



MINUTES

The September meeting of the Transportation Technical Committee was held on Thursday, September 9, 2021 at 1:30 p.m. at the Roanoke Valley-Alleghany Regional Commission, 313 Luck Avenue, SW, Roanoke, VA.

VOTING MEMBERS PRESENT

David Givens	County of Botetourt
Megan Cronise	County of Roanoke
Will Crawford	County of Roanoke
Wayne Leftwich	City of Roanoke
Ben Tripp, <i>Chair</i>	City of Salem
Anita McMillan	Town of Vinton
Cody Sexton	Town of Vinton
Dorian Allen	Greater Roanoke Trans. Company (Valley Metro)
Frank Maguire	Roanoke Valley Greenway Commission
Michael Gray	Virginia Dept. of Transportation - Salem District

VOTING MEMBERS ABSENT

Mariel Fowler	County of Bedford
Dan Brugh	County of Montgomery
Mark Jamison, <i>Vice Chair</i>	City of Roanoke
Nathan Sanford	Unified Human Serv. Transp. System (RADAR)
Daniel Sonenklar	Virginia Dept. of Rail and Public Transportation

NON-VOTING MEMBERS ABSENT

Kevin Jones	Federal Highway Administration
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RVARC Staff Present: Cristina Finch, Bryan Hill, William Long and Virginia Mullen.

1. WELCOME, CALL TO ORDER, ROLL CALL

Chair Tripp called the meeting to order at 1:30 p.m. and asked Cristina Finch, Secretary to the TTC, to call the roll. Ms. Finch stated that a quorum was present.

2. APPROVAL OF CONSENT AGENDA ITEMS

The following consent agenda items were distributed earlier:

- A. September 9, 2021 RVTPO Meeting Agenda
- B. August 12, 2021 TTC Minutes

Motion: by Anita McMillan to approve items (A) and (B) under the consent agenda, as presented; seconded by Megan Cronise.

TTC Action: Motion carried unanimously.

3. **CHAIR REMARKS**

Chair Tripp announced that today is his last TTC meeting, after sixteen years of serving on the Committee and regrets not being able to serve longer. He has accepted a new position with the Town of Christiansburg. According to Section 6 of the TTC Bylaws “A vacancy in the office of Chair or Vice Chair shall be filled for the unexpired term at an election during the next TTC meeting following occurrence of the vacancy, except that no such action shall be taken unless placed on the agenda mailed or electronically communicated to all members”. Chair Tripp appointed Megan Cronise and Michael Gray to serve on the Nominating Committee and to propose a nominee(s) to fill the remainder of his two-year term ending in July 2022. The bylaws also state that the Vice Chair shall serve as a Chair in the absence of the Chair, therefore Mr. Jamison will serve as the Chair at the October 14, 2021 TTC meeting. If any member is interested in serving, they should contact the nominating committee. The election of the new Chair will be held at the next meeting.

Chair Tripp noted that one of the goals as a Chair he had was to run the meetings smoother. He is happy to have accomplished that goal.

Anita McMillan introduced the new Greenway Commission coordinator Mr. Frank Maguire. Mr. Maguire stated he was excited to have been selected as the new Greenway Commission coordinator and looks forward to working with this group.

4. **RECOMMENDATION ON AMENDMENT #4 TO THE ROANOKE VALLEY TRANSPORTATION PLAN**

Cristina Finch presented the staff report describing the changes in the draft Amendment #4 to the Roanoke Valley Transportation Plan. Ms. Finch distributed the updated marketing brochure for members to view since it wasn't included in the agenda packet. Ms. Finch also noted that the Aviation Drive project was listed twice in the document therefore she removed one of the references. Also, the Greenway Connection Riverland Road Project was listed in the summary table at the beginning of the document, but Ms. Finch removed it since it is already included in Appendix A. There were also several other small clarifications. The document has been already reviewed by the Policy Board and has been advertised for public comment. Mr. Sexton commented that the process this time around was a lot better compared to the one in 2017.

Motion: by Cody Sexton to recommend to the RVTPO Policy Board the approval of Amendment #4 to the Roanoke Valley Transportation Plan with staff presented changes; seconded by Wayne Leftwich.

TTC Action: Motion carried unanimously.

5. **CONTINUED DEVELOPMENT OF THE UPDATE TO THE RONOAKE VALLEY TRANSPORTATION PLAN**

David Jackson and Sarah Windmiller from Cambridge Systematics presented how they prioritized transportation needs; Rachel Ruhlen presented the prioritization of Access needs.

An adjusted weighting was presented compared with what was provided in the agenda packet. TTC members were asked to review the methodology and the draft prioritized needs and provide feedback to staff. Ms. Finch shared current activities to update the planning process and integrate performance as being developed with the OIPI GAP grant and Michael Baker consultant team. (The PowerPoint presentation is included with the Minutes.)

Mr. Leftwich asked to look at the spreadsheet from the presentation to see how the weighting works. Ms. Finch responded that the spreadsheet was included in the staff report but staff plans on sending an updated version to the TTC members as well.

Mr. Gray asked what version of the document will be presented to the Policy Board. Ms. Finch replied that details will not be provided yet, just a general update on the project.

Mr. Gray asked for clarification on the mentioned objectives under GAP. Ms. Finch clarified that the GAP team is helping staff build the performance based process and one element of that is developing objectives.

6. OTHER BUSINESS

A. Analysis of "SMART SCALE Round 4"

William Long presented the "Analysis of SMART SCALE Round 4" that was previously distributed with the agenda packet. Discussion ensued. Cristina Finch also reminded the TTC members that the deadline to submit the SMART SCALE submission request form is Friday, November 12, 2021.

B. Update on FY23 and FY24 Transportation Alternatives Set-Aside Block Grant Program Application

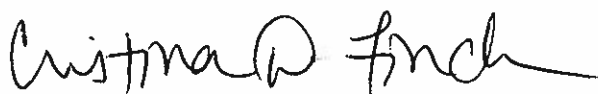
Cristina Finch reported that pre-applications for the TA program have been submitted and the full applications are due October 1, 2021. Staff have received notice that two projects were submitted for RVTPO: Williamson Road Pedestrian Improvement Project, City of Roanoke and Glade Creek Greenway Vinyard West, Roanoke County. Both projects are around half a million dollars each and included in the Amendment #4 to the Roanoke Valley Transportation Plan.

7. COMMENTS BY MEMBERS AND / OR CITIZENS

Cody Sexton thanked Chair Tripp for his service.

9. Adjournment

The meeting was adjourned at 3:00 p.m.



Cristina D. Finch, AICP, LEED AP, Secretary,
Transportation Technical Committee

Roanoke Valley Transportation Plan Update

Priority Needs – Findings and Next Steps

presented to
Transportation Technical Committee

presented by
Cambridge Systematics, Inc.

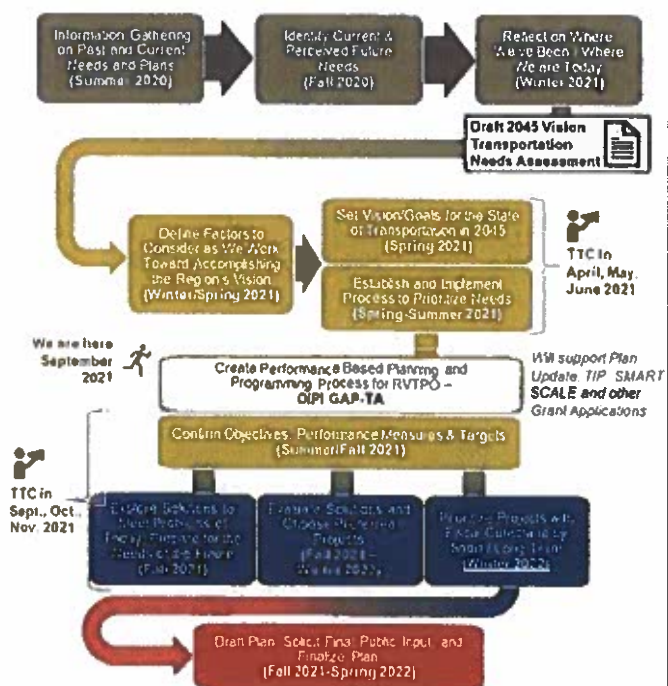


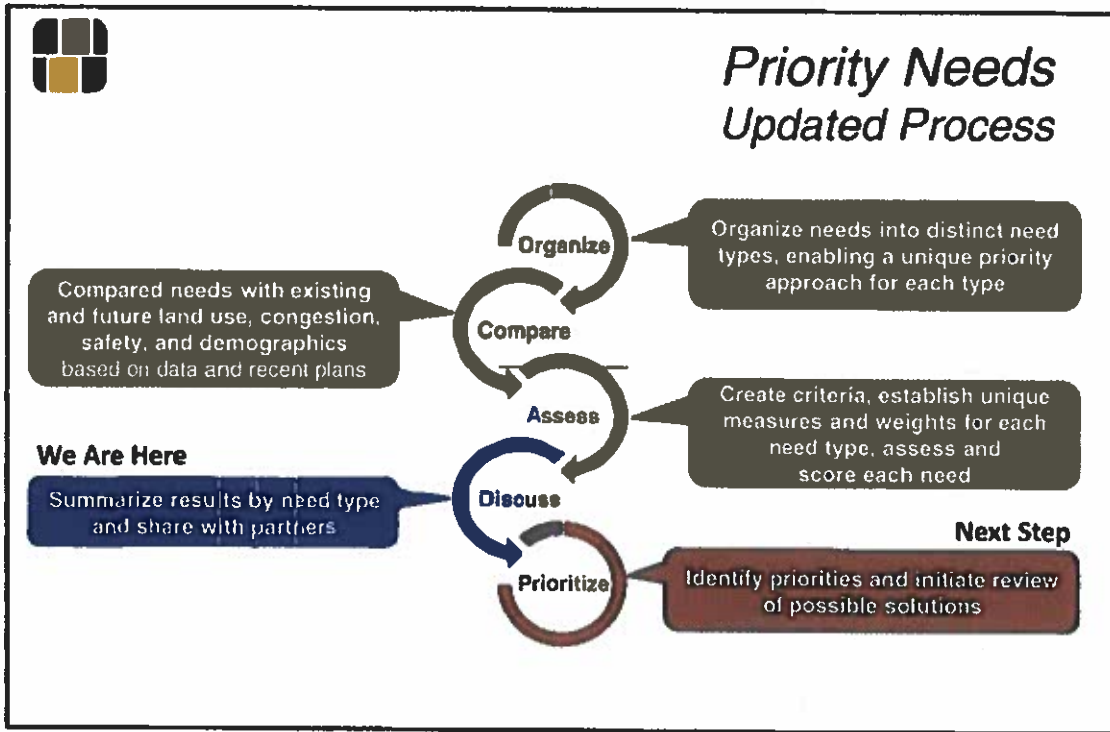
Priority Needs

Purpose – Use readily available data representing Plan goal areas to assess the importance of each need

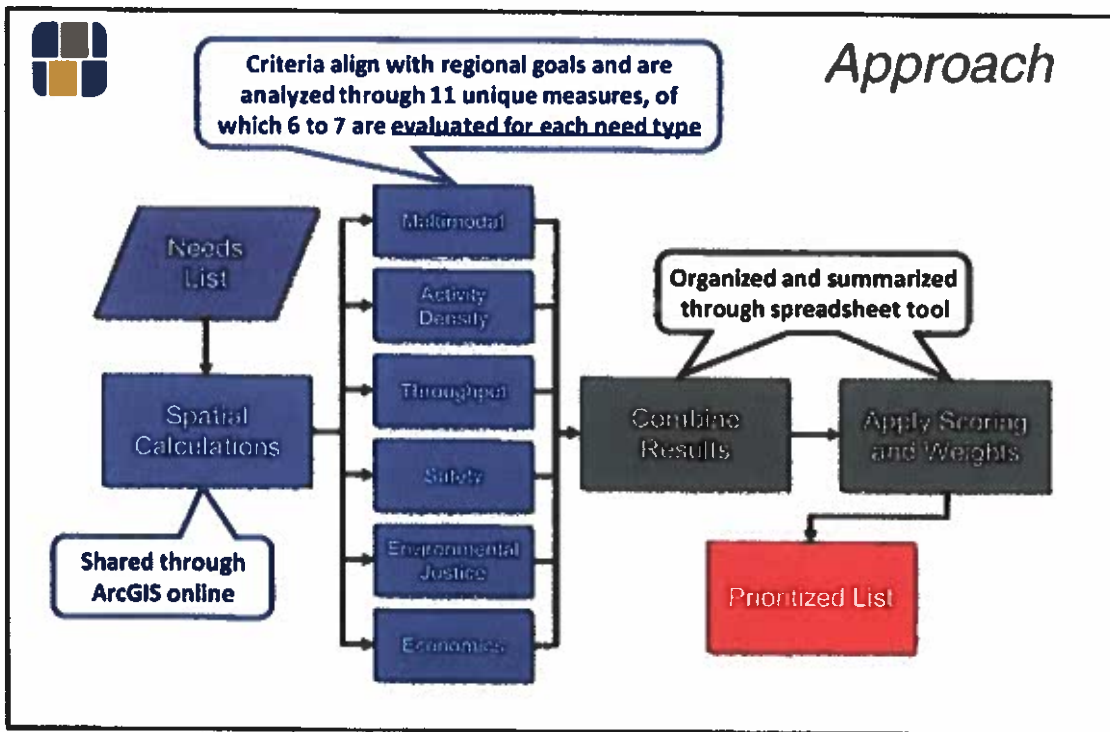
Outcome – Priority list of needs, by need type, that RVTPO and the TTC can review to decide where to focus attention on solutions for possible inclusion in the Roanoke Valley Transportation Plan

This approach is a tool to inform decisions by regional planning partners on the next steps of the planning process, helping ensure that the Plan addresses the region's most critical needs while helping to meet goals





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Criteria and Measures

Theme	Description
Data and Plan Focused	
Multimodal	Overlap with designated multimodal centers and/or districts
Activity Density	Overlap with current (2019) and future (2045) combined population and employment density within the need area by Traffic Analysis Zone (TAZ)
Throughput	Overlap with the change in need area vehicle miles traveled (2019 to 2045) and overlap with identified priority corridors from Congestion Management Process
Safety	Overlap with potential for safety improvement (PSI) locations identified in Roanoke Valley Regional Transportation Safety Study and priority non-motorized safety needs from the VDOT pedestrian safety action plan (PSAP)
Environmental Justice	Overlap with regional equity emphasis areas as identified by VTrans
Economics	Overlap with future development priority location as identified through the recent Transportation and Economic Development study and/or with designated Urban Development Areas (or growth areas)

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Weighting

Optional safety need type weighting

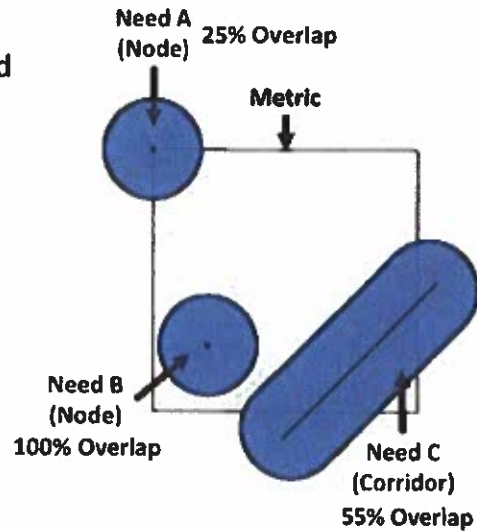
Criteria & Measures	Multimodal		Activity Density		Throughput		Safety		Environmental Justice	Economics	
	Centers	District	2019	2045	Priority Corridor	VMT Change	Urban Needs (PSI)	PSAP	Equity Emphasis Areas	Development Priority Locations	Urban Development Areas
Vehicle Safety			5	5		20	50		20	5	5
Pedestrian Safety	5	5		10				50	20	5	5
Bicycle Safety	5	5		10				50	20	5	5
Transit Safety	5	5		10				50	20	5	5
Congestion			15	15		15			25	15	15
System Management			12.5	12.5	12.5	12.5			25	12.5	12.5
System Management (Transit)	10	10		20		20			20	10	10
Access	Different approach relying on mostly a qualitative review										

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Spatial Calculations (GIS Analysis)

- **Spatial Analysis**
 - Indicates if metric applies to each need
- **Based on Overlap with Metric**
 - 1/8th mile buffer applied to each need
 - Analysis calculates overlap amount
- **Exception with Activity Density and VMT**
 - Activity Density
 - Weighted proportional overlap
 - VMT
 - Percentile of VMT Growth
- See *Needs Prioritization Methodology* document for more information

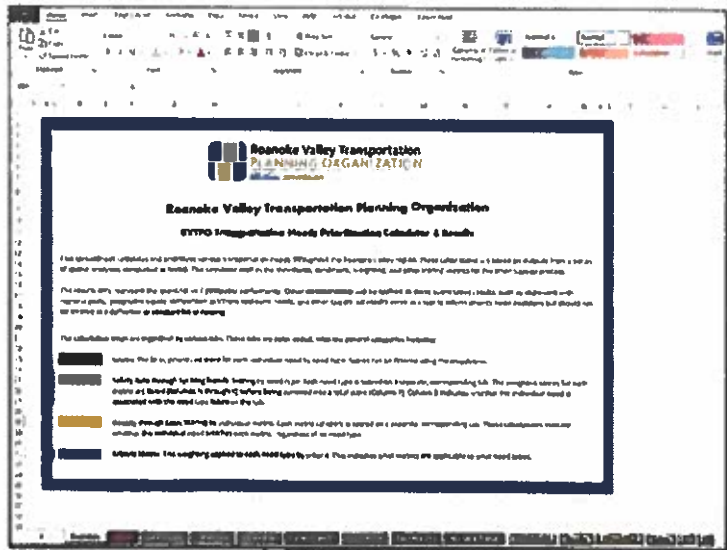


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Spreadsheet Tool

- **Needs Priority Calculator**
 - Results from spatial calculations
 - Assigns need type
 - Applies weights
 - Calculates scores



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Calculations

Criteria Matrix

Weighting applied to each criteria and need type

Need Type	Weighting									
	Costs	Quality	Time	Flexibility	Reliability	Efficiency	Effectiveness	Equity	Accessibility	Integration
1. Provide a safe and secure 3 dimensional model	1	1	1	1	1	1	1	1	1	1
2. Create an all dayway	1	1	1	1	1	1	1	1	1	1
3. Offer a convenient and affordable access to destinations	1	1	1	1	1	1	1	1	1	1
4. Reduce environmental impact	1	1	1	1	1	1	1	1	1	1
5. Increase and improve the quality and use of the transport system	1	1	1	1	1	1	1	1	1	1
6. Support transport mode	1	1	1	1	1	1	1	1	1	1
7. Provide facilities to support on board	1	1	1	1	1	1	1	1	1	1
Total Weighting	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

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Calculations

Metric Scoring

GIS Analysis Results

Metric	Costs	Quality	Time	Flexibility	Reliability	Efficiency	Effectiveness
1. Provide a safe and secure 3 dimensional model	100%	100%	0%	0%	0%	0%	0%
2. Create an all dayway	100%	100%	0%	0%	0%	0%	0%
3. Offer a convenient and affordable access to destinations	100%	100%	0%	0%	0%	0%	0%
4. Reduce environmental impact	100%	100%	0%	0%	0%	0%	0%
5. Increase and improve the quality and use of the transport system	100%	100%	0%	0%	0%	0%	0%
6. Support transport mode	100%	100%	0%	0%	0%	0%	0%
7. Provide facilities to support on board	100%	100%	0%	0%	0%	0%	0%

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Calculations

Needs Scoring

Scoring from all metrics, with weighting

	Safety (red)	Contour Overlay (orange)	Utility Overlay (orange)	Building Access (green)	Future Activity (green)	Priority Overlay (green)	VMT (orange)	Safety Needs Score (blue)	Final (blue)
1	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	0	0	0
39	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0	0	0
42	0	0	0	0	0	0	0	0	0
43	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0

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Calculations

Final Score

Final, prioritized score

	Single Location (blue)	Double Location (blue)	Road (blue)	Safety (red)	Safety (red)	Safety (red)	Safety (red)	Cong (blue)
1	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	0	0
39	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0	0
42	0	0	0	0	0	0	0	0
43	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0

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Weighting – Access Needs

Criteria & Measures				
Need Type	Affected	Severity	Environmental Justice	Total
Access (Transit)	5	5	2	12
Access (Not transit)	5	5	2	12

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Access Needs Example Criteria Considerations

Mode	What is here?	Does this affect # of people, the severity of lack of access, or environmental justice?
All modes	Government services	<ul style="list-style-type: none"> Severity – many government services are essential and available in only one place (i.e. a courthouse), lack of access is high severity
All modes	Essential services	<ul style="list-style-type: none"> Severity – necessary but may be available in multiple locations (i.e. a grocery store or health clinic), lack of access is moderate severity
All modes	Retail, services	<ul style="list-style-type: none"> Severity – may not be necessary and may be available in multiple locations, lack of access is low severity <ul style="list-style-type: none"> Number of people Environmental justice (low wage jobs)
Transit	Bus service	<ul style="list-style-type: none"> Severity – No existing bus service is high severity, existing bus service without sidewalks is moderate severity, existing bus service without other amenities is low severity
Motor vehicle	Average Annual Daily Traffic	<ul style="list-style-type: none"> Number of people

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Questions to Consider

As you review the approach and the results, consider the following:

- Are there any criteria and/or measures that we have missed (where data is readily available)?
- Do the measures for each need type and the weights make sense (e.g., do the highest weighted measures best identify the most critical aspects of the need type)?
- For each need type, do the results make sense? Do the needs in the top tier generally align with your perspective/opinion for the region or your jurisdiction?
- Do the results appear unbalanced or biased based on geography, development type, or corridor type?

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Next Steps

- **TTC review of needs prioritization results through 9/17**
 - Submit comments/questions/ideas directly through RVTPO staff
- **Present priority needs to Policy Board (9/23)**
- **Develop and review Draft objectives**
 - Consistent with process developed by GAP team
- **GAP team outlines process to develop solutions**
- **Next TTC meeting (October 14th)**
 - Reach conclusion on Needs Prioritization outcomes
 - Review Draft objectives
 - Discuss solution development process

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