



Northern Virginia Transportation Authority
The Authority for Transportation in Northern Virginia

TECHNICAL ADVISORY COMMITTEE
Wednesday, April 20, 2016, 7:00pm
NVTA Office
3040 Williams Drive, Suite 200
Fairfax, Virginia 22031

AGENDA

- I. Call to Order/Welcome** Chairman Boice
- II. Meeting Summary of March 16, 2016 Meeting**
*Recommended Action: Approval [with abstentions
from those who were not present]*

Discussion/Information

- III. NVTA Update** Ms. Backmon, Executive Director
- IV. FY2017 Program Update:**
Presentation on Draft HB599 Evaluation Rating VDOT

Adjournment

- V. Adjourn**

Next Meeting: May 18, 2016
7:00pm
NVTA Office



Northern Virginia Transportation Authority
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TECHNICAL ADVISORY COMMITTEE

Wednesday, March 16, 2015, 7:00pm

NVTA Office

3040 Williams Drive, Suite 200

Fairfax, Virginia 22031

SUMMARY NOTES

I. Call to Order/Welcome Ms. Judy

- Ms. Meredith Judy called the meeting to order at 7:05pm.
- Attendees:
 - Members: Armand Ciccarelli; Kathy Ichter; Meredith Judy; Pat Turner; Shanjiang Zhu.
 - NVTA Staff: Monica Backmon (Executive Director); Keith Jasper (Program Coordinator); Sree Nampoothiri (Program Coordinator).
 - Other: James Davenport (Prince William County); Noelle Dominguez (Fairfax County); Dalia Leven (AECOM), Karina Ricks (Nelson-Nygaard).

II. Meeting Summary of February 17, 2016 Meeting Ms. Judy

- Ms. Turner moved to approve the minutes of February 17, 2016 meeting; seconded by Mr. Ciccarelli. Motion carried unanimously.

Discussion/Information

III. NVTA Update Ms. Backmon

- Ms. Backmon provided a summary of the March 10th NVTA meeting.
 - The Authority approved, via consent, the local distribution fund (30%) budget, regional revenue fund (70%) budget, and FY2017 NVTA operating budget.
 - The Authority approved the FY2022 CMAQ/RSTP programming allocations.
- Ms. Backmon informed that the work session for the Authority's 5-Year Strategic Plan is scheduled for April 11th.

IV. TransAction Update: Future Scenario Building Mr. Jasper

- Mr. Jasper introduced the scenario building for TransAction as way to understand the different future possibilities rather than predicting one future condition.

- Ms. Leven presented the TransAction process as a series of steps including identification of projects, organization of projects into themes, testing of themes against future scenarios, and recommendation of corridor themes.
- Ms. Leven mentioned that theme does not necessarily mean one mode but more of a set of solutions to address a need or set of needs in a corridor.
- In response to Dr. Zhu's question, Ms. Ricks explained that projects or themes will not be thrown out if analysis showed that that theme did not work the best. A set of projects will be assembled that will give the best result.
- Dr. Zhu cautioned that one big project can influence the total score if all projects in one package are assigned one score while analyzing.
- Ms. Leven mentioned that the definition of likely future scenarios will lead to identification of needs for those scenarios. This could further lead to testing of solution packages that are effective across scenarios.
- In response to Ms. Ichter's request for differentiation among corridor, theme, and solution packages, Ms. Leven explained that corridors are physical set of streets/highways/transit routes; themes include freeway, transit, ITS, or bike-ped treatments; and solution packages include set of projects that can address the potential needs arising from future scenarios under different themes on particular corridors.
- Mr. Ciccarelli cautioned that keeping a number of moving parts in the analysis could result in difficulty to measure the impact of solutions.
- Ms. Leven mentioned that the solutions will be evaluated theme by theme before considering a mix-match to enable better impact measurement.
- Ms. Leven agreed with Dr. Zhu that this is similar to sensitivity tests where the scenarios will be based on a range of potential changes in travel behavior, technology, and fuel price among others.
- Dr. Zhu pointed out that the elements mentioned include system-wide (e.g. demographic changes) and localized (e.g. activity pattern) and needs to be addressed carefully in the modeling process.
- In response to Ms. Backmon's question, Ms. Ricks mentioned that similar scenario testing has been carried out by other agencies in the country including Delaware Valley Regional Planning Commission (DVRPC), the MPO for the Philadelphia region.
- In response to Mr. Ciccarelli's question, Ms. Leven mentioned that the main criticism of scenario approach are that it is time consuming and costly. Such exercises might introduce discussion on induced demand/behavior and can be construed as social engineering.
- Ms. Leven agreed with Ms. Judy that multiple iterations of the analysis might be needed.
- Ms. Leven mentioned that the future scenarios will be compared to a baseline scenario that will be based on current forecasts and continuation of current travel and activity trends.
- Ms. Leven presented draft Scenario A (increased vehicle travel) and Scenario B (reduced vehicle travel).

- Ms. Ricks affirmed to Mr. Ciccarelli that Scenario A assumes the demographic and land use factors to remain the same as baseline.
- Dr. Zhu suggested that the impact of technological changes on transit will be different from that on road travel and therefore, need to be considered carefully.
- Ms. Leven agreed with Mr. Ciccarelli that Scenario C could be a combination of Scenarios A and B or something that might have a catastrophic impact on travel.
- In response to Dr. Zhu's suggestion of comparing technological changes with the Smart City proposals shortlisted by the Federal Highway Administration (FHWA), Ms. Ricks mentioned that the team is looking into smart city concepts in its literature research.
- Ms. Judy suggested to explain to the public the reasoning for scenario building, preferably through graphics, as a way to make public presentations easier to understand.
- Ms. Turner suggested to make the idea of themes and packages simpler.
- Ms. Ichter suggested to start at a bracketing stage (e.g. sensitivity test) rather than concept level.
- Dr. Zhu mentioned that scenario planning goes beyond the common practice of high or low forecasts to look at different behavioral patterns.
- Mr. Ciccarelli suggested to have a better storytelling at a high level.

Adjournment

V. **Adjourn**

Ms. Judy

- Meeting adjourned at 8:35pm.



Evaluation of Significant Transportation Projects in NoVA (FY17)

Draft Project Performance and Ratings

NVTA Planning and Programming Committee

4/18/16

Agenda

- **Background**
- **Implementation**
 - **FY15-16 Nominated Projects**
 - **FY17 Nominated Projects**
- **Meetings with Localities**
- **2020 and 2040 Performance and Ratings**
- **Discussion**
- **Next Steps**

Background: Legislation

- **HB599 was passed by the 2012 VA General Assembly**
 - **Mandated that VDOT evaluate and rate at least 25 significant transportation projects in the NOVA transportation district**
 - **Ratings to be based on the project's ability to reduce congestion and improve mobility during a homeland security emergency**
- **HB2313 was passed by the 2013 VA General Assembly**
 - **Provided a revenue stream for NVTAA to fund projects**
 - **70% of the revenues to fund projects rated by HB599 and in the regional transportation plan**
 - **Pertained to all projects other than transit capacity projects**
 - **Amended in 2015 to require ratings for transit projects**

Background: Development

- In 2013-2014, VDOT and DRPT, with CTB, NVTA and NOVA localities, implemented an evaluation and rating process
 - Used detailed transportation demand models to assess the congestion and mobility impacts in 2020 and 2040
 - Included stakeholder reviews and a Peer Review Group, consisting of subject matter experts from outside of Virginia
 - Developed performance measures and weights in cooperation with stakeholders and NVTA
 - Multimodal performance measures selected
 - Used *Decision Lens* process to facilitate weighting of performance measures

Performance Measures

Congestion Reduction Measures

- **Congestion Duration (27.9%)** = reduction in the number of hours of the day auto and transit passengers experience heavily congested travel conditions.
- **Person Hours of Delay (20.3%)** = reduction in the number of person hours of travel time above free flow travel time.
- **Person Hours of Congested Travel in Automobiles (15.4%)** = reduction in the number of person hours of travel in automobiles and trucks on heavily congested facilities.
- **Person Hours of Congested Travel in Transit Vehicles (11.8%)** = reduction in the number of person hours of travel in buses and trains on heavily congested facilities or in crowded vehicles.
- **Transit Crowding (11.5%)** = reduction in the number of transit person miles experiencing crowded conditions (local bus > 1.0; express bus and commuter rail > 0.9; Metrorail > 100 passengers/car).

Mobility Measures

- **Accessibility to Jobs (9.5%)** = increase in the number of jobs that can be reached from each household based on a 45 minute travel time by automobile and a 60 minute travel time by transit.
- **Emergency Mobility (3.6%)** = increase in the person hours of travel time resulting from a 10 percent increase in peak hour trip making.

Project Ratings

- **Project performance score is based on the project that generated the greatest change for a given measure**
 - **The project with the greatest change is awarded 100 points**
 - **All other projects are awarded a performance score by dividing their performance by the greatest performance change**
- **Rating = the performance measure score (0-100) multiplied by the performance measure weight and summed**

FY15-16 Nominated Projects

- **The first application of the HB599 process was for the NVTA FY15-16 program**
 - **37 highway/ITS projects were evaluated and rated**
 - **NVTA used the HB599 2040 ratings to measure congestion relief in their scoring and prioritizing of projects**
 - **The ratings accounted for 35% of the NVTA score**

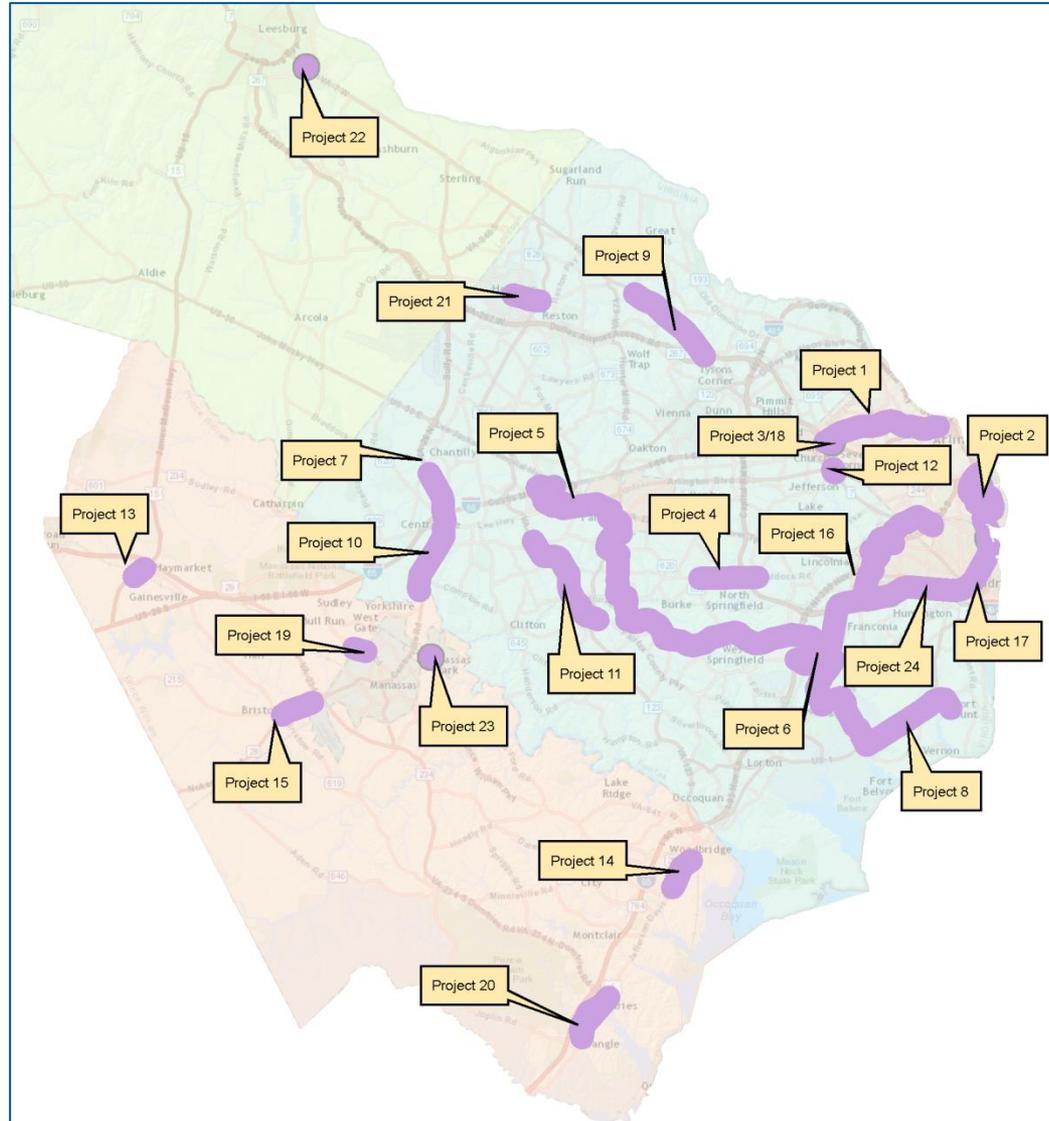
Process Changes for FY17 Application

- **Modified process to evaluate and rate transit projects**
 - **Tested three sample large scale transit projects (fall 2015)**
- **Process can now evaluate multimodal projects with both highway and transit components**
- **Updated land uses and networks to 2015 Constrained Long Range Plan and Cooperative Forecasts (Round 8.4) for 2020 and 2040**
 - **Includes Transform66 projects inside and outside the Beltway**
- **Removed all nominated projects from baseline networks and added back one by one**
 - **Provides a common base for all projects**
- **Reevaluated projects re-submitted from the FY15-16 program using improved models**

NVTA FY17 Nominated Projects

ID	Code	Project Name	Location
1	6R	Lee Highway Corridor ITS Enhancements	Arlington
2	8Y	Crystal City Streets	Arlington
3	6S	East Falls Church Bikeshare Connections	Arlington
4	7D	Braddock Road HOV Widening	Fairfax
5	9P	Fairfax Connector Bus Purchase and Service	Fairfax
6	8Z	Frontier Drive Extension and Braided Ramps	Fairfax
7	6T	I-66-Route 28 Interchange Improvements	Fairfax
8	8AA	Widening US 1 (Mt. Vernon Hwy to Napper Rd)	Fairfax
9	1S	Route 7 Widening (Colvin Forest to Jarrett Valley)	Fairfax
10	3M	Route 28 Widening (PWC Line to Route 29)	Fairfax
11	5D	Fairfax County Pkwy (Route 123 to Route 29)	Fairfax
12	6U	Seven Corners Ring Road Improvements	Fairfax
13	6V	Widen Route 15 (Route 55 to south of RR Tracks)	PWC
14	8BB	Widen Route 1 (Featherstone Rd to Mary's Way)	PWC
15	3N	Widen Route 28 (Route 234 to Linton Hall Rd)	PWC
16	8CC	Westend Transitway	Alexandria
17	8DD	Potomac Yard Metrorail Station	Alexandria
18	6W	Bikeshare Connections to Metrorail Stations	Falls Church
19	3P	Sudley Road Westbound (Godwin Dr to Dorsey)	Manassas
20	8EE	Widen Route 1 (Brady's Hill Road to Route 234)	Dumfries
21	1T	East Elden Street Widening	Herndon
22	1U	Route 7 - Battlefield Parkway Interchange	Leesburg
23	3Q	VRE Manassas Park Station Parking Expansion	VRE
24	8FF	Metrorail Blue Line Traction Power Upgrade	WMATA

FY17 Project Location Map



FY17 Nominated Project Types

- **24 projects nominated by NVTA**
 - **13 roadway improvements/widenings**
 - **6 transit projects**
 - **2 interchange construction**
 - **1 ITS traveler information / traffic management project**
 - **1 combined bike/ped/transit project**

Meetings with Localities

- **February 16 – March 11: meetings / webinars with stakeholders to review project coding and impact areas**
- **April 1 – April 12: meetings / webinars with stakeholders to review project results and preliminary ratings**
 - **Described the changes to the process**
 - **Showed maps of volume and congestion impacts**
 - **Shared project-specific performance measures and draft ratings for locality's projects only**
 - **Discussed issues and potential refinements based on comments**

2020 Performance Ratings

2020 Performance Measures (4/15/16 Final Draft)			Reduce Congestion Duration (hrs*In-mi)	Reduce Person Hours of Delay	Reduce Congested Person Hours in Autos	Reduce Congested Person Hours in Transit	Reduce Transit Crowding (PMT)	Increase Access to Jobs (45/60 minutes)	Improve Emergency Mobility (hours)	Project Rating
ID	Project Name	Location	27.9%	20.3%	15.4%	11.8%	11.5%	9.5%	3.6%	100.0%
	Northern Virginia Totals	NoVA	9,735	1,305,731	1,233,467	140,042	273,982	1,454,449	740,144	
7	6T I-66-Route 28 Interchange Improvements	Fairfax	(52.0)	(11,095)	(11,486)	(82.0)	(37.3)	3,233	(4,898)	77.4
10	3M Route 28 Widening (PWC Line to Route 29)	Fairfax	(49.3)	(6,477)	(7,994)	(37.3)	(9.8)	3,303	(2,756)	60.9
24	8FF Metrorail Blue Line Traction Power Upgrade	WMATA	(5.9)	(3,130)	(531)	(1,490.9)	(1,856.0)	3,010	(2,999)	43.8
11	5D Fairfax County Pkwy (Route 123 to Route 29)	Fairfax	(45.5)	(4,594)	(3,256)	(34.3)	(8.4)	1,574	(1,174)	42.9
8	8AA Widening US 1 (Mt. Vernon Hwy to Napper Rd)	Fairfax	(32.7)	(1,583)	(1,021)	(29.9)	(9.6)	2,573	(847)	30.1
4	7D Braddock Road HOV Widening	Fairfax	(26.6)	(2,132)	(3,349)	(575.3)	(10.8)	744	(297)	29.6
17	8DD Potomac Yard Metrorail Station	Alexandria	(6.1)	(3,287)	(1,380)	(1,380.5)	(50.5)	1,928	(765)	28.5
14	8BB Widen Route 1 (Featherstone Rd to Mary's Way)	PWC	(9.1)	(3,677)	(4,112)	(52.5)	(13.5)	2,162	(612)	24.3
20	8EE Widen Route 1 (Brady's Hill Road to Route 234)	Dumfries	(10.3)	(4,009)	(4,201)	(1.6)	-	1,202	(447)	22.3
9	1S Route 7 Widening (Colvin Forest to Jarrett Valley)	Fairfax	(17.0)	(2,535)	(3,402)	(25.3)	(4.5)	965	(1,145)	22.2
15	3N Widen Route 28 (Route 234 to Linton Hall Rd)	PWC	(17.1)	(1,206)	(814)	(2.6)	(3.2)	453	(211)	14.0
16	8CC Westend Transitway	Alexandria	(4.5)	(1,344)	(1,050)	(440.4)	(116.0)	848	(583)	13.4
1	6R Lee Highway Corridor ITS Enhancements	Arlington	(8.6)	(553)	(401)	(18.7)	(14.6)	306	(115)	7.4
23	3Q VRE Manassas Park Station Parking Expansion	VRE	(3.2)	(1,370)	(92)	(40.0)	(13.0)	863	(58)	7.3
22	1U Route 7 - Battlefield Parkway Interchange	Leesburg	(10.5)	(275)	(49)	(1.5)	-	115	(221)	6.7
6	8Z Frontier Drive Extension and Braided Ramps	Fairfax	(7.2)	(435)	(120)	(35.8)	(1.8)	208	(148)	5.8
19	3P Sudley Road Westbound (Godwin Dr to Dorsey)	Manassas	(4.6)	(334)	(291)	(2.4)	-	261	(56)	4.3
2	8Y Crystal City Streets	Arlington	(3.1)	(237)	(56)	(80.2)	(9.3)	370	(43)	4.0
5	9P Fairfax Connector Bus Purchase and Service	Fairfax	(2.8)	(247)	(47)	(59.0)	(20.0)	369	(48)	3.7
12	6U Seven Corners Ring Road Improvements	Fairfax	(4.5)	(224)	(245)	(2.8)	(1.1)	110	(85)	3.6
13	6V Widen Route 15 (Route 55 to south of RR Tracks)	PWC	(3.5)	(157)	(140)	(1.7)	-	38	(97)	2.6
3	6S East Falls Church Bikeshare Connections	Arlington	(1.8)	(110)	(83)	(44.2)	(10.4)	133	(125)	2.2
18	6W Bikeshare Connections to Metrorail Stations	Falls Church	(1.8)	(110)	(83)	(44.2)	(10.4)	133	(125)	2.2
21	1T East Elden Street Widening	Herndon	(1.2)	(56)	(174)	(2.1)	(0.4)	19	(51)	1.1

2040 Performance Ratings

2040 Performance Measures (4/15/16 Final Draft)			Reduce Congestion Duration (hrs*In-mi)	Reduce Person Hours of Delay	Reduce Congested Person Hours in Autos	Reduce Congested Person Hours in Transit	Reduce Transit Crowding (PMT)	Increase Access to Jobs (45/60 minutes)	Improve Emergency Mobility (hours)	Project Rating
ID	Project Name	Location	27.9%	20.3%	15.4%	11.8%	11.5%	9.5%	3.6%	100.0%
	Northern Virginia Totals	NoVA	12,053	1,760,909	1,663,223	163,887	342,478	1,818,061	976,214	
7	6T I-66-Route 28 Interchange Improvements	Fairfax	(52.0)	(13,446)	(13,318)	(143.6)	(65.5)	4,670	(8,382)	78.2
10	3M Route 28 Widening (PWC Line to Route 29)	Fairfax	(48.8)	(6,703)	(8,681)	(56.3)	(15.0)	4,117	(4,488)	57.1
9	1S Route 7 Widening (Colvin Forest to Jarrett Valley)	Fairfax	(49.9)	(7,281)	(9,214)	(68.8)	(46.5)	2,334	(3,461)	55.5
24	8FF Metrorail Blue Line Traction Power Upgrade	WMATA	(17.6)	(4,813)	(1,240)	(1,656.5)	(1,439.0)	1,936	(1,531)	46.0
11	5D Fairfax County Pkwy (Route 123 to Route 29)	Fairfax	(40.4)	(6,230)	(5,230)	(58.8)	(14.0)	2,247	(2,619)	43.4
17	8DD Potomac Yard Metrorail Station	Alexandria	(24.1)	(4,617)	(1,688)	(1,519.5)	(65.7)	1,325	(1,069)	36.4
8	8AA Widening US 1 (Mt. Vernon Hwy to Napper Rd)	Fairfax	(33.0)	(1,666)	(4,673)	(81.0)	(26.5)	4,415	(926)	35.8
14	8BB Widen Route 1 (Featherstone Rd to Mary's Way)	PWC	(21.2)	(5,296)	(6,216)	(84.0)	(13.5)	3,110	(857)	34.0
20	8EE Widen Route 1 (Brady's Hill Road to Route 234)	Dumfries	(15.0)	(5,877)	(6,351)	(2.5)	-	1,760	(625)	28.1
4	7D Braddock Road HOV Widening	Fairfax	(25.5)	(1,368)	(1,871)	(441.9)	(16.0)	1,226	(737)	24.0
15	3N Widen Route 28 (Route 234 to Linton Hall Rd)	PWC	(25.6)	(2,019)	(1,356)	(3.4)	(3.4)	751	(342)	20.1
16	8CC Westend Transitway	Alexandria	(5.6)	(1,745)	(1,397)	(657.0)	(272.0)	1,021	(628)	16.5
22	1U Route 7 - Battlefield Parkway Interchange	Leesburg	(19.1)	(772)	(639)	(2.5)	(2.0)	1,024	(483)	14.5
6	8Z Frontier Drive Extension and Braided Ramps	Fairfax	(13.8)	(603)	(599)	(41.3)	(2.2)	242	(508)	10.0
1	6R Lee Highway Corridor ITS Enhancements	Arlington	(10.1)	(1,211)	(878)	(48.0)	(36.5)	514	(136)	10.0
12	6U Seven Corners Ring Road Improvements	Fairfax	(11.4)	(530)	(1,332)	(22.6)	(2.2)	172	(341)	9.1
19	3P Sudley Road Westbound (Godwin Dr to Dorsey)	Manassas	(10.4)	(794)	(629)	(3.2)	(0.5)	433	(186)	8.5
23	3Q VRE Manassas Park Station Parking Expansion	VRE	(4.2)	(1,501)	(170)	(48.0)	(15.0)	956	(43)	7.1
2	8Y Crystal City Streets	Arlington	(3.4)	(357)	(299)	(137.8)	(15.0)	379	(109)	4.6
5	9P Fairfax Connector Bus Purchase and Service	Fairfax	(4.2)	(314)	(65)	(74.1)	(25.0)	333	(55)	4.2
13	6V Widen Route 15 (Route 55 to south of RR Tracks)	PWC	(4.8)	(267)	(262)	(2.0)	-	62	(172)	3.5
21	1T East Elden Street Widening	Herndon	(3.8)	(115)	(210)	(4.2)	(0.4)	21	(60)	2.6
3	6S East Falls Church Bikeshare Connections	Arlington	(2.0)	(146)	(110)	(55.0)	(13.0)	94	(163)	2.2
18	6W Bikeshare Connections to Metrorail Stations	Falls Church	(2.0)	(146)	(110)	(55.0)	(13.0)	94	(163)	2.2

Performance Rating Summary

2020 Project Ranking (4/15/16 Final Draft)				Project Rating
ID	Project Name	Location		
7	6T	I-66-Route 28 Interchange Improvements	Fairfax	77.4
10	3M	Route 28 Widening (PWC Line to Route 29)	Fairfax	60.9
24	8FF	Metrorail Blue Line Traction Power Upgrade	WMATA	43.8
11	5D	Fairfax County Pkwy (Route 123 to Route 29)	Fairfax	42.9
8	8AA	Widening US 1 (Mt. Vernon Hwy to Napper Rd)	Fairfax	30.1
4	7D	Braddock Road HOV Widening	Fairfax	29.6
17	8DD	Potomac Yard Metrorail Station	Alexandria	28.5
14	8BB	Widen Route 1 (Featherstone Rd to Mary's Way)	PWC	24.3
20	8EE	Widen Route 1 (Brady's Hill Road to Route 234)	Dumfries	22.3
9	1S	Route 7 Widening (Colvin Forest to Jarrett Valley)	Fairfax	22.2
15	3N	Widen Route 28 (Route 234 to Linton Hall Rd)	PWC	14.0
16	8CC	Westend Transitway	Alexandria	13.4
1	6R	Lee Highway Corridor ITS Enhancements	Arlington	7.4
23	3Q	VRE Manassas Park Station Parking Expansion	VRE	7.3
22	1U	Route 7 - Battlefield Parkway Interchange	Leesburg	6.7
6	8Z	Frontier Drive Extension and Braided Ramps	Fairfax	5.8
19	3P	Sudley Road Westbound (Godwin Dr to Dorsey)	Manassas	4.3
2	8Y	Crystal City Streets	Arlington	4.0
5	9P	Fairfax Connector Bus Purchase and Service	Fairfax	3.7
12	6U	Seven Corners Ring Road Improvements	Fairfax	3.6
13	6V	Widen Route 15 (Route 55 to south of RR Tracks)	PWC	2.6
3	6S	East Falls Church Bikeshare Connections	Arlington	2.2
18	6W	Bikeshare Connections to Metrorail Stations	Falls Church	2.2
21	1T	East Elden Street Widening	Herndon	1.1

2040 Project Ranking (4/15/16 Final Draft)				Project Rating
ID	Project Name	Location		
7	6T	I-66-Route 28 Interchange Improvements	Fairfax	78.2
10	3M	Route 28 Widening (PWC Line to Route 29)	Fairfax	57.1
9	1S	Route 7 Widening (Colvin Forest to Jarrett Valley)	Fairfax	55.5
24	8FF	Metrorail Blue Line Traction Power Upgrade	WMATA	46.0
11	5D	Fairfax County Pkwy (Route 123 to Route 29)	Fairfax	43.4
17	8DD	Potomac Yard Metrorail Station	Alexandria	36.4
8	8AA	Widening US 1 (Mt. Vernon Hwy to Napper Rd)	Fairfax	35.8
14	8BB	Widen Route 1 (Featherstone Rd to Mary's Way)	PWC	34.0
20	8EE	Widen Route 1 (Brady's Hill Road to Route 234)	Dumfries	28.1
4	7D	Braddock Road HOV Widening	Fairfax	24.0
15	3N	Widen Route 28 (Route 234 to Linton Hall Rd)	PWC	20.1
16	8CC	Westend Transitway	Alexandria	16.5
22	1U	Route 7 - Battlefield Parkway Interchange	Leesburg	14.5
6	8Z	Frontier Drive Extension and Braided Ramps	Fairfax	10.0
1	6R	Lee Highway Corridor ITS Enhancements	Arlington	10.0
12	6U	Seven Corners Ring Road Improvements	Fairfax	9.1
19	3P	Sudley Road Westbound (Godwin Dr to Dorsey)	Manassas	8.5
23	3Q	VRE Manassas Park Station Parking Expansion	VRE	7.1
2	8Y	Crystal City Streets	Arlington	4.6
5	9P	Fairfax Connector Bus Purchase and Service	Fairfax	4.2
13	6V	Widen Route 15 (Route 55 to south of RR Tracks)	PWC	3.5
21	1T	East Elden Street Widening	Herndon	2.6
3	6S	East Falls Church Bikeshare Connections	Arlington	2.2
18	6W	Bikeshare Connections to Metrorail Stations	Falls Church	2.2

Next Steps

- **Receive comments from PPC**
- **Share Ratings with NVTA TAC – April 20**
- **Address comments and revise ratings if necessary**
- **Provide final ratings to NVTA – April 30th**