

May 6, 2022

MEMORANDUM

TO: Members, Transportation Technical Committee
 FROM: Cristina Finch, AICP, LEED AP, Secretary to the Transportation Technical Committee
 SUBJ: May 12, 2022 TTC Meeting/Agenda

The May meeting of the Transportation Technical Committee (TTC) will be held Thursday, May 12, 2022 at 1:30 p.m. at the Roanoke Valley-Alleghany Regional Commission office (Top Floor Conference Room), 313 Luck Avenue, SW, Roanoke, VA.

TTC AGENDA

1. Welcome, Call to Order *Chair Jamison*
2. Roll Call (including consideration of remote participation) *Chair Jamison*
3. **Action Requested:** Approval of the Consent Agenda items: *Chair Jamison*
 - A. Approval of the Agenda
 - B. Action on the April 14, 2022 TTC Minutes, pp. 2 – 11
4. Chair’s Remarks *Chair Jamison*
 - Appointment of Nominating Committee
5. Continued Development of the Roanoke Valley *Cristina Finch & Sarah Windmiller,*
 Transportation Plan, pp. 12 – 17 *Cambridge Systematic*
6. Consideration of Draft Amendment #2 to the FY 2021-2024 Transportation..... *Bryan Hill*
 Improvement Program
7. Consideration of Additional Allocation of FY 2023-2024 Transportation *Bryan Hill*
 Alternatives Set-Aside Funds
8. Other Business
9. Comments by TTC Members and/or Citizens
10. Adjournment (by 2:45 p.m.)

TPO POLICY BOARD: Cities of Roanoke and Salem; Counties of Bedford, Botetourt, Montgomery and Roanoke;
 Town of Vinton; Greater Roanoke Transit Company (*Valley Metro*); Roanoke-Blacksburg Regional Airport;
 Virginia Department of Rail & Public Transportation; Virginia Department of Transportation

MINUTES

The April meeting of the Transportation Technical Committee was held on Thursday, April 14, 2022 at 1:30 p.m. at the Roanoke Valley-Alleghany Regional Commission, 313 Luck Avenue, SW, Roanoke, VA.

VOTING MEMBERS PRESENT

Mariel Fowler	County of Bedford
David Givens	County of Botetourt
Jonathan McCoy	County of Botetourt
Megan Cronise	County of Roanoke
Will Crawford	County of Roanoke
Wayne Leftwich	City of Roanoke
Mark Jamison, <i>Chair (via zoom)</i>	City of Roanoke
Crystal Williams	City of Salem
Anita McMillan	Town of Vinton
Cody Sexton, <i>Vice Chair (via zoom)</i>	Town of Vinton
William Long	Greater Roanoke Transit Company
Frank Maguire	Roanoke Valley Greenway Commission
Michael Gray	Virginia Dept. of Transportation - Salem District
Daniel Wagner (<i>via zoom</i>)	Virginia Dept. of Rail and Public Transportation

VOTING MEMBERS ABSENT

Dan Brugh	County of Montgomery
Nathan Sanford	Unified Human Serv. Transp. System (RADAR)

NON-VOTING MEMBERS ABSENT

Kevin Jones	Federal Highway Administration
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RVARC Staff Present: Cristina Finch, Bryan Hill, Andrea Garland, Emma Howard-Wood, Alison Stinnette, Jonathan Stanton, and Virginia Mullen.

Others Present: Anthony Ford, Virginia Department of Transportation – Salem District (via zoom); David Jackson, Cambridge Systematics (via zoom).

1. WELCOME, CALL TO ORDER

Chair Jamison called the meeting to order at 1:30 p.m.

2. ROLL CALL (including consideration of remote participation)

Cristina Finch, Secretary to the TTC, called the roll and stated a quorum was present.

TPO POLICY BOARD: Cities of Roanoke and Salem; Counties of Bedford, Botetourt, Montgomery and Roanoke; Town of Vinton; Greater Roanoke Transit Company (*Valley Metro*); Roanoke-Blacksburg Regional Airport; Virginia Department of Rail & Public Transportation; Virginia Department of Transportation

Chair Jamison reported that Mr. Daniel Wagner, representing the Virginia Department of Rail and Public Transportation, requested to participate remotely in today's meeting of the Roanoke Valley Transportation Technical Committee under the "RVTPO Written Policy for Electronic Meeting Participation," allowing for remote participation because of member's principal residence is 60 miles or more from the meeting location and a physical quorum is present. Chair Jamison asked if there were any objections. None were voiced. The request was approved by unanimous consent.

3. **ACTION REQUESTED: APPROVAL OF CONSENT AGENDA ITEMS**

The following consent agenda items were distributed earlier:

- A. April 14, 2022 RVTPO Meeting Agenda
- B. March 10, 2022 TTC Minutes

Motion: by Wayne Leftwich to approve items (A) and (B), under the consent agenda, as presented; seconded by Cody Sexton.

TTC Action: Motion carried unanimously.

4. **CHAIR REMARKS**

- Chair Jamison reported that the Regional Commission has hired four new staff members – two transportation planners, one regional planner, and one public engagement manager. The two transportation planners that will be working closely with the TTC are Jonathan Stanton, who has relocated from San Diego, and Alison Stinnette who is from the Roanoke Valley and is graduating in May from VT with her master's degree.
- Senator Warner was in Roanoke this past Tuesday and spoke about the Infrastructure Law. Several upcoming discretionary grant programs might be of interest to members - staff sent a link to all members earlier today.
- Chair Jamison stated that also on Tuesday, Delegate Terry Austin, Mike Stewart (Airport Executive Director), and Dr. Ray Smoot addressed transportation and priorities at a Chamber event in Vinton. Extending one of the airport's runways most likely over I-581 was the most notable desired investment mentioned for our region. The next few months will be important in the transportation planning process to prioritize other big needs and how to address them in our region.

5. **CONTINUED DEVELOPMENT OF THE ROANOKE VALLEY TRANSPORTATION PLAN**

Cristina Finch reported that the RVTP plan development team continues to implement the new performance-based planning process being developed by the OIPI CAP-TA team to define common transportation solutions, determine priority gap needs, and identify potential solutions. As implementation of this process continues to be refined, the team is also focusing attention on how current efforts will support development of both the RVTP list of fiscally constrained projects and the Transportation Improvement Program (TIP).

Ms. Finch noted that the focus of today's discussion is to demonstrate how the Transportation Plan and the Transportation Improvement Program (two core products of the RVTPO) relate to each other. Mr. David Jackson from Cambridge Systematics and Cristina Finch presented an update on the Roanoke Valley Transportation Plan's development (the PowerPoint presentation is included with the Minutes).

Mr. Michael Gray commented on slide #3 of the presentation and stated that the Six-Year Improvement Program (SYIP) gives a project life (allocation document), the TIP (obligation document) is just responsive to it. Mr. Gray asked how that would be used as a tool? Ms. Finch replied that staff is working with a team of other MPO folks, DRPT and VDOT staff to clarify those relationships because all the MPOs in Virginia will be creating the FY24-27 TIP next fiscal year.

Ms. Megan Cronise commented on slide #4 of the presentation and asked why not put the focus on the Six-Year Improvement Plan since it is the harder part? Ms. Finch replied that the focus is on determining the most important things that need to be worked on and pursued in the next five years for future SYIPs.

6. **ACTION REQUESTED: RECOMMENDATION ON DRAFT FY23 UNIFIED PLANNING WORK PROGRAM**

Cristina Finch reported that every year, the RVTPO Policy Board approves a Unified Planning Work Program (UPWP) to identify the transportation planning activities the RVTPO will undertake in the next fiscal year. The draft UPWP was presented at the March meeting. Budget information has been included in the final version, distributed with the agenda. An additional \$86k was received from FHWA PL and \$33k from FTA 5303 through the Infrastructure Investment and Jobs Act (IIJA) for planning activities. With state and local matches, this amounts to approximately \$148k. Without this funding the new FHWA PL funding would have been down \$36k over last year. The additional funds will be used towards future budget contingency, planning consultant assistance, and RVTPO staffing.

Michael Gray asked who decides which tasks from the UPWP have priority and how is that being monitored. Ms. Finch replied that the guiding element will come from the plan that is being developed and outlines the prioritized projects and solutions. She also added that the guidance received from the TTC and Board is also guiding the work program activities.

Chair Jamison asked if it would be appropriate to ask for a quarterly report that tracks the progress of the completion of tasks. Ms. Finch replied that she will discuss it with Jeremy Holmes. Ms. Finch added that staff submits quarterly reports with invoices to VDOT (for PL funds) and VDRPT (for 5303 funds). Mr. Gray replied that it may be helpful to provide a report with key things that are happening within the work program to which Ms. Cronise agreed.

Motion: by Cody Sexton to recommend to the Policy Board the approval of the FY23 Unified Planning Work Program, as presented; seconded by Frank Maguire.

TTC Action: Motion carried unanimously.

7. OTHER BUSINESS

Cristina Finch reported that there are additional roughly \$163,000 TA funds available to the RVTPO. She asked members to let her know if there are current TA projects that are needing additional funding.

Cristina Finch commented that one of the links that was sent to members this morning references SMART grants and suggested members to look it over.

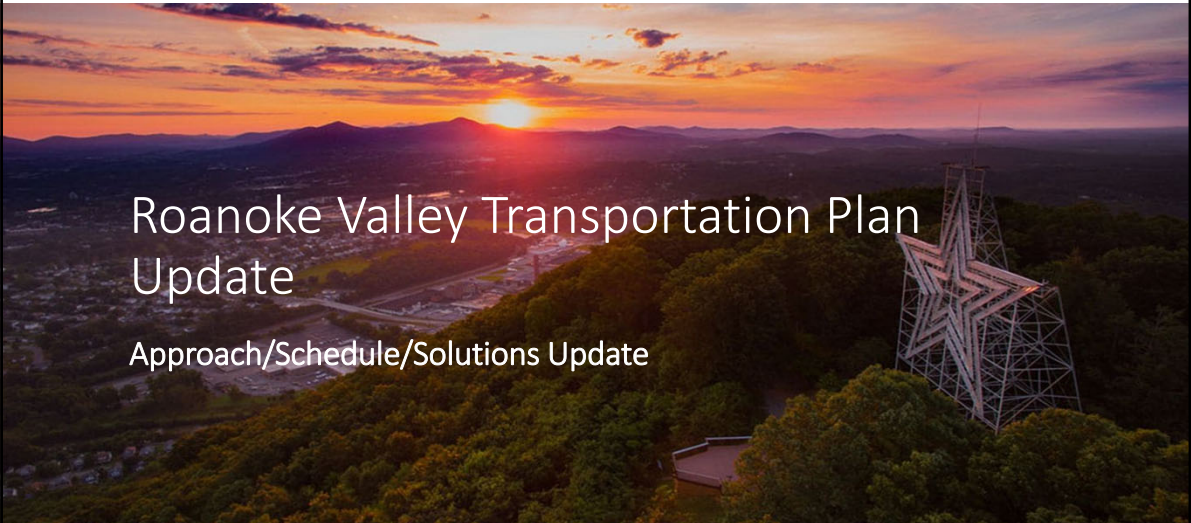
8. COMMENTS BY MEMBERS AND / OR CITIZENS

No comments were made.

9. ADJOURNMENT

The meeting was adjourned at 2:34 p.m.

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



Roanoke Valley Transportation Plan Update

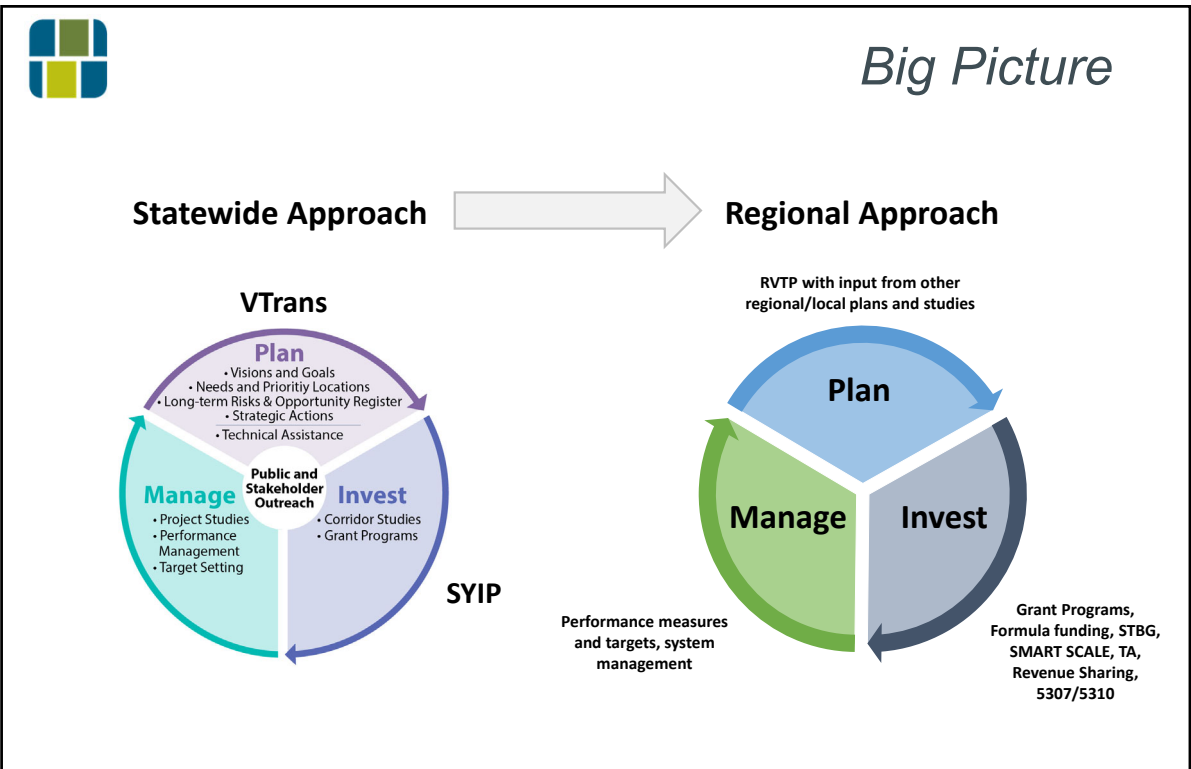
Approach/Schedule/Solutions Update

presented to
Transportation Technical Committee

presented by
RVTPO, Cambridge Systematics, Inc.



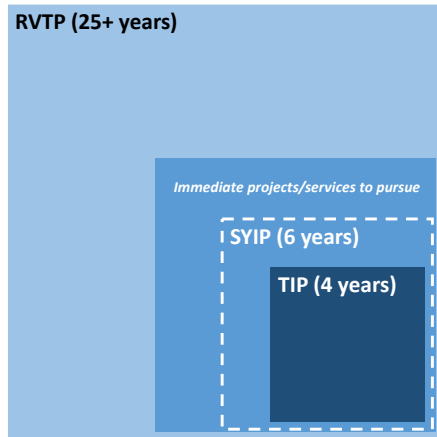
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2



RVTP & TIP



RVTP: Next 10 to 25+ years

Focus for all needs, future factors, goals

- Track regional trends/future factors, risks and opportunities
- Conduct long-range planning/visioning efforts
- Monitor changing needs

RVTP: Current to 10 years

Focus for priority needs, solutions, and projects

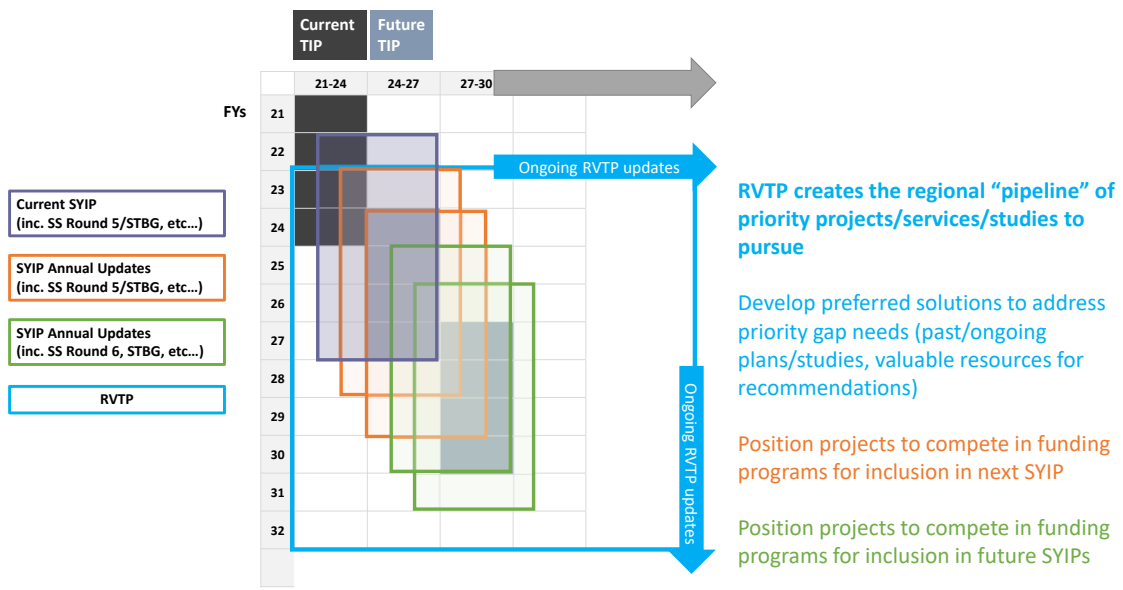
- Prioritize studies for priority gap needs
- Prioritize solutions to develop into projects/services to compete for funding (SMART SCALE, Revenue Sharing, TA, STBG, 5307/5310, etc...) in annual budget, SYIP development cycles
- Position projects/services to compete for Federal discretionary grants

3

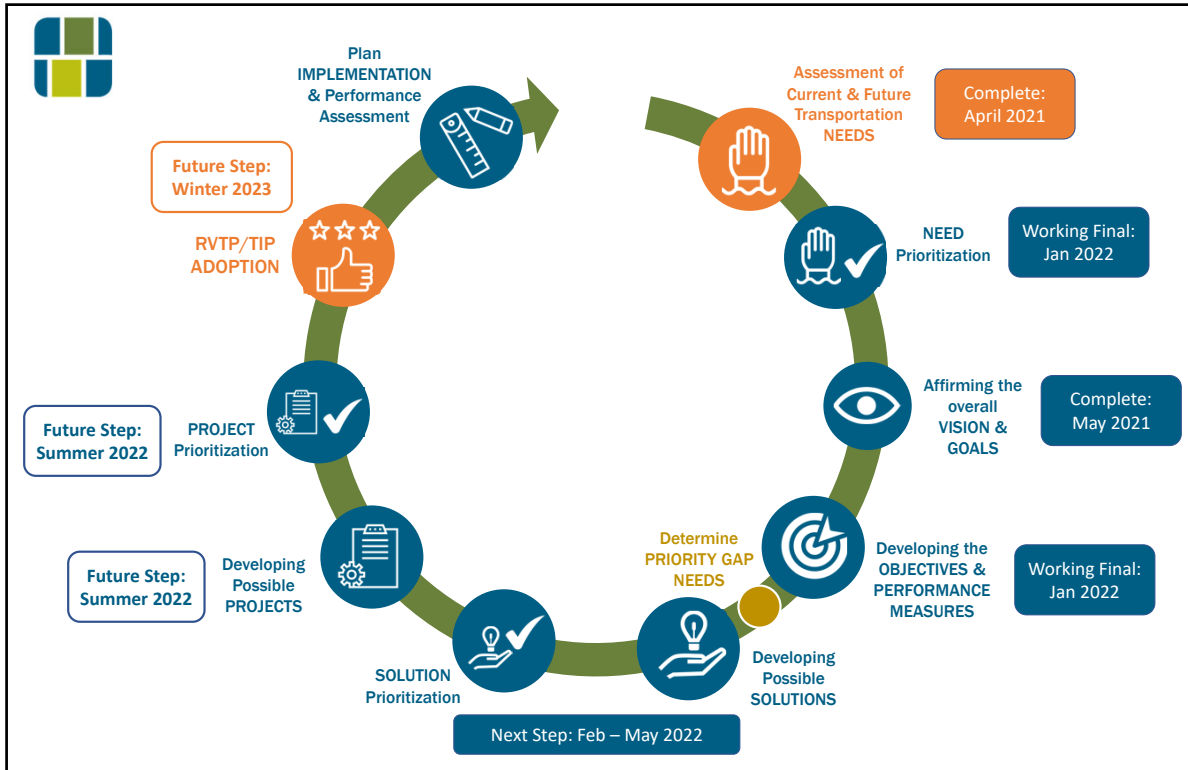


RVTP & TIP Timing

Next Ten-Year Timeline



4



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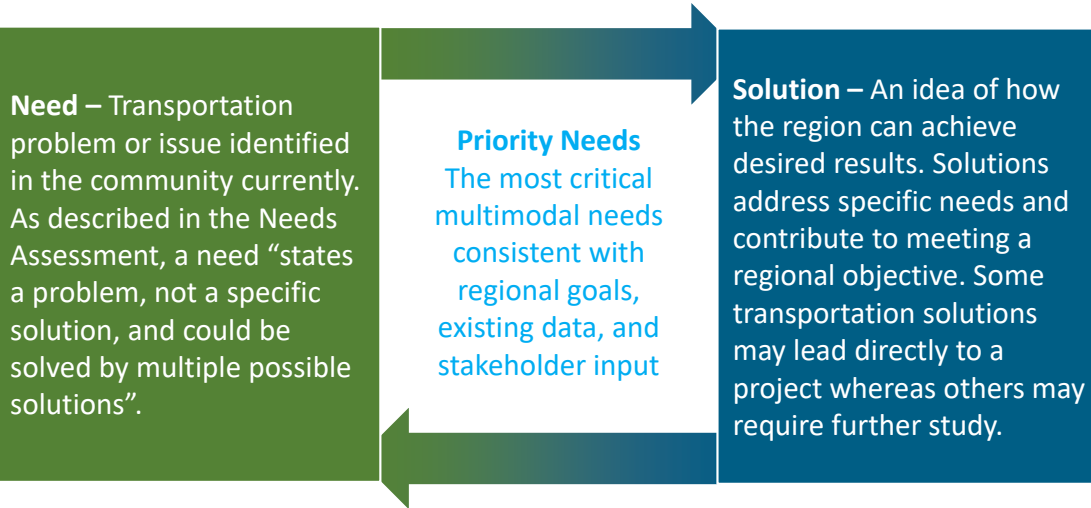
RVTP Schedule (DRAFT)

April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	
Performance-Based Planning and Programming (PBPP) Process										
RVTP Prioritization	RVTP Templates	Finalize GAP-TA materials		Final Review						
RVTP Planning Process										
Develop priority gap needs and initial solutions	Refine solutions for priority gap needs	Finalize solutions and projects for RVTP inclusion based on priority needs & goals								
RVTP Documentation/Outreach/Adoption Process										
		Policy Board (solutions)			TTC / Policy Board (Draft Plan)			TTC / Policy Board (Final Plan)		
		Develop RVTP First Draft			Develop RVTP Final Draft			Public Comment	Public Hearing	TTC Rec. and Policy Board Approval

6



Needs to Solutions



7



Needs to Solutions

Addressed Need – For many needs, proposed solutions and projects/services exist

Need addressed through a programmed (funded) project/service (SYIP/TIP)

Monitor performance outcomes once project/service is implemented

Gap Need – Focus on priority needs where potential solutions or projects/services do not exist (or are not fully funded)

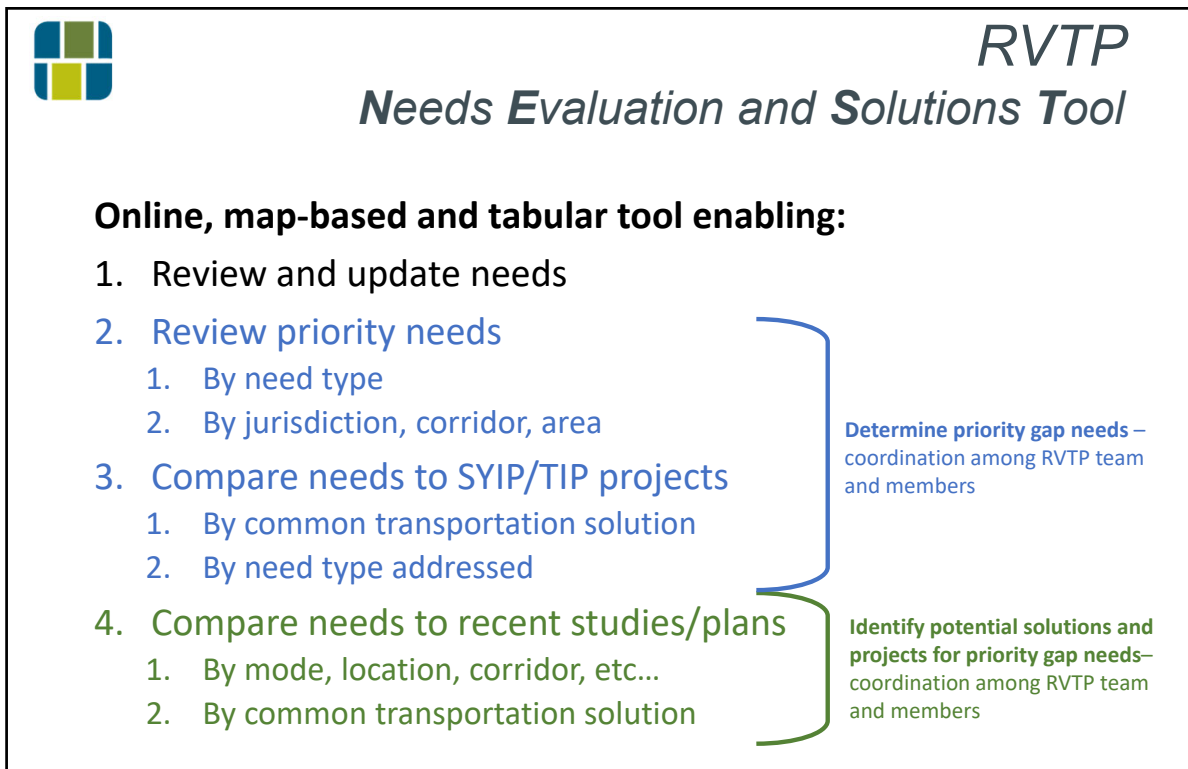
Funded project/service does not yet exist – but an unfunded, proposed project or concept and/or study might exist

Identify potential and preferred solutions to further develop into projects/services (or future studies)

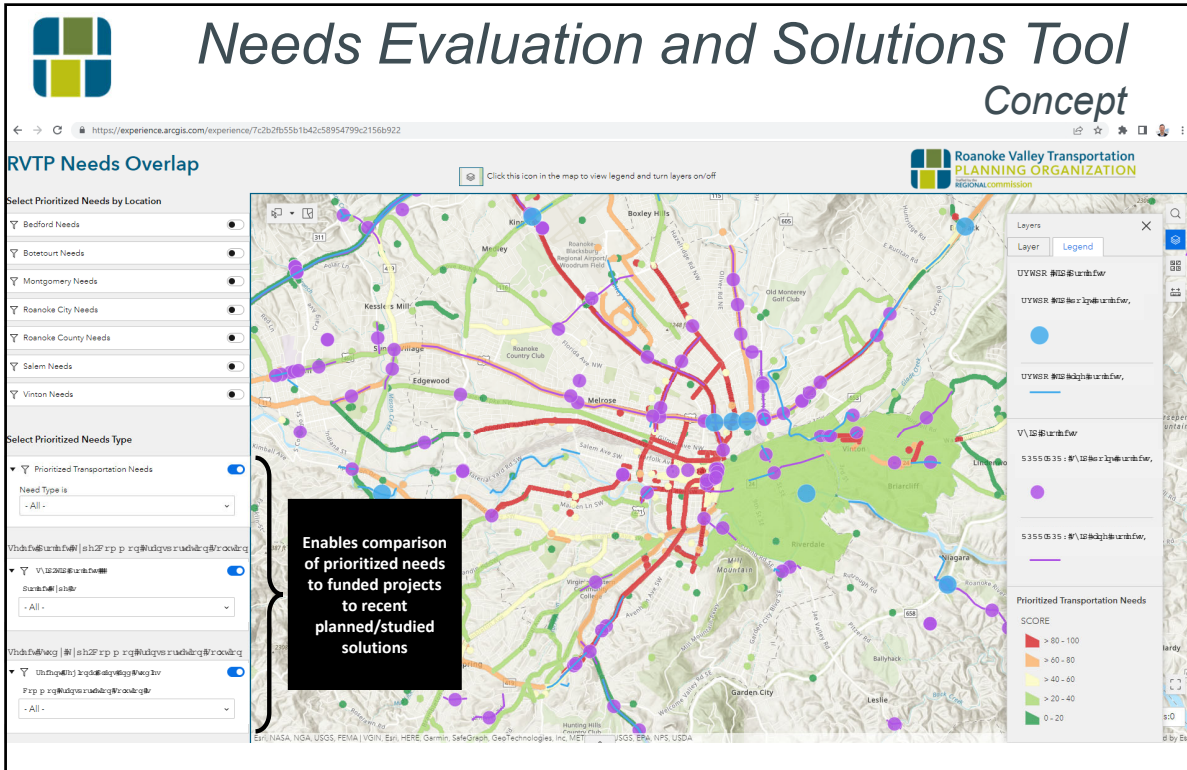
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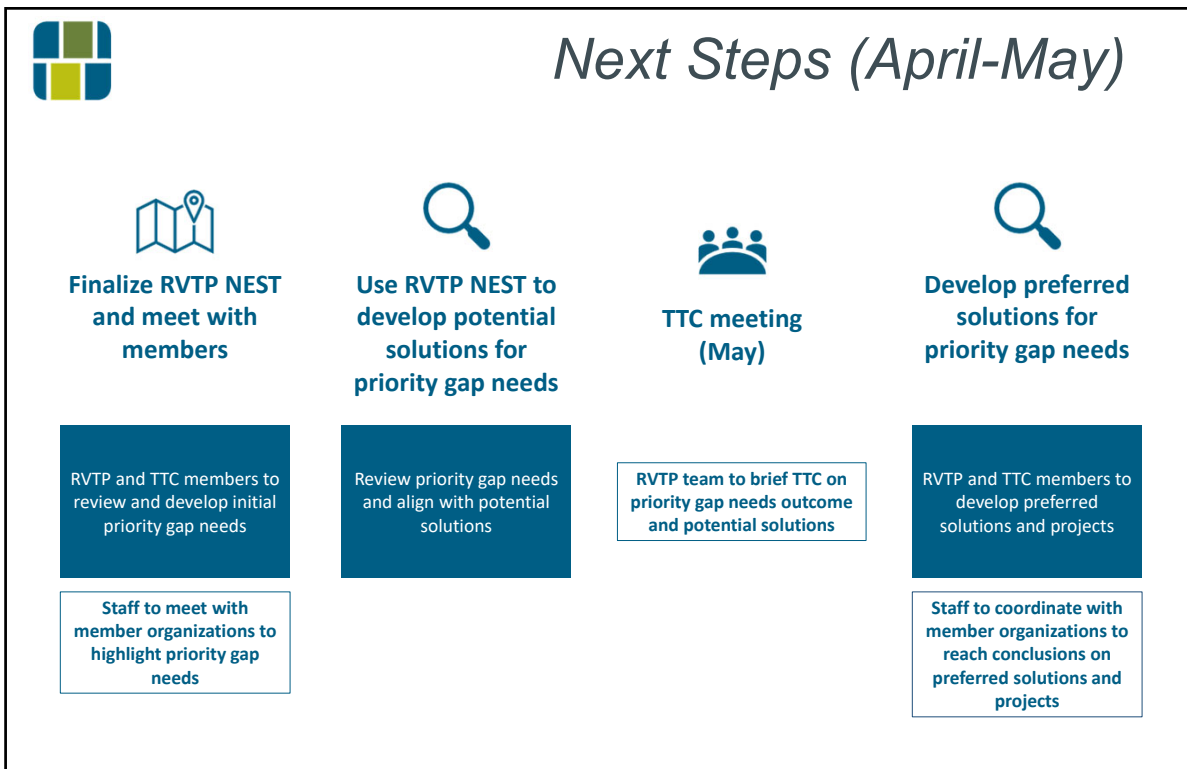
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STAFF REPORT
TTC Meeting May 12, 2022
SUBJ: Continued Development of the Roanoke Valley Transportation Plan

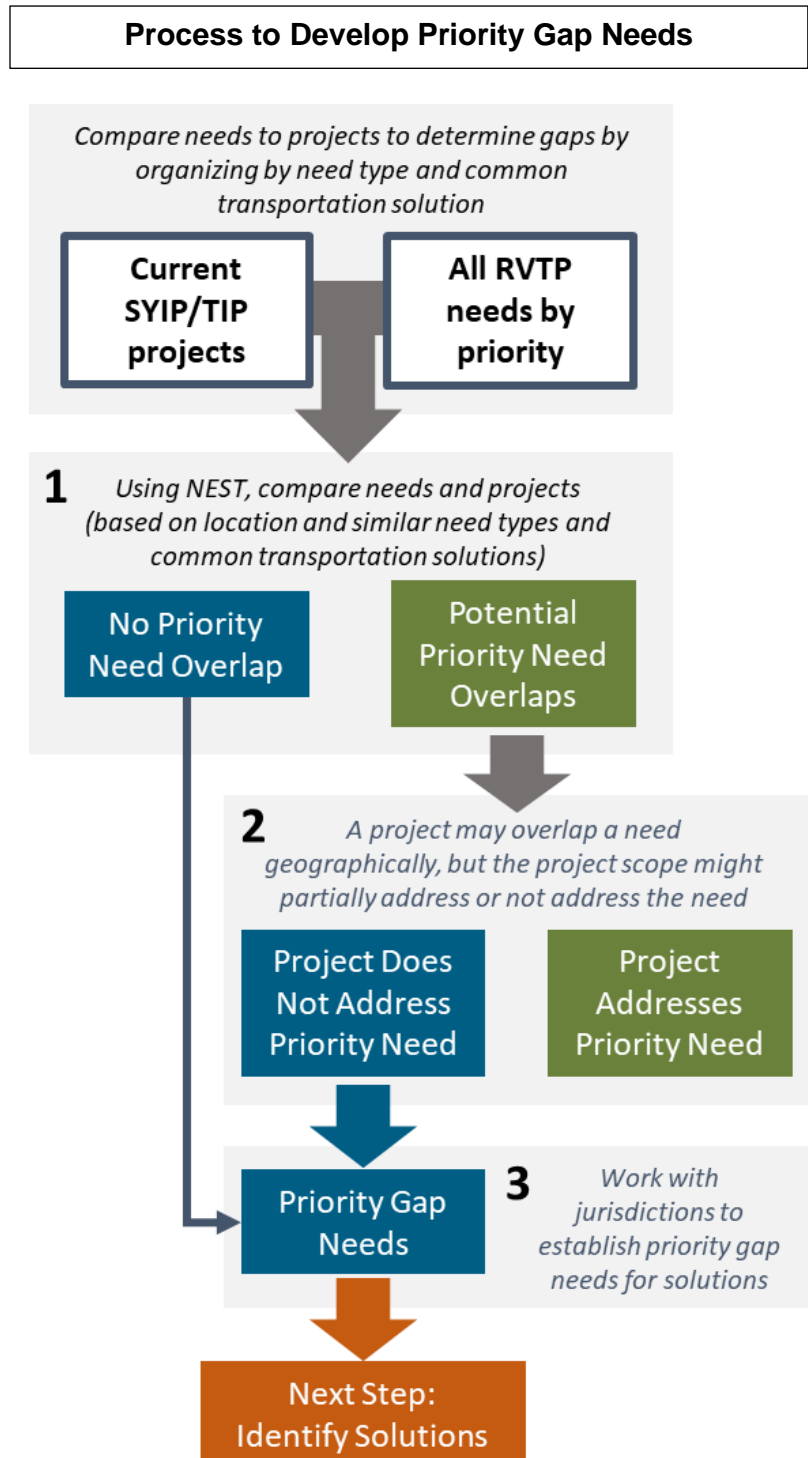
The RVTP plan development team continues to implement the new performance-based planning process being developed by the OIPI GAP-TA team to define common transportation solutions, determine priority gap needs, and identify potential solutions. The RVTP team has developed an on-line, map-based tool to facilitate these steps of the RVTP development process with TTC members, referred to as the Needs Evaluation and Solutions Tool, or NEST.

1. Compare Needs to Projects

The NEST enables comparison of RVTP needs with projects/services in the six-year improvement program (SYIP) and RVTPO transportation improvement program (TIP). Project information includes scope, while also identifying the need type(s) addressed and the common transportation solution(s) included. Needs information includes all details from the needs assessment, including the needs priority outcome.

2. Determine Overlaps

The NEST enables comparison of transportation needs to the programmed projects/services to inform decisions on if needs are or are not addressed by these transportation investments. The outcomes of this review will include a list of needs that are addressed by projects/services and a list of priority needs that are partially or not addressed.



3. Identify Priority Gap Needs

The RVTP team will collaborate directly with each member organization to review the comparison and determine the overlaps. This will lead to a priority gap needs list within each RVTPO jurisdiction, representing a subset of all needs from the needs assessment. Depending on jurisdiction size and number of needs, the number of priority gap needs will vary. Also, the RVTP team and member organizations will keep the process flexible, identifying lower priority needs as priority gap needs listed as needed based on people's perspectives on regional priorities.

Needs that may be gaps, but are not considered priorities, will be retained in the tool and documented within the RVTP, however will not (at least for this initial implementation of this new process) be considered within the solutions development process for this version of the RVTP.

Proceed to Identify Potential Solutions

Solutions are ideas of how the region can achieve desired results. Solutions address specific transportation needs and contribute to meeting a regional objective. The solutions process will consider prior programmed projects/services, planned projects/services (from the existing RVTPO constrained and vision list projects past plans/studies, and ongoing plans/studies such as STARS or Project Pipeline). Recommended projects and services from completed plans/studies have the potential to be mapped for inclusion in a future iteration of the NEST, enabling a comparison of priority gap needs to these efforts. Where these recent and ongoing planning efforts are anticipated to address the priority gap need, the RVTP team will utilize the OIPI GAP-TA team's suggested solutions prioritization process to prioritize these solutions into the next phase of developing and prioritizing projects. Members may also consider any other unique transportation or non-transportation solution to address the need that may not have been raised during the plan/study process.

If there is no recent or ongoing planning effort addressing the priority gap need, the RVTP team will work from the common transportation solutions list to develop a set of options to address the need and consider the applicability of unique transportation or non-transportation solutions to address the need. Where there is no obvious preferred solution, or additional study needs to be conducted, the RVTP will identify these needs as opportunities for additional future analysis as part of the ongoing transportation planning process.

Translate Solutions into Projects/Services/Studies

Solutions will evolve into projects/services for consideration by the RVTPO as priority investments to pursue. For the RVTP, these projects/services will represent those that address the highest priority needs. These projects/services may be considered ready to compete for grant funding and hopeful inclusion in the forthcoming updates to the SYIP and TIP. Alternatively, the projects/services could represent priorities for further development as a project/ service over the next several years in order to prepare it for a future grant cycle.

Where there are needs that require more in-depth study/analysis, the plan will record it as such. These efforts could be pursued by the RVTPO and its local and state partners and may be noted within future unified planning work programs. The results of these studies may become projects that are included in future RVTPs, compete for funding and reflected within future SYIPs and TIPs.

Next Steps

- The draft NEST tool is available for use here:

https://experience.arcgis.com/experience/7c2b2fb55b1b42c58954799c2156b922/?data_id=ataSource_4-1808b1ada5b-layer-9%3A41

A user guide for the NEST is included on the following pages.

- Over the coming weeks, the RVTP team will meet with each member organization to compare needs and projects, identify gap and addressed needs, and reach decisions on priority gap needs (using the NEST to inform these meetings and decisions).
- Once each organization reaches agreement on priority gap needs, the RVTP team and each member organization will then use the NEST to compare priority gap needs to recommended projects and services as a means to develop solutions.

TTC Action: None.

RVTP Needs Evaluation and Solutions Tool – NEST

Version 1 User Guide

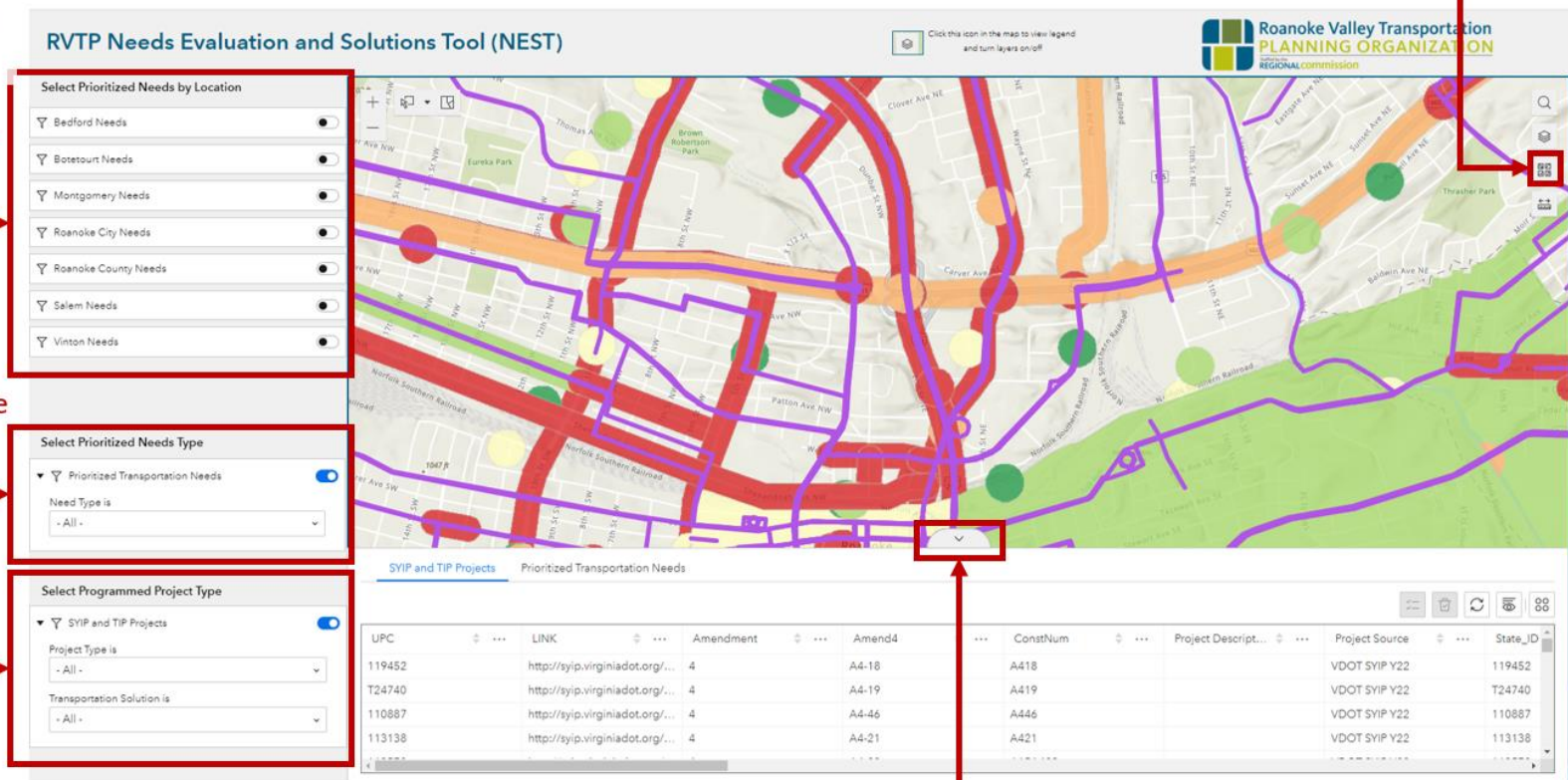
View legend and layers
 (see next page)

Toggles apply to
 both the map
 and table

Toggle location
 of needs

Toggle need type

Toggle project type
 and/or solution



RVTP Needs Evaluation and Solutions Tool (NEST)

Select Prioritized Needs by Location

- Bedford Needs
- Botetourt Needs
- Montgomery Needs
- Roanoke City Needs
- Roanoke County Needs
- Salem Needs
- Vinton Needs

Select Prioritized Needs Type

Prioritized Transportation Needs

Need Type is

- All -

Select Programmed Project Type

SYIP and TIP Projects

Project Type is

- All -

Transportation Solution is

- All -

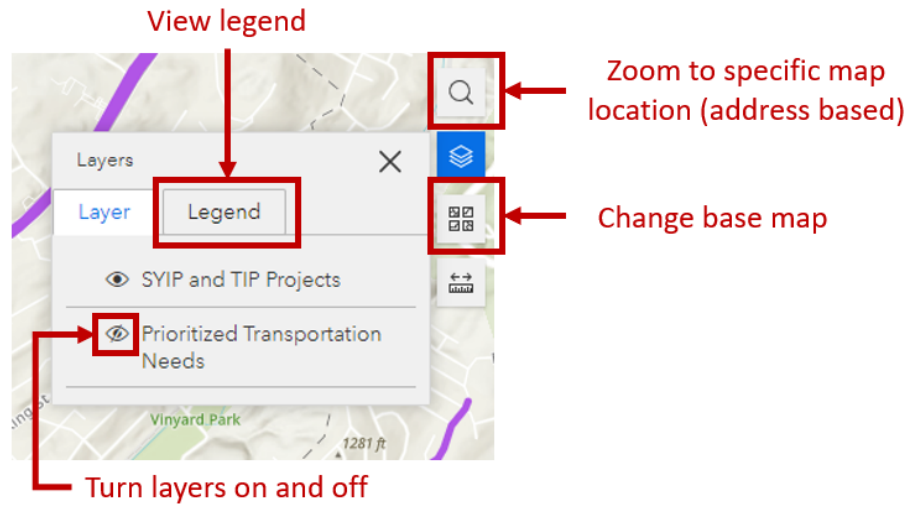
UPC	LINK	Amendment	Amend4	ConstNum	Project Descript...	Project Source	State_ID
119452	http://syip.virginiadot.org/...	4	A4-18	A418		VDOT SYIP Y22	119452
T24740	http://syip.virginiadot.org/...	4	A4-19	A419		VDOT SYIP Y22	T24740
110887	http://syip.virginiadot.org/...	4	A4-46	A446		VDOT SYIP Y22	110887
113138	http://syip.virginiadot.org/...	4	A4-21	A421		VDOT SYIP Y22	113138

Expand / collapse table

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RVTP Needs Evaluation and Solutions Tool – NEST

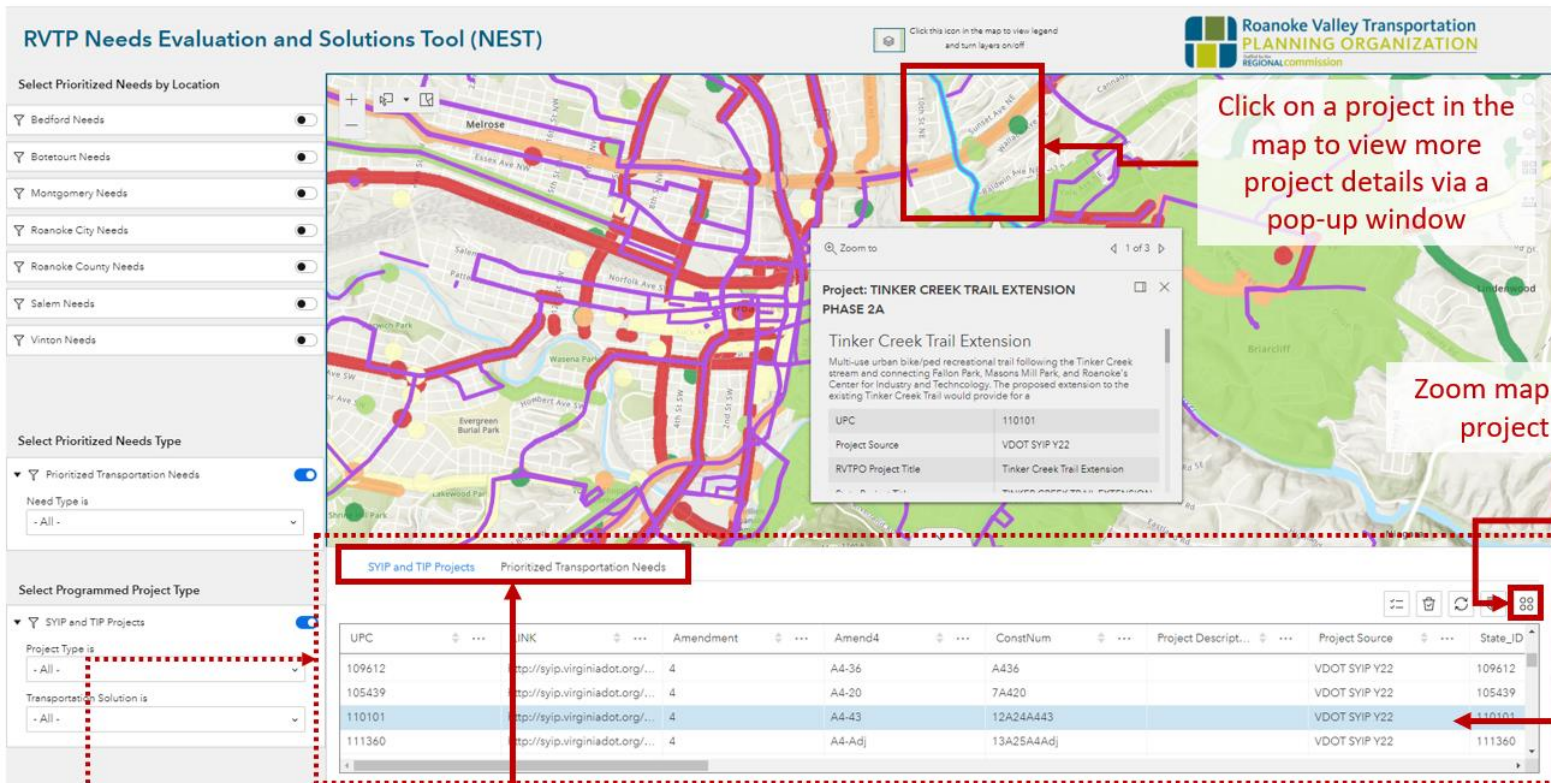
Version 1 User Guide



DRAFT 05/05/2022

RVTP Needs Evaluation and Solutions Tool – NEST

Version 1 User Guide



The screenshot displays the RVTP Needs Evaluation and Solutions Tool (NEST) interface. On the left, there are three filter panels: 'Select Prioritized Needs by Location', 'Select Prioritized Needs Type', and 'Select Programmed Project Type'. The main area features a map of Roanoke, Virginia, with various transportation projects overlaid in different colors. A red box highlights a specific project on the map, with a red arrow pointing to a pop-up window titled 'Project: TINKER CREEK TRAIL EXTENSION PHASE 2A'. The pop-up window provides details about the project, including its description, UPC (110101), Project Source (VDOT SYIP Y22), and RVTPO Project Title (Tinker Creek Trail Extension). Below the map is an attribute table with columns for UPC, URL, Amendment, Amend4, ConstNum, Project Description, Project Source, and State_ID. A red box highlights the table's header and the row for UPC 110101. A red arrow points from the highlighted row in the table to the pop-up window. Another red arrow points from the map to the table, indicating that projects selected in the map are highlighted in the table. A third red arrow points from the table back to the map, indicating that projects selected in the table are highlighted on the map.

Click on a project in the map to view more project details via a pop-up window

Zoom map to selected project in table

Project details are also available in the attribute table

Switch attribute table to different layer

**Projects selected in map are highlighted in the attribute table
Additionally, projects selected in the table are highlighted on the map**

UPC	URL	Amendment	Amend4	ConstNum	Project Description	Project Source	State_ID
109612	http://syip.virginia.gov/...	4	A4-36	A436		VDOT SYIP Y22	109612
105439	http://syip.virginia.gov/...	4	A4-20	7A420		VDOT SYIP Y22	105439
110101	http://syip.virginia.gov/...	4	A4-43	12A24A443		VDOT SYIP Y22	110101
111360	http://syip.virginia.gov/...	4	A4-Adj	13A25A44Adj		VDOT SYIP Y22	111360

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