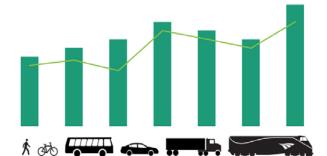
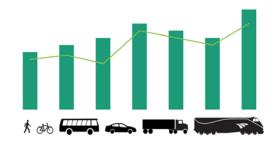
Transportation Performance Measures Progress Report • 2019



Richmond Regional TPO Policy Board Meeting December 5, 2019 Phil Riggan, Transportation Planner



Overview



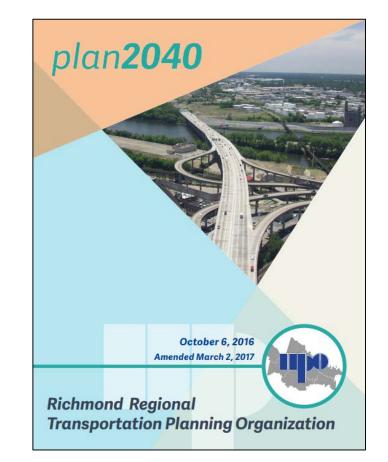
- Demonstrates progress in planning and programming projects toward region's transportation goals as defined in *plan2040*
- Summary table of tracked performance measures
- Analysis of trends that define system performance
 - REQUESTED ACTION: The RRTPO policy board is requested to review and approve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



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.







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.



goals & objectives

Congestion Mitigation

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

Environment & Air Quality



Freight Mobility

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



Provide for project alternatives that protect and enhance the region's natural resources.



Safety & Security

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



Multimodal Connectivity

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

Preservation & Maintenance



Transportation & Land Use Integration

Support transportation investments that meet the needs of existing and future land use and development patterns.







System Reliability

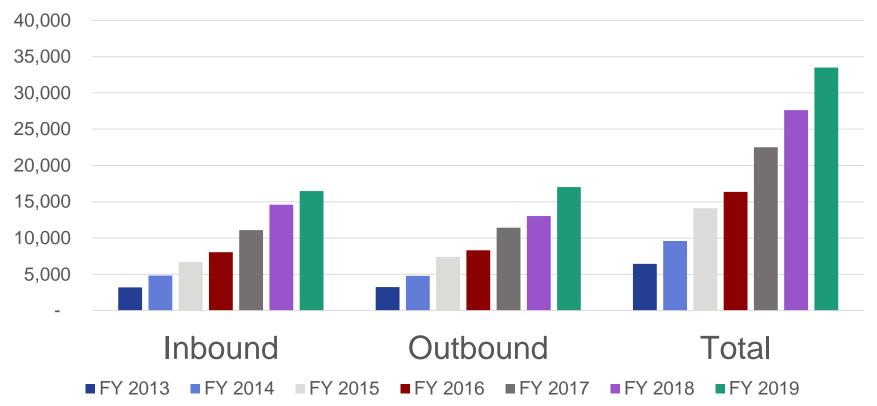
Implement technologies and programs to improve travel times and support the ease of travel throughout the region.

plan2040

Goals	Measure	2011	2012	2013	2014	2015	2016	2017	2018	Desired Trend		5-year Trend
Congestion	*Delay per peak period commuter ¹ , annual hours	33	33	34	34	n.a.#	n.a.#	n.a.#	n.a.#	Ś	_	Ð
Mitigation &	Fuel Loss per peak period commuter ² , gallons	13	14	14	14	n.a.#	n.a.#	n.a.#	n.a.#	2	_	Ð
System	*Peak period travel time index ³	1.12	1.12	1.13	1.13	n.a.#	n.a.#	n.a.#	n.a.#	2	_	Ð
Reliability	Congestion costs ⁴ , annual per peak period commuter	\$733	\$727	\$736	\$729	n.a.#	n.a.#	n.a.#	n.a.#	2	_	20
	*Daily ∨MT ⁵ , per capita	32.3	32.1	31.9	33.6	34.0	29.6	29.7	n.a."	n.a.	_	3
Transportatio	*Jobs/Housing Ratio ⁶	n.a.	1.28	n.a.#	n.a.#	n.a.#	n.a.#	n.a.#	1.29	_	_	
n and Land	*Jobs/Housing Dissimilarity Index ⁷	0.061	0.056	0.049	0.047	0.067	n.a.#	n.a.#	0.071	< .5	1	1
Use	% 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.*	R		23
Integration	Travel Time to Work ⁹	23.6	23.9	24.0	24.1	24.2	24.5	24.7	n.a.*	8		27
	Population Density ¹⁰ , persons per square mile	n.a	475	n.a.#	n.a.#	n.a.#	n.a.#	n.a.#	505	N		
F	*0 5											
Environmental and Air	*Ozone Exceedances, ¹¹ with 2015 EPA Ozone Standard (.070ppm)	22	15	1	2	3			2	65	-	9
Quality	Multi-Pollutant Air Quality Index Exceedances ¹²	22	15		2	5	4		2	1	4	CV .
Quanty	with 2015 EPA Ozone Standard (.070ppm)	20	11	1	2	3	4	0	2	\$1	50	ส
	(_	-		-	_			
	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											
Freight	Truck	n.a.#	82%	n.a.#	n.a.#	n.a.#	n.a.#	n.a.#	n.a.#	_	_	_
Mobility	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	R	57	27
	*Richmond Marine Terminal Containers, Inbound ¹⁴	n.a.#	3,205	4,821	6,699	8,038	11,077	14,602	16,471	R	EN	37
	RIC Total Cargo, Outbound/Enplaned, tons ¹⁵	18,545	21,857	27,108	29,915	30,167	30,380	29,577	30,802	a a a a a a a a a a a a a a a a a a a	20	37
	RIC Total Cargo, Inbound/Deplaned, tons ¹⁵	28,062	30,863	31,756	28,369	29,281	36,863	38,081	38,495	Ņ	20	21
	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	Ø	8	a
	RideFinders Vanpools ¹⁷ , number	117	120	137	138	145	143	143	143	æ	÷	57
	Transit Trips ¹⁸ , per capita	28.5	22.3	19.5	20.6	20.3	20.9	19.3	n.a.#	a	3	8
	Transit Operating Expense per passenger trip ¹⁹	\$3.62	\$4.82	\$5.42	\$5.06	\$4.97	\$4.90	\$5.30	n.a.*	20	ล	8
Multimodal	Transit Passenger Miles ²⁰ , per capita	139.1	152.0	140.7	145.2	143.2	142.9	150.5	n.a.*	ส	57	27
Connectivity	Transit Operating Expense per passenger mile ²¹	\$0.74	\$0.71	\$0.75	\$0.72	\$0.70	\$0.72	\$0.68	n.a.*	20	20	2
eonnecenney &	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.#	2	ส	ส
Access to	Transit Revenue Miles ²² , per capita	25.2	25.5	25.4	26.1	26.4	26.5	26.5	n.a.#	a	÷	57 57
Employment	Transit Operating Expense, per revenue mile ²⁴	\$4.10	\$4.20	\$4.17	\$4.01	\$3.82	\$3.87	\$3.86	n.a.#	692 SM	50	\$¥
	*Regional Households served by Transit ²⁵ , percent	n.a.	42.83%	54.17 n.a.	n.a.	35.02 n.a.	35.07 n.a.	41.47%	n.a.	2	-	
	*Regional Employment served by Transit ²⁵ , percent		42.83% 53.47%					53.91%		27 27	_	_
	• • • • •	n.a.		n.a.	n.a.	n.a.	n.a.		n.a. n.a. [#]	**	~	-
	*Bicycle to Work ²⁶ , percent	0.47%	0.51%	0.50%	0.52%	0.48%	0.49%	0.47%		A	2	8
	Drove Alone to Work ²⁷ , percent	81.51%	81.24%	81.66%	81.59%	81.38%	81.46%	81.29%	n.a.	创	2	2

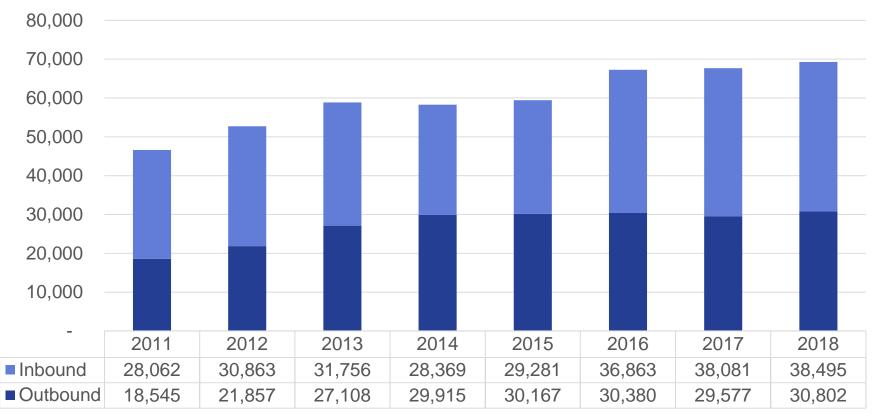


Richmond Marine Terminal Container Volumes

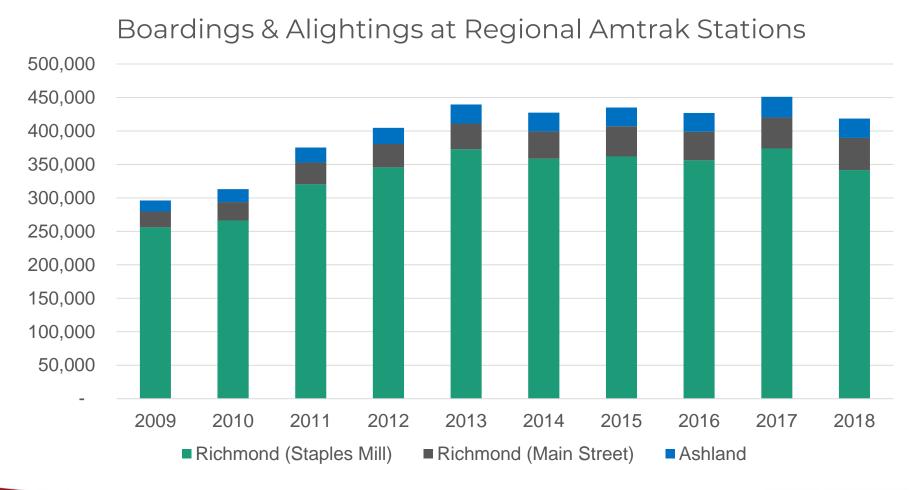




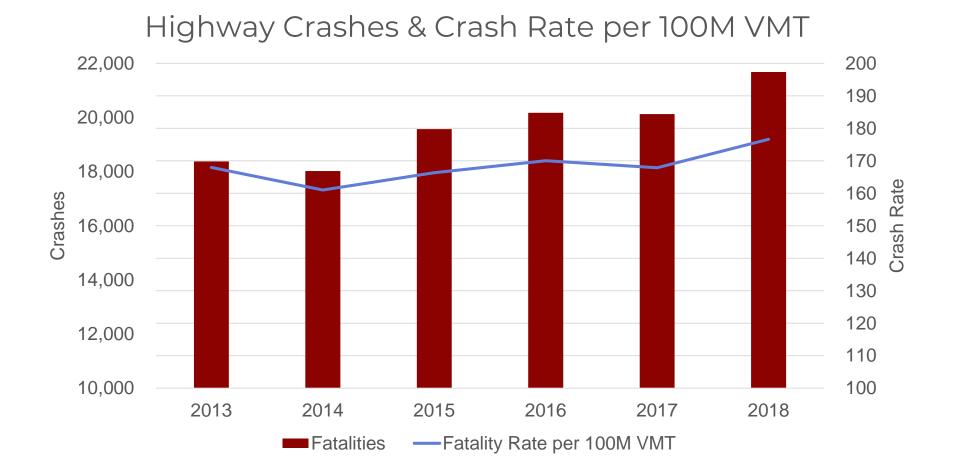
Total Cargo at Richmond International Airport





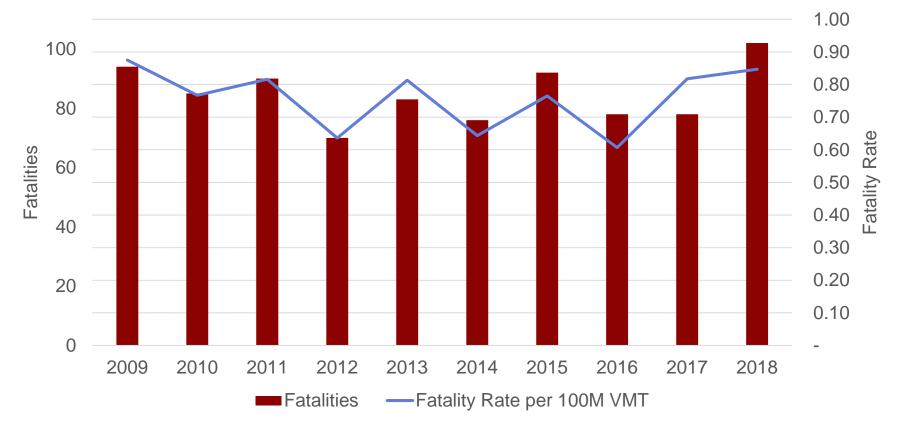


Richmond Regional Transportation Planning Organization

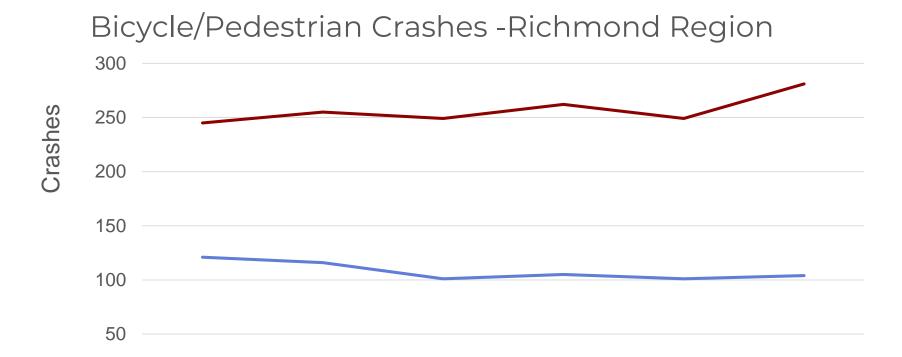


Richmond Regional Transportation Planning Organization

Highway Fatalities & Fatality Rate per 100M VMT



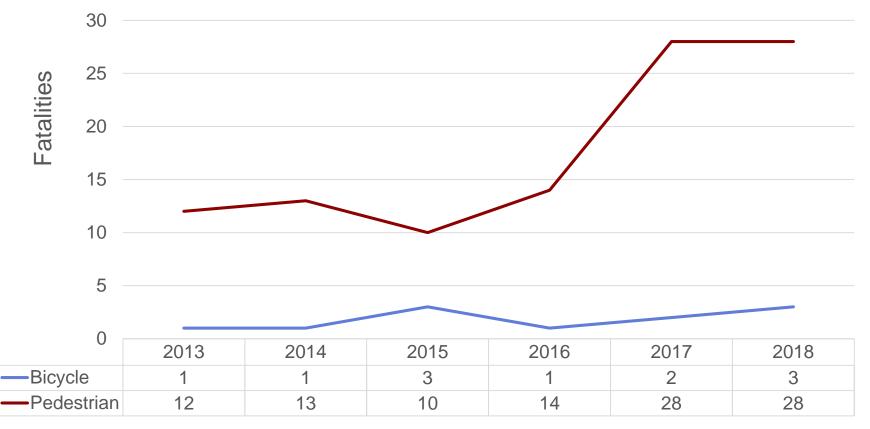




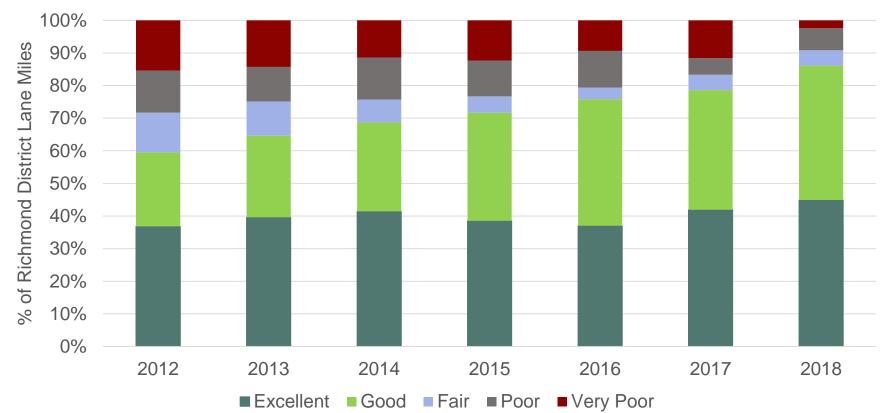
0								
0	2013	2014	2015	2016	2017	2018		
-Bicylists	121	116	101	105	101	104		
-Pedestrians	245	255	249	262	249	281		



Bicycle/Pedestrian Fatalities - Richmond Region







Interstate Pavement Condition



100% % of Richmond District Lane Miles 90% 80% 70% 60% 50% 40% 30% 20% 10% 0% 2012 2013 2014 2015 2016 2017 2018 ■ Good ■ Fair ■ Poor ■ Very Poor Excellent

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.

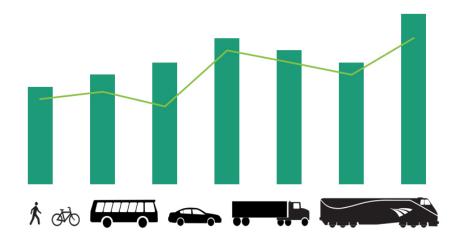
RESOLUTION

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

