

FY2024-2029 Six Year Program

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Planning and Programming Committee

April 8, 2024

Project Selection Process



Multiple Components:

1. Eligibility

- TransAction ID; project descriptions will be verified
- Project location
- Governing Body resolution(s)

2. Quantitative Analyses

- Congestion Reduction Relative to Cost (CRRC) – initial ranking uses this measure
- TransAction Project Ratings, formerly HB 599 (2012)
- Long Term Benefit (LTB)

3. Qualitative Considerations

- Past performance
- Previous NVTA allocation
- Funding gaps
- External funding (committed sources only)
- Alignment with Core Values
- Geographic/modal balance

4. Public Comment

Summary of Applications



Northern Virginia Transportation Authority Summary of FY2024-2029 Six Year Program Candidate Projects

3/28/2024

#	Project ID#	Jurisdiction / Agency	Project	Fund request	Previous NVTA funds	Other committed funds	Total project cost	Funding gap excluding NVTA request	Phases for which funds are requested	Phases for which there is still a funding gap	Primary and supporting modal components	Local Priority
1	ARL-023	Arlington County	CC2DCA Multimodal Connection (formerly known as CC2DCA Intermodal Connector)	\$ 21,100,000	\$ 18,000,000	\$ 18,100,000	\$ 57,200,000	\$ -	CN			1
2	ARL-022	Arlington County	Shirlington Bus Station Expansion	\$ 11,600,000		\$ 200,000	\$ 11,800,000	\$ -	PE, ROW, CN			2
3	FFX-134	Fairfax County	Frontier Drive Extension and Intersection Improvements	\$ 164,992,286	\$ 27,000,000	\$ 49,638,314	\$ 241,630,600	\$ -	PE, ROW, CN			1
4	FFX-136	Fairfax County	Braddock Road Multimodal Improvements Phase II (Humphries Drive to Southampton Drive)	\$ 90,000,000		\$ 5,286,334	\$ 95,286,334	\$ -	PE, ROW, CN			2
5	FFX-135	Fairfax County	Route 7 Multimodal Improvements (I-495 to I-66)	\$ 210,000,000		\$ 34,407,921	\$ 244,407,921	\$ -	PE, ROW, CN			3
6	FFX-138	Fairfax County	Seven Corners Ring Road Improvements	\$ 122,229,417	\$ 4,200,000	\$ 6,261,000	\$ 132,690,417	\$ -	PE, ROW, CN			4
7	LDN-034	Loudoun County	Route 15 at Braddock Road Roundabout	\$ 10,000,000		\$ 15,655,000	\$ 25,655,000	\$ -	ROW, CN			1
8	LDN-033	Loudoun County	Sycolin Road Widening - Loudoun Center Place to Crosstrail Boulevard	\$ 15,000,000		\$ 17,861,000	\$ 32,861,000	\$ -	ROW, CN			2
9	LDN-029	Loudoun County	Old Ox Road Widening - Shaw Road to Oakroye Road	\$ 30,000,000		\$ 19,350,000	\$ 49,350,000	\$ -	CN			3
10	PWC-040	Prince William County	Route 234 and Sudley Manor Drive Interchange	\$ 115,000,000		\$ -	\$ 115,000,000	\$ -	PE, ROW, CN			1
11	PWC-041	Prince William County	Route 234 Bicycle and Pedestrian Facility Over I-95	\$ 12,000,000		\$ -	\$ 12,000,000	\$ -	PE, ROW, CN			2
12	PWC-043	Prince William County	The Landing at Prince William Transit Center	\$ 25,000,000		\$ -	\$ 25,000,000	\$ -	PE, ROW, CN			3
13	PWC-044	Prince William County	Triangle Mobility Hub and First/Last Mile Connection Improvements	\$ 10,000,000		\$ -	\$ 10,000,000	\$ -	PE, ROW, CN			4
14	PWC-042	Prince William County	Route 234 Operational Improvements	\$ 10,000,000		\$ -	\$ 10,000,000	\$ -	PE, CN, Asset			5
15	ALX-029	City of Alexandria	Safety Improvements at High-Crash Intersections	\$ 3,000,000		\$ 1,000,000	\$ 20,500,000	\$ 16,500,000	PE	ROW, CN		1
16	ALX-033	City of Alexandria	Alexandria Metroway Enhancements	\$ 7,000,000		\$ 7,924,792	\$ 14,924,792	\$ -	ROW, CN			2
17	ALX-032	City of Alexandria	South Van Dorn Street Bridge Enhancements	\$ 10,000,000	\$ 5,000,000	\$ 70,000	\$ 15,070,000	\$ -	CN			3
18	ALX-037	City of Alexandria	Smart & Connected Vehicle Infrastructure	\$ 5,000,000	\$ -	\$ 50,000	\$ 5,050,000	\$ -	PE, CN			4
19	CFX-019	City of Fairfax	Blenheim Boulevard Multimodal Improvements (formerly, Old Lee Highway Multimodal Improvements)	\$ 5,400,000	\$ 13,000,000	\$ 12,000,000	\$ 30,400,000	\$ -	CN			1
20	CFX-018	City of Fairfax	Northfax Network Improvements - Northfax East-West Road	\$ 18,332,754		\$ -	\$ 18,332,754	\$ -	PE, ROW, CN			2
21	CFC-011	City of Falls Church	City of Falls Church Signal Prioritization Project	\$ 1,400,000		\$ -	\$ 1,400,000	\$ -	PE, CN			1
22	MAN-003	City of Manassas	Roundabout at Route 28 and Sudley Rd	\$ 4,020,000		\$ 1,475,000	\$ 5,495,000	\$ -	CN			1
23	CMP-001	City of Manassas Park	Route 28-Centreville Road Corridor Improvements	\$ 40,000,000		\$ -	\$ 40,000,000	\$ -	PE, ROW, CN			1
24	VRE-017	VRE	VRE Backlick Road Station Improvements	\$ 6,145,103		\$ 2,500,000	\$ 8,645,103	\$ -	CN			1
TOTAL				\$ 947,219,560	\$ 67,200,000	\$ 191,779,361	\$ 1,222,698,921	\$ 16,500,000				

Modal Components

- New or improved roadway capacity and/or alignment
- New or improved intersection/interchange
- Improvement/access to Metrorail/VRE commuter rail
- New or improved bus/BRT facility
- New or improved bicycle facility
- New or improved pedestrian facility
- Transportation Technology
- Parking

Phases

- PE Design/Engineering/Environmental
- ROW Right of Way/Utilities
- CN Construction
- Asset Acq Asset Acquisition

First symbol reflects the primary modal component, other symbols denote supporting modal components

Summary of Applications



Northern Virginia Transportation Authority Summary of FY2024-2029 Six Year Program Candidate Projects

#	Jurisdiction	Number of applications	% of Total	Request	Previous NVTA 70% Funds	Other Funds	Total Cost	Gap	% of Total Request
1	Arlington County	2	8%	\$ 32,700,000	\$ 18,000,000	\$ 18,300,000	\$ 69,000,000	\$ -	3%
2	Fairfax County	4	17%	\$ 587,221,703	\$ 31,200,000	\$ 95,593,569	\$ 714,015,272	\$ -	62%
3	Loudoun County	3	13%	\$ 55,000,000	\$ -	\$ 52,866,000	\$ 107,866,000	\$ -	6%
4	Prince William County	5	21%	\$ 172,000,000	\$ -	\$ -	\$ 172,000,000	\$ -	18%
5	City of Alexandria	4	17%	\$ 25,000,000	\$ 5,000,000	\$ 9,044,792	\$ 55,544,792	\$ 16,500,000	3%
6	City of Fairfax	2	8%	\$ 23,732,754	\$ 13,000,000	\$ 12,000,000	\$ 48,732,754	\$ -	3%
7	City of Falls Church	1	4%	\$ 1,400,000	\$ -	\$ -	\$ 1,400,000	\$ -	0%
8	City of Manassas	1	4%	\$ 4,020,000	\$ -	\$ 1,475,000	\$ 5,495,000	\$ -	0%
9	City of Manassas Park	1	4%	\$ 40,000,000	\$ -	\$ -	\$ 40,000,000	\$ -	4%
10	VRE	1	4%	\$ 6,145,103	\$ -	\$ 2,500,000	\$ 8,645,103	\$ -	1%
	TOTAL	24	100%	\$ 947,219,560	\$ 67,200,000	\$ 191,779,361	\$ 1,222,698,921	\$ 16,500,000	100%

#	Mode	Number of applications	% of Total	Request	% of Total Request	Other Funds	Total project cost
1	Roadway	6	25%	\$ 560,554,457	59%	\$ 127,518,235	\$ 719,272,692
2	Interchange/Intersection	5	21%	\$ 259,020,000	27%	\$ 22,416,334	\$ 281,436,334
3	Commuter Rail	1	4%	\$ 6,145,103	1%	\$ 2,500,000	\$ 8,645,103
4	Bus	5	21%	\$ 63,600,000	7%	\$ 8,194,792	\$ 76,794,792
5	Bike-ped	4	17%	\$ 41,500,000	4%	\$ 31,100,000	\$ 120,100,000
6	Technology	3	13%	\$ 16,400,000	2%	\$ 50,000	\$ 16,450,000
	Total	24	100%	\$ 947,219,560	100%	\$ 191,779,361	\$ 1,222,698,921

Number of continuation projects	5	\$ 323,721,703	\$ 476,991,017
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Summary of Applications



CRRC Rating



Northern Virginia Transportation Authority

3/28/2024

FY2024-29 Six Year Program Candidate Projects: Congestion Reduction Relative to Cost (CRRC)

Application ID	Jurisdiction	Project Title	Total Project Cost	NVTA Request	CRRC Rating	CRRC Rank
CFC-011	City of Falls Church	City of Falls Church Signal Prioritization Project	\$ 1,400,000	\$ 1,400,000	653.6	1
ALX-037	City of Alexandria	Smart & Connected Vehicle Infrastructure	\$ 5,050,000	\$ 5,000,000	277.6	2
PWC-042	Prince William County	Route 234 Operational Improvements	\$ 10,000,000	\$ 10,000,000	240.4	3
FFX-138	Fairfax County	Seven Corners Ring Road Improvements	\$ 132,690,417	\$ 122,229,417	114.2	4
MAN-003	City of Manassas	Roundabout at Route 28 and Sudley Rd	\$ 5,495,000	\$ 4,020,000	113.8	5
VRE-017	VRE	VRE Backlick Road Station Improvements	\$ 8,645,103	\$ 6,145,103	102.6	6
ALX-032	City of Alexandria	South Van Dorn Street Bridge Enhancements	\$ 15,070,000	\$ 10,000,000	33.0	7
ALX-033	City of Alexandria	Alexandria Metroway Enhancements	\$ 14,924,792	\$ 7,000,000	25.6	8
CMP-001	City of Manassas Park	Route 28-Centreville Road Corridor Improvements	\$ 40,000,000	\$ 40,000,000	24.8	9
CFX-019	City of Fairfax	Blenheim Boulevard Multimodal Improvements (formerly, Old Lee Highway Multimodal Improvements)	\$ 30,400,000	\$ 5,400,000	24.6	10
ALX-029	City of Alexandria	Safety Improvements at High-Crash Intersections	\$ 20,500,000	\$ 3,000,000	24.1	11
PWC-040	Prince William County	Route 234 and Sudley Manor Drive Interchange	\$ 115,000,000	\$ 115,000,000	23.3	12
PWC-043	Prince William County	The Landing at Prince William Transit Center	\$ 25,000,000	\$ 25,000,000	17.9	13
LDN-034	Loudoun County	Route 15 at Braddock Road Roundabout	\$ 25,655,000	\$ 10,000,000	16.3	14
PWC-044	Prince William County	Triangle Mobility Hub and First/Last Mile Connection Improvements	\$ 10,000,000	\$ 10,000,000	15.8	15
ARL-022	Arlington County	Shirlington Bus Station Expansion	\$ 11,800,000	\$ 11,600,000	14.5	16
PWC-041	Prince William County	Route 234 Bicycle and Pedestrian Facility Over I-95	\$ 12,000,000	\$ 12,000,000	13.6	17
CFX-018	City of Fairfax	Northfax Network Improvements - Northfax East-West Road	\$ 18,332,754	\$ 18,332,754	13.5	18
LDN-029	Loudoun County	Old Ox Road Widening - Shaw Road to Oakgrove Road	\$ 49,350,000	\$ 30,000,000	11.2	19
FFX-136	Fairfax County	Braddock Road Multimodal Improvements Phase II (Humphries Drive to Southampton Drive)	\$ 95,286,334	\$ 90,000,000	8.3	20
FFX-134	Fairfax County	Frontier Drive Extension and Intersection Improvements	\$ 241,630,600	\$ 164,992,286	6.3	21
LDN-033	Loudoun County	Sycolin Road Widening - Loudoun Center Place to Crosstrail Boulevard	\$ 32,861,000	\$ 15,000,000	5.2	22
FFX-135	Fairfax County	Route 7 Multimodal Improvements (I-495 to I-66)	\$ 244,407,921	\$ 210,000,000	2.2	23
ARL-023	Arlington County	CC2DCA Multimodal Connection (formerly known as CC2DCA Intermodal Connector)	\$ 57,200,000	\$ 21,100,000	1.0	24

TransAction Rating



Northern Virginia Transportation Authority FY2024-29 Six Year Program Candidate Projects: TransAction Rating

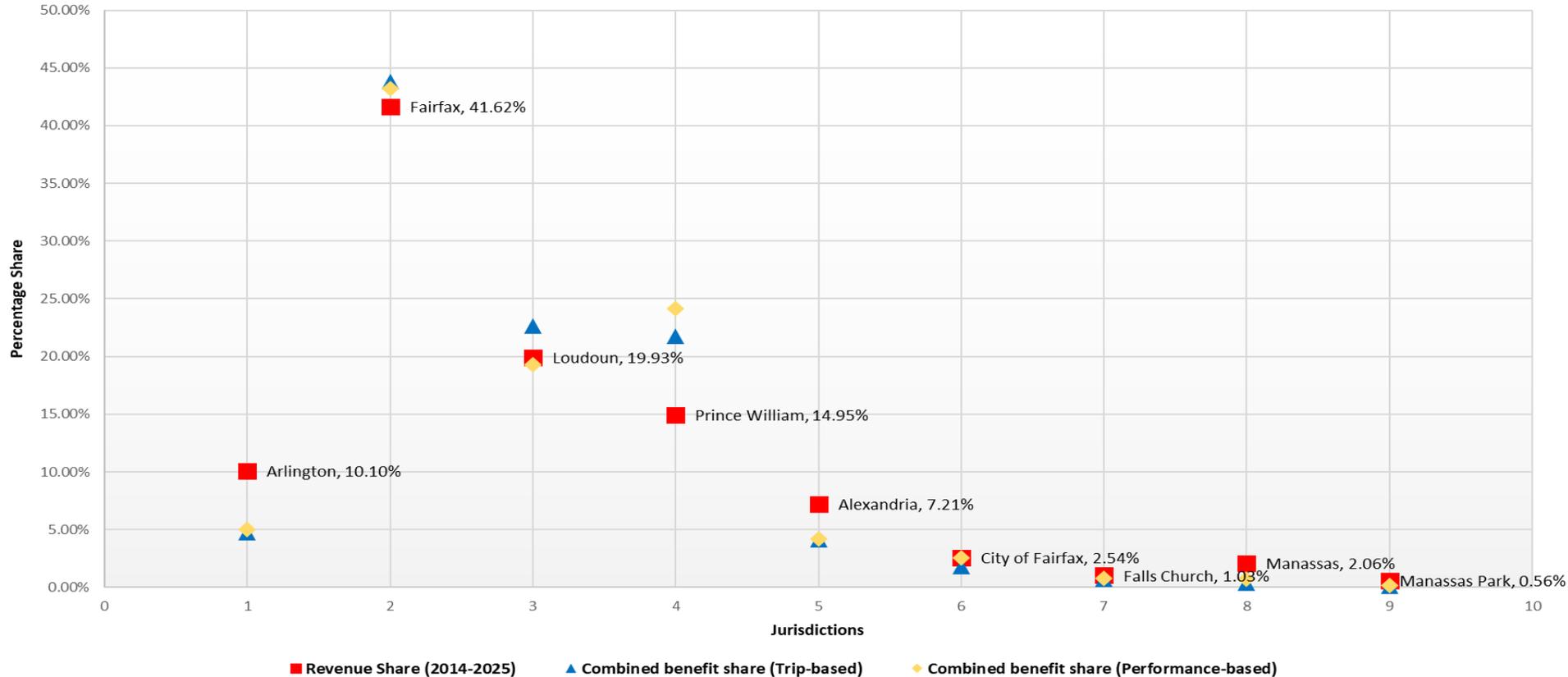
3/28/2024

Application ID	Jurisdiction	Project Title	Auto PHD Reduction (A1)	Transit PHD Reduction (A2)	Congestion Duration Reduction (B1)	Growth in PMT in Dedicated ROW (B2)	Growth in Total Access (C1)	Growth in Total EEA Access (C2)	Ped /Bike/ Transit Environment (D1)	Safety (E1)	Emissions Reduction (F1)	Surge Person Hours of Travel (G1)	TransAction Rating	TransAction Rating Rank
Weights			10%	10%	10%	10%	10%	10%	15%	10%	10%	5%	100%	
FFX-138	Fairfax County	Seven Corners Ring Road Improvements	100.00	100.00	36.82	0.00	100.00	79.63	54.18	47.62	100.00	41.58	66.61	1
ALX-032	City of Alexandria	South Van Dorn Street Bridge Enhancements	0.42	38.64	0.00	100.00	40.55	23.63	89.41	19.05	3.57	52.27	38.61	2
PWC-040	Prince William County	Route 234 and Sudley Manor Drive Interchange	19.63	0.00	23.85	0.00	89.97	100.00	15.64	38.10	48.86	60.51	37.41	3
CFX-018	City of Fairfax	Northfax Network Improvements - Northfax East-West Road	2.41	0.00	0.00	0.00	62.69	56.70	29.80	47.62	85.98	50.54	32.54	4
ALX-033	City of Alexandria	Alexandria Metroway Enhancements	0.12	25.22	0.00	46.36	39.14	13.18	100.00	23.81	4.53	42.53	32.36	5
FFX-135	Fairfax County	Route 7 Multimodal Improvements (I-495 to I-66)	0.95	34.11	0.00	32.03	83.73	19.61	41.82	57.14	2.68	44.68	31.53	6
FFX-134	Fairfax County	Frontier Drive Extension and Intersection Improvements	3.70	85.83	19.25	0.00	22.56	15.99	42.39	57.14	8.22	66.70	30.96	7
PWC-042	Prince William County	Route 234 Operational Improvements	13.02	4.78	100.00	0.00	59.72	37.39	0.00	4.76	41.97	60.51	29.19	8
CFC-011	City of Falls Church	City of Falls Church Signal Prioritization Project	0.11	83.11	0.00	33.89	46.08	22.69	18.57	4.76	8.33	60.39	25.70	9
ARL-023	Arlington County	CC2DCA Multimodal Connection (formerly known as CC2DCA Intermodal Connector)	0.25	0.00	0.00	41.16	31.77	7.28	83.46	19.05	0.00	50.46	24.99	10
ALX-029	City of Alexandria	Safety Improvements at High-Crash Intersections	3.64	0.00	15.06	0.00	13.81	6.73	42.46	100.00	9.76	59.58	24.25	11
VRE-017	VRE	VRE Backlick Road Station Improvements	0.38	50.28	0.00	51.41	63.93	21.61	0.00	9.52	13.99	56.09	23.92	12
MAN-003	City of Manassas	Roundabout at Route 28 and Sudley Rd	4.32	0.00	0.00	0.00	35.36	30.73	16.51	80.95	9.52	95.51	23.34	13
LDN-033	Loudoun County	Sycolin Road Widening - Loudoun Center Place to Crosstrail Boulevard	1.14	0.00	0.00	0.00	58.60	63.97	3.47	47.62	2.92	100.00	22.94	14
ALX-037	City of Alexandria	Smart & Connected Vehicle Infrastructure	2.49	85.56	21.34	0.00	43.05	14.49	0.00	23.81	4.18	44.10	21.70	15
LDN-029	Loudoun County	Old Ox Road Widening - Shaw Road to Oakgrove Road	3.29	0.00	2.51	0.00	57.62	53.05	19.86	14.29	14.69	59.24	20.49	16
PWC-043	Prince William County	The Landing at Prince William Transit Center	0.45	31.92	0.00	20.11	35.15	9.99	26.69	4.76	29.64	61.21	20.27	17
ARL-022	Arlington County	Shirlington Bus Station Expansion	0.14	10.81	0.00	37.34	43.87	17.77	25.30	4.76	1.19	63.12	18.54	18
FFX-136	Fairfax County	Braddock Road Multimodal Improvements Phase II (Humphries Drive to Southampton Drive)	5.65	0.00	23.43	0.00	1.38	0.00	14.88	71.43	14.94	50.76	16.45	19
LDN-034	Loudoun County	Route 15 at Braddock Road Roundabout	3.03	0.00	0.00	0.00	48.72	25.53	1.07	28.57	11.64	78.95	15.86	20
CMP-001	City of Manassas Park	Route 28-Centreville Road Corridor Improvements	7.56	0.00	48.54	0.00	0.30	0.00	9.08	33.33	31.49	42.08	15.59	21
PWC-044	Prince William County	Triangle Mobility Hub and First/Last Mile Connection Improvements	0.19	4.75	5.44	0.00	39.95	7.84	21.05	23.81	0.60	52.80	14.05	22
CFX-019	City of Fairfax	Blenheim Boulevard Multimodal Improvements (formerly, Old Lee Highway Multimodal Improvements)	3.91	0.00	21.76	0.00	2.47	0.00	28.32	33.33	5.89	47.83	13.38	23
PWC-041	Prince William County	Route 234 Bicycle and Pedestrian Facility Over I-95	1.14	0.00	0.00	0.00	0.00	0.00	7.18	14.29	0.00	34.82	4.36	24

Long Term Benefit



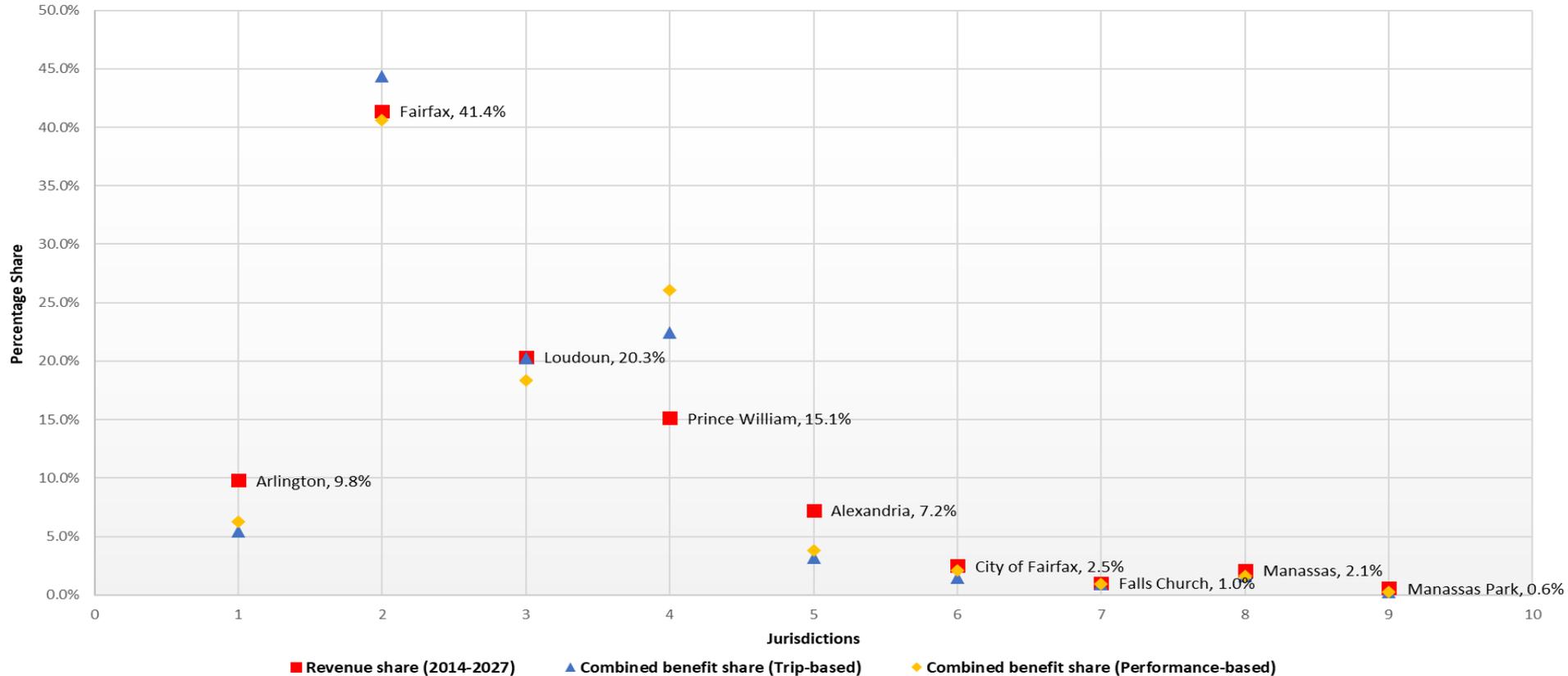
FY2022-2027 SYP (previous cycle)



Long Term Benefit



FY2024-2029 SYP (current cycle)



Evaluation Summary



Northern Virginia Transportation Authority FY2024-29 Six Year Program Candidate Projects: Summary of Quantitative and Qualitative Evaluations

3/7/2024

Application ID	Jurisdiction / Agency	Project	Primary and supporting modal components	Funding request	Previously Approved NVTA Regional Funds	Other committed funds	Total project cost	Phases for which funds are requested	Funding Gap	Phases for which there is BIF or funding gap	Local priority	External funds	Past performance (% of expected funds disbursed by 12/31/2023)	Compliance Satisfaction / Agency	Policy 29 non-compliance # of projects 12-month retrospective program	Policy 29 non-compliance # of projects 36-month retrospective program	SFA within 12 months	First fiscal year of expected drawdown	Year of opening	Alignment with Core Values			Other	Transactive project cost (incl. BIF, SFA)	Transactive project rating (incl. BIF, SFA)	CRMC (Excludes in annual reports hours of delay / Total project cost in \$100K)	CRMC rank		
																				Equity	Safety	Sustainability							
CFE-011	City of Falls Church	City of Falls Church Signal Prioritization Project	🚦	\$ 1,400,000		\$ -	\$ 1,400,000	PE, CN																25.70	9	653.57	1		
ALX-037	City of Alexandria	Smart B Connected Vehicle Infrastructure	🚗📶	\$ 5,000,000		\$ -	\$ 5,050,000	PE, CN																21.70	15	277.60	2		
PWC-042	Prince William County	Route 234 Operational Improvements	🚗	\$ 10,000,000		\$ -	\$ 10,000,000	PE, CN, Acq																29.19	8	240.43	3		
FFX-138	Fairfax County	Seven Corners Ring Road Improvements	🚗🚦	\$122,229,417	\$ 4,200,000	\$ 6,261,000	\$ 132,690,417	PE, ROW, CN																66.61	1	114.19	4		
MAN-003	City of Manassas	Roundabout at Route 28 and Soutley Rd	🚗🔄	\$ 4,020,000		\$ -	\$ 4,475,000	CN																23.34	13	113.76	5		
VRE-017	VRE	VRE Backlick Road Station Improvements	🚆	\$ 6,145,103		\$ 2,500,000	\$ 8,645,103	CN																23.92	12	102.62	6		
ALX-032	City of Alexandria	South Van Dorn Street Bridge Enhancements	🚗🚦	\$ 10,000,000	\$ 5,000,000	\$ 70,000	\$ 15,070,000	CN																					
ALX-033	City of Alexandria	Alexandria Metroway Enhancements	🚗🚦	\$ 7,000,000		\$ 7,924,792	\$ 14,924,792	ROW, CN																	38.61	2	33.00	7	
CMP-001	City of Manassas Park	Route 28 Centreville Road Corridor Improvements	🚗🚦	\$ 40,000,000		\$ -	\$ 40,000,000	PE, ROW, CN																	15.59	21	24.75	9	
CFX-019	City of Fairfax	Old Lee Highway Multimodal Improvements	🚗🚦	\$ 5,400,000	\$ 13,000,000	\$ 12,000,000	\$ 30,400,000	CN																	13.38	23	24.56	10	
ALX-029	City of Alexandria	Safety Improvements at High-Crash Intersections	🚗🚦	\$ 3,000,000		\$ 1,000,000	\$ 20,500,000	PE	\$16,500,000	ROW, CN															24.25	11	24.07	11	
PWC-040	Prince William County	Route 234 and Soutley Major Drive Interchange	🚗🔄	\$115,000,000		\$ -	\$ 115,000,000	PE, ROW, CN																	37.41	3	23.29	12	
PWC-043	Prince William County	The Landing at Prince William Transit Center	🚗🚦	\$ 25,000,000		\$ -	\$ 25,000,000	PE, ROW, CN																	20.27	17	17.86	13	
LDN-034	Loudoun County	Route 15 at Braddock Road Roundabout	🚗🔄	\$ 10,000,000		\$ 15,655,000	\$ 25,655,000	ROW, CN																	15.86	20	16.34	14	
PWC-044	Prince William County	Triangle Mobility Hub and First and Millie Connection Improvements	🚗🚦	\$ 10,000,000		\$ -	\$ 10,000,000	PE, ROW, CN																	14.05	22	15.82	15	
ARL-022	Arlington County	Washington Bus Station Expansion	🚗🚦	\$ 11,600,000		\$ 200,000	\$ 11,800,000	PE, ROW, CN																	18.54	18	14.52	16	
PWC-041	Prince William County	Route 234 Bicycle and Pedestrian Facility over I-66	🚗🚦	\$ 12,000,000		\$ -	\$ 12,000,000	PE, ROW, CN																		4.36	24	13.59	17
CFX-018	City of Fairfax	Northfax Network Improvements, Northfax East-West Road	🚗🚦	\$ 18,332,754		\$ -	\$ 18,332,754	PE, ROW, CN																		32.54	4	13.46	18
LDN-029	Loudoun County	Old On Road Widening - Shaw Road to Oakton Road	🚗	\$ 30,000,000		\$ 19,350,000	\$ 49,350,000	CN																	20.49	16	11.22	19	
FFX-136	Fairfax County	Braddock Road Multimodal Improvements Phase II (Humphries Drive to Southampton Drive)	🚗🚦	\$ 90,000,000		\$ 5,286,334	\$ 95,286,334	PE, ROW, CN																	16.45	19	8.35	20	
FFX-134	Fairfax County	Frontier Drive Extension and Intersection Improvements	🚗🚦	\$164,992,286	\$ 27,000,000	\$ 49,638,314	\$ 241,630,600	PE, ROW, CN																		30.96	7	6.26	21
LDN-033	Loudoun County	Uppon Road Widening - Loudoun Center Place to Crystal Roadway	🚗	\$ 15,000,000		\$ 17,861,000	\$ 32,861,000	ROW, CN																		22.94	14	5.19	22
FFX-135	Fairfax County	Route 7 Multimodal Improvements (I-495 to I-66)	🚗🚦	\$210,000,000		\$ 34,407,921	\$ 244,407,921	PE, ROW, CN																		31.53	6	2.24	23
ARL-023	Arlington County	CECDA Multimodal Connection (Formerly known as KENNEDY Intermodal Connection)	🚗🚦	\$ 21,100,000	\$ 18,000,000	\$ 18,100,000	\$ 57,200,000	CN																		24.99	10	0.96	24
TOTAL				\$947,219,560	\$ 67,200,000	\$ 191,779,861	\$1,222,698,921		\$16,500,000																				

Modal Components

- ▲ New or improved roadway capacity and/or alignment
- New or improved intersection/interchange
- Ⓜ Improvement/access to Metro/NVA commuter rail
- Ⓜ New or improved bus/Rapid Transit facility
- New or improved bicycle/pedestrian facility
- Ⓜ New or improved bicycle facility
- ▲ New or improved pedestrian facility
- ▲ Transportation technology
- ▲ Parking

First symbol reflects the primary modal component; other symbols denote supporting modal components

Notes:

- A Project proposed to add dedicated ROW for future Bus Rapid Transit services
- B All or some phases of the project were considered fully funded with the previous NVTA allocation

Acronyms

- PE Design/Engineering/Environmental
- ROW Right of Way/Utilities
- CN Construction
- Acq Asset Acquisition
- SPA Standard Project Agreement for NVTA regional funding
- CRMC Congestion reduction relative to cost

See definition below*

See definition below#

% drawn down of expected drawdown

% drawn down of expected drawdown

None	Top 3	Very High	>100%	>100%	0	0	0	0	PY28	PY28	
Very Low	Next 3	High	>80-100%	>80-100%	1	1	1	1	PY29	PY29	Less than % share of revenue
Low	All others	Medium	>60-80%	>60-80%	2	2	2	2	PY30	PY30	Low alignment
Medium		Low	>40-60%	>40-60%	3	3	3	3	PY31	PY31	Medium alignment
High	Very low	>20-40%	>20-40%	4	4	4	4	4	PY32	PY32	High alignment
None	None	None	0-20%	0 or more	5 or more	5 or more	5 or more	5 or more	PY33	PY33	More than % share of revenue
N/A											

* Funding Gap

Higher of % or \$

Gap: >80% or >100M

Gap: >60-80% or >50-100M

Gap: >40-60% or >10-50M

Gap: >20-40% or >5-10M

Gap: >0-20% or upto 1M

None

External Funds

Higher of % or \$

Non-NVTA > 80% or >100M

Non-NVTA > 60-80% or >10-100M

Non-NVTA > 40-60% or >1-10M

Non-NVTA > 20-40% or >100K-1M

Non-NVTA > 0-20% or upto 100,000

None

% External Funds

Higher of % or \$

Gap: >80% or >100M

Gap: >60-80% or >10-100M

Gap: >40-60% or >1-10M

Gap: >20-40% or >100K-1M

Gap: >0-20% or upto 100,000

None

Anticipated next three STP updates

Adopt

FY2026

FY2028

FY2030

Evaluation Summary



Application ID	Jurisdiction / Agency	Project	Primary and supporting modal components	Phases for which there is still a funding gap	Local priority	External funds	Past performance (% of expected funds reimbursed by 12/31/2023)	Policy 29 non-compliance: # of projects -18-month substantive progress	Policy 29 non-compliance: # of projects - SPA within three meetings of fund appropriation	SPA with no invoices for 12+ months	First fiscal year of expected drawdown	Year of opening	Alignment with Core Values			Long Term Benefit	Other	TransAction project rating (incl. HB 599)	TransAction project rating rank (incl. HB 599)	CRRC (Reduction in annual person hours of delay / Total project cost in \$1000's)	CRRC rank
													Equity	Safety	Sustainability						
CFC-011	City of Falls Church	City of Falls Church Signal Prioritization Project															25.70	9	653.57	1	
ALX-037	City of Alexandria	Smart & Connected Vehicle Infrastructure															21.70	15	277.60	2	
PWC-042	Prince William County	Route 234 Operational Improvements															29.19	8	240.43	3	
FFX-138	Fairfax County	Seven Corners Ring Road Improvements															66.61	1	114.19	4	
MAN-003	City of Manassas	Roundabout at Route 28 and Sudley Rd															23.34	13	113.76	5	
VRE-017	VRE	VRE Backlick Road Station Improvements															23.92	12	102.62	6	
ALX-032	City of Alexandria	South Van Dorn Street Bridge Enhancements														Note A	38.61	2	33.00	7	
ALX-033	City of Alexandria	Alexandria Metroway Enhancements															32.36	5	25.61	8	
CMP-001	City of Manassas Park	Route 28-Centreville Road Corridor Improvements															15.59	21	24.75	9	
CFX-019	City of Fairfax	Blenheim Boulevard Multimodal Improvements (formerly, Old Lee Highway Multimodal Improvements)														Note B	13.38	23	24.56	10	
ALX-029	City of Alexandria	Safety Improvements at High-Crash Intersections		ROW, CN													24.25	11	24.07	11	
PWC-040	Prince William County	Route 234 and Sudley Manor Drive Interchange															37.41	3	23.29	12	
PWC-043	Prince William County	The Landing at Prince William Transit Center															20.27	17	17.86	13	
LDN-034	Loudoun County	Route 15 at Braddock Road Roundabout															15.86	20	16.34	14	
PWC-044	Prince William County	Triangle Mobility Hub and First/Last Mile Connection Improvements															14.05	22	15.82	15	
ARL-022	Arlington County	Shirlington Bus Station Expansion															18.54	18	14.52	16	
PWC-041	Prince William County	Route 234 Bicycle and Pedestrian Facility Over I-95															4.36	24	13.59	17	
CFX-018	City of Fairfax	Northfax Network Improvements: Northfax East-West Road															32.54	4	13.46	18	
LDN-029	Loudoun County	Old Ox Road Widening - Shaw Road to Oakgrove Road															20.49	16	11.22	19	
FFX-136	Fairfax County	Braddock Road Multimodal Improvements Phase II (Humphries Drive to Southampton Drive)															16.45	19	8.35	20	
FFX-134	Fairfax County	Frontier Drive Extension and Intersection Improvements															Note B	30.96	7	6.26	21
LDN-033	Loudoun County	Sycolin Road Widening - Loudoun Center Place to Crosstrail Boulevard															22.94	14	5.19	22	
FFX-135	Fairfax County	Route 7 Multimodal Improvements (I-495 to I-66)															Note A	31.53	6	2.24	23
ARL-023	Arlington County	CC2DCA Multimodal Connection (formerly known as CC2DCA Intermodal Connector)															Note B	24.99	10	0.96	24

Note A Project proposed to add dedicated ROW for future Bus Rapid Transit services

Note B All or some phases of the project were considered fully funded with the previous NVTa allocation

Project Description Forms



Northern Virginia Transportation Authority FY2024-2029 Six Year Program

City of Falls Church Signal Prioritization Project

Date Submitted: 07/28/2023

APPLICATION#: CFC-011
Transit Signal Priority in and around the City of Falls Church

Project Description

This project includes the installation of Transit Signal Priority (TSP) technology at up to seven intersections in the City of Falls Church. Updates to cabinets, controllers, communications, and artificial intelligence, to connect the TSP technology with the City's existing Smart Cities demonstration project, are also included with the project. TSP is proposed to be installed along the future Route 7 BRT route within and adjacent to the City of Falls Church. Installing TSP improves transit operations and encourages the use of travel options other than the automobile, and is often a component of BRT systems. In addition, the City is designated as a regional activity center and has recently been a focus of infill development. Getting more people using transit will help to reduce congestion, and reduce pressure on the regional road and highway system, as the City continues to add new residents and workers.

Primary Mode(s)	Secondary Mode(s)
Application Number	CFC-011
Primary TransAction ID Number	358
Submitting Jurisdiction/Agency	City of Falls Church
Location	Transit Signal Priority will be installed along the Future Route 7 BRT route within the City of Falls Church, which mirrors the current 28A bus route. The route in the City starts on W Broad St in West Falls Church and continues east until Washington St. The route continues north towards the East Falls Church Metrorail Station in Arlington County. The route comes back through the City following Roosevelt St and Roosevelt Blvd. The intersections of: (1) W Broad St & Lee St (2) W Broad St & Spring St (3) W Broad St & S Virginia Ave (4) W Broad St & Little Falls St (5) W Broad St & S Maple Ave, (6) N Washington St & Park Pl, and (7) N Washington St & Columbia St, are included in the project.
Requested NVTA Funds	\$1,400,000.00
NVTA Funds Approved	N/A
Previous NVTA Funds Received	\$0.00
Total Cost to Complete Project	\$1,400,000.00

Project Location



Project Milestones

	Study	Design / Engineering / Environmental	ROW and Utilities	Construction	Asset Acquisition
Earlier					
FY23					
FY24					
FY25					
FY26					
FY27					
FY28		X			
FY29				X	
Beyond					

Year of expected project completion: FY2029

Project Funding

Source	Study	Design / Engineering / Environmental	ROW and Utilities	Construction	Asset Acquisition	Total
Total Cost	\$0	\$103,245	\$0	\$1,296,755	\$0	\$1,400,000
NVTA Funds Applied	\$0	\$103,245	\$0	\$1,296,755	\$0	\$1,400,000
Total Other	\$0	\$0	\$0	\$0	\$0	\$0
Gap	\$0	\$0	\$0	\$0	\$0	\$0

Project Analysis Highlights

Congestion Reduction Relative to Cost (CRRC) Rating	653.57
Congestion Reduction Relative to Cost (CRRC) Rank	1
TransAction Project Rating	25.70
TransAction Project Rank	9
Project's Past Performance (Percentage of expected funds that was reimbursed by 12/31/2023)	N/A
Jurisdiction/Agency's Past Performance on All Projects (Percentage of expected funds that was reimbursed by 12/31/2023)	50.94%
Percentage of Total Project Cost Covered by Funds from Sources Other than NVTA	0.00%
Local Priority	1
Number of Supporting Resolutions (does not include resolution from applicant's own Board/Council)	2
Number of NVTA-Funded Project(s) Nearby	10
Regional Funds allocated to NVTA-Funded Project(s) Nearby	\$63,661,644

FY2024-2029 SYP Schedule



- May 1, 2023: Call for regional Transportation Projects issued
- July 28, 2023: Application deadline
- October 27, 2023: Governing body resolution deadline
- Summer/Fall 2023: Eligibility review; one-on-one applicant meetings; coding
- Fall/Winter 2023: Evaluations and review with applicants
- March/April 2024: Review evaluations with TAC, PCAC, PPC
- March 2024: NVTA approval of Public Hearing date
- March 2024: NVTA releases candidate project list and evaluations for public comment
- March 28 to May 19, 2024: Anticipated public comment period
- May 9, 2024: NVTA hosts Public Hearing
- June 13, 2024: NVTA briefed on public comments
- June 2024: NVTA staff releases project recommendations for review and endorsement by TAC, PCAC, and PPC
- July 11, 2024: Anticipated NVTA adoption of FY2024-2029 SYP



Reference Slides

Congestion Reduction Relative to Cost (CRRC)



VA Code requires NVTA to give priority to projects that achieve the greatest congestion reduction relative to cost (CRRC).

- Derive person hours of delay (PHD) reduced from individual project model runs for years 2030 and 2045 by comparing no-build and build networks.
- PHD reduction values for 2030 and 2045 are extrapolated from the year of expected project completion to 2045, and summed for each year.
- The cumulative PHD reduction is divided by total project cost.

TransAction Rating



- All eligible candidate projects will be coded into the TransAction ‘No Build’ network for 2045, and ratings calculated for individual projects using a single model run for 2045.
- Values for the 10 measures are calculated and are normalized with scores 0 (lowest) to 100 (highest).
- A weighted score is calculated for each project.

Goal	Objective	Performance Measure	Weight	Alignment with Core Values
Mobility: Enhance quality of life of Northern Virginians by improving performance of the multimodal transportation system	A. Reduce congestion and delay*	A1. Total Person-Hours of Delay in autos	10	
		A2. Total Person-Hours of Delay on Transit	10	
	B. Improve travel time reliability*	B1. Duration of Severe Congestion	10	
		B2. Transit person-miles in dedicated/priority ROW	10	
		C1. Access to jobs by car, transit, and bike	10	
		C2. Access to jobs by car, transit, and bike for EEA populations	10	
Accessibility: Strengthen the region's economy by increasing access to jobs, employees, markets, and destinations for all communities	C. Improve access to jobs*	D1. Quality of access to transit and the walk/bike network	15	
		D. Reduce dependence on driving alone by improving conditions for people accessing transit and using other modes		
	E. Improve safety and security of the multimodal transportation system	E1. Potential for safety and security improvements	10	
Resiliency: Improve the transportation system's ability to anticipate, prepare for, and adapt to changing conditions and withstand, respond to, and recover rapidly from disruptions.	F. Reduce transportation related emissions	F1. Vehicle Emissions	10	
	G. Maintain operations of the regional transportation system during extreme conditions*	G1. Transportation System Redundancy	5	

Long Term Benefit



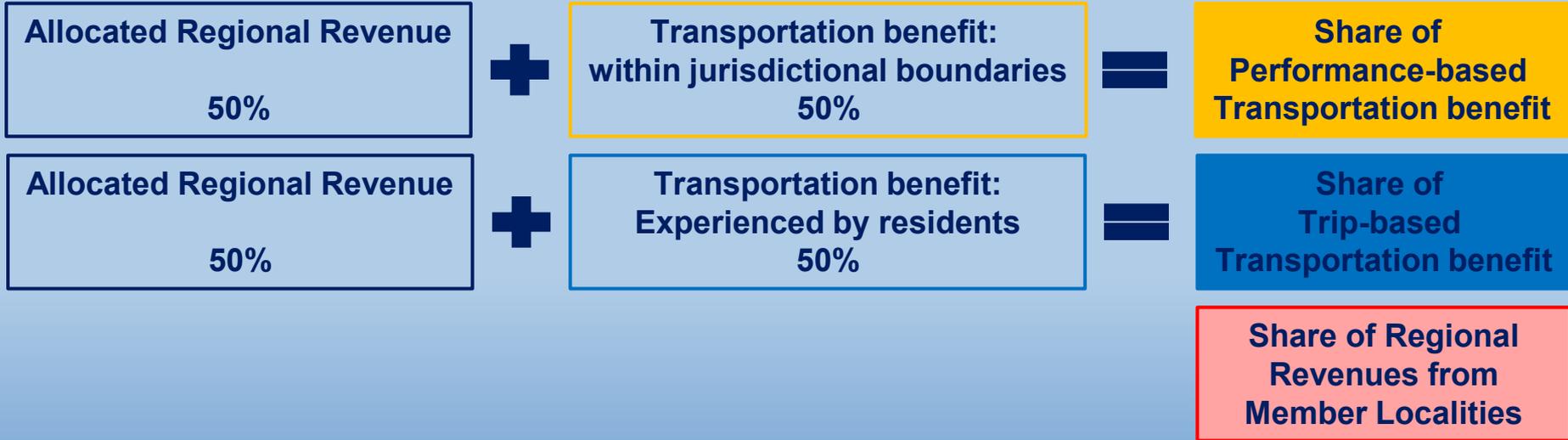
- VA Code requires that, over the long term, the allocation of benefit to member jurisdictions must be approximately equal to the share of the revenues attributed to each of the nine member jurisdictions. The Authority approved a set of LTB Principles in December 2014.
- Town projects will be combined with County projects for the purposes of LTB calculation.
- There is no guarantee that LTB imbalances (surpluses/deficits) will be fully eliminated in any single SYP update cycle.

Long Term Benefit



- Historic share of revenues (since FY2014) is known, and can be reliably projected through FY2027.
- ‘Benefit’ is subdivided into two equally weighted components (includes projects thru FY2022-2027 SYP):
 - Allocated regional revenues are assigned to the respective jurisdictions based on physical location of each funded project (making some allowances for projects that cross jurisdictional boundaries or are considered ‘system’ level projects).
 - Geographic distribution of each funded project’s transportation impact, using reduction in person-hours of delay as the performance measure. Congestion reduction will be calculated by comparing the ‘total person-hours of delay’ measure for 2045, with and without the funded projects in the TransAction ‘No Build’ network for 2045. This is analyzed in two ways to provide a range:
 - Performance-based: sum the person hours of delay experienced in all network links within each jurisdiction and assign it to the jurisdiction.
 - Trip-based: sum the person hours of delay experienced by each traveler in the network and assign it to the jurisdiction of trip origin.
- Plot the shares of revenue, performance-based benefits, and trip-based benefits for the jurisdictions on a chart.

Long Term Benefit



Thank You!



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