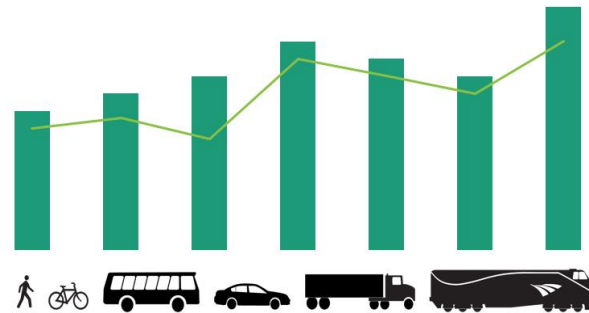


Transportation Performance Measures Progress Report 2019

Transportation Performance Measures
Progress Report • 2019



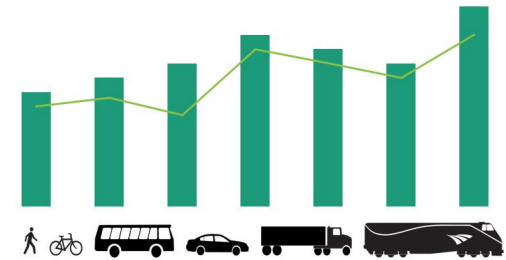
Richmond Regional TPO

TAC Meeting

November 12, 2019

Phil Riggan, Transportation Planner

Overview



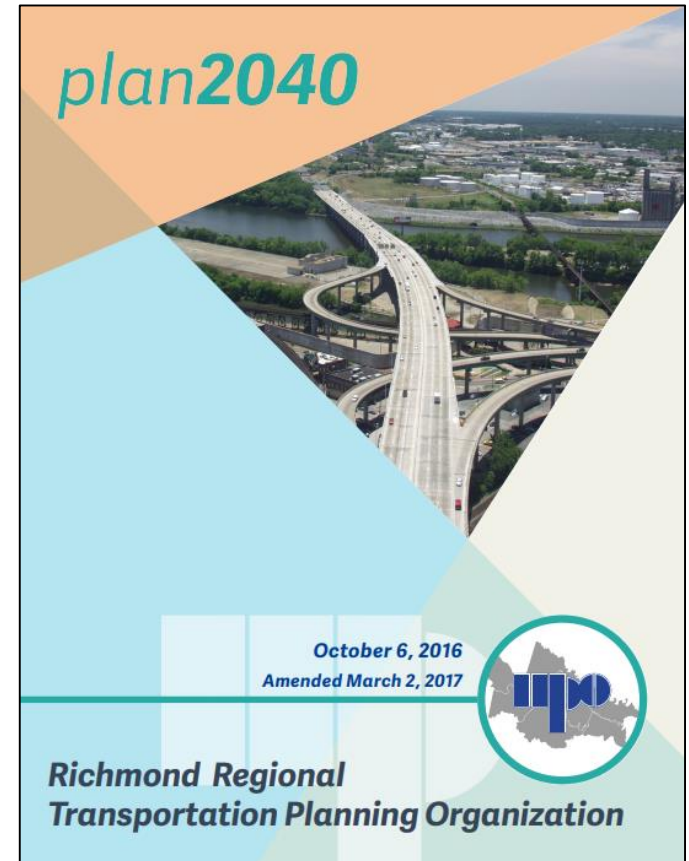
- Demonstrates progress in planning and programming projects toward region's transportation goals as defined in *plan2040*
- Summary table of tracked performance measures
- Analysis of trends that define system performance
 - **REQUESTED ACTION:** To recommend the *Performance Measures Progress Report 2019* for Richmond Regional Transportation Planning Organization (RRTPO) approval as an FY20 Unified Planning Work Program (UPWP) work task complete.

Transportation Performance Measures Progress Report 2019

2040 Metropolitan Transportation Plan

plan2040

- A regional, multimodal transportation planning document that typically has a 20-year horizon and is updated on a 5-year cycle.



Transportation Performance Measures Progress Report 2019

goals & objectives

Access to Employment
Provide for transportation system connections to areas of employment density and key activity centers, with an emphasis on connecting to areas of high poverty rates.

Freight Mobility
Enhance freight corridors and intermodal connections to facilitate goods movement into, within and out of the region.

Congestion Mitigation
Support transportation system improvements that address existing and expected future traffic congestion.

Environment & Air Quality
Provide for project alternatives that protect and enhance the region's natural resources.

Multimodal Connectivity
Improve accessibility and interconnectivity of various transportation modes for all system users.

Preservation & Maintenance
Ensure that existing transportation infrastructure and facilities achieve a constant state of good repair.

System Reliability
Implement technologies and programs to improve travel times and support the ease of travel throughout the region.

Transportation & Land Use Integration
Support transportation investments that meet the needs of existing and future land use and development patterns.

Safety & Security
Provide for transportation improvements that increase safety and security for system users.

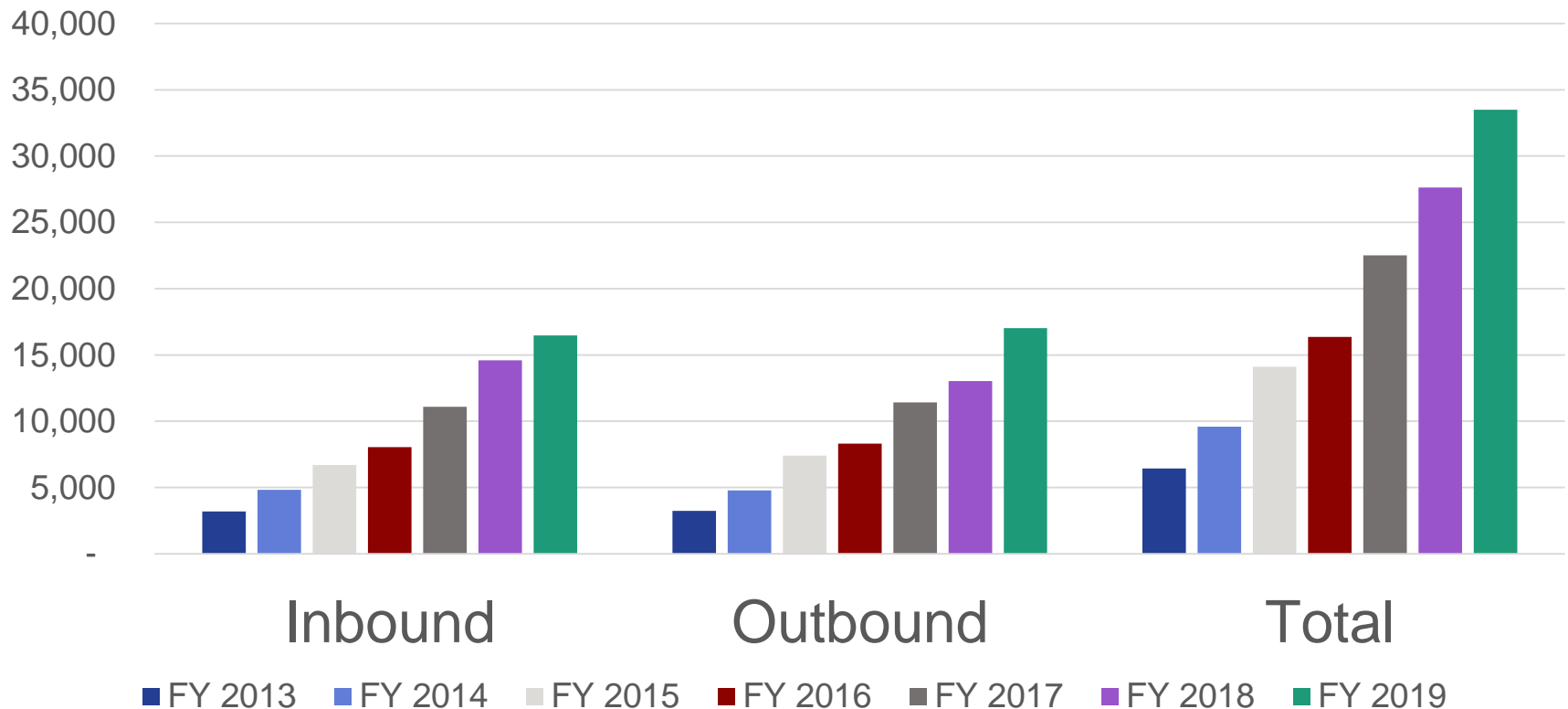
plan2040

Transportation Performance Measures Progress Report 2019

Goals	Measure	2011	2012	2013	2014	2015	2016	2017	2018	Desired Trend	1-year Trend	5-year Trend
Congestion Mitigation & System Reliability	*Delay per peak period commuter ¹ , annual hours	33	33	34	34	n.a.#	n.a.#	n.a.#	n.a.#	🟡	—	🟡
	Fuel Loss per peak period commuter ² , gallons	13	14	14	14	n.a.#	n.a.#	n.a.#	n.a.#	🟡	—	🟡
	*Peak period travel time index ³	1.12	1.12	1.13	1.13	n.a.#	n.a.#	n.a.#	n.a.#	🟡	—	🟡
	Congestion costs ⁴ , annual per peak period commuter	\$733	\$727	\$736	\$729	n.a.#	n.a.#	n.a.#	n.a.#	🟡	—	🟡
Transportation and Land Use Integration	*Daily VMT ⁵ , per capita	32.3	32.1	31.9	33.6	34.0	29.6	29.7	n.a.#	n.a.	—	🟡
	*Jobs/Housing Ratio ⁶	n.a.	1.28	n.a.#	n.a.#	n.a.#	n.a.#	n.a.#	1.29	—	—	🟡
	*Jobs/Housing Dissimilarity Index ⁷	0.061	0.056	0.049	0.047	0.067	n.a.#	n.a.#	0.071	< .5	🟢	🟢
	% Workers working in jurisdiction in which they live ⁸	49.1%	48.9%	48.6%	48.2%	48.3%	48.0%	48.0%	n.a.#	🟡	—	🟡
	Travel Time to Work ⁹	23.6	23.9	24.0	24.1	24.2	24.5	24.7	n.a.#	🟡	—	🟡
	Population Density ¹⁰ , persons per square mile	n.a	475	n.a.#	n.a.#	n.a.#	n.a.#	n.a.#	505	🟡	—	—
Environmental and Air Quality	*Ozone Exceedances, ¹¹ with 2015 EPA Ozone Standard (.070ppm)	22	15	1	2	3	4	1	2	🟡	🟢	🟡
	Multi-Pollutant Air Quality Index Exceedances ¹² with 2015 EPA Ozone Standard (.070ppm)	20	11	1	2	3	4	0	2	🟡	🟢	🟡
Freight Mobility	Commodity Flow, Freight Mode Share ¹³ , by tons											
	Truck	n.a.#	67%	n.a.#	n.a.#	n.a.#	n.a.#	n.a.#	n.a.#	—	—	—
	Rail	n.a.#	30%	n.a.#	n.a.#	n.a.#	n.a.#	n.a.#	n.a.#	—	—	—
	Commodity Flow, Freight Mode Share ¹³ , by dollar value											
	Truck	n.a.#	82%	n.a.#	n.a.#	n.a.#	n.a.#	n.a.#	n.a.#	—	—	—
	Rail	n.a.#	5%	n.a.#	n.a.#	n.a.#	n.a.#	n.a.#	n.a.#	—	—	—
	*Richmond Marine Terminal Containers, Outbound ¹⁴	n.a.#	3,241	4,775	7,415	8,309	11,423	13,024	17,013	🟡	🟢	🟢
*Richmond Marine Terminal Containers, Inbound ¹⁴	n.a.#	3,205	4,821	6,699	8,038	11,077	14,602	16,471	🟡	🟢	🟢	
	RIC Total Cargo, Outbound/Enplaned, tons ¹⁵	18,545	21,857	27,108	29,915	30,167	30,380	29,577	30,802	🟡	🟢	🟢
	RIC Total Cargo, Inbound/Deplaned, tons ¹⁵	28,062	30,863	31,756	28,369	29,281	36,863	38,081	38,495	🟡	🟢	🟢
Multimodal Connectivity & Access to Employment	Park and Ride Lots / Spaces ¹⁶ , number	11 / 1,760	11 / 1,760	12 / 1,987	12 / 1,987	12 / 1,987	12 / 1,987	16 / 2,175	12 / 2,013	🟡	🟢	🟢
	RideFinders Vanpools ¹⁷ , number	117	120	137	138	145	143	143	143	🟡	🟢	🟢
	Transit Trips ¹⁸ , per capita	28.5	22.3	19.5	20.6	20.3	20.9	19.3	n.a.#	🟡	🟢	🟢
	Transit Operating Expense per passenger trip ¹⁹	\$3.62	\$4.82	\$5.42	\$5.06	\$4.97	\$4.90	\$5.30	n.a.#	🟡	🟢	🟢
	Transit Passenger Miles ²⁰ , per capita	139.1	152.0	140.7	145.2	143.2	142.9	150.5	n.a.#	🟡	🟢	🟢
	Transit Operating Expense per passenger mile ²¹	\$0.74	\$0.71	\$0.75	\$0.72	\$0.70	\$0.72	\$0.68	n.a.#	🟡	🟢	🟢
	Transit Revenue Miles ²² , number	11,319,872	11,486,456	11,418,456	11,712,133	11,877,541	11,908,963	11,933,000	n.a.#	🟡	🟢	🟢
	Transit Revenue Miles ²³ , per capita	25.2	25.5	25.4	26.1	26.4	26.5	26.5	n.a.#	🟡	🟢	🟢
	Transit Operating Expense, per revenue mile ²⁴	\$4.10	\$4.20	\$4.17	\$4.01	\$3.82	\$3.87	\$3.86	n.a.#	🟡	🟢	🟢
	*Regional Households served by Transit ²⁵ , percent	n.a.	42.83%	n.a.	n.a.	n.a.	n.a.	41.47%	n.a.	🟡	—	—
	*Regional Employment served by Transit ²⁵ , percent	n.a.	53.47%	n.a.	n.a.	n.a.	n.a.	53.91%	n.a.	🟡	—	—
	*Bicycle to Work ²⁶ , percent	0.47%	0.51%	0.50%	0.52%	0.48%	0.49%	0.47%	n.a.#	🟡	🟢	🟢
*Drove Alone to Work ²⁷ , percent	81.51%	81.24%	81.66%	81.59%	81.38%	81.46%	81.29%	n.a.#	🟡	🟢	🟢	

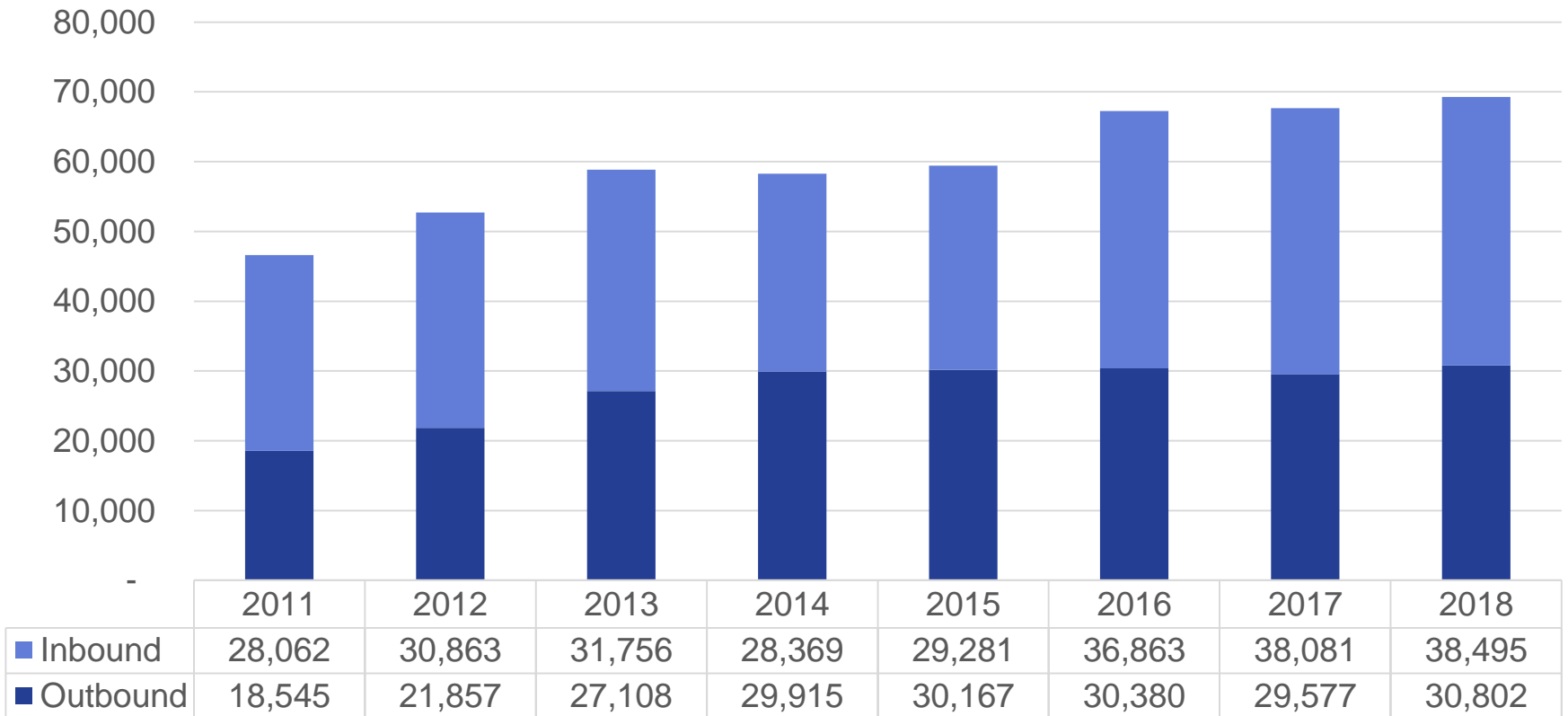
Transportation Performance Measures Progress Report 2019

Richmond Marine Terminal Container Volumes



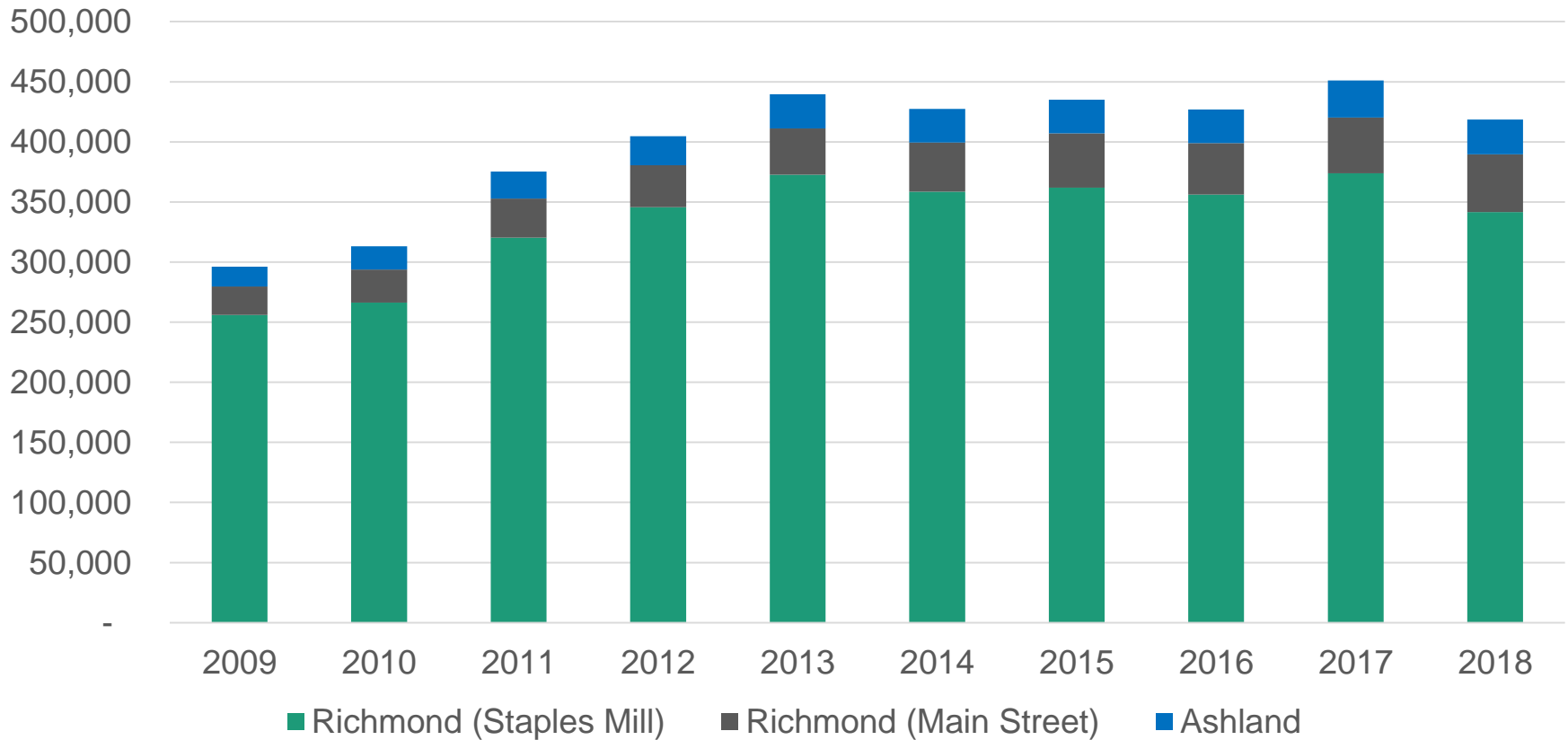
Transportation Performance Measures Progress Report 2019

Total Cargo at Richmond International Airport



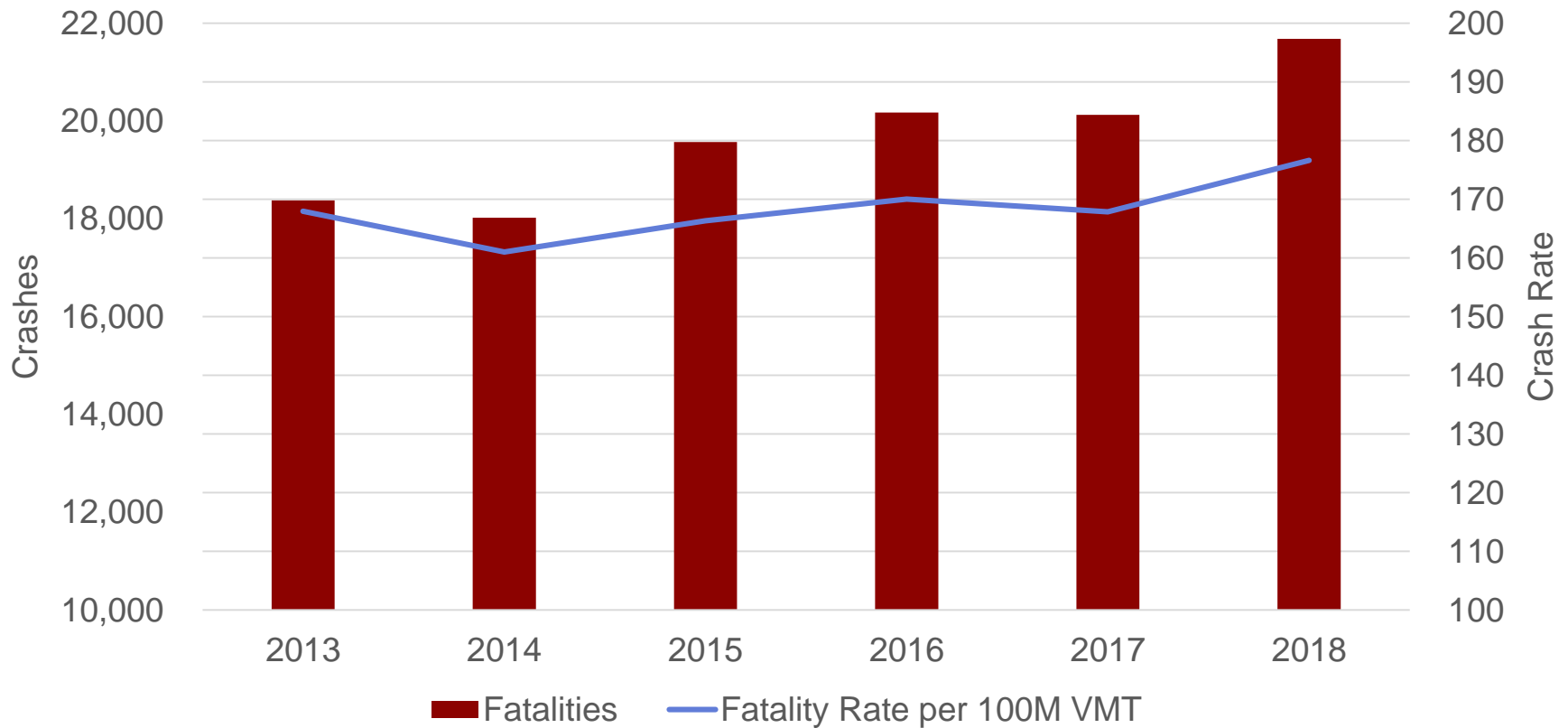
Transportation Performance Measures Progress Report 2019

Boardings & Alightings at Regional Amtrak Stations



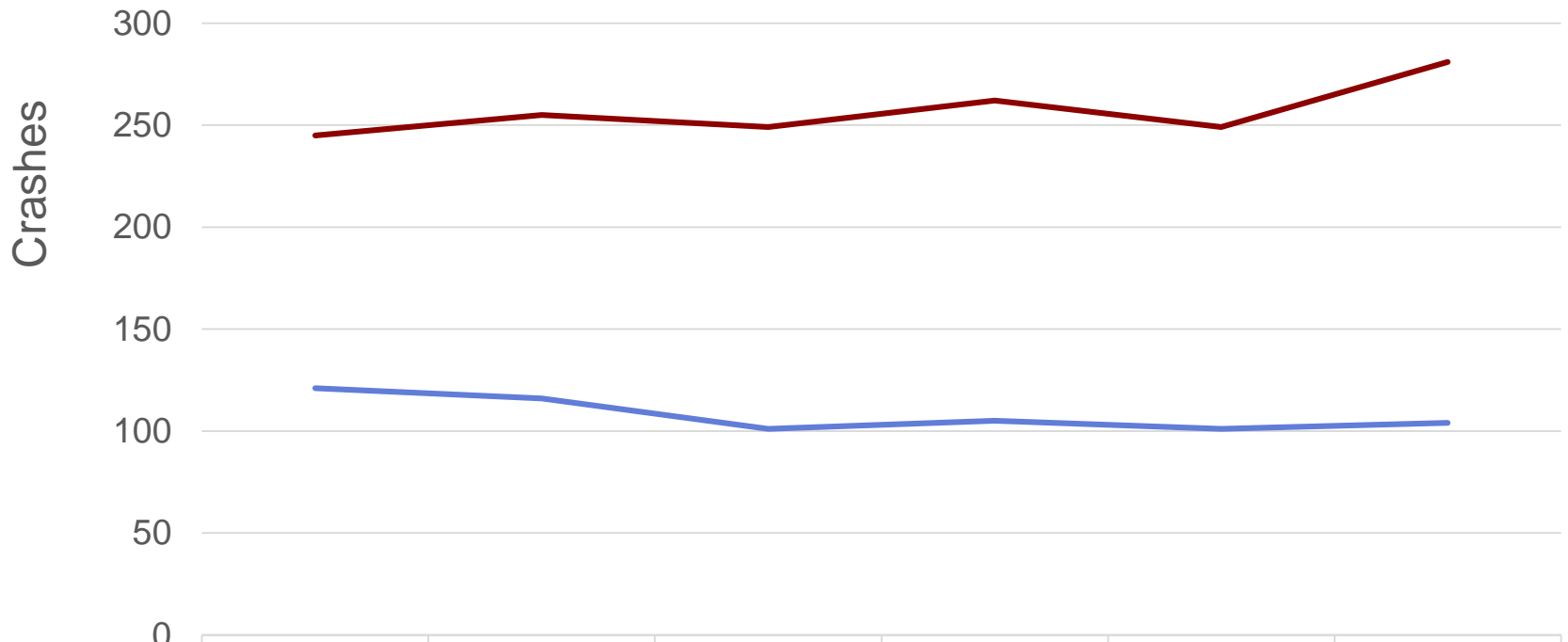
Transportation Performance Measures Progress Report 2019

Highway Crashes & Crash Rate per 100M VMT



Transportation Performance Measures Progress Report 2019

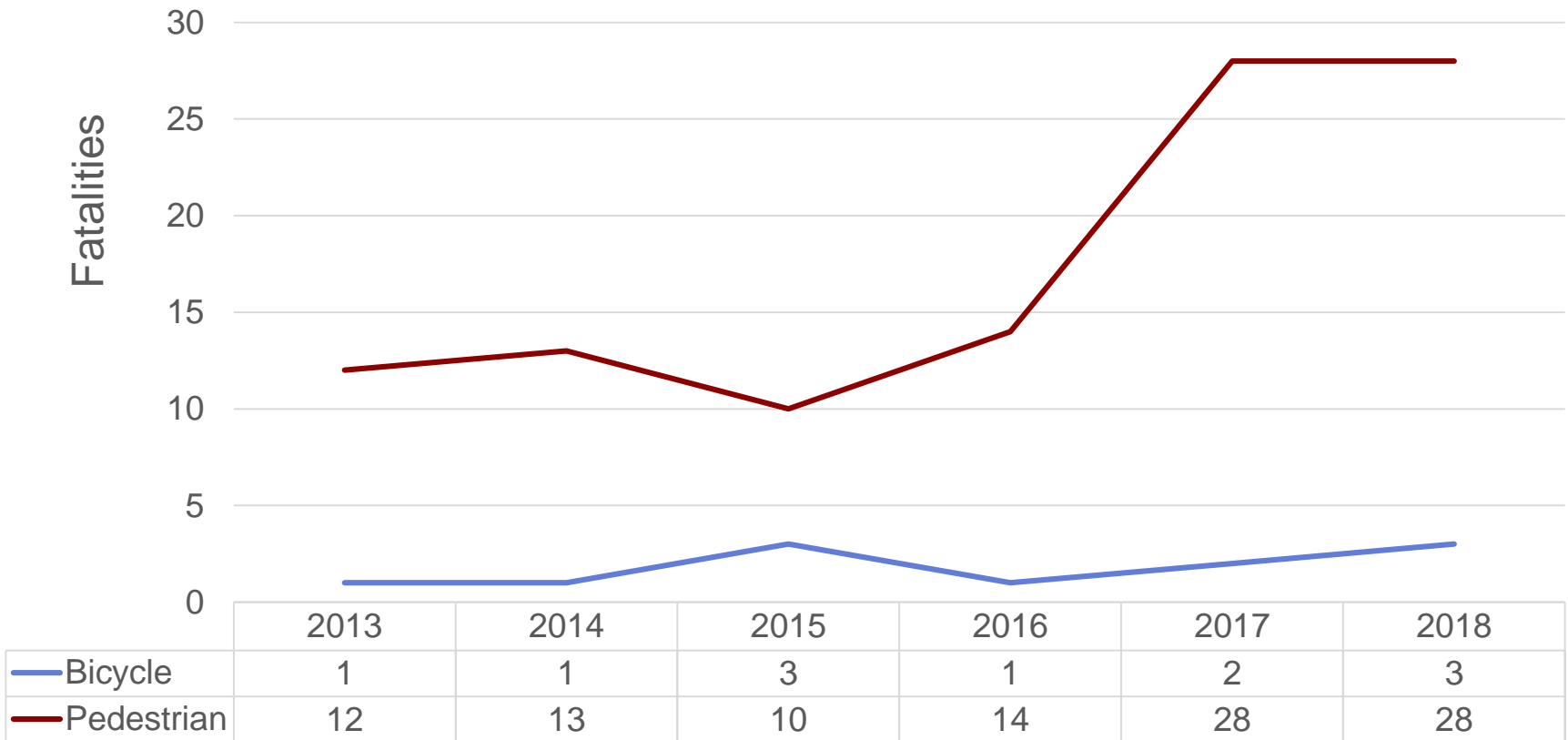
Bicycle/Pedestrian Crashes -Richmond Region



	2013	2014	2015	2016	2017	2018
— Bicyclists	121	116	101	105	101	104
— Pedestrians	245	255	249	262	249	281

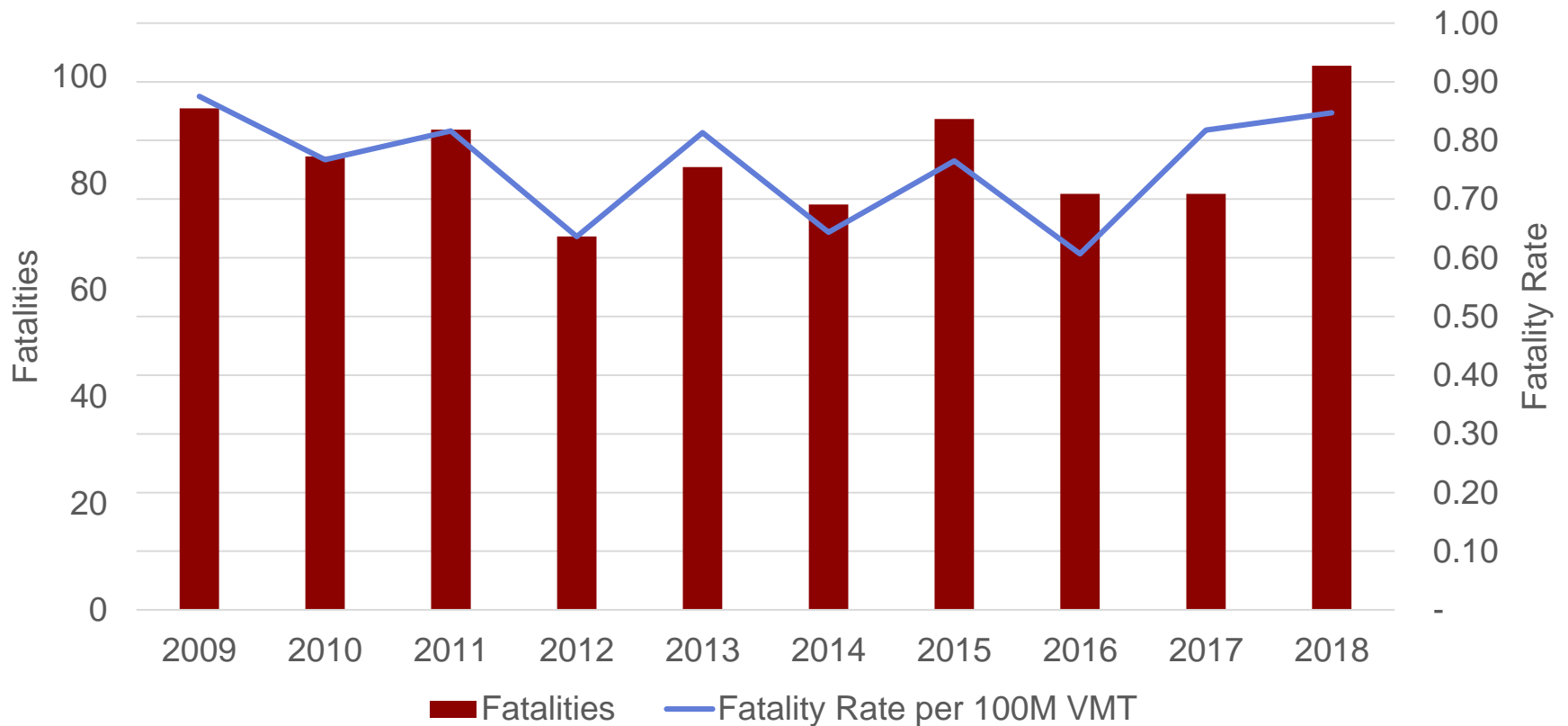
Transportation Performance Measures Progress Report 2019

Bicycle/Pedestrian Fatalities - Richmond Region



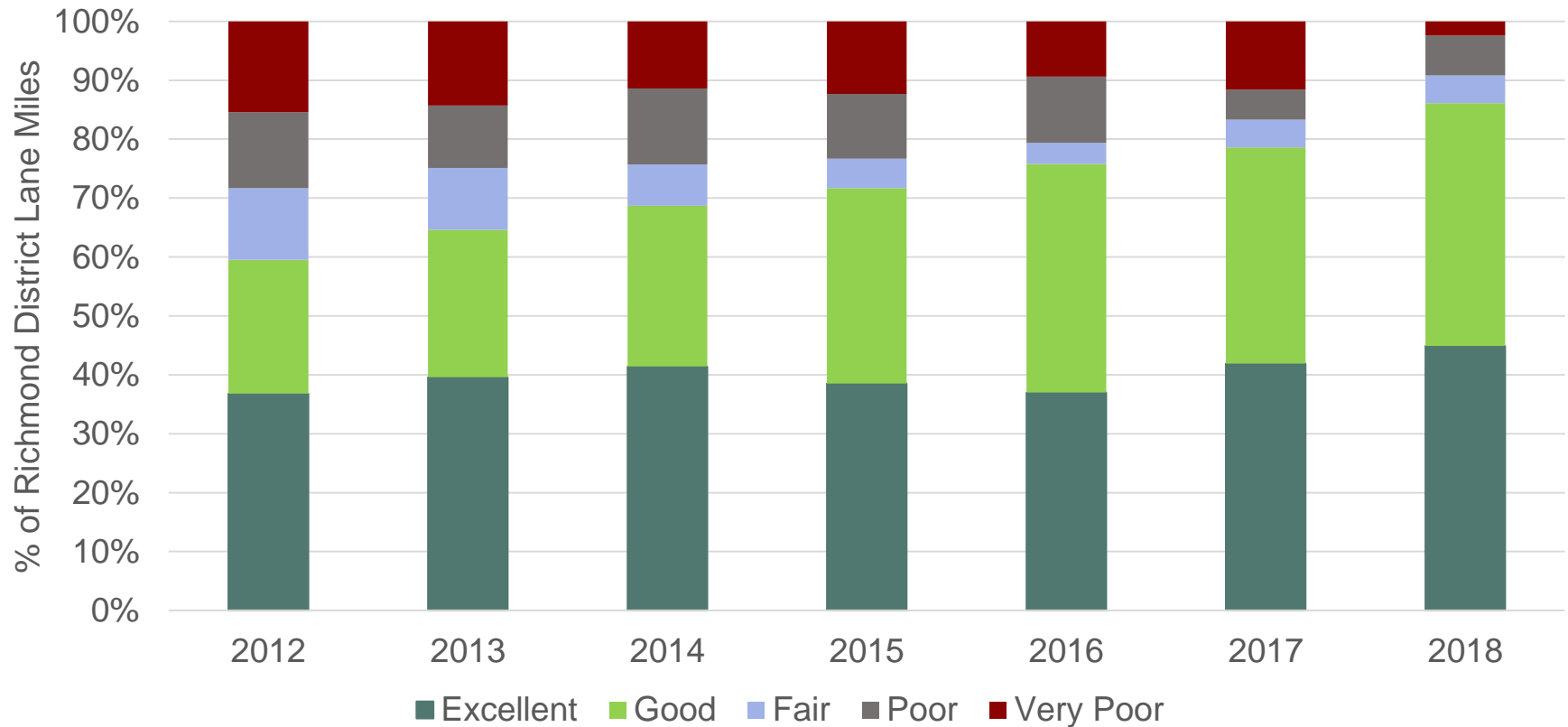
Transportation Performance Measures Progress Report 2019

Highway Fatalities & Fatality Rate per 100M VMT



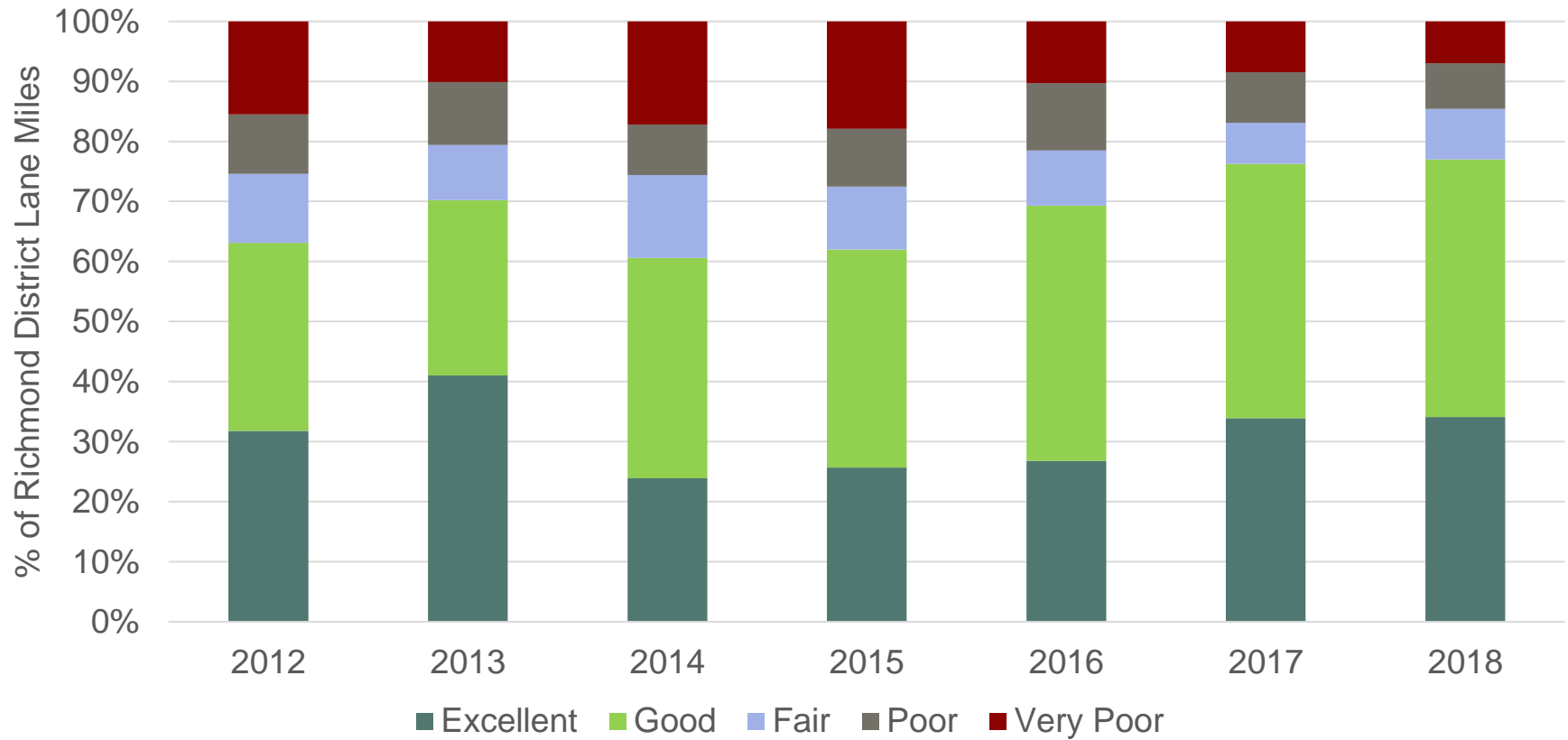
Transportation Performance Measures Progress Report 2019

Interstate Pavement Condition



Transportation Performance Measures Progress Report 2019

Primary Pavement Condition



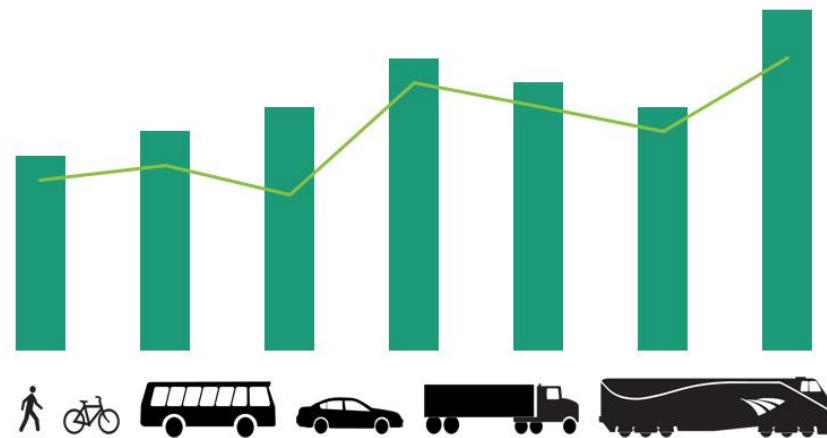
ACTION REQUESTED: To recommend the *Performance Measures Progress Report 2019* for Richmond Regional Transportation Planning Organization (RRTPO) approval as an FY20 Unified Planning Work Program (UPWP) work task complete.

RESOLUTION

RESOLVED, that the Richmond Regional Transportation Planning Organization TAC adopts the *Transportation Performance Measures Progress Report 2019* as presented.

Thank you

Transportation Performance Measures
Progress Report • 2019



Phil Riggan, Transportation Planner

priggan@planrva.org