3. LRTP Process Update

Task 1.0:
2045 Long Range Growth Forecast Analysis Report

Task 1.1:
RTC Model Development
2045 Long Range Growth Growth Forecast Analysis Report

1. Based on 2017 and 2045 Socioeconomic Data approved by RRTPO policy Board in September 2019.
2. The document examines historical trends as well as anticipated future growth for socioeconomic indicators like population, households and employment.
3. Delineates Regional Activity Centers based on TAZ level data.
4. Environmental Justice datasets based on ACS for the base year developed. Data needed for Task 5.1 Environmental Justice Analysis and Task 5.2 Accessibility Analysis.
RTC Model Development

1. Development of the new Richmond/Tri-Cities (RTC) Travel Demand Model updated to a base year 2017 and a future year of 2045 is now completed.

2. Important tool for ConnectRVA 2045
   - Identify future capacity needs for the regional highway and transit network (Task 1.2)
   - Measure system performance measures (Task 3)
   - Project Prioritization and Scoring (Task 4.0)
   - Accessibility Analysis (Task 5.2)
   - Impact of different land uses changes and different Investment priorities in Scenario Planning parallel process of the LRTP (Task 6)
Richmond Regional Transportation Planning Organization

SUPPORTED BY PlanRVA
4. LRTP Process Update

Task 1.2: Transportation Needs Assessment
Task 1.2 Transportation Needs Assessment

Identify regional and local multimodal transportation issues based on

- Congestion
- Safety issues
- Lack of interconnectivity
- Operational problems
- Maintenance Issues
- Inadequate roadway/transit capacity
- Transit expansion
- Accessibility
- Other issues (travel demand management, transportation system resiliency and economic development, etc.)

and establish LRTP-specific Regional Transportation Needs
Transportation Issues Identification

- Staff Review of Regional and Local Plans and Studies
- Richmond/Tri-Cities Travel Demand Model Runs
- LRTC-AC Additions
- Public Input
Transportation Issues Identification

- List Sent to LRTP-AC (April 1st)
  - 531 LRTP Specific Issues
  - 127 VTRANs Issues
  - 272 Other Issues
    - Policy/Program
    - Transportation Study
    - Local and Programmatic Issues

- Public Input (Feb–April 15th)
  - 135 Issues
    - Wikimaps
    - Real Estate Agents Transportation Survey
    - Community Meetings
Transportation Issues Identification

- Formal Public Review Period
  - 1089 Issues
  - May 5th – May 20th
  - 11 Comments on the website
  - Comments addressed if directly related to the issue inventory.
  - Other comments to be addressed during the course of the plan.
Disclaimer

• Issues are not transportation projects
• Some of the capacity related issues and underlying needs were based on desktop engineering analysis. Factors like availability of Right of Way, relocating of utilities or political will of the locality to move forward with the project have not been considered.
• The above factors would be considered when we convert the issues into logical transportation projects in Task 3.
The Long Range Transportation Plan (ConnectRVA 2045) Advisory Committee approves the Local and Regional Transportation Needs Inventory as presented by RRTPO staff.
Richmond Regional Transportation Planning Organization

Supported by PlanRVA, The Regional Commission
5. LRTP Process Update

Task 2: Vision, Goals and Objectives: Introduction
Work Scope

- To develop vision and goals for the LRTP.
- Also, to develop objectives within each goal and performance measure which could measure the objective. The performance measures would feed into Task 4.0 Project Selection, Prioritization Process and Scoring.
Framework

1. Introduction and discussion in LRTP-AC Meeting
2. Public Outreach
3. Development of Vision, Goals, Objectives by Staff
4. Basic framework for performance measures developed by staff to feed in Task 4.0
5. Introduction and discussion in the Policy Board Meeting
6. Approval LRTP AC
7. Formal Public Review Period
8. Approval Policy Board
Vision

The vision statement will describe Richmond region’s transportation aspirations in a concise manner, focus on what is really important, and provide a foundation for all other aspects of the plan.
2031 LRTP Vision Statement

By 2031, the Richmond region will have strengthened its economic vitality by planning and funding a transportation system that is regional in nature; encourages the cooperation of localities; coordinates land uses with transportation; protects the environment and conserves energy; promotes safe and efficient access and alternative modes; and is socially equitable and sustainable.”
Public Outreach
Goals
The goals will describe a series of desired end states for the region’s transportation system informed by the vision – and will provide foundation for objectives and measures.
Goals

Address Federal Planning Factors (FAST ACT)

1. Increase the safety of the transportation system for motorized and non-motorized users
2. Emphasize the preservation of the existing transportation system
3. Promote efficient system management and operation
4. Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency
5. 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
6. Increase accessibility and mobility of people and freight
7. Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight
8. Increase the security of the transportation system for motorized and non-motorized users
9. Improve the resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation
10. Enhance travel and tourism
Goals

Address MAP-21 Goals

1. Safety
2. Infrastructure condition
3. Congestion reduction
4. System reliability
5. Freight movement & economic vitality
6. Environmental sustainability
7. Reduced project delivery delays
Goals

Consider State (VTRANS 2045) Goals

1. Safety for all users
   Provide a safe and secure transportation system for passengers and goods on all travel modes.

2. Proactive system management
   Maintain the transportation system in good condition and leverage technology to optimize existing and new infrastructure.

3. Economic competitiveness & prosperity
   Invest in a transportation system that supports a robust, diverse, and competitive economy.

4. Healthy Communities and Sustainable Transportation Communities
   Support a variety of community types promoting local economies and healthy lifestyles that provide travel options, while preserving agricultural, natural, historic, and cultural resources.

5. Accessible & Connected Places
   Increase opportunities for people and businesses to efficiently access jobs, services, activity centers, and distribution hubs.
Goals

Access to Employment
Provide for transportation system connections to areas of employment density and key activity centers, with an emphasis on connecting to areas of high poverty rates.

Freight Mobility
Enhance freight corridors and intermodal connections to facilitate goods movement into, within and out of the region.

Safety & Security
Provide for transportation improvements that increase safety and security for system users.

System Reliability
Implement technologies and programs to improve travel times and support the ease of travel throughout the region.

Congestion Mitigation
Support transportation system improvements that address existing and expected future traffic congestion.

Environment & Air Quality
Provide for project alternatives that protect and enhance the region’s natural resources.

Multimodal Connectivity
Improve accessibility and interconnectivity of various transportation modes for all system users.

Preservation & Maintenance
Ensure that existing transportation infrastructure and facilities achieve a constant state of good repair.

Transportation & Land Use Integration
Support transportation investments that meet the needs of existing and future land use and development patterns.

plan2040
Goals

Next Step

1. LRTP – AC Input – ConnectRVA2045 Goal Setting spreadsheet
2. Staff Recommendations
Objectives

• Describes specific, measurable statements that support achievement of the goals.
• SMART (specific, measurable, agreed-upon, realistic, time-bound).
  • Goal – Improve travel options for bicycling and walking
  • Objective - By 2045, achieve 10 percent of work trips made by bicycling and walking.

• To be developed by staff and vetted by LRTP-AC
Performance Measures

- Performance measures provide the technical mechanism (data) to monitor progress towards objectives, goals, and vision
- Align with Federal Performance Measures

PM1 - Highway Safety Performance Measures
1. Number of fatalities
2. Fatality rate (per 100 million VMT)
3. Number of serious injuries
4. Serious injury rate (per 100 million VMT)
5. Number of non-motorized fatalities and serious injuries

PM2 – Pavement/Bridge Performance Measures
6. % of pavements on the interstate system in good condition
7. % of pavements on the interstate system in poor condition
8. % of pavements on the non-Interstate NHS in good condition
9. % of pavements on the non-Interstate NHS in poor condition
10. % of NHS bridges classified as in good condition
11. % of NHS bridges classified as in poor condition

PM3 - System Performance / Freight / CMAQ Performance Measures
12. % of person miles on the Interstate system that are reliable
13. % of person miles on the non-Interstate NHS that are reliable
14. % of Interstate mileage providing for reliable truck travel times
15. Annual hours of peak-hour excessive delay per capita
16. Percent of non-single occupant vehicle travel
17. Total emissions reduction (CMAQ projects)
6. LRTP Process Update

Task 3: Planning
LRTP Process Flow

1. Transportation Needs Assessment
2. Strategic Direction
3. Planning
4. Programming
5. Evaluation
6. Adoption

General Public Outreach

Formal Public Review
Process Flow – Issue Identification to Project Prioritization

Task 1.2 Transportation Needs Assessment

- Issue Identification
- Geographic Clusters and groupings of Issues
- Needs Assessments
- Needs Specific to LRTP
- Universe of Projects
- Project Prioritization

Task 3.0 Planning

Task 4.0 Programming
Framework

- Transportation issues/need as identified in Task 1.2 to be converted into logical projects. (Staff, LRTP-AC Members, VDOT and DRPT Staff)
- Project would require at the minimum the location details of the project, anticipated project cost (capital, maintenance and operations) and time frame for which it is phased for completion.
- Complex projects like interchanges would require some kind of conceptual sketch.
- Project Champion (applicant) to be decided.

Project Inclusion Guidelines

- Projects type categorized by funding allocation
  - Bicycle and Pedestrian Facility
  - Bridge (Local or State System)
  - Highway
  - Intersection
  - Intermodal
  - Public Transit
  - Rail
  - State of Good Repair
  - Other (Maintenance, Operations, Safety, Enhancement)

- Final product - List of Universe of projects for ranking and prioritization.
## Project Champions

<table>
<thead>
<tr>
<th>ID</th>
<th>Project Champion</th>
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<tbody>
<tr>
<td>TPO-H</td>
<td>RRTPO Highway Project</td>
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<tr>
<td>TPO-T</td>
<td>RRTPO Transit Project</td>
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<tr>
<td>AS</td>
<td>Town of Ashland Project</td>
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<td>CC</td>
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<td>DRPT*</td>
<td>DRPT Project</td>
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<tr>
<td>POV**</td>
<td>Port of Virginia Project</td>
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</table>

* State Agency  
** Is not a RRTPO Member
TIP and Regional Funding Eligibility

Project

Regional
- Not in CLRP: Not eligible
- In CLRP: Eligible

Local or Programmatic
- Eligible

LRTP amend. Required
**Project Inclusion Guidelines**

**Regional Projects (must be in the LRTP)**  
Drawn from 23 CFR § 450.104 Regionally Significant for Air Quality Conformity

1. **Roadway Projects** (all roads included in the RTC Model’s transportation network)  
   - Capacity change (add/remove lane; changing use of lanes e.g. HOT or HOV lanes, bus only lanes)  
   - Realignment or relocation  
   - New interchanges  
   - Over/underpasses

2. **Bridge Projects (SGR)**  
   - Replacement/major rehabilitation of National Bridge Inventory (NBI) structures on National Highway System (NHS)

3. **Transit Projects**  
   - New dedicated transit right-of way  
   - All new proposed transit routes  
   - New or relocated transit centers/stations  
   - New Park & ride lots with 200 spaces or more  
   - Park & ride lot expansions to existing lots that require 200 or more new spaces
4. Bike/Ped Projects
   • Projects on segregated lanes within dedicated rights of way
   • Projects of independent utility that are part of a larger multi-jurisdiction network or significantly contribute to filling identified gaps in an existing bike/ped network.

5. Intermodal Projects
   • Capacity change in Intermodal corridors.

(Richmond Region’s intermodal corridor includes highways, navigable waterways and rail lines linked to the regional hubs including RMT, RIC, regional airports, major railroad yards and stations and distribution and warehousing facilities throughout the region).

6. SYIP Projects
   • All projects listed in the latest SYIP become projects for Time Band 1 in the LRTP. These projects are exempt from ranking and prioritization process.
Programmatic & Local Projects (Not in the LRTP)

1. Roadway Projects
   The following work on any facility drawn from 40 CFR § 93.126 list of exempt projects
   - Rehabilitation and maintenance
   - Safety Projects
   - Operations
   - Intersection improvements
   - Others projects not specifically listed in the regional projects list

2. Bridge Projects (SGR)
   - Replacement/major rehabilitation of National Bridge Inventory (NBI) structures outside the National Highway System (NHS)

3. Transit Projects
   - New Bus purchase
   - Bus shelter/stop improvements
   - Transit maintenance and operations facilities
   - Park and ride lots under 200 spaces
   - TDM programs
4. Bike/Ped Projects
   • Bike and pedestrian infrastructure within or adjacent to the existing right-of-way

5. Intermodal Projects
   • All other intermodal projects (purchase, maintenance) not listed in the regional projects list

6. ITS Projects

7. Planning Studies (including PE only projects)

8. All other projects not listed in the Regional Projects List
Next Steps

• LRTP-AC vetting of the LRTP - Project Inclusion Guidelines

• Screen Issues/Needs Inventory for LRTP-specific needs based on Project Inclusion Guidelines

• Develop Projects for the screened needs/issues
Action Requested

The Long Range Transportation Plan (ConnectRVA 2045) Advisory Committee approves the LRTP Project Inclusion guidelines as recommended by the RRTPO staff.
6.
LRTP Community Outreach Meetings Report
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www.connectrva2045.org

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