

Richmond Regional
**Transportation
Planning
Organization**

SUPPORTED BY **PlanRVA**
THE REGIONAL
COMMISSION

Connect RVA 2045



Update

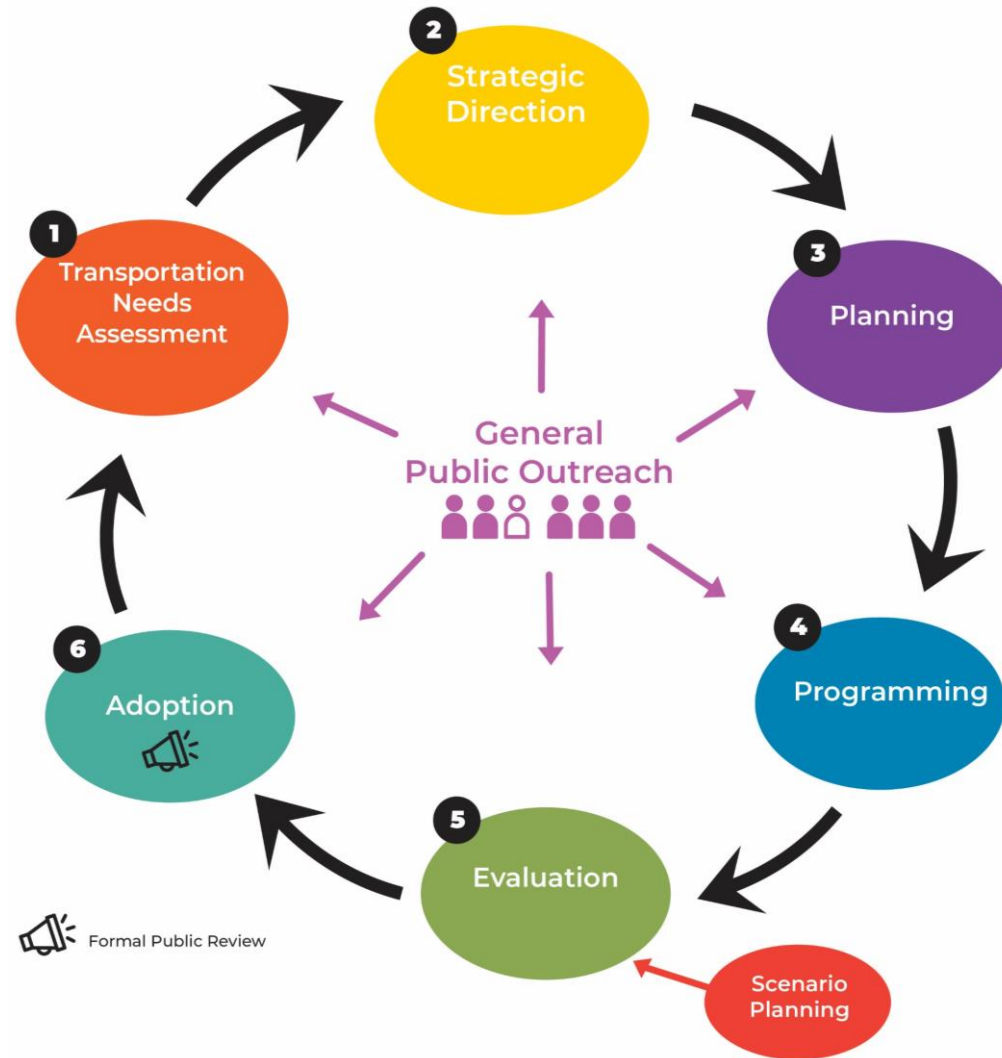
RRTPO Technical Advisory Committee Meeting February 9, 2021

Presentation by:

Sulabh Aryal, AICP

Transportation Planning Manager

L RTP Process Flow



Task 2: Strategic Direction

Task Objective: Develop Vision and Goals for the LRTP. Also develop Objectives and performance measure within each goal which could measure the achievement towards the goal



Vision

The transportation system in the Richmond Region will reliably and safely connect people, prioritize more equitable opportunities for all to thrive and live healthy lives, promote a strong economy, and respect environmental stewardship.

Guiding Principles

- GP1** Create a safe system for all users committed to the proven strategies in planning, design, operations and maintenance as well as advances in technology to eliminate fatal and serious injury crashes.
- GP2** Choice among all travel modes regionwide.
- GP3** Expansion of regional bicycle and pedestrian networks to provide active travel alternatives to driving for better individual and community health.
- GP4** A robust transit network which delivers comprehensive, effective, and convenient service, particularly in areas of greatest need and to key destinations.
- GP5** Equity and inclusion in all transportation spending and planning decisions in the region with a focus on historically under-represented and under-served communities.
- GP6** Efficient movement of people and goods across the transportation network.
- GP7** Alignment of transportation investment and planning with land use, community health, and environmental stewardship.

Goals & Objectives



A. Safety

Improve the safety of the transportation system for all people.

- A1. Enhance safety and comforts of bicycle and pedestrian facilities.
- A2. Work to eliminate all serious injuries and fatalities resulting from vehicular accidents.



B. Environment/Land Use

Reduce the negative impact the transportation system has on the natural and built environment.

- B1. Address roadways prone to flooding and consider climate impacts in transportation planning prioritization and funding decisions.
- B2. Reduce transportation related pollutants.
- B3. Reduce VMT (vehicle miles travelled) per capita.
- B4. Increase number and share of trips taken by shared and active transportation modes.
- B5. Tie land use planning to transportation investments through encouragement of walkable and transit-oriented communities.
- B6. Minimize impacts of transportation system on natural resources and communities with a particular emphasis on Environmental Justice (EJ) populations.



C. Equity/Accessibility

Improve equitable access through greater availability of mode choices that are affordable and efficient

- C1. Reduce trip lengths for all people with a focus on Environmental Justice (EJ) populations.
- C2. Increase access to jobs and community services via transit, walking, and biking for all people with a focus on EJ populations.



D. Economic Development

Improve connectivity and mobility for strong economic vitality

- D1. Reduce peak period travel times.
- D2. Increase transportation investment which focuses on economic vitality.
- D3. Improve reliability and accessibility of travel to and within the regional activity centers.
- D4. Reduce freight bottlenecks.
- D5. Increase multimodal access to tourist destinations.



E. Mobility

Increase travel efficiency and mode choices by maintaining the transportation system in a state of good repair

- E1. Increase the percent of complete streets across the highway network to maximize use of available capacity.
- E2. Increase system efficiency through operational, transportation demand management (TDM), and technology-based solutions.
- E3. Improve system reliability across all modes.

Task 3: Planning

Task Objective:

- Convert multimodal transportation needs and deficiencies as established in Task 1 into logical transportation projects.
- Develop Project Inclusion Guidelines for ConnectRVA 2045
- Work with Project Champions to develop and screen the projects.
- Finalize the 'Universe of Projects' to be scored, ranked and prioritize in Task 4.

Task 3: Planning

Project Champions

- Transit– GRTC/RRTPO/Localities
- Park n Ride – Ride Finders/ RRTPO/Localities
- Active Transportation – Active Trans. Workgroup /RRTPO
- Rail – DRPT
- Airport Related - CRAC
- Freight/Intermodal/RMT- RRTPO/VDOT/Richmond/VPA
- System Resiliency – RRTPO
- Highway
 - Ashland and Hanover County – Ashland/Hanover
 - Chesterfield County – Chesterfield
 - Henrico County – Henrico
 - Richmond City - Richmond
 - Goochland County – Goochland
 - Powhatan County – Powhattan
 - Multi-Jurisdiction/Interstate/Freeway- VDOT/RRTPO
 - Bridge – VDOT
 - Downtown Expressway - RMTA

Task 4: Programming

Task Objective:

- Development of project scoring, ranking and prioritization methodology based on established project performance measures.
 - Performance based measures–data driven
- Acquire Revenue Projections from VDOT and DRPT.
- Develop the Constrained List of Projects

Task 4: Programming

ConnectRVA 2045			
Goals	Project Performance Measure	PM Weights	Goal Weights
Safety	Crash Frequency	17.50%	25.00%
	Crash Rate	7.50%	
Mobility	Person Throughput	7.50%	15.00%
	Person Hours of Delay	7.50%	
Equity and Accessibility	Access to Jobs	7.50%	25.00%
	Access to Jobs (EJ)	5.00%	
	Access to Destinations	7.50%	
	Access to Destinations (EJ)	5.00%	
Economic Development	Job Growth*	7.50%	15.00%
	Connection to Truck Intensive Areas	3.75%	
	Truck Throughput	3.75%	
Environment/ Land Use	Sensitive Features	5.00%	20%
	Air Pollution	5.00%	
	VMT per Capita	5.00%	
	Connection to Activity Center	5.00%	

Task 4: Programming

L RTP Goals	Safety		Mobility		Equity and Accessibility			
Project Performance Measure	Crash Frequency	Crash Rate	Person Throughput	Person Hours of Delay	Access to Jobs	Access to Jobs (EJ)	Access to Destinations	Access to Destinations (EJ)
Description	Reduction in Equivalent Property Damage Only (EPDO) of Fatal and Injury Crashes avoided (5 year sample)	Reduction in Equivalent Property Damage Only (EPDO) of Fatal and Injury Crashes per 1M VMT or 1 M Vehicles	Increase in Person Throughput (Peak Period)	Reduction in Person Hours of Delay (Peak Period)	Increase in average job accessibility per person	Increase in average job accessibility per person (Total EJ Population within EJ Area)	Increase in average access to destinations per 1000 persons	Increase in average access to destinations per 1000 persons (Total EJ Population within EJ Areas)
Unit of Measurement	EPDO	EPDO/1 M VMT	Persons	Person Hours	Jobs Per person	Jobs per Person	Weighted Destinations per 1000 Persons	Weighted Destinations per 1000 Persons

Task 4: Programming

L RTP Goals	Economic Development			Environment/Land Use			
Project Performance Measure	Job Growth*	Connection to Truck Intensive Areas*	Truck Throughput	Sensitive Features*	Air Pollution	VMT per Capita	Connection to Activity Center*
Description	Increase in the decay weighted quantity of job growth adjacent to the project	Increase in the Truck Intensive units adjacent to the project from 2017 to 2045.	Increase in Truck Throughput (All Day Period)	Pertcentage of Wetland, Resiliency Water Hazard Zones, Cons. Land, Habitat, and Cultural Resources within 1/4 mile of the project limit	Reduction of annual VOC and NOx in metric tons	Reduction in Daily VMT per capita	Increase in the Activity Units adjacent to the project from 2017 to 2045.
Unit of Measurement	Jobs	Truck Intensive Units	Trucks	Percentage of overlap	Metric tons/Year	VMT per Capita	Activity Units

Next Steps

- Finalize the **Universe of Project**.
- Score all the projects and establish a ranked and prioritized list.
- Finalize the Connect RVA 2045 **Constrained List** and the **Vision List** of projects.
- Develop a list of projects to be in the called as **Projects Consistent with ConnectRVA 2045**. This will include projects not included in the Universe of projects but do address one or more ConnectRVA 2045 goals.
- Targeted adoption of the Constrained Plan is by early Summer.

Connect RVA 2045



Website

www.connectrva2045.org

Contact Information

ConnectRVA2045@planrva.org

Chet Parsons

cparsons@planrva.org

Sulabh Aryal

saryal@planrva.org