

Richmond Regional
**Transportation
Planning
Organization**

SUPPORTED BY **PlanRVA**
THE REGIONAL
COMMISSION

Connect RVA 2045

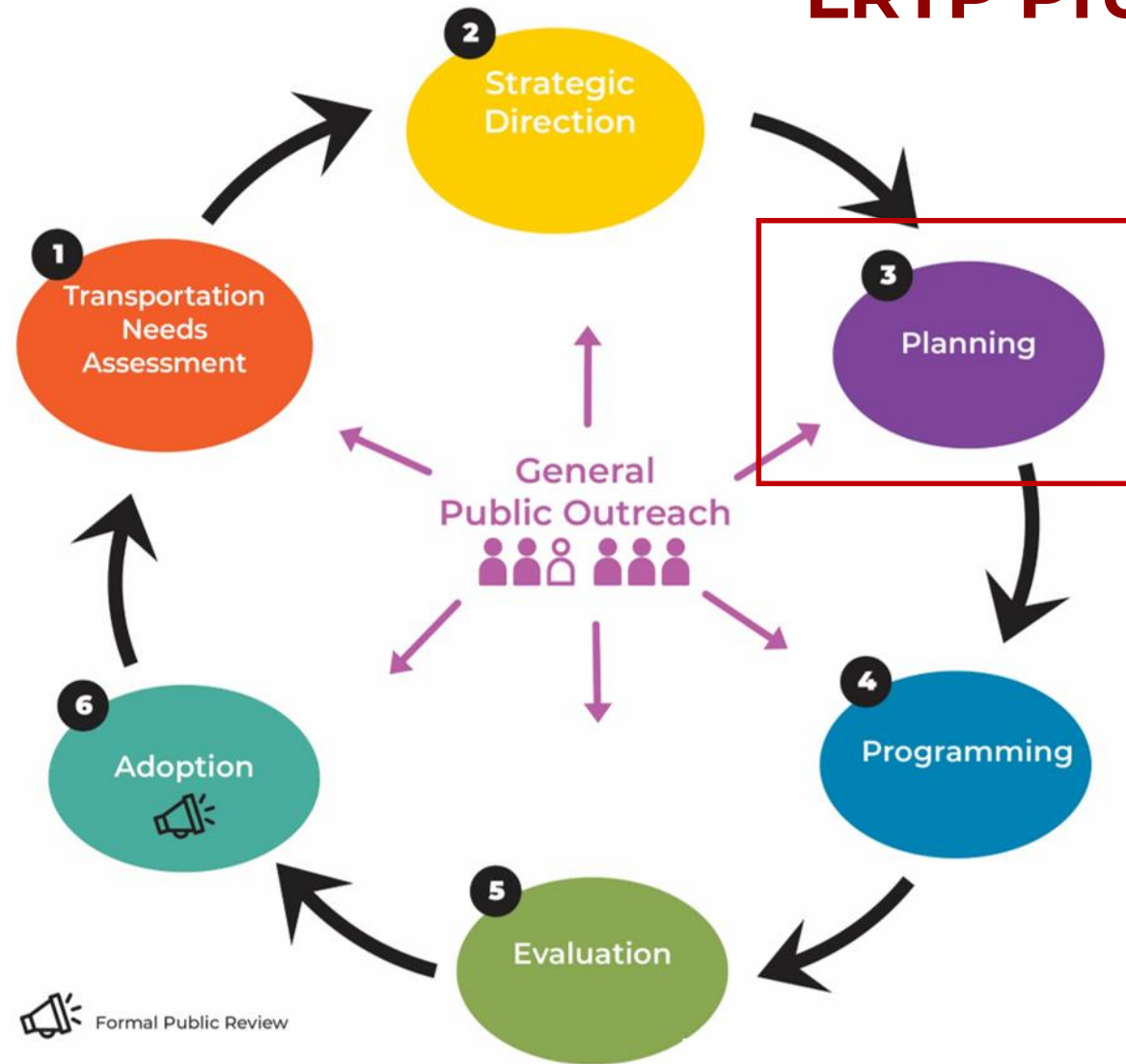


Universe of Projects

**RRTPO Policy Board Meeting
May 6, 2021**

**Presentation by:
Sulabh Aryal, AICP
Transportation Planning Manager**

L RTP Process Flow



Action requested

RESOLVED, that the Richmond Regional Transportation Planning Organization Policy Board approves the 'Universe of Projects' for the ConnectRVA 2045 long-range transportation plan and authorizes staff to begin the testing process to score, rank, and prioritize the 'Universe of Projects' into a refined draft cost constrained project list.

Universe of Project

Streamlined list of all regionally significant multimodal transportation projects.

- Address an Issue from the LRTP Regional Transportation Issues/Needs List as approved by the LRTP-AC.
- Be inside RRTPO MPA Boundary.
- Qualify as a regional transportation project based on the LRTP-AC approved “LRTP Project Inclusion Guidelines”
- Based on local and regional transportation plans and studies including locality comprehensive plans or proposed by Project Champion.
- Political will to proceed with the project.

Universe of Project- Highways



- 184 Projects
- Projects divided into 11 types
- Projects ready for implementation
- Projects at the conceptual level
- Highway Needs – **\$ 5,111,523,952**

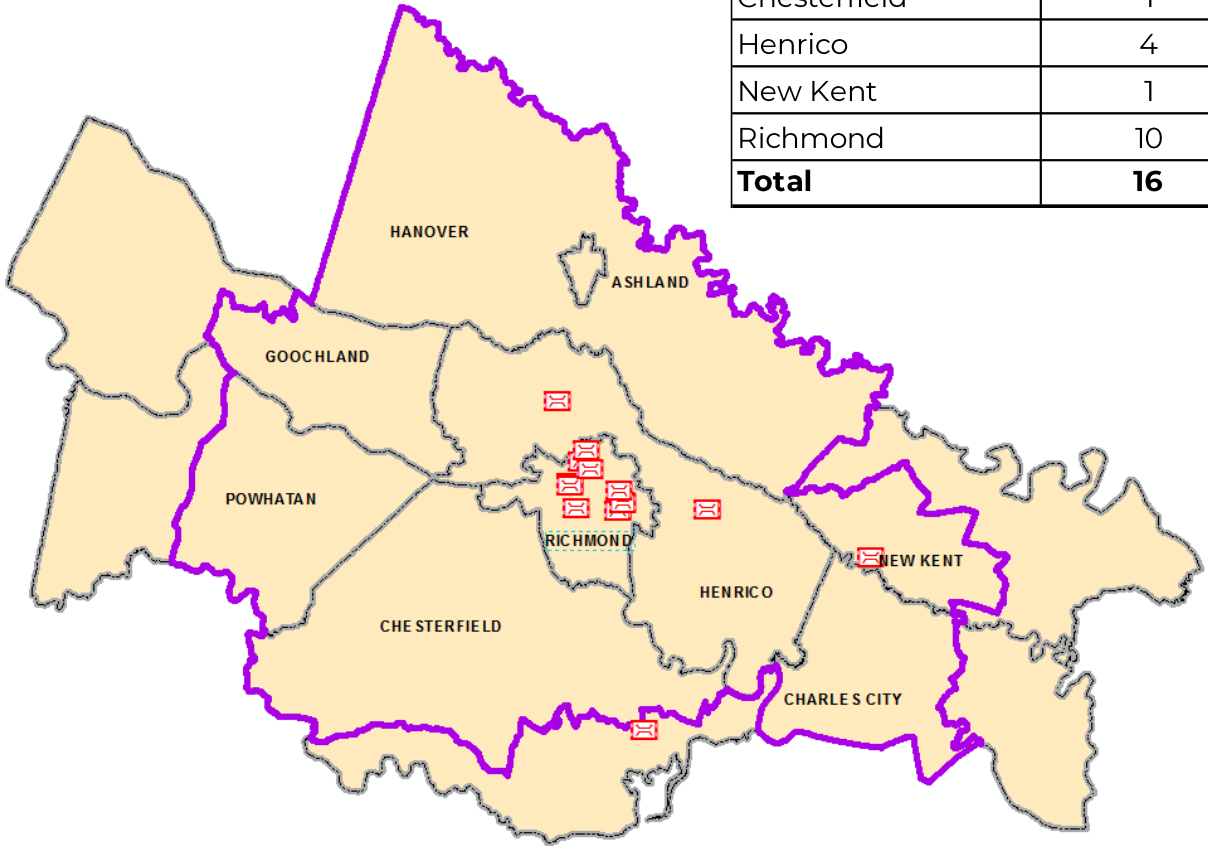
Highway Project Type	Number of Projects	Cost Estimates
Auxiliary Lane	15	\$ 373,059,261
Interchange Modification	40	\$ 1,036,768,925
Intersection Improvement	23	\$ 293,773,231
New Interchange	7	\$ 566,500,000
New Overpass	1	\$ 26,000,000
New Road	1	\$ 15,435,000
New Underpass	1	\$ 18,829,345
Road Extension	15	\$ 648,312,087
Road Realignment	2	\$ 10,119,463
Road Relocation	1	\$ 25,000,000
Road Widening	78	\$ 2,097,726,640
Total	184	\$ 5,111,523,952

Federal Functional Classification	Total Number of Projects	Cost Estimates
Interstate	41	\$ 1,436,800,016
Other Freeway or Expressway	30	\$ 1,090,794,362
Other Principal Arterial	27	\$ 684,373,231
Minor Arterial	60	\$ 1,379,481,870
Major Collector	26	\$ 520,074,473

Universe of Project – Bridge

- 16 Bridge Replacement/Rehabilitation Projects
- Structurally Deficient Bridges in the National Highway System
- Includes Westover Hills Blvd. Bridge (RMTA)
- Bridge with Capacity Constraint (widening with added capacity) in the Highway List
- Bridge Needs - **\$ 229,990,908**

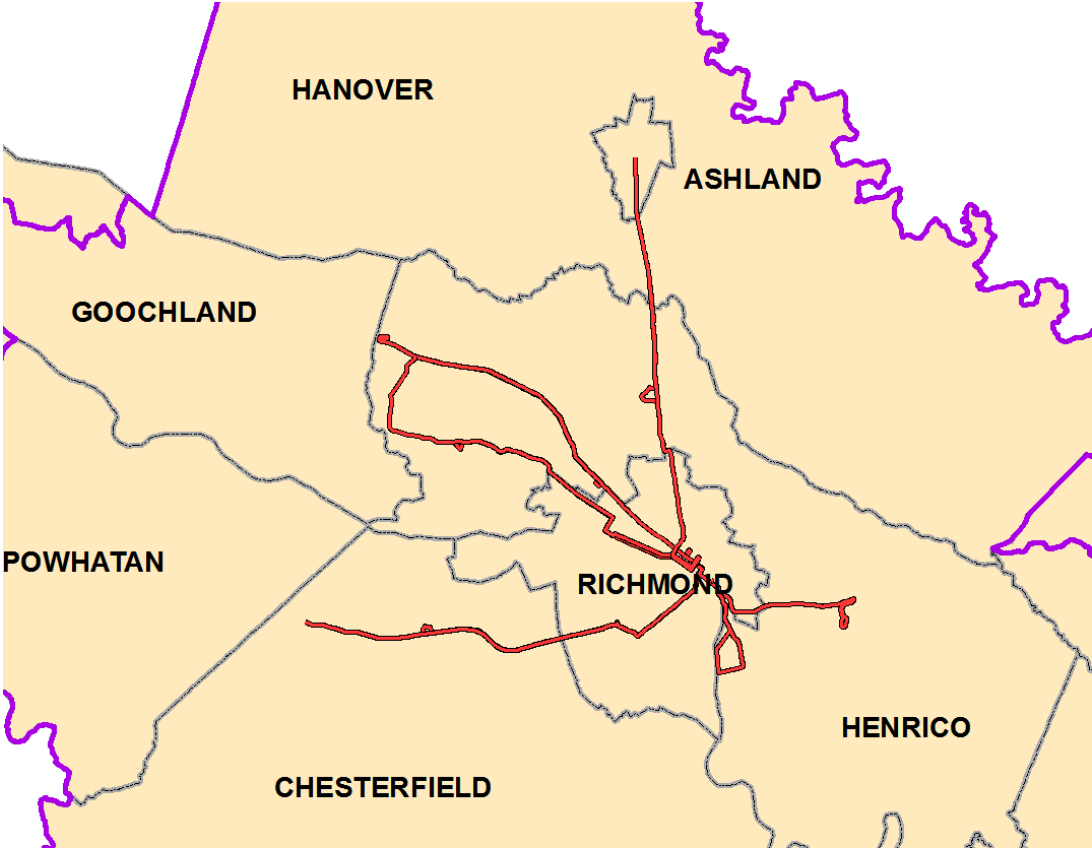
Locality	Number of Bridges
Chesterfield	1
Henrico	4
New Kent	1
Richmond	10
Total	16



Universe of Project – Transit

Corridor	Type	From	To
Midlothian corridor	Enhanced Service	CBD	Chesterfield Town Center
Midlothian corridor	BRT	CBD	Westchester Commons
RIC Airport	Enhanced Service	CBD	RIC Airport
Rt 1 North	Enhanced Service	CBD	Parham Road
Rt 1 North	BRT	CBD	Ashland
Broad St	Enhanced Service	Willow Lawn	Short Pump
Broad St	BRT Extension	Willow Lawn	Short Pump
West End South	Enhanced Service	Cary/Main	Gayton Crossing
West End South	BRT	Cary/Main	Short Pump
Broad St East	BRT Extension	Rocketts Landing	Wilton on the James

- 11 Projects
- 5 BRT Routes
- 5 Enhanced Service Routes
- 1 Transit Center
- Capital Costs
- Operational Cost not Included



Transit Needs - \$693,708,000

Universe of Project – Active Transportation

- 34 Projects
- All unfunded segments of Fall Line Trail within RRTPO Boundary (24 segments)
- Fall Line Trail Spurs
- Virginia Capital Trail Spur
- Major Connectors and Multi-Jurisdictional Trails
- Active Transportation Needs - **\$214,455,327**



Universe of Project – Park and Ride



- 14 Park and Ride Projects
- 14 new and one expansion/relocation
- 2,600 + New Parking Spaces
- Park and Ride Needs - **\$64,000,000**

Location/Route	Jurisdiction
VA Center Commons/I-295/I-95	Henrico
Lewistown Rd/Lakeridge Pkwy or Ashland	Hanover or Ashland
Midlothian @ Chippenham	Chesterfield
East End CBD at Pulse Terminus-Rocketts	Richmond or Henrico
I-64/US-60 at Laburnum Rd	Henrico
I-295at US-60-Technology Blvd/Elko Rd	Henrico or New Kent
VA-10/VA- 288 at I-95/I-295	Chesterfield
US-250 at Willow Lawn/Staples Mill	Henrico
Huguenot Rd at Forest Hill Ave	Chesterfield
I-64 at I-295 in Short Pump	Henrico
VA- 76/US-60	Chesterfield
VA-76/Jhanke	Chesterfield
VA-288 at US-250	Goochland
I-64 & VA- 623 (Ashland Rd)	Goochland

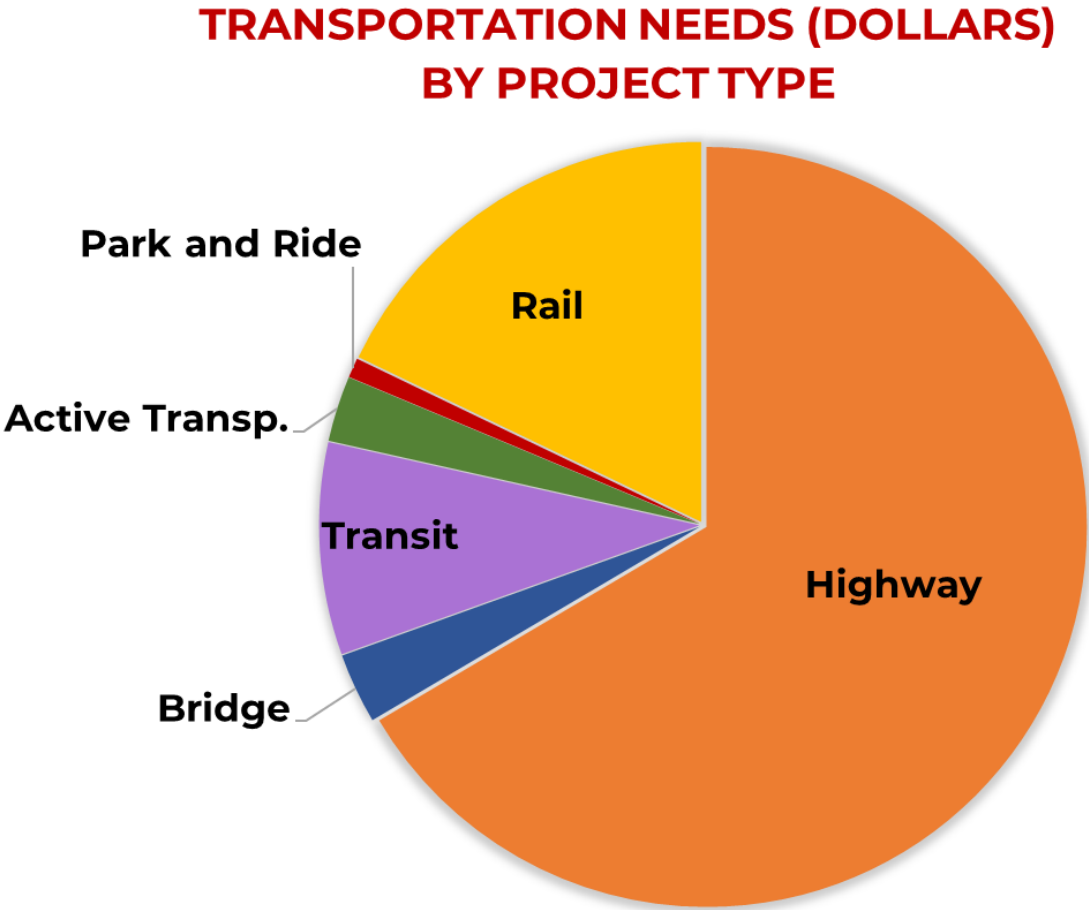
Universe of Project- Rail

- 9 Projects
- Transforming Rail in Virginia Initiative- 3 Projects
 - Enhancement related to Capacity Change, Grade separation, etc.
- Staples Mill Station Replacement and Enhancement – 3 projects (3 phases)
- Industrial Access – 3 Projects
 - Alleghany Warehouse and Altria/DuPont-CSX
 - RIC/White Oak area – NS
 - RIC/White Oak area – CSX
- Rail Needs - **\$1,372,940,000**



Universe of Projects – Summary

Transportation Project Type	Needs (Dollars)	Percentage of Total	Total Number of Projects
Highway	\$ 5,111,523,952	66.50%	184
Bridge	\$ 229,990,908	2.99%	16
Transit	\$ 693,708,000	9.02%	11
Active Transp.	\$ 214,455,327	2.79%	34
Park and Ride	\$ 64,000,000	0.83%	14
Rail	\$ 1,372,940,000	17.86%	9
Total	\$ 7,686,618,187	100.00%	268



Total Needs - \$ 7.69 Billion
Plus, three I-95 Projects

Universe of Projects – Public Comments

Public Comment Period
Original Period March 8 - March 23, 2021
Extended Period March 25 - April 15, 2021

Platform	Original Period	Extended Period	Total
Wikimap	133	766	899
Direct Email	10	30	40
ConnectRVA 2045 Website	8	52	60
Total	151	848	999

Almost One Thousand Public Comments received !

Next Steps (May-October)

- **Phase 4: Programming (Cost-Constrained Plan Development)**
 - Project Scoring and Evaluation
 - Development of Staff Recommendations
 - Review with Project Champions
- **Phase 5: Constrained Plan Evaluation**
 - Air Quality Conformity Assessment
 - Environmental Justice Analysis
 - Accessibility Analysis
 - ConnectRVA 2045 Performance Measures
 - Economic Impact Analysis (TBD)
- **Phase 6: Plan Adoption**
 - October 7th

Action requested

ConnectRVA 2045 Advisory Committee RECOMMENDATION: ConnectRVA 2045 AC reviewed the Universe of Projects and approved it as presented by staff.

STAFF RECOMMENDATION: Staff also recommends approval of the Universe of Projects as presented.

RESOLVED, that the Richmond Regional Transportation Planning Organization Policy Board approves the 'Universe of Projects' for the ConnectRVA 2045 long-range transportation plan and authorizes staff to begin the testing process to score, rank, and prioritize the 'Universe of Projects' into a refined draft cost constrained project list.

Connect RVA 2045



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