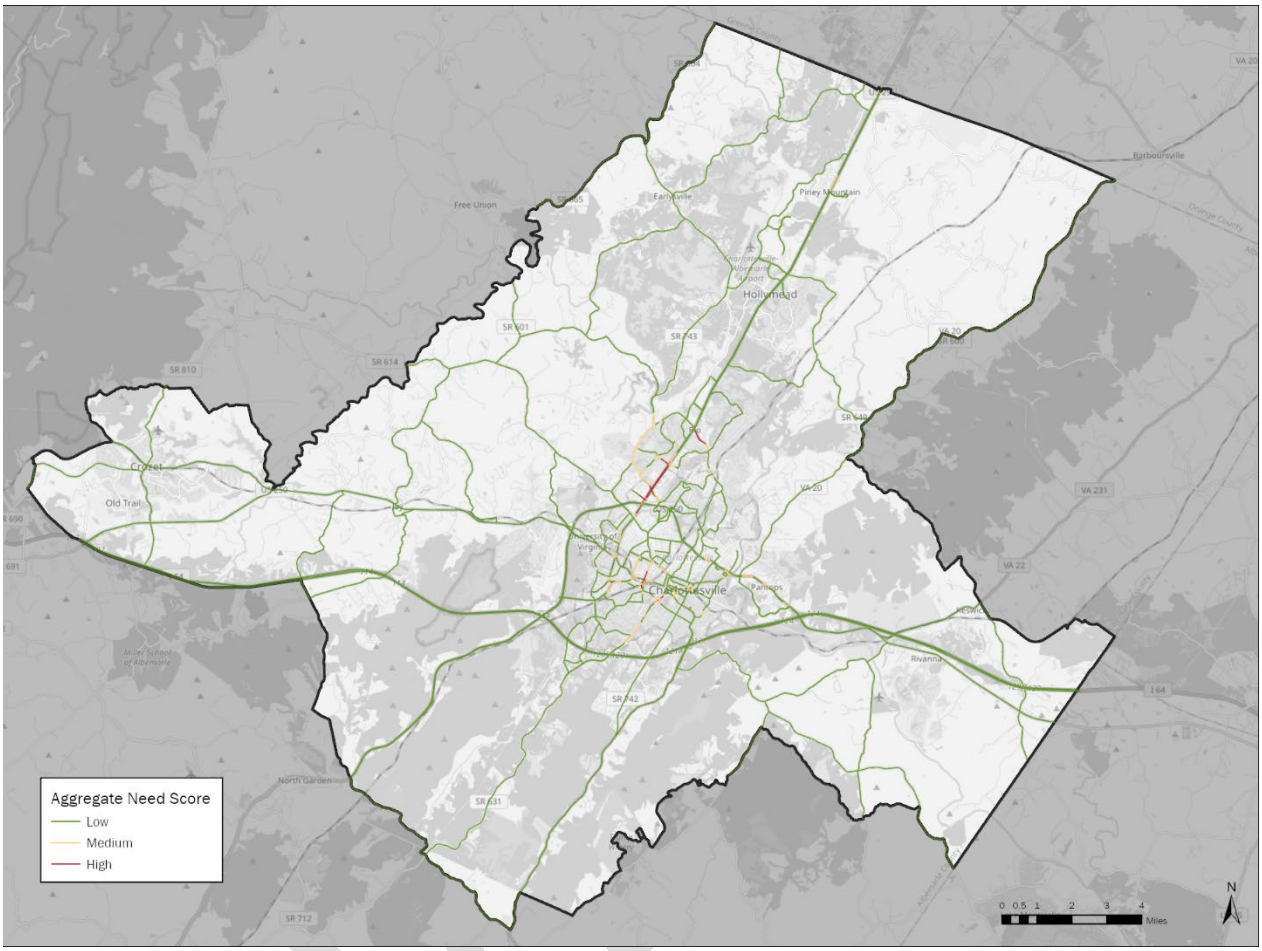


Figure 11: Needs Prioritization Process



Map 18: Road Segments by Aggregate Need Score

Limitations of Needs Analysis

The following limitations were considered as part of the needs evaluation process:

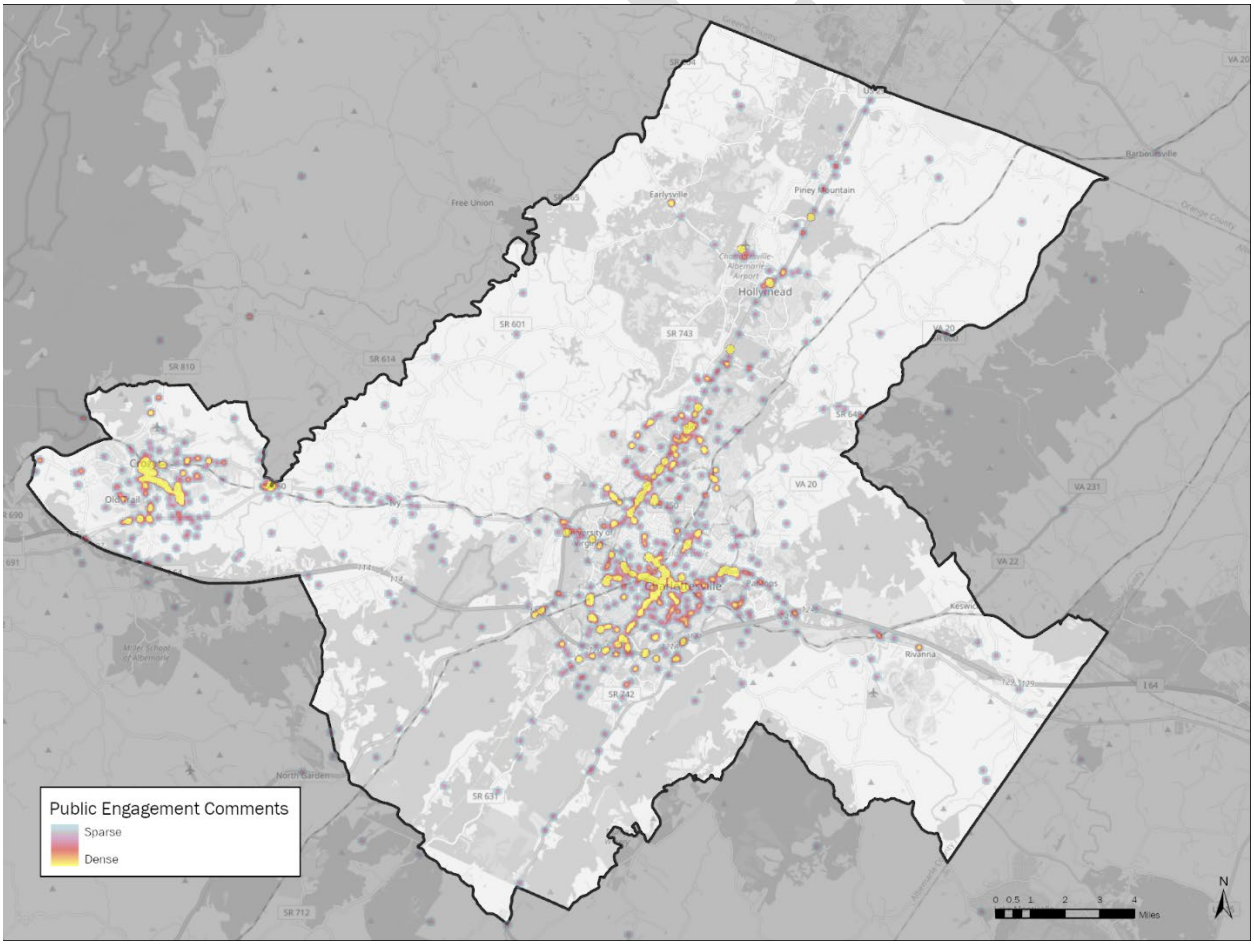
- Staff used 2016-2020 PSI data for analysis. While 2017-2021 PSI data was available, it did not include needs indicated in the City of Charlottesville.
- Needs were coded to existing roadway segments and did not necessarily capture those that could be addressed through off-road shared-use paths or new road alignments.
- Congestion mitigation was incorporated into the need prioritization process using present-day conditions and high thresholds, limiting future operational conditions' impact in determining priority segments. While mitigating vehicular congestion was not a high priority based on public feedback, this also limits needs indicated where multimodal congestion solutions could be identified.
- The Potential for Accessibility Improvement (PAI) measure determines where a high population of people could access more jobs with an accessibility improvement, not necessarily where the improvement needs to occur.

- The aggregation process de-emphasized individual evaluation metrics. A need could be very high in a single category, but it may not be indicated as a high need overall if it does not demonstrate additional needs in other categories.

Public Feedback

MPO staff used public feedback to supplement the data analysis process and review locations with high concentrations of indicated needs. First, staff created a heat map of public comments indicating specific transportation improvements (see Map 19). Then, staff compared the public feedback heat map to the needs analysis output maps to determine where there was overlap and divergence.

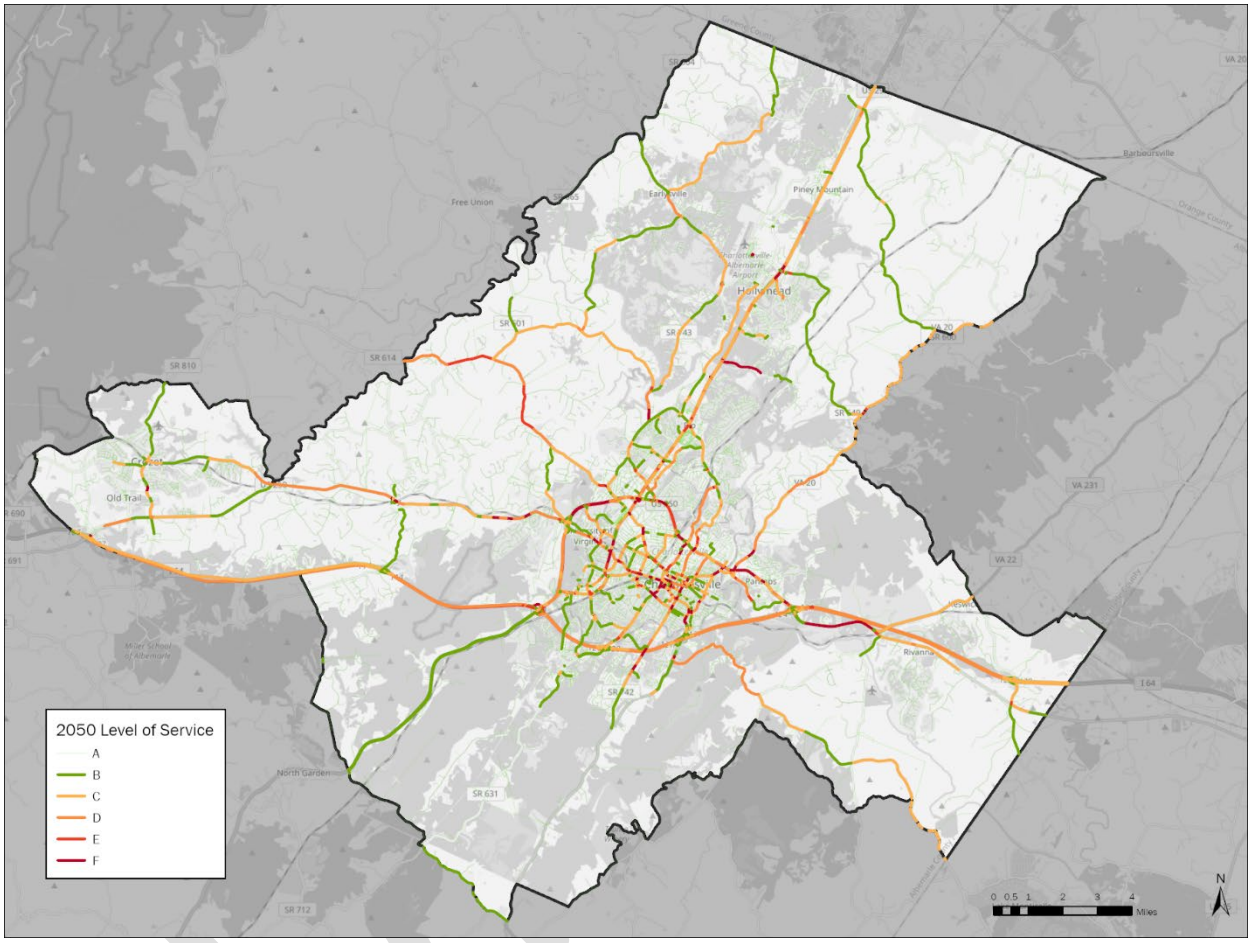
For the most part, public feedback confirmed the needs identified through the data analysis process. However, some exceptions were noted where public feedback indicated strong support for improvements, whereas the data analysis indicated low or no need. Public feedback was also reviewed to determine whether projects under consideration would garner support from the community.



Map 19: Public Engagement Heat Map

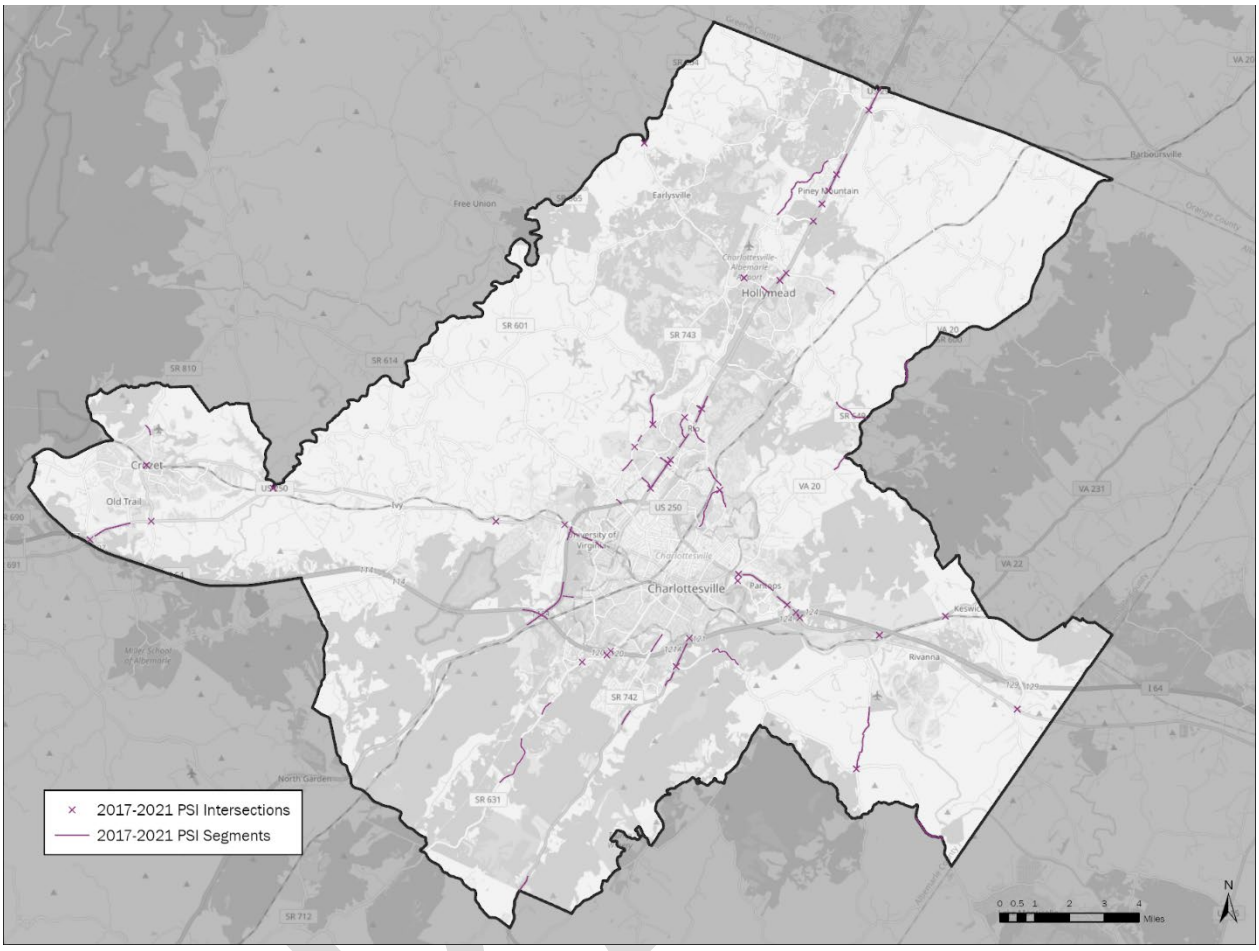
Additional Data Reviewed

To address limitations of the data analysis process, MPO staff also considered future Levels of Service to determine where there may be future capacity concerns based on regional growth projections (see Map 20). This ensured the plan accounted for future travel needs based on projected population and employment growth.



Map 20: 2050 Levels of Service. Source: VDOT

MPO staff also mapped 2017-2021 PSI needs to review potential projects' proximity to locations with an indicated need for safety improvements (see Map 21). This additional consideration for projects identifying operational and safety needs aligns with previous efforts to identify priority improvements. It provides some continuity between past efforts and current plan development.



Map 21: PSI Intersections and Segments (2017-2021). Source: VDOT

Project Identification Process

Staff compiled a list of candidate projects based on improvements identified through previous planning efforts or studies, including:

- Small Area Plans
- Corridor Studies
- Transit Strategic Plans
- Regional Plans
- VDOT Project Pipeline & STARS Studies

Project Prioritization Process

After compiling a list of candidate projects, staff worked to prioritize them. Priority projects were identified based on the following:

- Locally identified priority improvements
- Candidate projects that addressed needs identified through the Moving Toward 2050 prioritization process

Indicated needs not addressed by a committed or recently implemented project or a priority project were flagged as planning priorities, which will inform the efforts the region undertakes over the next several years to identify solutions to address these identified needs.

Conclusion

The evaluation process has helped identify transportation needs, select candidate projects, and prioritize them effectively. By employing a data-driven framework and engaging stakeholders and the public, the MPO has developed a comprehensive system for prioritizing transportation projects, considering safety, accessibility, efficiency, and environmental impact. Chapter 7 describes how the evaluation process will inform decisions regarding transportation infrastructure investments, ensuring alignment with community priorities and future growth projections.

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Chapter 5: Additional Transportation System Elements

Overview

Moving Toward 2050 is a comprehensive process that identifies the needs of many transportation system elements. This chapter will provide information about intersections, bicycle and pedestrian improvements, and bridge needs. These aspects were separated from the roadway and transit analysis for multiple reasons, including the fact that some funding is dedicated to one type of project. Challenges are associated with measuring the impact of various kinds of improvements. For example, the travel demand model used to estimate the congestion impact of roadway and transit projects cannot calculate the effect of intersection or bike/ped improvements. Nonetheless, the transportation network is one system, and any decision should consider all aspects of the network to ensure maximum system performance and a good quality of life for residents of the region.

Intersections

Intersections are a central concern in the MPO, as they are primary areas of congestion, locations where many crashes occur, and barriers to bicycle and pedestrian travel. Given this, VDOT and the localities continuously evaluate conditions at intersections and work to identify improvements that increase safety and multimodal flow through intersections. Intersections identified as essential locations for improvements are listed in Chapter 7.

Regional Bicycle and Pedestrian Network

In 2019, the MPO adopted the Jefferson Area Bicycle and Pedestrian Plan to provide a regional vision for implementing regional bicycle and pedestrian infrastructure. A map showing existing and proposed infrastructure is shown in Map 22. While the Bicycle and Pedestrian Plan identified many corridors and projects, it was not an attempt to compile all potential projects. As such, local efforts will identify additional bicycle and pedestrian needs within and between neighborhoods.

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Map 22: Regional Bicycle and Pedestrian Network

Bridges

Like intersections, bridges are continuously evaluated by VDOT and the localities to ensure safe travel now and in the future. This LRTP includes information that VDOT has collected regarding bridge conditions, and the MPO will continue to monitor these conditions as part of the national performance measures. A list of bridges currently identified as being in poor or fair condition or otherwise needing improvement is provided in Chapter 7. Chapter 7 also contains a list of bridge improvement projects that have already been funded.

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Chapter 6: Planning for Uncertainty

Overview

This chapter discusses some uncertainties related to long-range transportation planning and provides an overview of technologies and trends essential to transportation planning. While there is constant debate about how innovations will change how we move people, goods, and services, this plan acknowledges the uncertainties of 20-year plans.

Changing Technologies

The transportation sector is entering a period of rapid change and technological disruption. New services such as bike-sharing and Transportation Network Companies (TNCs) coupled with a move towards autonomous vehicles and connected infrastructure are reshaping how people and goods move. These new technologies and new travel modes have the potential to reshape the transportation landscape radically. With some technologies being relatively new and evolving, there is very little consensus around planning for them and making assumptions for the future. Long-range plans require a two-decade planning horizon, and many planning assumptions used for that 20-year vision are based on historical trends. These trends are changing rapidly and may not represent future transportation systems. Therefore, it is important to monitor trends and new developments and adapt the plan to meet the needs of this changing landscape. It is also crucial that local, regional, and state decision-makers are aware of these trends and are prepared to embrace or regulate them as necessary. Currently, the City of Charlottesville and Albemarle County are taking action to encourage appropriate use of some of the new technologies described in this chapter.

This plan continues the process of understanding the new modes and technologies. Future iterations will have to adapt continuously to the changing nature of transportation. Many of the projects included in this plan are designed to fix current capacity constraints and improve operational efficiency, safety, and mode choice. Therefore, the projects are expected to help meet the transportation needs in both the short- and long-term.

Transportation Network Companies

The Metropolitan Planning Area (MPA) is serviced by two Transportation Network Companies (TNCs), also known as Mobility Service Providers (MSPs). Uber and Lyft rely on online-enabled platforms to connect users and drivers. One of the hallmarks of these systems is the use of noncommercial vehicles. This differs from local taxi services, which have provided similar on-demand transportation services to the region for many decades.

The arrival of TNCs has already begun to change some travel behaviors, especially with Charlottesville's large university population lacking personal cars. As these services continue to grow in popularity, planners may need to rethink the design of downtown streets better to facilitate drop-off and pickup activities at the curb. TNC services will likely play a small but growing role in the Moving Toward 2050 planning horizon.

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Shared Mobility Programs

Shared mobility programs are one form of innovation reshaping active transportation by addressing the demand for quick and affordable transportation in urban areas. Since the 2045 LRTP was adopted, many companies have taken on the role of bike-share providers and have introduced dockless electric scooters. In 2018, the City of Charlottesville approved a temporary Dockless Scooter and Bicycle Policy Pilot Program to evaluate their impacts in Charlottesville. The City provided permits to two providers (Lime and Bird), and the first dockless scooters were introduced in December of 2018. Veo, a competitor to Lime and Bird, now provides dockless scooters and electric bikes, which have become a regular fixture on local streets.

While shared mobility provides convenient travel options, these programs have also caused many concerns. Ensuring their appropriate and safe use is essential if scooters are to remain as a mode of travel. Appropriate scooter parking is necessary to avoid obstructing sidewalks or otherwise endangering or limiting pedestrian access. Despite bike-share and other shared mobility programs aiming to provide affordable mobility options, the cost and dependence on smartphones and credit cards can still make them inaccessible to some vulnerable populations. To make bikes and scooters accessible to everyone, many programs have introduced discounts or subsidized passes for riders based on income thresholds and have options for text-to-unlock features. Given these concerns locally and in cities nationwide, it is unclear if electric scooters will continue to serve as a valid transportation option or disappear in the coming years.

Electric Bikes and Scooters

Electric bicycles (e-bikes) continue to grow in popularity as technological advancements allow for lower costs and longer battery life. Additionally, some e-bikes can match travel speeds with city speed limits, allowing riders to keep pace with automobile traffic. The Department of Energy reports that e-bike sales skyrocketed by about 30 percent, from 325 thousand bikes sold in 2018 to 1.1 million in 2022. These improvements are especially influential in hilly communities like Charlottesville, where stronger motors and batteries make biking available to more riders.

The region may expect more trips to transition from single-use occupancy vehicles as electric bikes and scooters become more popular. Additional bike facilities can accommodate this shift. The region may also want to consider more bike storage and racks. The MPO may need to reevaluate the modal split in the model for future updates of the LRTP.

Connected and Autonomous Vehicles

Connected Vehicles (CVs) and Autonomous Vehicles (AVs) are two technologies likely to impact transportation significantly within the 2050 planning horizon. CVs refer to vehicles that can communicate with one another to achieve goals such as reducing traffic congestion and improving safety. Autonomous vehicles refer to vehicles that can travel independently of a human operator. The precise timeframe for the widespread implementation of these technologies is uncertain.

There is disagreement on the costs and benefits the technologies will have on the transportation network. Some research indicates a potential upside for the capacity of roadways, while other predictions indicate a scenario with roads clogged with roving AVs. The technology has several

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potential benefits, such as reduced traffic congestion, increased safety, reduced fuel consumption and travel time, lower insurance and healthcare costs, better city planning due to less need for parking, increased productivity, and improved personal mobility and public transit.

The impact of CVs and AVs on future commuting patterns is not clear. Some research suggests that they could increase vehicle miles traveled (VMT) by encouraging workers to live farther away from employment and take advantage of their commute time to increase productivity. The impact of CVs and AVs on vehicle ownership is another significant factor. Some research suggests that they will reduce personal vehicle ownership, and consumers will use on-demand driverless transportation services for most of their travel. CVs and AVs also have the potential to change transit, freight movement, and other travel significantly. Since autonomous vehicles would not have drivers, transit and freight costs would dramatically decrease. The decrease in other limitations, such as required breaks and rest stops, may lead to these vehicles being operational continuously or for more hours of the day.

There are barriers to the widespread adoption of CVs and AVs, such as public safety and privacy concerns from possible equipment failures and cyber security. There is also uncertainty regarding the impact of the partial implementation of CVs and AVs, which would result in a mixed fleet of driverless and non-autonomous vehicles. Estimates for how long it would take for the vehicle fleet to transition from non-autonomous to driverless vehicles are generally more than ten years. Fully automated safety features, such as highway autopilot, are not expected to be used across a large portion of the vehicle fleet for many years. VDOT has developed a Connected and Automated Vehicle Program Plan, and the MPO will continue to monitor systems as they evolve over the next five years.

Transit

New technologies and their applications continue to influence transit services across the country. Strategies like bus-only lanes and bus priority at traffic signals make routes more efficient and reliable. Technology also has the potential to make paying transit fares quicker and easier than in the past. Autonomous transit vehicles, including those tested in Albemarle County, could dramatically decrease transit service costs. On-demand mobility is also an opportunity for transit agencies, as they may determine that they can provide improved service and efficiency by replacing low ridership routes with flexible, on-demand services.

Access to real-time transit data, often on cell phones, has made transit more desirable for riders. However, the increase in other transportation options, such as the on-demand mobility services provided by TNCs, may decrease the number of people using transit. CAT is currently implementing a micro-transit pilot called “Micro-CAT,” and Jaunt is currently undergoing a micro-transit study. It is also possible that the transportation changes discussed in this chapter will lead to fewer households owning cars and an increase in transit use in combination with other modes.

Telecommuting and Remote Work

Even before the COVID-19 pandemic, a growing proportion of the workforce worked from home. Before 2020, the U.S. Census Bureau showed that approximately 7% (5,402) of residents in the MPO area worked from home — a 22% increase since 2010. Nationally, the number of Americans

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working from home increased from 2.2 million in 1980 to 11 million in 2020. During the pandemic, the 2021 American Community Survey showed that 27.6 million people (17.9% of the workforce) primarily worked from home. In 2023, 12.7% of full-time employees worked from home. While many employers ask their workers to return to the office, Forbes reports that teleworking will continue to increase, following a forty-year trend.

As these trends continue, the region should incorporate communications and internet access as transportation assets, satisfying the commuting needs of a growing proportion of the workforce. Modeling should also consider how these changing conditions could influence roadway volumes.

Unmanned Aerial Vehicles (UAVs)

Debates and research continue into the application of Unmanned Aerial Vehicles (UAVs), commonly referred to as drones. Several industries are researching ways to use UAVs to deliver goods for commercial purposes and even medical services.

There are too many technological, business, and legal uncertainties to predict how UAVs may influence the transportation network in the next two decades. However, the MPO should continue to track this topic and adjust plans as drone applications evolve.

Sustainable and Resilient Transportation Systems

The region's transportation system is a notable source of greenhouse gas emissions and is vulnerable to climate change impacts in the short and long term. Using gasoline to power vehicles contributes significantly to greenhouse gas emissions in this region and nationwide. Albemarle's climate action data suggests that in 2000, the transportation sector was responsible for 52% of greenhouse gas emissions in the County, the largest share of emissions by sector, followed by residential (27%) and commercial (11.5%). The 2016 Greenhouse Gas Inventory in Charlottesville indicated that transportation sector emissions were approximately 28% of total emissions in the City. A similar proportion came from residential uses (30%) and commercial uses (27%).

Coordinating transportation and land use planning is essential to reducing transportation emissions. Land use decisions significantly influence the number and length of trips made in the region and the mode used for each trip. These land use factors include the density of development and how it is connected to the transit, roadway, bicycle, and pedestrian networks.

Strategies that could reduce regional transportation greenhouse gas emissions include increasing public transit frequency and routes, building more bicycle and pedestrian infrastructure, encouraging ridesharing, installing charging stations for electric vehicles, and increasing the number of people who work from home. Many of these strategies involve changing resident behavior to reduce the number of vehicle trips. Strategies should substantively involve citizens to reduce regional greenhouse gas emissions successfully.

Climate change raises important questions about community resilience and adapting infrastructure for an environment that may have different precipitation or temperature patterns than we experience today. For example, communities in our region and nationally have recently been confronted with increases in flooding. Transportation planning in the 21st century will require

increased attention to resiliency and environmental protection. Roads and parking lots are generally impervious surfaces, which increase runoff, pollution of waterways, and potential for flooding. For these reasons, transportation planning must continue to avoid flood-prone areas, maintain wetlands, and include flood mitigation strategies.

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Chapter 7: Transportation Projects Identified

Overview

As explained in Chapter 4, a primary requirement for the LRTP is the creation of constrained lists of projects based on estimates of future funding. Estimating future funding has become more challenging in recent years, particularly since Virginia has moved to a competitive method of distributing major funding, SMART SCALE. Including a project in the constrained list of this LRTP has less impact than in the past, as each project needs to compete for state and federal funding regardless of whether it is in the constrained list or the vision list. Nonetheless, the constrained and vision lists are an essential component of this LRTP, and they identify projects that the region desires to receive state and federal funds to construct.

Funding and Cost Estimates

[See attached "VDOT Review – CLRP CAMPO" spreadsheet]

Funded Projects

[Inserting brief language that ties the LRTP to the TIP and describes the funded projects.]

Constrained and Vision Lists by Category

Following the evaluation process described in Chapter 4, MPO staff created final project lists. The MPO Technical Committee, Citizens Transportation Advisory Committee, and Policy Board reviewed the lists at multiple meetings in 2023 and 2024. All projects listed here should be considered equally eligible for federal, state, or local funding, given the uncertainty related to funding sources and the likelihood that different projects will be eligible and competitive for various funding sources.

Safety and Operational Improvements
Constrained Projects
Rio Road Peanut-Shaped Roundabout and Shared Use Path
Airport Rd and 29 Intersection Improvements
Ivy Road Corridor Improvements, including Multi-modal Improvements on Old Ivy Road (Pipeline)
US 250 Corridor Improvements from Crozet Ave to Old Trail Drive
Avon Street Extended and Mill Creek Drive Intersection Improvement
Eastern Avenue Connection between Westhall and US 250
Barracks Road Corridor Improvements between Georgetown Road and Emmet Street (Pipeline)
Ridge/McIntire/W. Main/South/Water Street Intersection Improvement
Rio Road Corridor Improvements between Huntington Road and Greenbrier Terrace
Hillsdale South Extension, including 250 Interchange and Multi-Modal Improvements
Vision Projects
US 29 between 250 and Hilton Heights (including Greenbrier Drive)

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Regional Multi-modal Connectivity Studies
US 29 between Exit 118 and Ivy
E. High Street from 250 to Locust Avenue
Local Activity Center Connectivity Studies
Route 29 Corridor Improvements, Hydraulic Rd. to Rio Rd.
Route29 Corridor Improvements, Rio Road to the Rivanna River.
5th Street Station/5th Street Intersection Improvements
Louisa/Milton Road Pipeline Bundle
Greenbrier and Commonwealth Drive Intersection Improvements
Greenbrier and Route 29 Intersection Improvements
Earlysville Road Corridor Improvements between Ivy Creek and Hydraulic

Table 8: Safety and Operational Improvement Projects

Transportation Alternatives
Constrained Projects
I-64 and 5th Street Interchange Improvement
Old Lynchburg Road Shared Use Path between Ambrose Commons and 5th Street
Berkmar Drive Shared Use Path between Rio Road and Hilton Heights Road
5th Street Multimodal Improvements from Harris Road to City/County Line, including Moores Creek Crossing
Preston Avenue Multi-Modal Improvements from 10th Street NW to Ridge/McIntire
Peter Jefferson Parkway & Rolkin Road Access Management/Pedestrian Improvements
Rivanna River Bicycle and Pedestrian Bridge between Pantops and Woolen Mills
Vision Projects
Three Notched Trail Shared Use Path
10th and Page Multimodal Improvements, including improvements along 10th Street between Preston and Cherry Avenue
Travel Demand Management Solutions
North side of JPA from W. Main to McCormick
29 North/West Main/UVA Bus Rapid Transit Alternatives Analysis
Expanded Microtransit Service in Charlottesville and Albemarle Growth Areas
Route 20 Shared Use Path
Greenbrier/John Warner Parkway Multimodal Connection
Shared Use Path connection between 10th & Page neighborhood and Schenk's Greenway (Rail to Trail Project)
Three Notched Trail Section Improvements (as identified by the Albemarle County RAISE Grant)
CAT Existing Facility Expansion
Hydraulic Road from Earlysville to Georgetown (Include Lambs Lane Campus) - Multi-modal Improvement
Emmet Street between Barracks Rd and 250 Bypass Multimodal Improvements
Biscuit Run Bike and Pedestrian Connections
14th Street NW from Grady to W. Main Multimodal Improvements

Table 9: Transportation Alternative Projects

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Traffic and Safety Operations
Vision Projects
Implement improvements identified through the development of the Comprehensive Safety Action Plan

Table 10: Traffic and Safety Operation Projects

Transit Projects
Microtransit in Pantops
Microtransit along northern 29 corridor
Free Trolley Service Improvements
Route 7 Service Improvements
Route 8 Service Improvements
Expanded Bus Stop Amenities

Table 11: Transit Projects

Conclusion

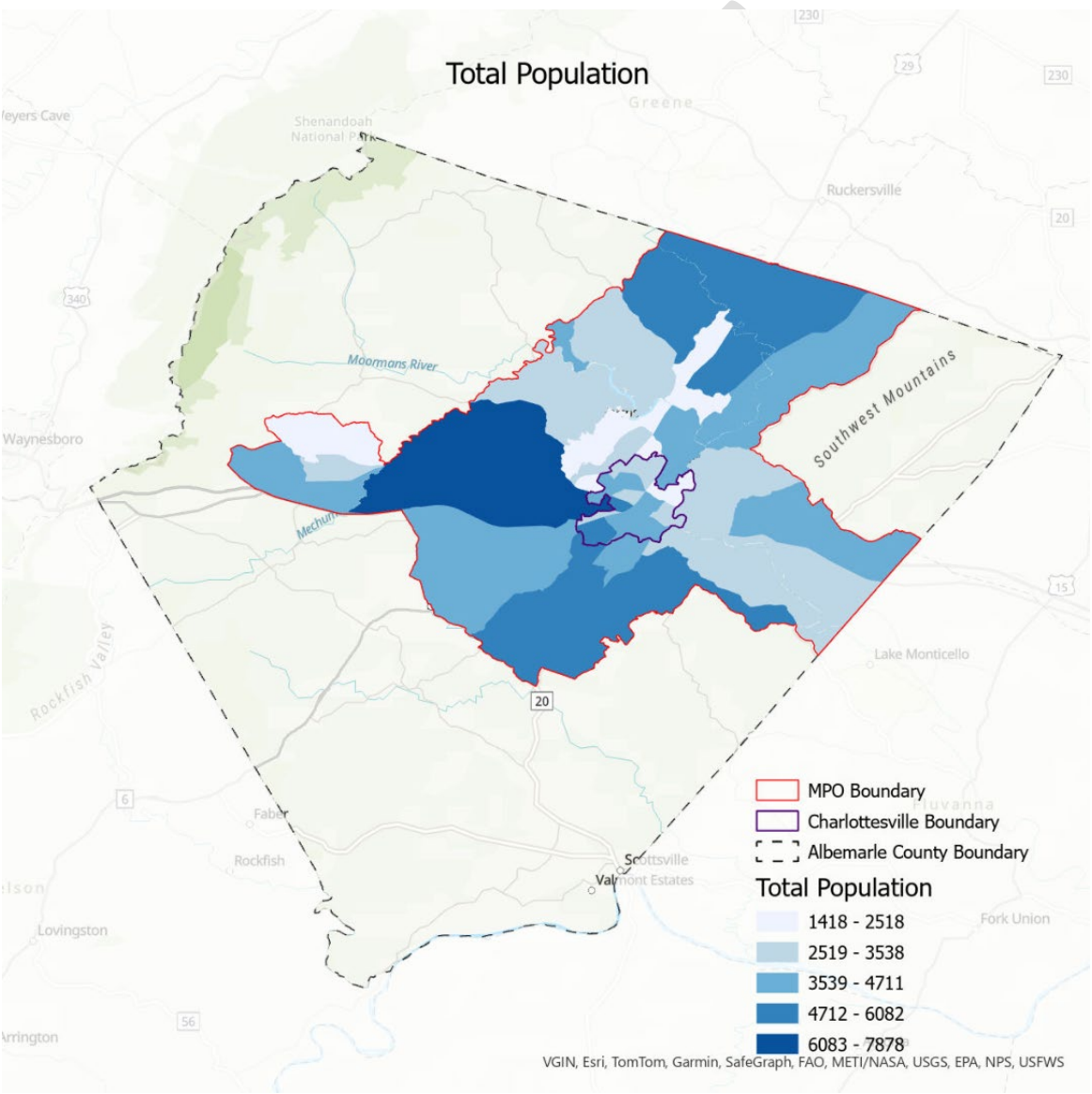
The LRTP process benefitted the MPO in many ways, including ensuring deficiencies were identified, and potential projects were evaluated and discussed. As FHWA and FTA require, the MPO has created constrained project lists and identified additional projects included in vision lists. These lists will ensure coordinated decision-making by federal, state, and local officials regarding important regional projects in the MPO in the coming years.

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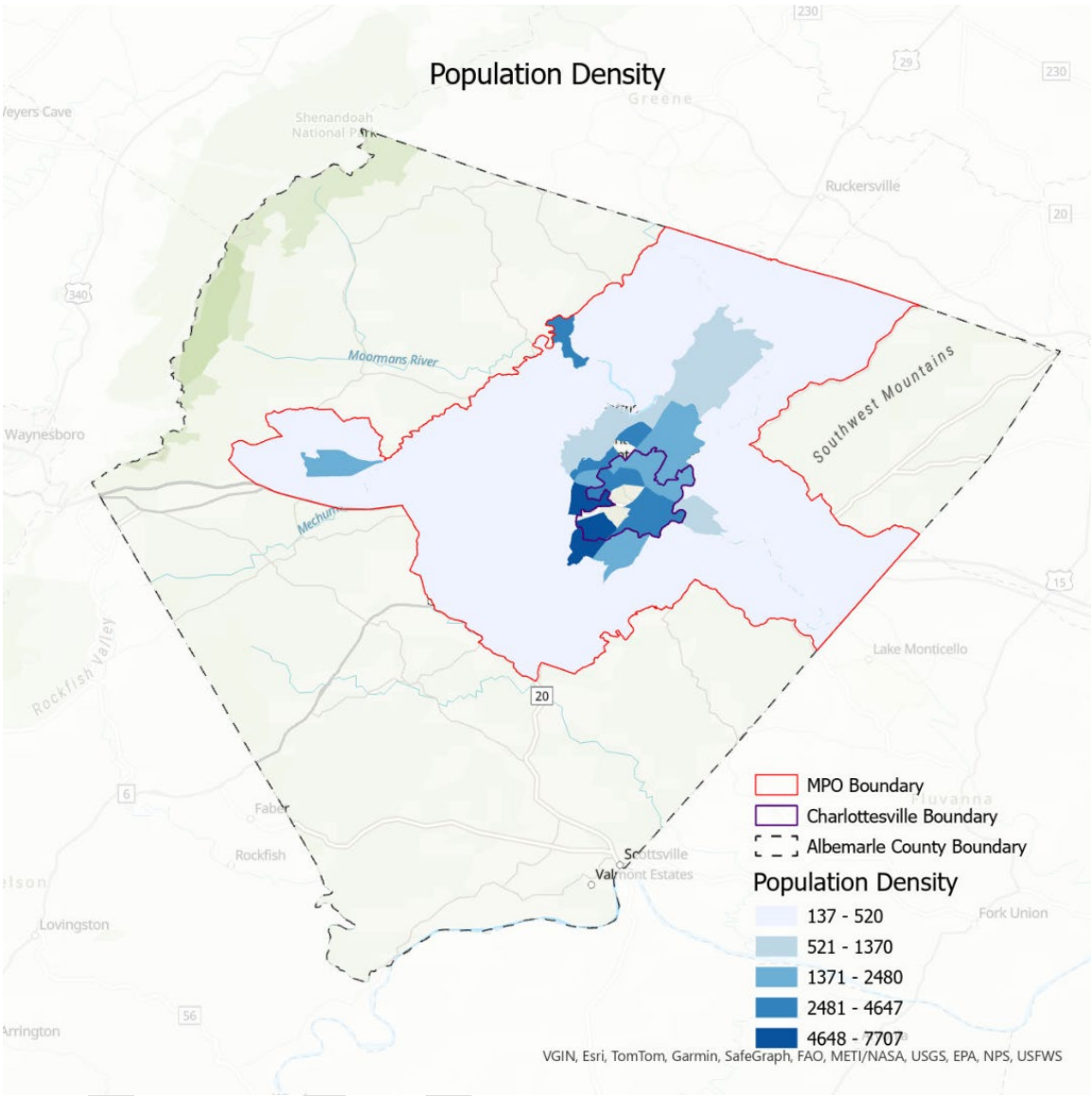
Appendix A: Demographics

Population

The MPO's population is concentrated most densely in the City of Charlottesville and its immediate surroundings, with moderate densities also located along US Route 29 and Crozet. The following maps provide a clearer picture of the area's overall population and densities by US Census block groups according to 2022 American Community Survey (ACS) 5-year data.



Map 23: Total Population



Map 24: Population Density

Race & Ethnicity

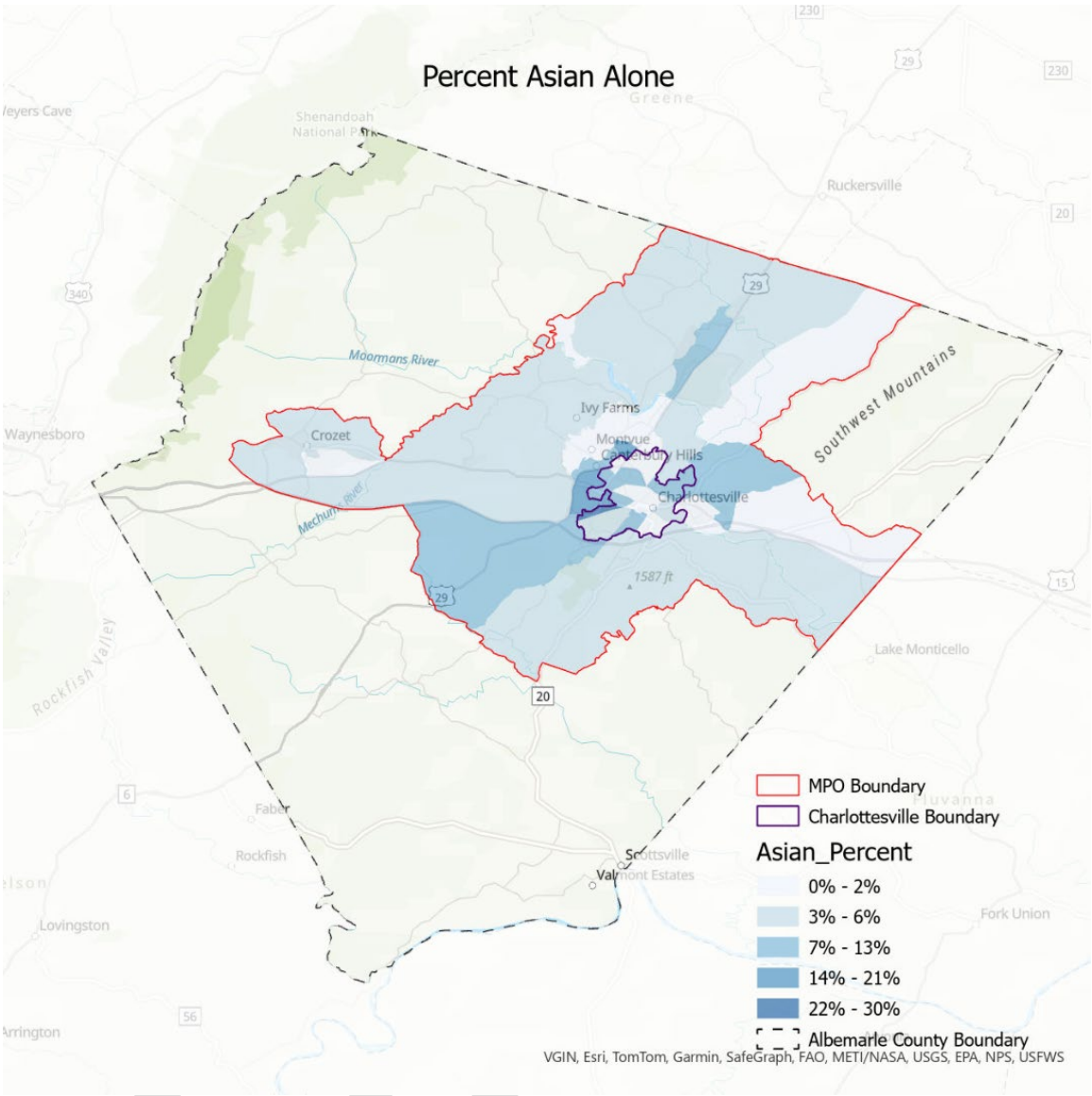
The City of Charlottesville and Albemarle County contain diverse populations. The table below summarizes some basic demographics for the area using the latest American Community Survey estimates.

Racial Identity/Ethnicity	Charlottesville	Albemarle County
Non-Hispanic White	68.5%	74.7%
Black or African American	17.2%	8.0%
Asian	7.0%	5.4%
Hispanic	5.8%	5.8%
American Indian and Alaska Native	0.2%	0.2%
Native Hawaiian and Other Pacific Islander	0.0%	0.0%
Some other race	1.2%	3.4%

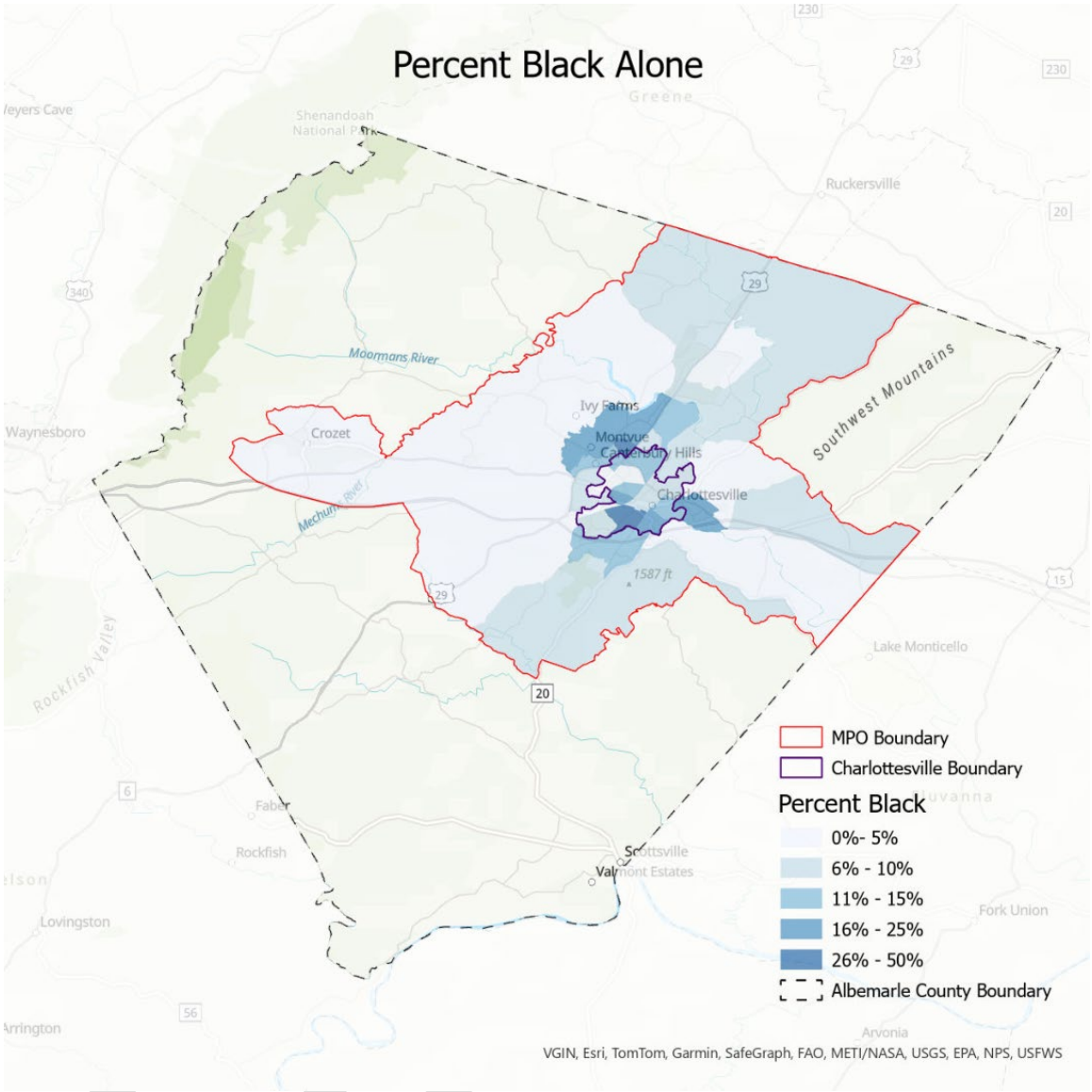
Table 12: Race & Ethnicity. Source: ACS 5-Year Estimates (2022)

The following maps provide a more detailed breakdown of the region's racial/ethnic identity.

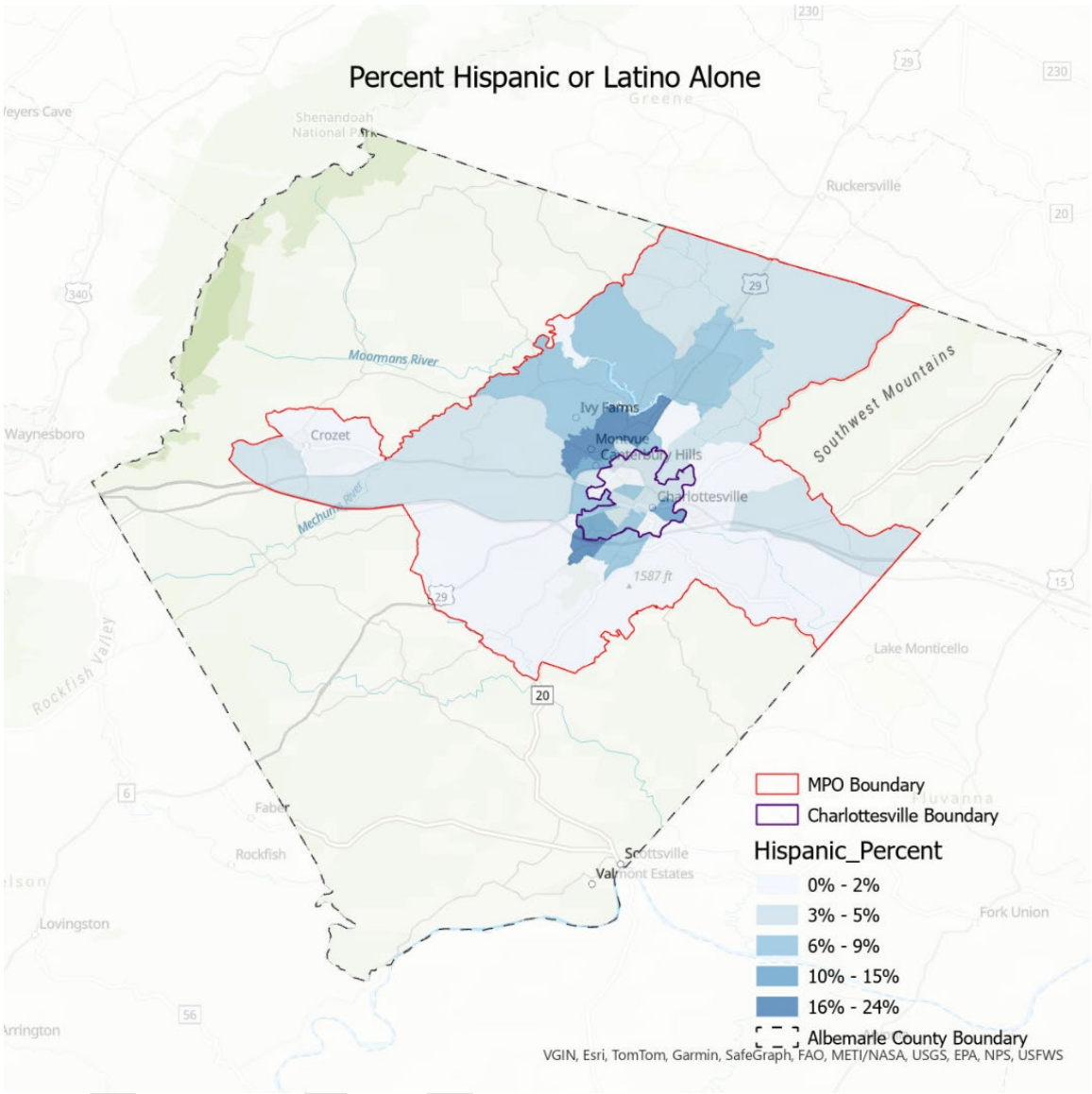
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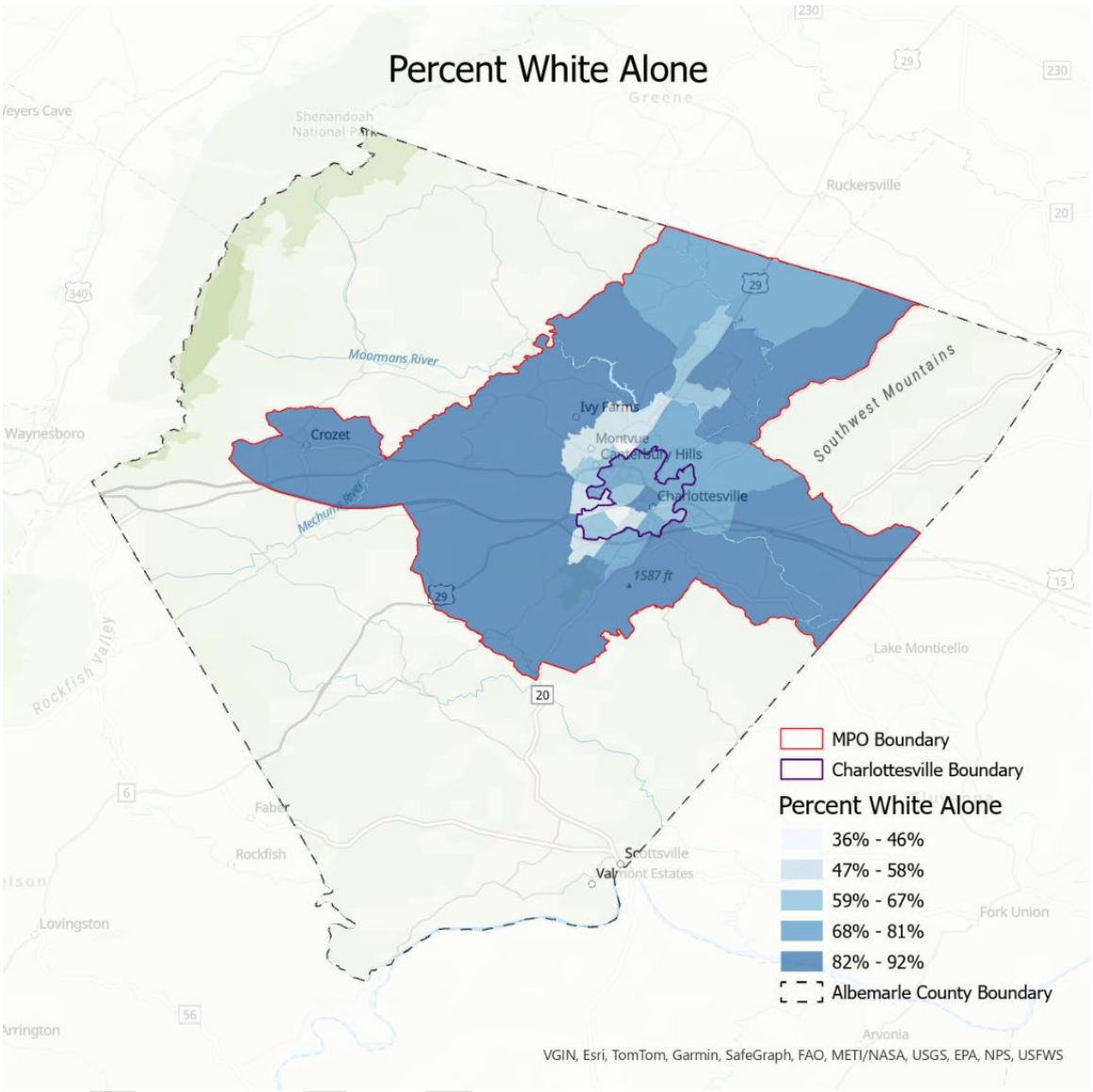
Map 25: Race/Ethnicity - Asian Alone



Map 26: Race/Ethnicity - Black Alone



Map 27: Race/Ethnicity - Hispanic or Latino Alone



Map 28: Race/Ethnicity - White Alone

Age

According to the 2022 American Community Survey estimates, the median age of Charlottesville residents is 32.4 years, which is likely influenced by the university population. The median age of Albemarle residents is notably older, at 38.6 years. According to the U.S. Census Bureau, the national and statewide median age for comparison is 39 years. The age pyramid below highlights the relatively large number of those aged 25-34 and 20-24, which likely reflects the large undergraduate and graduate student body at the University of Virginia.



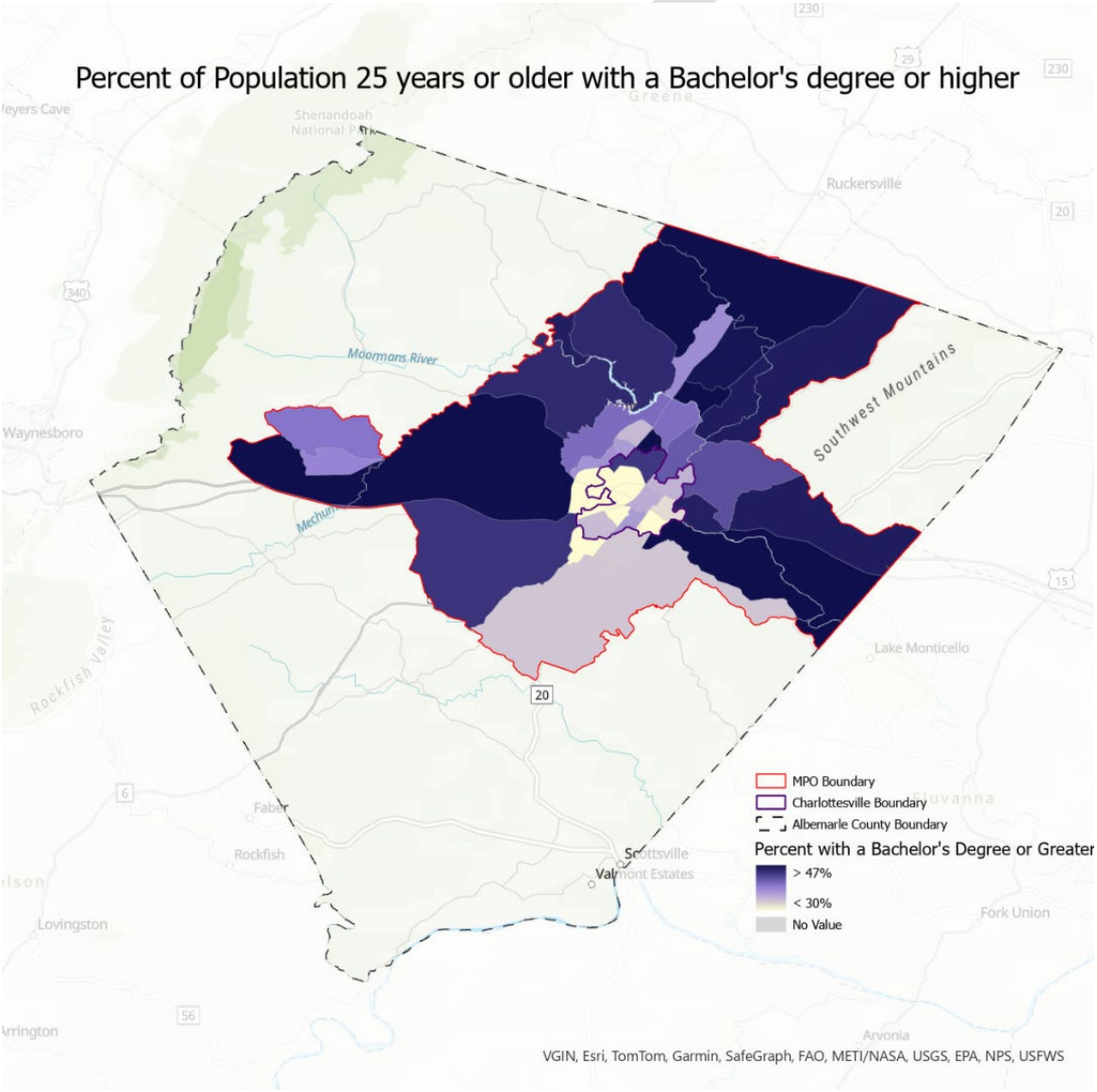
Figure 12: Age Pyramid

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Education

The region is comparatively highly educated. Across the United States, 35.7% of the "25 or older" population has at least a bachelor's degree. In Albemarle County and the City of Charlottesville, this figure is 59.8% and 58.9%, respectively (ACS 2022 5-Year Estimates, Table S1501). This comparatively high proportion of college-educated residents is a significant advantage for attracting certain industries, such as Northrop Grumman's presence in the Charlottesville area and the development of Rivanna Station.

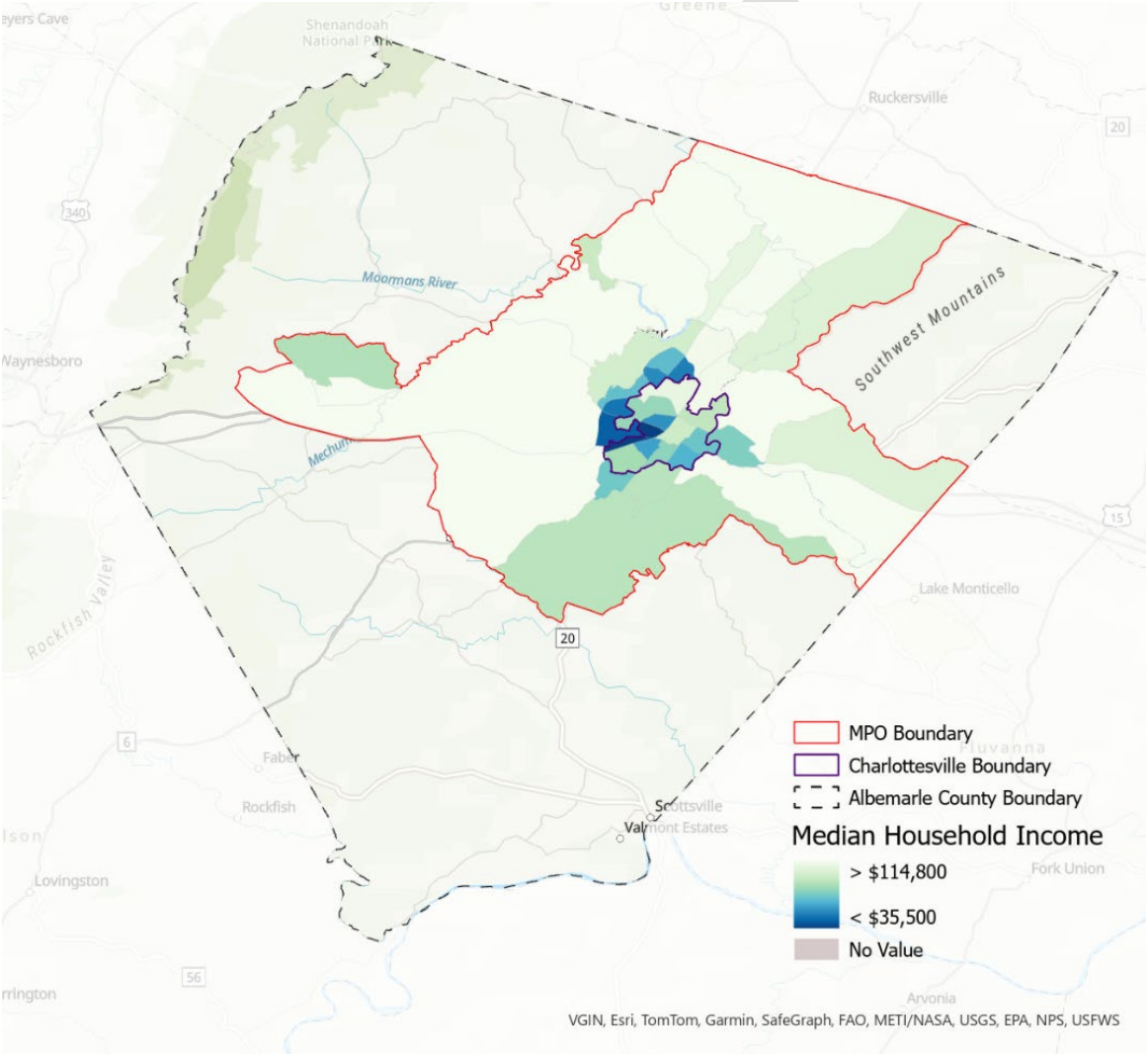
The following map presents the percentage of the total population with a bachelor's degree by Census Block Group according to ACS 2022 5-year estimates.



Map 29: Percent of Population with Bachelor's Degree or Higher

Income

Median household incomes in the United States and Virginia are $74,755 and $85,873, respectively. Median household income in Charlottesville and Albemarle County is $67,177 and $93,691, respectively (ACS 2022 5-year Estimates Table S1901). Despite Charlottesville's high educational attainment, its median household income lags somewhat behind that of the United States and Virginia. Albemarle County, however, out-earns most of the country and Virginia by this metric. In addition, significant geographic disparities in median household income are highlighted on the following map.



Map 30: Median Household Income

Housing

Like much of the United States, the region is in need of more affordable housing. Rents in Albemarle County and Charlottesville were $1,555 and $1,357, respectively, compared to $1,300 in the United States. Home values are also higher in Charlottesville and Albemarle County than across the United States.

The graph below depicts the percentage of renter-occupied housing units by gross monthly rent within Albemarle County and Charlottesville. The plurality (35.1%) of renters pays between $1,000 and $1,499 per month in rent.



Figure 13: Renter-Occupied Housing Units by Gross Monthly Rent. Source: ACS 5-Year Estimates (2022)

Type	Albemarle County	City of Charlottesville
Owner-occupied housing units	27,692	8,262
Renter-occupied housing units	17,486	11,249

Table 13: Housing Tenure. Source: ACS 5-Year Estimates (2022)

Vehicle Ownership

The number of vehicles owned by households is diverse and variable across Albemarle County and Charlottesville. Notably, 5.2% of Albemarle County households and 11.8% of Charlottesville households do not have access to a vehicle. These residents are those most reliant on multimodal alternatives to vehicles. The graph below shows how many vehicles households in the county and city can access.



Figure 14: Vehicle Ownership. Source: ACS 5-Year Estimates (2022)

Economy and Employment

[insert content here]

Specialized Communities

[insert content here]

Responsibilities and Strategies

[insert content here]

Growth Projections

The University of Virginia's Weldon Cooper Center for Public Service produces population estimates and forecasts for Virginia and its jurisdictions. According to the Weldon Cooper Center's most recent estimates, Albemarle County had a population of 115,495 in 2022 and is forecast to grow to 155,102 in 2050. Charlottesville had a population of 51,278 and is forecast to reach 49,691 by 2050.

Jurisdiction	2022	2030	2040	2050
Albemarle County	115,495	124,016	138,523	155,102
City of Charlottesville	51,278	48,920	48,939	49,691

Table 14: Growth Projections. Source: Weldon Cooper Center for Public Service

This would indicate a population growth of 34.3% in Albemarle County from 2022 to 2050 and a population decline of 3.2% in Charlottesville from 2022 to 2050. Combining Charlottesville and Albemarle would yield a 22.8% population increase over the same period, rising from 166,773 to 204,793. Comparatively, the Population of Virginia is expected to grow 21.1% over the same period, with the population increasing from 8,696,955 to 10,535,810.

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Appendix B: Project Review Pages

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Appendix C: Public Participation Record of Input

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Appendix D: VDOT Performance-Based Planning and Programming

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Appendix E: Relationship to Other Plans

Federal Priorities

Transportation Improvement Program

The Transportation Improvement Program (TIP) is a prioritized listing of transportation projects developed by a metropolitan planning organization (MPO), in cooperation with the State, localities, and affected public transportation operators, as part of the metropolitan transportation planning process. The TIP lists transportation projects where federal funding has been committed for implementation. Projects included in the TIP must also be included in the MPO's long-range transportation plan.

The TIP covers a four-year period and is updated every three years. The MPO is responsible for preparing the TIP in coordination with the Virginia Department of Transportation and regional transit providers receiving federal funding.

Statewide Plans

Virginia Six-Year Improvement Program

The Six-Year Improvement Program (SYIP) is the approved plan allocating public spending for transportation projects. The SYIP is approved by the Commonwealth Transportation Board annually, and includes funding allocations for transportation system studies and construction. The SYIP includes all projects that were selected to receive funding through the programs administered by the Virginia Department of Transportation and the Virginia Department of Rail and Public Transportation.

VTrans

VTrans is Virginia's statewide multimodal transportation plan. VTrans establishes the overall vision and goals of the state's transportation system at the direction of the Commonwealth Transportation Board. VTrans uses a ten-year planning horizon to identify mid-term needs. These mid-term needs are used to identify projects that may be eligible for funding through state funding programs such as SMART SCALE, and are intended to inform the prioritization of funding requests.

VTrans also maintains an extensive database known as InteractVTrans for the purposes of identifying, analyzing, and monitoring longer range trends as part of their long-term planning process.

Moving Toward 2050 uses data available through the InteractVTrans dataset in the evaluation of its regional need priorities, and the statewide goals and objectives were considered in the development of the regional priorities.

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Arrive Alive: Virginia 2022-2026 Strategic Highway Safety Plan

Arrive Alive is the required five-year plan for road safety efforts in the state. As a state agency, the Virginia Department of Transportation has adopted a Towards Zero Deaths initiative that supports initiatives identified by multiple federal agencies and national organizations. Arrive Alive provides specific goals and strategies that the state is undertaking in order to achieve the established vision of zero deaths or serious injuries from motor vehicle crashes. The plan establishes an initial goal of reducing motor vehicle-related fatalities and serious injuries 50 percent by the year 2045, and outlines a number of strategies the state is undertaking using a safe system approach, as identified by the FHWA. The safe system approach involves anticipating that humans will make mistakes and considering those mistakes in the design and management of roadway infrastructure to mitigate risk and minimize harm to the human body.

Arrive Alive strategies will inform state priorities and safety performance targets. These strategies could potentially lead to adjustments to state funding priorities, so it is important that the MPO remains aware of the plan and opportunities to align local initiatives with statewide priorities.

Pedestrian Safety Action Plan

Virginia's statewide Pedestrian Safety Action Plan (PSAP) was initially adopted in 2018. The PSAP was developed in response to rising pedestrian fatalities throughout the state and identifies both statewide and regional priority corridors for pedestrian safety improvements, as well as identified countermeasures that should be considered to address major factor areas contributing to pedestrian crashes.

The PSAP is intended to complement other statewide safety planning initiatives such as Arrive Alive, and a companion Map Viewer developed in conjunction with the PSAP report is updated on a biennial basis. Data from the most PSAP Map Viewer is used as part of the transportation system evaluation in the needs and project prioritization.

Statewide Rail Plan

The Statewide Rail Plan was most recently updated in 2022. The plan is encouraged by the Federal Railroad Administration to identify priorities and strategies to enhance rail within each state that benefits the public and guide federal and state rail investments. The Statewide Rail Plan addresses both freight and passenger rail service. Of note, Virginia recently established a new Virginia Passenger Rail Authority (VPRA) that has assumed all responsibility for state-sponsored passenger rail services, and has a stated mission to promote, sustain, and expand the availability of passenger and commuter rail service throughout the state.

An east-west passenger rail connection that would provide a direct connection between Charlottesville and Clifton Forge to the west/Doswell to the east has been identified by VPRA as a priority, and the Statewide Rail Plan reflects the right-of-way acquisition for this rail corridor as a needed infrastructure project. VPRA applied for a grant through the BIL's Corridor Identification and Development Program to develop and scope passenger rail corridor improvements for this Commonwealth Corridor. State efforts to improve this east-west service could be further bolstered

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by local initiatives to enhance and improve the capacity and accessibility of the Charlottesville Amtrak Station.

Electric Vehicle Infrastructure Deployment Plan

The Bipartisan Infrastructure Law (BIL) signed in 2021 allocated $5 billion for the National Electric Vehicle Infrastructure (NEVI) program. Combined with additional funding allocated to the discretionary Charging and Fueling Infrastructure grant program, the goal is to establish a comprehensive network of 500,000 EV chargers nationwide by 2030. The NEVI program requires each state to establish an EV Infrastructure Deployment Plan that prioritizes the installation of EV charging infrastructure along Alternative Fuel Corridors (AFCs). Virginia's NEVI plan was completed in September of 2022, and identified the section of I-64 that passing through Charlottesville as an existing gap in the network of publicly accessible fast-charging EV infrastructure, which means that this section of I-64 is identified among the statewide priorities for deployment of new EV charging infrastructure. As the MPO identifies its priority projects in its long-range transportation plan, consideration for appropriate inclusion of EV charging infrastructure during project identification and scoping could be considered to support the achievement of this established goal.

Transit Plans

Jaunt's Transit Development Plan

The state requires transit agencies that do not serve a census-designated urbanized area and have a bus fleet of fewer than 20 vehicles are required to adopt a Transit Development Plan (TDP) every ten years. Jaunt's service is primarily intended to provide transit service for rural localities outside of the urbanized area, but much of their service is transporting riders to the urbanized areas to access jobs, goods, and services. Jaunt has also historically contracted with Charlottesville Area Transit (CAT) to provide their para-transit services.

TDPs are intended to identify transit service needs and support the planning, execution, funding, and implementation of transit services. The TDP is used to guide funding requests for service improvements, support financial planning for ongoing capital and operational expenses, and facilitate the inclusion of transit service needs in statewide and regional planning initiatives.

Charlottesville Area Transit's Transit Strategic Plan

Transit agencies serving census-designated urbanized areas and with a bus fleet of at least 20 vehicles must complete a Transit Strategic Plan (TSP). The TSP is intended to ensure that transit services are being planned effectively to meet the public transportation needs of the communities in which they operate based on existing funding structures.

While both the TDP and TSP are largely focusing on operating and capital improvements, there may be opportunities to identify infrastructure improvements that could better support effective delivery of public transportation. These infrastructure improvements should be considered in developing the candidate projects and assessing the transportation system needs in the long-range transportation plan.

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Regional Plans

- Transit Vision Plan
- Jefferson Area Bicycle and Pedestrian Plan
- Planning for Affordability

Environmental Plans

- Regional Hazard Mitigation Plan
- Albemarle County Climate Action Plan
- Charlottesville Climate Action Plan

Comprehensive Plans

- Albemarle County Comprehensive Plan
- Cville Plans Together

Small Area Plans

Small Area Plans are intended to provide a long-range vision for the future of a specific community. While similar to Comprehensive Plans in planning for future growth and development, Small Area Plans focus on a much smaller geographic area, allowing for specific needs and recommendations to be developed. Albemarle County has developed a Small Area Plan for each of its growth areas, and the City of Charlottesville has identified priority communities to work with to develop Small Area Plans in the near future.

Listed below are the Small Area Plans that were reviewed as part of this development of the Moving Toward 2050 plan. Transportation recommendations from these plans were considered as transportation priorities when developing the list of potential transportation projects.

- Crozet Master Plan
- Pantops Master Plan
- Places 29 Master Plan
- Urban Rivanna River Corridor Plan
- Southern and Western Urban Neighborhoods Master Plan
- Cherry Avenue Small Area Plan

Transportation Studies

Once a transportation need is identified, stakeholders undertake a more technical study to better understand the specific issues of concern along a corridor and identify potential solutions. Since the previous long-range transportation plan was developed in 2019, several corridor studies have been completed by Albemarle County and VDOT to identify recommended improvements to improve the safety and operations along priority corridors. A list of the transportation studies that were reviewed are listed below.

- North 29 Corridor Study
- Albemarle Transit Expansion Feasibility Study
- Avon Street (Re)Vision

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- Rio Road Corridor Study
- 5th Street Corridor Study
- VDOT Project Pipeline Studies

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VDOT Revised CLRP Budget (referenced on page 67 of draft plan)			
	TIP	**% of Total**	**LRTP (includes Other Federal Funding Categegory)**
Safety and Operational Improvements	$ 243,333,199.00	92.90%	$ 402,970,535.24
Transportation Enhancements	$ 10,365,594.00	3.96%	$ 17,165,881.92
Traffic and Safety Operations	$ 8,237,514.00	3.14%	$ 13,641,687.36
Total	$ 261,936,307.00		**$ 433,778,104.53**
	TIP	**% of Total**	**$1,282,070,953.14**
Bridge Projects	$ 9,624,826.00	12.38%	$ 158,678,934.20
Preventative Maintenance	$ 49,752,817.00	63.98%	$ 820,245,890.66
Bridge Maintenance	$ 18,387,625.00	23.65%	$ 303,146,128.29
Total	$ 77,765,268.00		**$1,282,070,953.14**
Bridge Project Total			**$ 461,825,062.49**