



Northern Virginia Transportation Authority
The Authority for Transportation in Northern Virginia

PLANNING AND PROGRAMMING COMMITTEE
Wednesday, May 4, 2016, 10:00am

Northern Virginia Transportation Authority
3040 Williams Drive, Suite 200
Fairfax, Virginia 22031

AGENDA

- I. Call to Order/Welcome** Chairman Nohe

Discussion/Information

- II. Presentation of draft NVTA Quantitative Scores, Congestion Reduction Relative to Cost Ratios, and Qualitative Considerations** Mr. Jasper
- III. Approach to Public Comment** Ms. Backmon, Executive Director
- IV. NVTA Update** Ms. Backmon, Executive Director

Action

- V. Approve Summary Notes of April 18, 2016 PPC Meeting**
Recommended Action: Approval [with abstentions from those who were not present]
- VI. Approve Recommended Draft FY2017 Program Project List to NVTA for Public Comment**
Recommended Action: Recommend NVTA release the draft FY2017 Program Project List for Public Comment

Adjournment

- VII. Adjourn**

Next Meeting:
10:00am, Tuesday June 28, 2016, NVTA



Northern Virginia Transportation Authority

The Authority for Transportation in Northern Virginia

PLANNING AND PROGRAMMING COMMITTEE

Monday, April 18, 2015, 10:00 am

Northern Virginia Transportation Authority

3040 Williams Drive, Suite 200

Fairfax, Virginia 22031

SUMMARY NOTES

I. Call to Order/Welcome

Chairman Nohe

- Chairman Nohe called the meeting to order at 10:05 am.
- Attendees:
 - **PPC Members:** Chairman Nohe; Chairman Bulova (Fairfax County); Board Member Fisette (Arlington County); Council Member Rishell (City of Manassas Park).
 - **Authority Members:** Sen. Adam Ebbin; Del. Tim Hugo; Helen Cuervo (VDOT).
 - **NVTA Staff:** Monica Backmon (Executive Director); Mike Longhi (CFO); Sree Nampoothiri (Program Coordinator), Keith Jasper (Program Coordinator).
 - **Staff:** James Davenport, Rick Canizales (Prince William County); Tom Biesiadny, Noelle Dominguez, Joan Clark (Fairfax County); Bob Brown (Loudoun County); Sarah Crawford (Arlington County); Pierre Holloman (City of Alexandria); Paul Stoddard (City of Falls Church); Wendy Sanford (City of Fairfax); Patrick Moore (City of Manassas); Mark Duceman (Town of Herndon); Renee Hamilton, Maria Sinner, Norman Whitaker, Valerie Pardo, Kodjo Messan (VDOT); Todd Horsley (DRPT); Patricia Happ (NVTC); Sonali Soneji (VRE).
 - **Other:** Bob Chase, David Birtwistle (Northern Virginia Transportation Alliance); David Roden (AECOM); Rob Prunty (CH2M Hill).

Action

II. Meeting Summary Notes of March 28, 2016, PPC Meeting

- The March 28, 2016 Planning and Programming Committee meeting summary was unanimously approved.

III. Date of Public Hearing

- A recommendation to the Authority to authorize June 9, 2016 as the date for the FY2017 Program Public Hearing was unanimously approved.

Discussion/Information

IV. Briefing on Transform I-66 (Outside the Beltway)

Ms. Hamilton

- Ms. Hamilton provided an update on the I-66 Outside the Beltway project including an overview of the pattern of trip origins and destinations at the I-66/Route 28 interchange, one of the 24 candidate projects for the FY2017 Program. Ms. Hamilton noted that this origin/destination information is based on current traffic levels.
- In response to a question by Chairman Nohe, Ms. Hamilton and Mr. Prunty confirmed that the midday travel pattern pend through the interchange is similar to peak travel patterns but at a lower level of volume and congestion.
- In a follow up question, Chairman Nohe asked how this affects the calculation of long term benefit. Ms. Backmon reminded the committee that 50 percent of long term benefit is related to project location and the other 50 percent related to who is the recipient of congestion reduction.
- Mr. Fisette asked about the multimodal improvements and how they will be funded. Ms. Hamilton confirmed they will be funded “off the top” by the selected concessionaire. Mr. Horsley added that the transit services have been planned in conjunction with local transit agencies, and funding includes capital acquisitions (and two cycles of bus replacements) and operating costs. Mr. Horsley offered to research the exact amount, but recalled total transit funding was several hundred million dollars.
- Mr. Biesiadny noted the bus routes represented a mix of service along I-66 and feeder routes, with a focus on Park and Ride lots. Ms. Cuervo added that additional routes would be added to reflect future population growth.
- Ms. Hamilton noted that VDOT had reached out to ‘sluggers’ to seek inputs and raise awareness. Provision will be made for sluggers at Park and Ride lots.
- Sen. Ebbin asked whether fuel costs had been escalated in the concession arrangements. Mr. Biesiadny confirmed that average escalation levels had been assumed, but not any specific algorithms.

V. Presentation of draft HB 599 Evaluation Ratings

Mr. Roden

- Mr. Roden presented the draft HB 599 ratings for the 24 projects being evaluated under the FY 2017 Program, on behalf of VDOT, noting that this is the first time that this information has been released. In response to a question from Chairman Nohe, Mr. Roden confirmed there are no plans to amend these ratings unless project sponsors request changes be considered. Mr. Roden noted the draft ratings will be presented to the NVTa Technical Advisory Committee on April 20, 2016 before being finalized by April 30.

- Mr. Fisette asked about the evaluation of transit projects, as this is the first time they have been subject to the HB 599 process. Mr. Roden noted that the performance measures used to evaluate projects included several that addressed the impact of transit projects. Overall, Mr. Roden considered the HB 599 process generally addresses all projects in a consistent manner.
- Mr. Fisette noted that first/last mile connections can be high value/low cost. He asked about the sensitivity of the HB 599 TRANSIMS model to such impacts, and how the HB 599 process addresses project costs. Mr. Roden replied that the TRANSIMS model uses more detailed zone definition and also provides for pedestrian access factors. While cost is not a factor considered by the HB 599 process, Chairman Nohe noted that the Arlington County intelligent transportation project approved under the FY2015-16 Program was inexpensive relative to its congestion impact.
- Ms. Soneji requested that the candidate VRE station parking project in the City of Manassas Park be evaluated as part of a larger regional transportation system. Mr. Roden replied that this was taken into consideration, in terms of the possible impact of the project on travel on I-66.
- Sen. Ebbin asked whether NVTAs evaluation uses the 2020 or 2040 outputs from the HB 599 process. Mr. Jasper responded that NVTAs Quantitative Score uses the HB 599 rating for 2040 (weighted at 45 percent). This is consistent with other criteria in the Quantitative Score that are based on outputs from TransAction 2040. NVTAs also uses direct outputs from the HB 599 TRANSIMS model for both 2020 and 2040 as part of an extrapolation process to calculate Congestion Reduction Relative to Cost ratios from project opening through 2040.
- In conclusion, Ms. Backmon asked project sponsors to let VDOT know if there were any further questions by no later than Friday April 22nd. This will allow sufficient time for any changes to be made next week, and for the HB 599 ratings to be finalized by April 30th.

VI. NVTAs Update

Ms. Backmon

- Ms. Backmon reminded the committee that the Authority will consider their recommendation for the date of the Public Hearing at its next meeting on April 28, 2016. Adoption of the FY2017 Program will occur at the Authority's July 14 meeting, based on the current schedule. The FY2017 Program will be the last based on TransAction 2040 plan. The Authority's FY2018-23 Six Year Program will be developed after the adoption of the updated TransAction plan.
- Ms. Backmon informed the committee that the NVTAs staff is planning a workshop for jurisdiction and agency staff regarding the Standard Project Agreements (SPAs) for approved FY2017 Program projects. The workshop will also cover topics related to responsibilities of jurisdictions and agencies with active SPAs.
- Sen. Ebbin asked if the Six Year Program would be updated every year. Ms. Backmon confirmed that this is envisioned.

- With reference to the FY2017 Program Public Hearing, Chairman Nohe requested that jurisdictional staff provide early notice of requests for his participation (with Ms. Backmon) at Town Hall meetings.

Adjournment

VII. Adjourn

- The meeting adjourned at 11:23 am.

DRAFT

FY2017 Program

Interim Project Evaluations

Presentation to the Planning and Programming Committee

May 4, 2016



Northern Virginia
Transportation Authority
The Authority for Transportation in Northern Virginia

Agenda

- i. Introduction
- ii. Interim Project Evaluations
 - a. NVTa Quantitative Scores
 - b. Congestion Reduction Relative to Cost Ratios
 - c. Qualitative Considerations
- iii. Overall Recommendations
- iv. Next Steps
- v. Action: Recommendation to NVTa



Introduction

- Goals of today's PPC meeting:
 - Review interim project evaluations
 - Approve a recommendation to NVRTA to release the draft FY2017 Program project list (on 5/12)



Introduction

- Goals of 6/28 PPC meeting:
 - Review summary of public comments
 - Review revised project evaluations
 - Approve a recommendation to NVRTA to adopt the draft FY2017 Program (on 7/14)



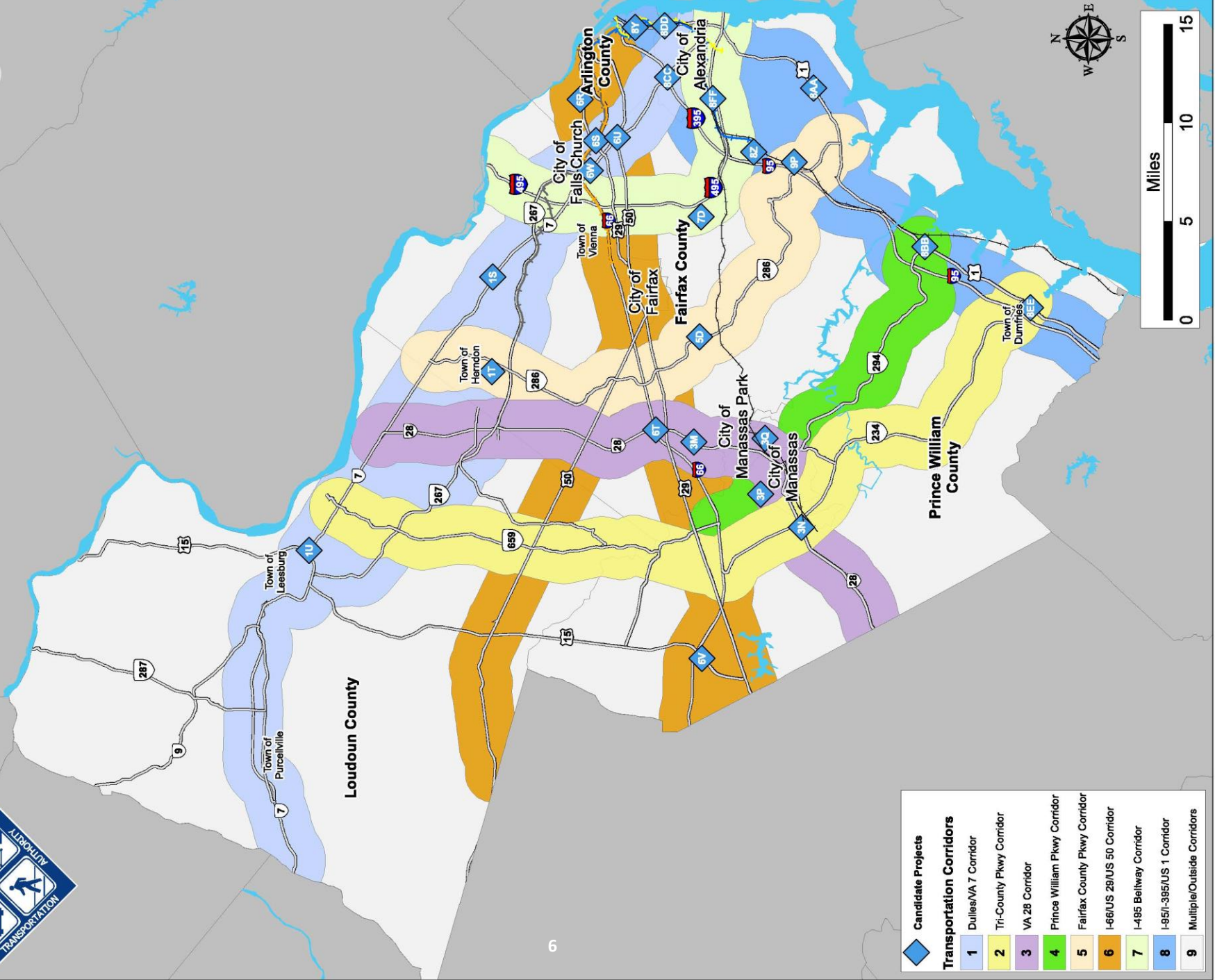
Introduction

- FY2017 Program is a one-year program;
- Last program based on TransAction 2040;
- First program in which all projects are subject to the HB 599 process
- First program that coincides with the HB 2 process;
- Projects evaluated on a standalone basis;
- Congestion reduction impacts based on completed projects;
- 24 Candidate Projects;
- \$667,949,000 requested;
- \$266,700,000 est. available (PayGo).





Northern Virginia Transportation Authority (NVTA) Draft FY2017 Program



Candidate Projects

Transportation Corridors

	1	Dulles/VA 7 Corridor
	2	Tri-County Pkwy Corridor
	3	VA 28 Corridor
	4	Prince William Pkwy Corridor
	5	Fairfax County Pkwy Corridor
	6	I-66/US 28/US 50 Corridor
	7	I-495 Beltway Corridor
	8	I-95/I-395/US 1 Corridor
	9	Multiple/Outside Corridors

Interim Project Evaluations

- NVTa Quantitative Scores
 - Incorporates HB 599 rating for 2040 (weighting: 45%)
 - Eight other criteria (weighting: 55%)
- Congestion Reduction Relative to Cost (CRRC) Ratios
 - Uses selected HB 599 outputs for 2020 and 2040
 - Total project cost
 - FY2017 funding request ('NVTa Share')
- Qualitative Considerations
 - Can be positive or negative



NVTA Quantitative Scores

Criteria		Weighting
• Congestion Reduction:		45%
• Project Readiness:	15%	55%
• Reduce VMT:	5%	
• Safety:	5%	
• Connectivity*:	10%	
• Improved Bike/Ped:	10%	
• Management/Ops:	5%	
• Cost Sharing:	5%	

Note: * two criteria

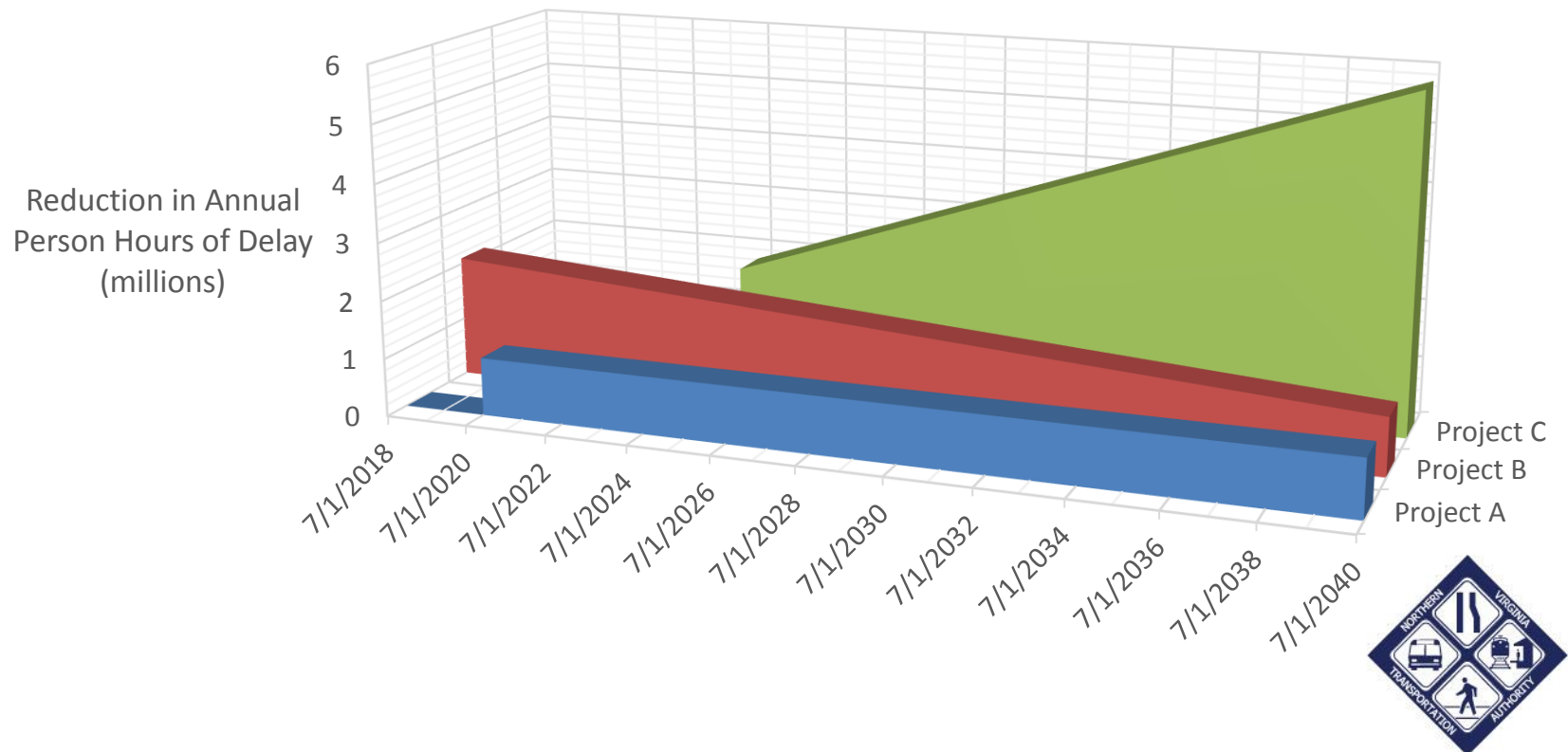


NVTA Quantitative Scores

CANDIDATE PROJECTS				HB599 (2020) Project reduces roadway congestion	HB599 (2040) Project reduces roadway congestion	Project will be advanced as a result of FY17 Program funding	Project reduces vehicle- miles traveled	Project improves the safety of the transportation system	Project improves connections between multiple Activity Centers	Project connects jurisdiction s and modes	Project supports multiple use development patterns in a walkable/bikeable environment	Project improves the management and operation of existing facilities through technology applications	Project leverages private or other outside funding	Weighted Score	Rank
Item #	Map Ref #	Jurisdiction/ Agency	Project Description	0	45	15	5	5	5	5	10	5	5	100	
7	6T	Fairfax	I-66/Route 28 Interchange Improvements	77.4	78.3	3	1	2	1	1	2	2	3	73.57	1
9	1S	Fairfax	Route 7 Widening Phase I (Colvin Forest Dr to Jarrett Valley Dr); VDOT UPC - 99478	22.2	54.6	3	1	2	2	1	3	1	3	66.24	2
17	8DD	Alexandria	Potomac Yard Metrorail Station	28.5	36.0	3	3	2	3	3	3	1	3	66.20	3
24	8FF	WMATA	Metrorail Blue Line Traction Power Upgrades	43.8	45.8	3	3	2	3	3	1	2	3	65.61	4
10	3M	Fairfax	Route 28 Widening (PWC Line to Route 29)	60.9	56.3	3	1	2	2	2	3	1	1	65.34	5
14	8BB	Prince William	Widen Route 1 to Six Lanes (Featherstone Road to Mary's Way)	24.3	33.4	3	1	2	2	1	3	2	3	58.36	6
1	6R	Arlington	Lee Highway Corridor ITS Enhancements	7.4	9.8	3	1	2	3	3	3	3	1	51.08	7
3	6S	Arlington	East Falls Church Regional Connections and Access Project	2.2	2.2	3	3	2	3	3	3	2	1	49.32	8
11	5D	Fairfax	Route 286 Fairfax County Parkway Widening (Route 123 to Route 29)	42.9	42.7	2	1	2	2	1	2	1	1	49.22	9
16	8CC	Alexandria	West End Transitway	13.4	16.3	1	3	2	3	3	3	2	3	49.00	10
2	8Y	Arlington	Crystal City Streets: 12th St Transitway, Clark/Bell Realignment, and Intersection Improvements	4.0	4.6	3	3	2	2	3	3	2	1	48.74	11
18	6W	Falls Church	Bikeshare Connections to Orange and Silver Line Metrorail Stations, Falls Church	2.2	2.2	3	3	2	3	3	3	1	1	47.66	12
20	8EE	Dumfries	Widen Route 1 to Six Lanes (Brady's Hill Road to RT234)	22.3	27.7	2	1	2	1	2	3	2	1	47.47	13
8	8AA	Fairfax	Widening US1 Richmond Highway (Mt Vernon Hwy to Napper Rd); VDOT UPC 107187	30.1	35.1	2	1	2	1	1	2	1	3	47.46	14
15	3N	Prince William	Widen Route 28 to Six Lanes (Route 234 to Linton Hall Road)	14.0	19.7	3	1	2	1	2	3	1	1	47.20	15
22	1U	Leesburg	Route 7 (East Market Street) / Battlefield Parkway Interchange	6.7	14.2	3	1	3	1	2	2	1	1	43.06	16
21	1T	Herndon	East Elden Street Improvements and Widening Project	1.1	2.5	3	1	2	2	2	3	2	1	42.79	17
4	7D	Fairfax	Braddock Road HOV Widening (Burke Lake to I-495)	29.6	23.6	2	2	2	1	1	2	1	1	40.62	18
5	9P	Fairfax	Fairfax Connector Bus Purchases (11 buses) for Service Expansion	3.7	4.1	3	3	2	3	1	1	2	1	40.18	19
13	6V	Prince William	Widen Route 15 to Four Lanes (Route 55 to south of RR tracks) & Construct RR Overpass	2.6	3.5	3	1	3	1	1	3	1	1	39.91	20
12	6U	Fairfax	Seven Corners Ring Road Improvements	3.6	9.0	2	1	2	2	2	3	1	1	39.05	21
6	8Z	Fairfax	Frontier Drive Extension and Braided Ramps; VDOT UPC 106742	5.9	9.9	2	1	2	1	1	3	1	2	37.79	22
19	3P	Manassas	Sudley Road Westbound Third Lane (Godwin Dr to Dorsey Cir)	4.3	8.3	3	1	2	1	1	2	1	1	37.07	23
23	3Q	VRE	VRE Manassas Park Station Parking Expansion	7.3	7.4	1	3	2	3	3	1	1	1	33.33	24

Congestion Reduction Relative to Cost (CRRC) ratios

Total Congestion Reduction = Area Under the Graph



Congestion Reduction Relative to Cost (CRRC) ratios

- Total Project Cost
 - Provides ‘apples to apples’ comparison of each project’s congestion reduction impacts, regardless of funding sources.
- ‘NVTa Share’
 - Provides an understanding of the relative ‘return’ of each project, using NVTa regional revenues.
- Note:
 - WMATA Blue Line Power Traction Upgrades project excludes acquisition of Series 7000 rolling stock.



Congestion Reduction Relative to Cost (CRRC) ratios

- Assumptions
 - ‘NVTa Share’ includes:
 - FY2017 Program request
 - Planned future funding requests to NVTa
 - 100% of identified funding gaps
 - ‘NVTa Share’ does not include:
 - Funding from NVTa FY2014 and FY2015-16 Programs
 - Project costs are accurate, consistent, and undiscounted;
 - No future cost overruns;
 - 100% of operational costs through 2040 are met by project sponsors, including bus replacements.



Congestion Reduction Relative to Cost (CRRC) ratios

	Map Ref #	Jurisdiction	Project	Total Project Cost	Rank	NVTA Share	Rank
1	6R	Arlington	Lee Highway Corridor ITS Enhancements	1.56	1	1.56	2
10	3M	Fairfax	Route 28 Widening (PWC Line to Route 29)	0.52	2	0.56	5
19	3P	Manassas	Sudley Road Westbound Third Lane (Godwin Dr to Dorsey Cir)	0.40	3	0.40	7
23	3Q	VRE	VRE Manassas Park Station Parking Expansion	0.40	3	0.41	6
18	6W	Falls Church	Bikeshare Connections to Orange and Silver Line Metrorail Stations, Falls Church	0.36	5	0.36	9
24	8FF	WMATA	Metrorail Blue Line Traction Power Upgrades	0.36	5	1.29	3
11	5D	Fairfax	Route 286 Fairfax County Parkway Widening (Route 123 to Route 29)	0.33	7	0.37	8
15	3N	Prince William	Widen Route 28 to Six Lanes (Route 234 to Linton Hall Road)	0.32	8	0.75	4
5	9P	Fairfax	Fairfax Connector Bus Purchases (11 buses) for Service Expansion	0.30	9	0.30	11
14	8BB	Prince William	Widen Route 1 to Six Lanes (Featherstone Road to Mary's Way)	0.26	10	1.88	1
9	1S	Fairfax	Route 7 Widening Phase I (Colvin Forest Dr to Jarrett Valley Dr); VDOT UPC - 99478	0.18	11	0.21	12
7	6T	Fairfax	I-66/Route 28 Interchange Improvements	0.16	12	0.17	13
4	7D	Fairfax	Braddock Road HOV Widening (Burke Lake to I-495)	0.14	13	0.14	14
2	8Y	Arlington	Crystal City Streets: 12th St Transitway, Clark/Bell Realignment, and Intersection Improvements	0.13	14	0.13	15
20	8EE	Dumfries	Widen Route 1 to Six Lanes (Brady's Hill Road to RT234)	0.13	14	0.13	15
3	6S	Arlington	East Falls Church Regional Connections and Access Project	0.12	16	0.12	17
17	8DD	Alexandria	Potomac Yard Metrorail Station	0.08	17	0.33	10
16	8CC	Alexandria	West End Transitway	0.05	18	0.07	18
22	1U	Leesburg	Route 7 (East Market Street) / Battlefield Parkway Interchange	0.05	18	0.07	18
12	6U	Fairfax	Seven Corners Ring Road Improvements	0.03	20	0.03	20
6	8Z	Fairfax	Frontier Drive Extension and Braided Ramps; VDOT UPC 106742	0.03	20	0.03	20
8	8AA	Fairfax	Widening US1 Richmond Highway (Mt Vernon Hwy to Napper Rd); VDOT UPC 107187	0.03	20	0.03	20
13	6V	Prince William	Widen Route 15 to Four Lanes (Route 55 to south of RR tracks) & Construct RR Overpass	0.03	20	0.03	20
21	1T	Herndon	East Elden Street Improvements and Widening Project	0.01	24	0.01	24

Qualitative Considerations

- Non-quantifiable factors to consider during the project selection process
 - Continuity of Project Funding
 - Cost Sharing
 - Geographic balance
 - Modal balance
 - Other



Qualitative Considerations

- 12 projects requesting continuation funds
 - No obligation, but a logical expectation
 - Invoicing history and current status not supportive of immediate need for FY2017 Program funds
 - 2 projects with apparent cost overruns
- 10 projects subject to HB2 or 'Transform66 Multimodal Project' project selection processes



Overall Recommendations

Approach for identifying 'Recommended' projects

1. Selected the top 12 projects based on CRRC ratios (see slide #13, using full project cost)
2. De-selected 3 projects with low Quantitative Scores (bottom 6)
3. Added 1 project with high Quantitative Score (top 6)
4. De-selected 3 projects based on Qualitative Considerations



Overall Recommendations

‘De-Selected’ Projects

	Map Ref #	Jurisdiction	Project (Reason for De-Selection)	Phases Funded	FY2017 Program Request
23	3Q	VRE	VRE Manassas Park Station Parking Expansion (Quantitative Score 24/24)	Des, Eng, Env	\$2,000,000
19	3P	Manassas	Sudley Road Westbound Third Lane (Quantitative Score 23/24)	Des, Eng, Env, ROW, Con	\$7,400,000
5	9P	Fairfax	Fairfax Connector Bus Purchases (11 buses) (Quantitative Score 19/24)	Acquisition	\$5,500,000
18	6W	Falls Church	Bikeshare Connections to Orange and Silver Line Metrorail Stations (Operational Costs)	Des, Eng, ROW, Con, Acq	\$2,000,000
24	8FF	WMATA	Metrorail Blue Line Traction Power Upgrades (Acquisition Uncertainty for Series 7000 Rolling Stock)	Eng, Con	\$17,549,000
14	8BB	Prince William	Widen Route 1 to Six Lanes (Featherstone Road to Mary's Way) (Cost Overrun)	Con	\$11,000,000
					\$45,449,000

Overall Recommendations

'Recommended' Projects

	Map Ref #	Jurisdiction	Project (Continuation/New)	Phases Funded	FY2017 Program Request
1	6R	Arlington	Lee Highway Corridor ITS Enhancements (New)	Des, Eng, ROW, Con	\$3,000,000
10	3M	Fairfax	Route 28 Widening (PWC Line to Route 29) (Continuation)	Des, Eng, Env, ROW, Con	\$5,000,000
11	5D	Fairfax	Route 286 Fairfax County Parkway Widening (Route 123 to Route 29) (Continuation/New)	ROW	\$10,000,000
15	3N	Prince William	Widen Route 28 to Six Lanes (Route 234 to Linton Hall Road) (Continuation)	Con	\$10,000,000
9	1S	Fairfax	Route 7 Widening Phase I (Colvin Forest Dr to Jarrett Valley Dr) (New)	ROW	\$10,000,000
7	6T	Fairfax	I-66/Route 28 Interchange Improvements (New)	Des, Eng, Env, ROW, Con	\$370,000,000
17	8DD	Alexandria	Potomac Yard Metrorail Station (Continuation)	Des, Con (Des-Build)	\$66,000,000
					\$474,000,000

Overall Recommendations

- All 24 projects included on project list for public comment
- 7 projects are designated as 'recommended' in the draft FY2017 Program (total request \$474 million)
- Associated request \$207.3 million greater than est. available PayGo funds
- Remaining 17 projects are designated as 'candidate' in the draft FY2017 Program (total request \$193.949 million)
- No project is designated as 'not recommended'
- Designations of 'recommended' and 'candidate' may subsequently change arising from:
 - New data and/or revised evaluation
 - Public comments and/or Public Hearing testimony
 - CTB and/or NVTC project selection decisions
 - Authority actions



Next Steps

- May
 - NVTa approves project list for public comment (5/12).
- Mid-May to mid-June:
 - Public comment period;
 - Jurisdictions host Town Hall meetings (optional).
- June:
 - Public Hearing (6/9);
 - Finance Committee (6/16);
 - CTB adopts Six Year Improvement Program;
 - NVTa staff present updated project evaluations to PPC (6/28).
- July:
 - NVTa adopts FY2017 Program (7/14).



Action: Recommendation to NVRTA

- Recommended Action
 - Recommend NVRTA release the draft FY2017 Program Project List for Public Comment
- NVRTA will consider the PPC's recommendation at its meeting on May 12, 2016
- The Project List will comprise (as currently recommended by NVRTA staff):
 - List of 'Recommended' projects (7)
 - List of 'Candidate' projects (17)
- Supporting documentation will be posted to NVRTA website: <http://www.thenovaauthority.org/planning-programming/fy2017-program/>

