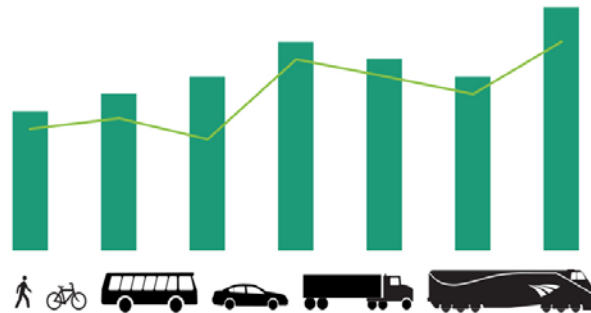


Transportation Performance Measures Progress Report 2019

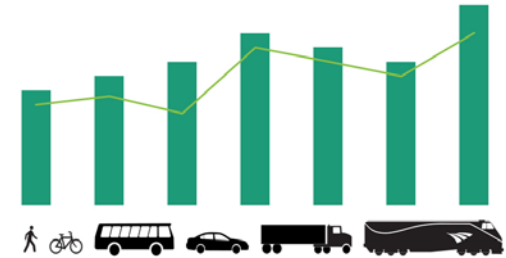
Transportation Performance Measures
Progress Report • 2019



Richmond Regional TPO
Policy Board Meeting
December 5, 2019

Phil Riggan, Transportation Planner

Overview



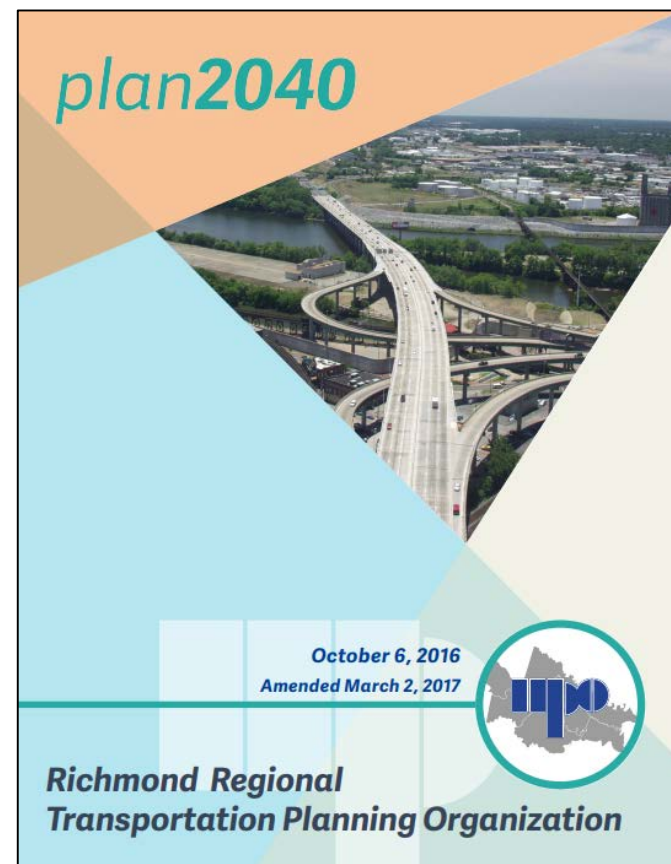
- Demonstrates progress in planning and programming projects toward region's transportation goals as defined in *plan2040*
- Summary table of tracked performance measures
- Analysis of trends that define system performance
- **REQUESTED ACTION:** The RRTPO policy board is requested to review and approve the *Transportation Performance Measures – Progress Report 2019* as an FY20 Unified Planning Work Program (UPWP) work task complete.

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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.



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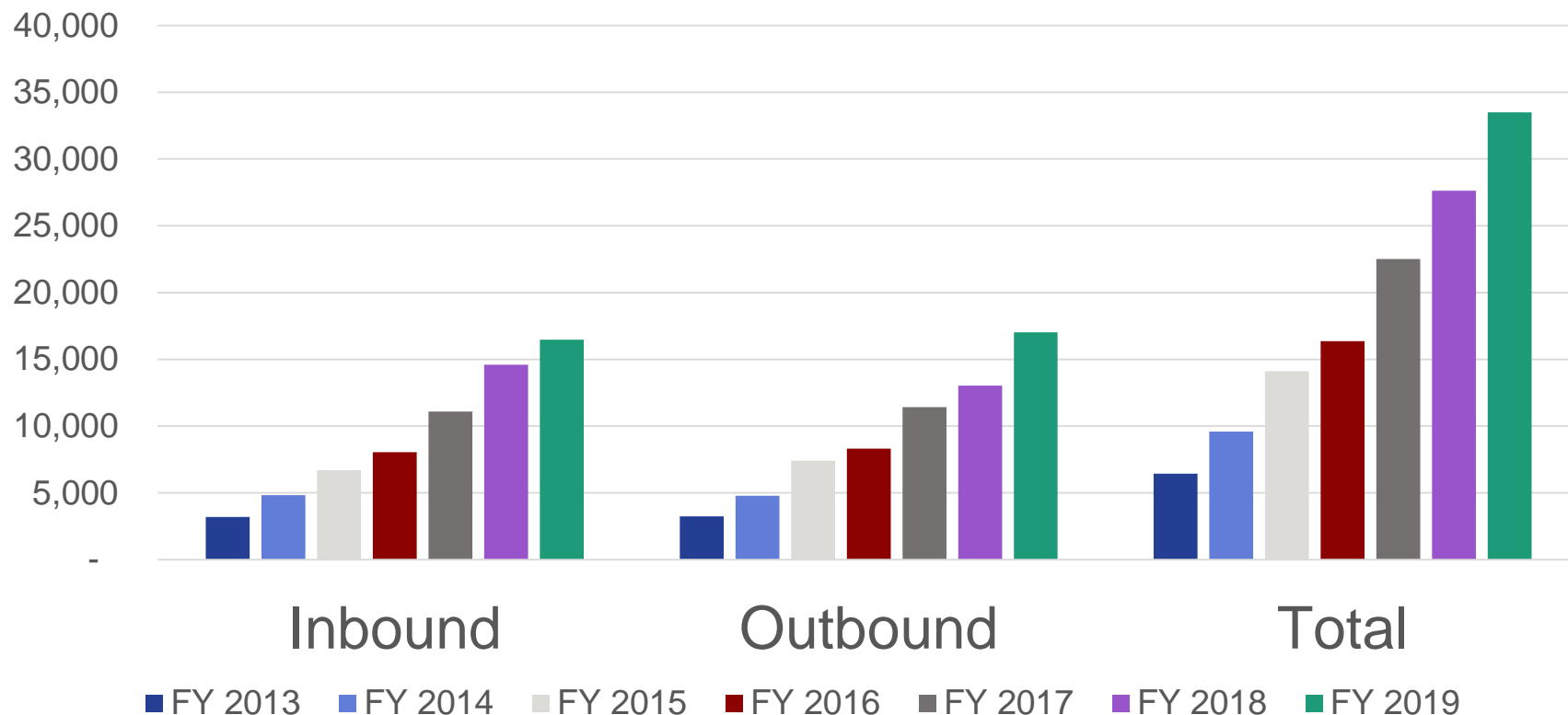


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Goals	Measure	2011	2012	2013	2014	2015	2016	2017	2018	Desired Trend	1-year Trend	5-year Trend
Congestion Mitigation & System Reliability	*Delay per peak period commuter ¹ , annual hours	33	33	34	34	n.a.#	n.a.#	n.a.#	n.a.#	🟡	—	🟡
	Fuel Loss per peak 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.#	🟡	🟢	🟢

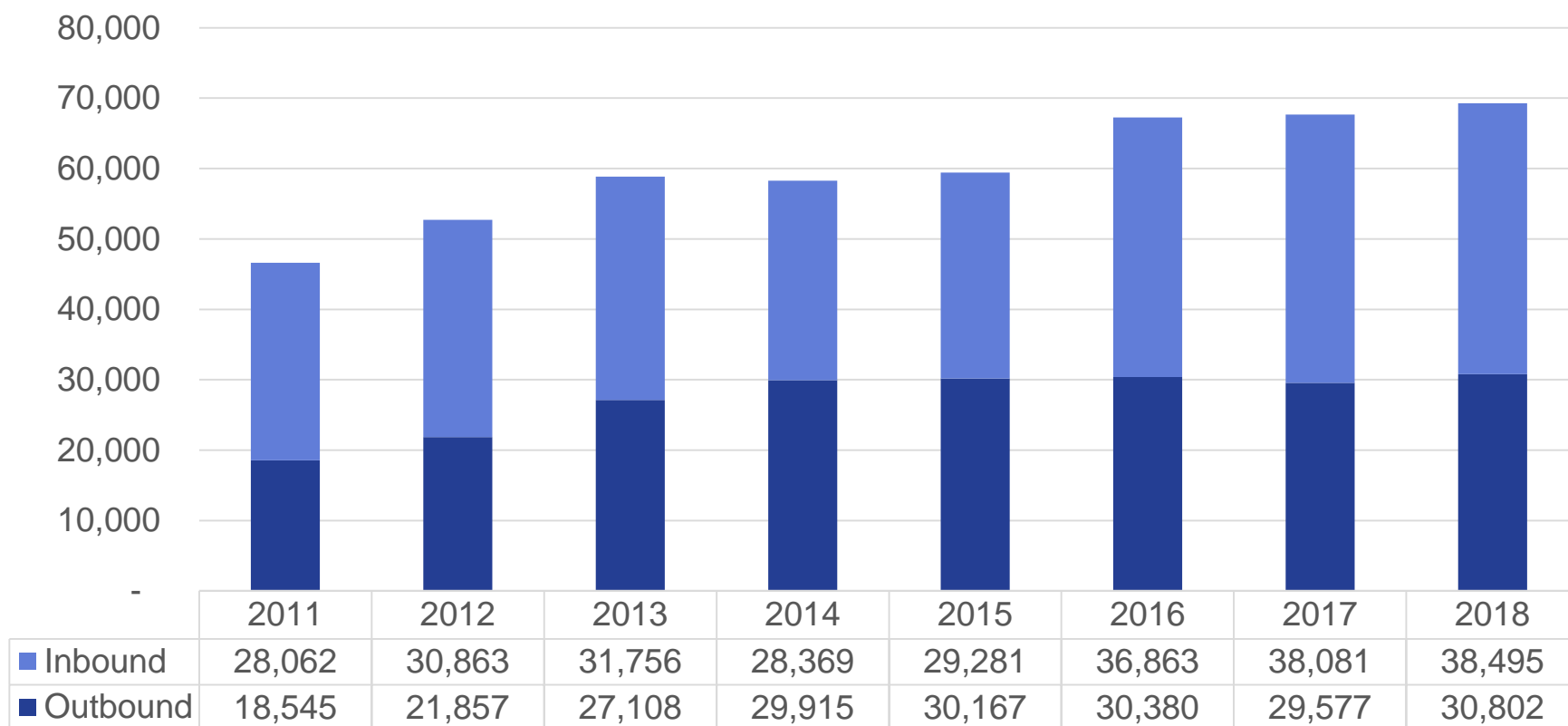
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Richmond Marine Terminal Container Volumes



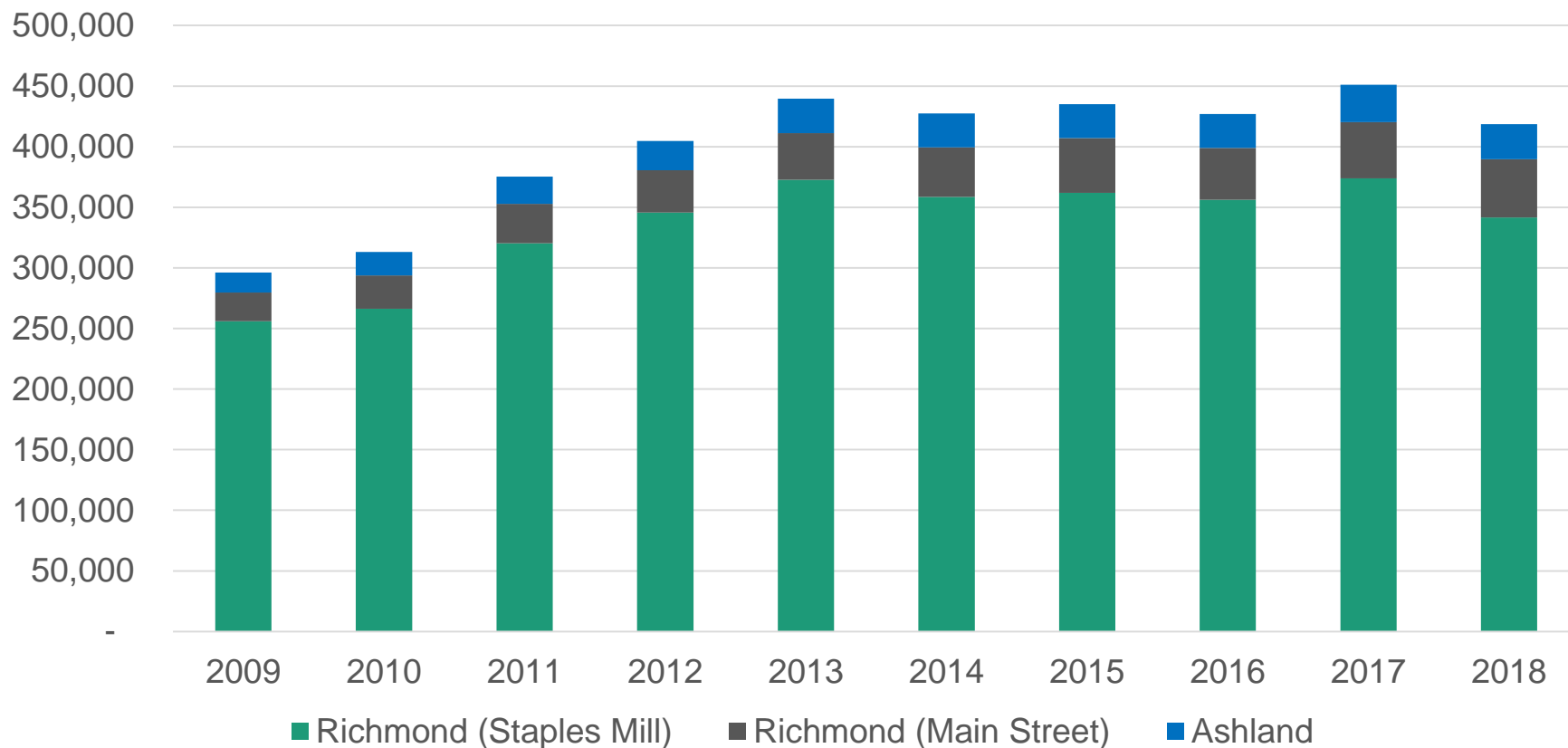
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Total Cargo at Richmond International Airport



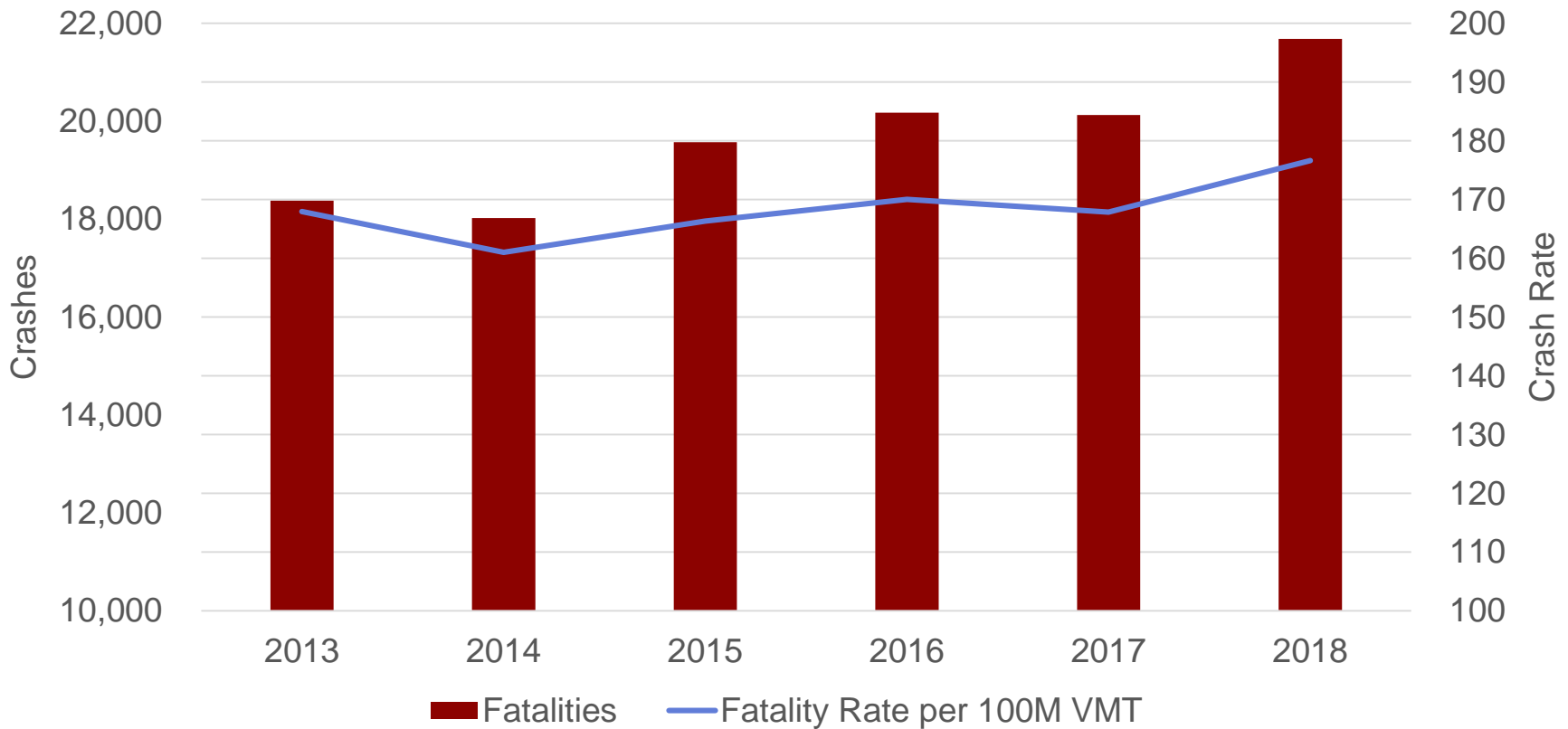
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Boardings & Alightings at Regional Amtrak Stations



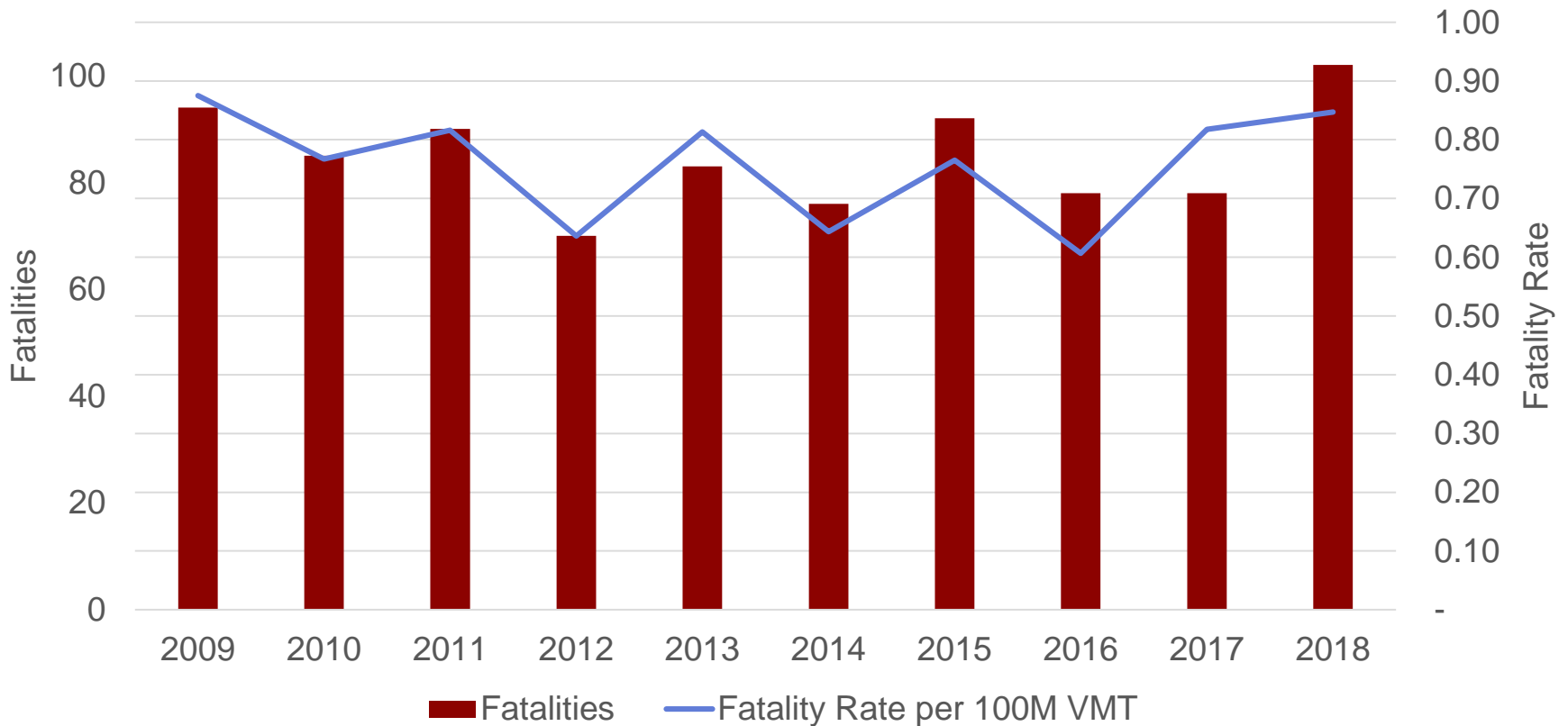
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Highway Crashes & Crash Rate per 100M VMT



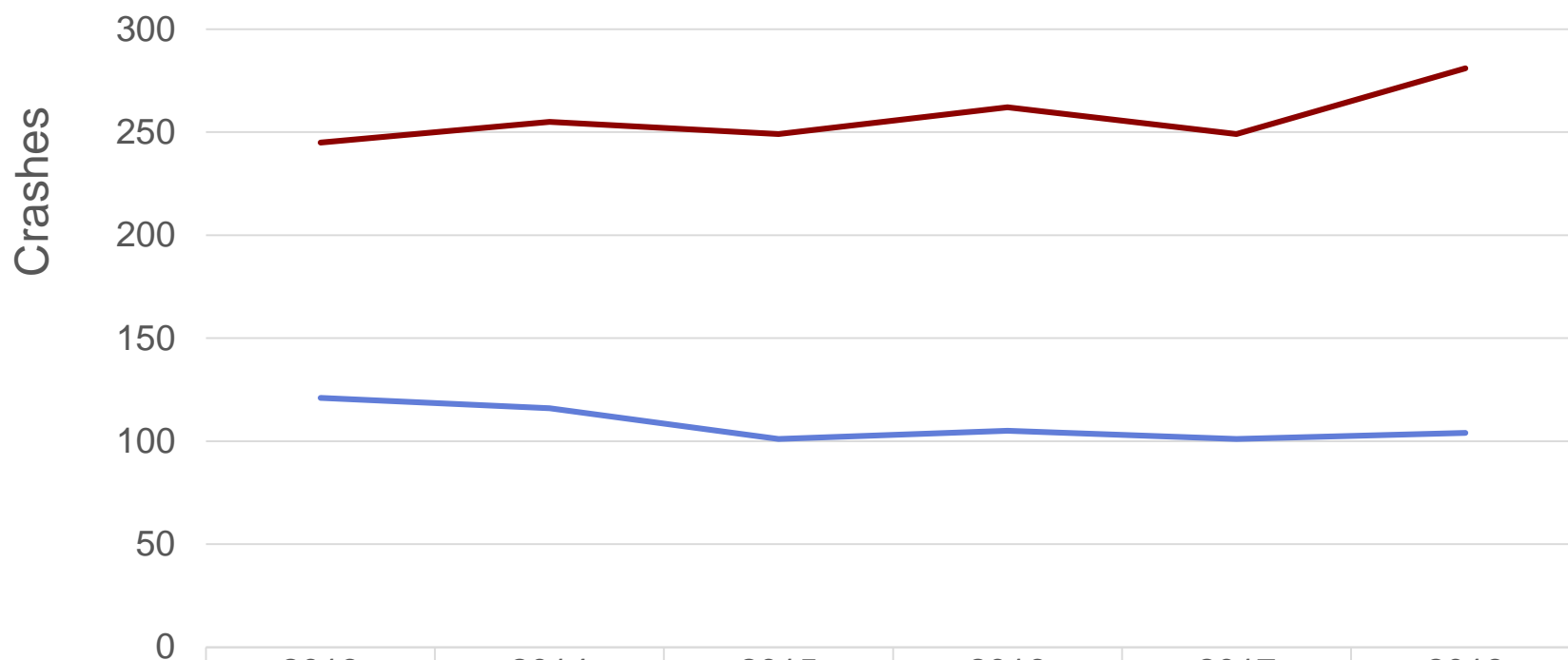
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Highway Fatalities & Fatality Rate per 100M VMT



Transportation Performance Measures Progress Report 2019

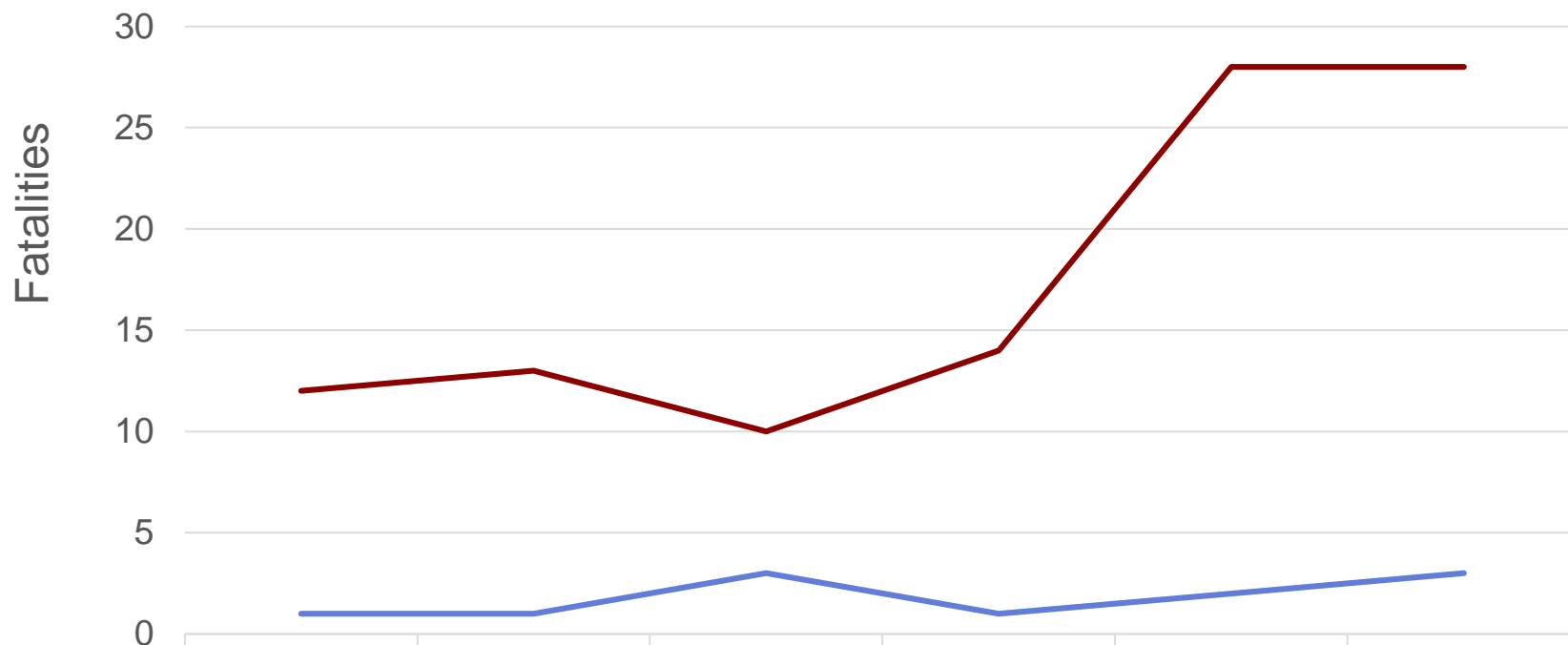
Bicycle/Pedestrian Crashes -Richmond Region



	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

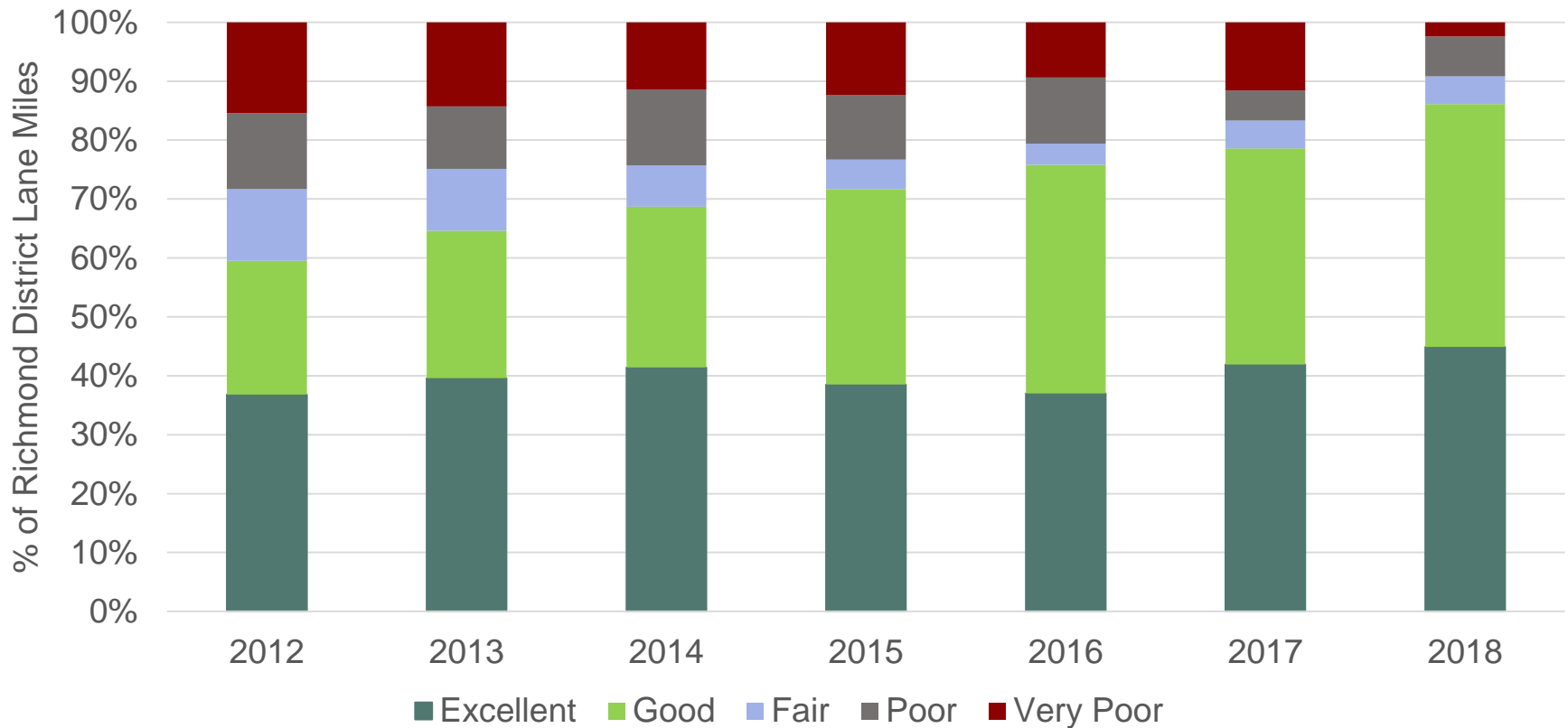


— Bicycle

— Pedestrian

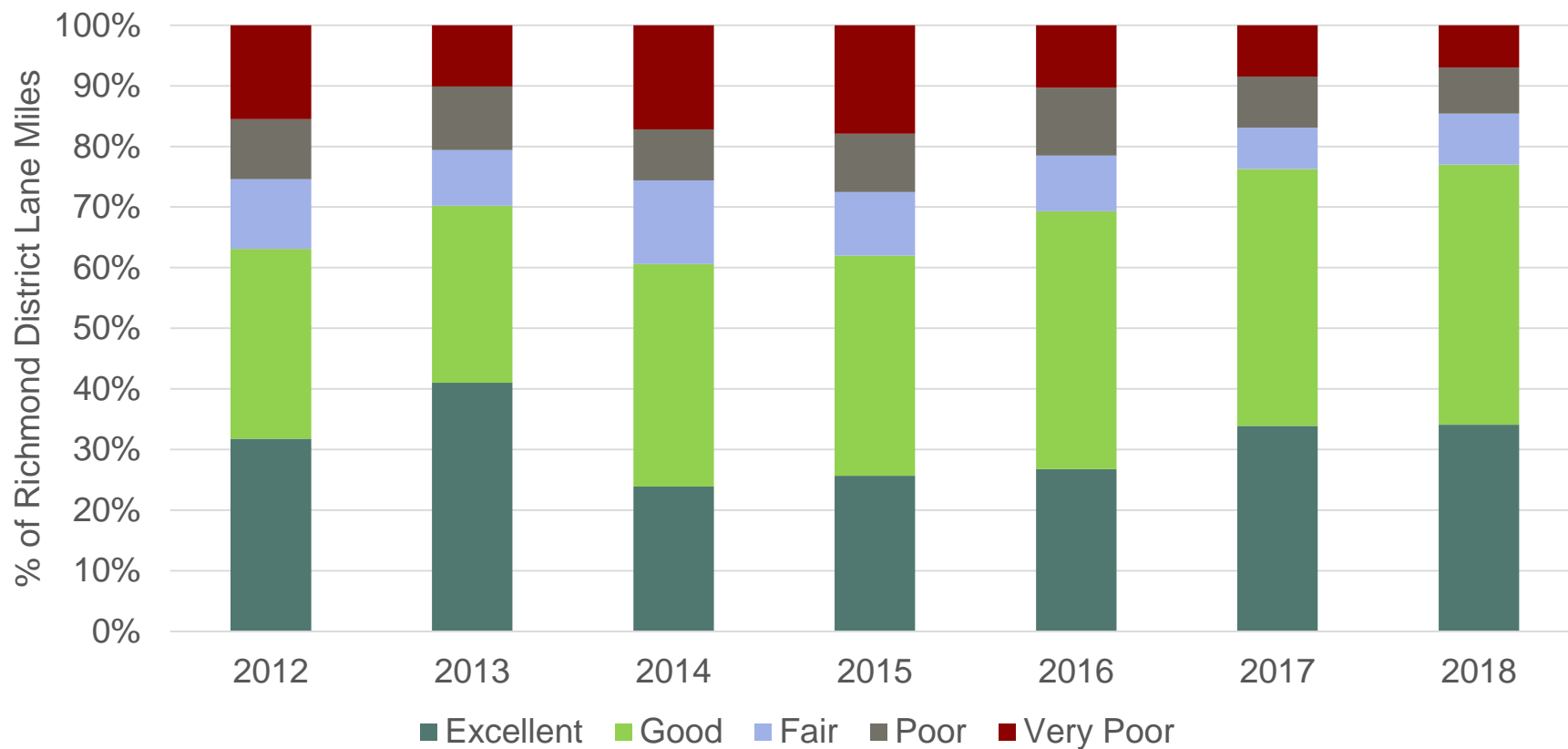
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Interstate Pavement Condition



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Primary Pavement Condition



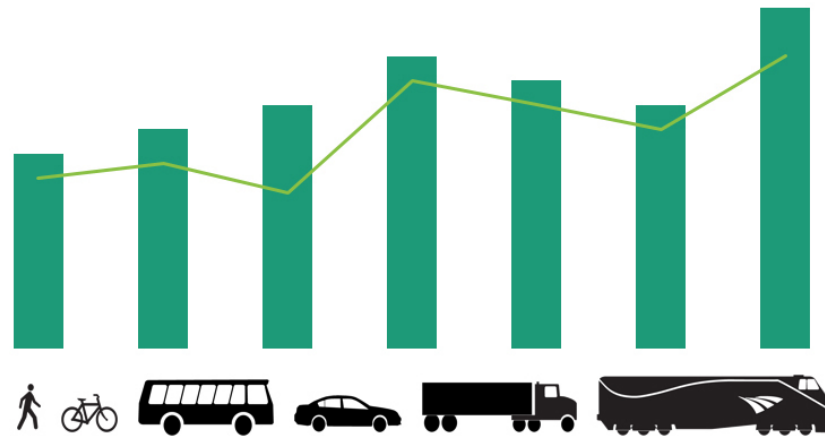
ACTION REQUESTED: The RRTPO policy board is requested to review and approve the *Transportation Performance Measures – Progress Report 2019* as an FY20 Unified Planning Work Program (UPWP) work task complete.

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