







COMMONWEALTH of VIRGINIA Office of the ______ SECRETARY of TRANSPORTATION

Transform66: Inside the Beltway 6 Month Performance Review

Nick Donohue Deputy Secretary of Transportation July 17, 2018







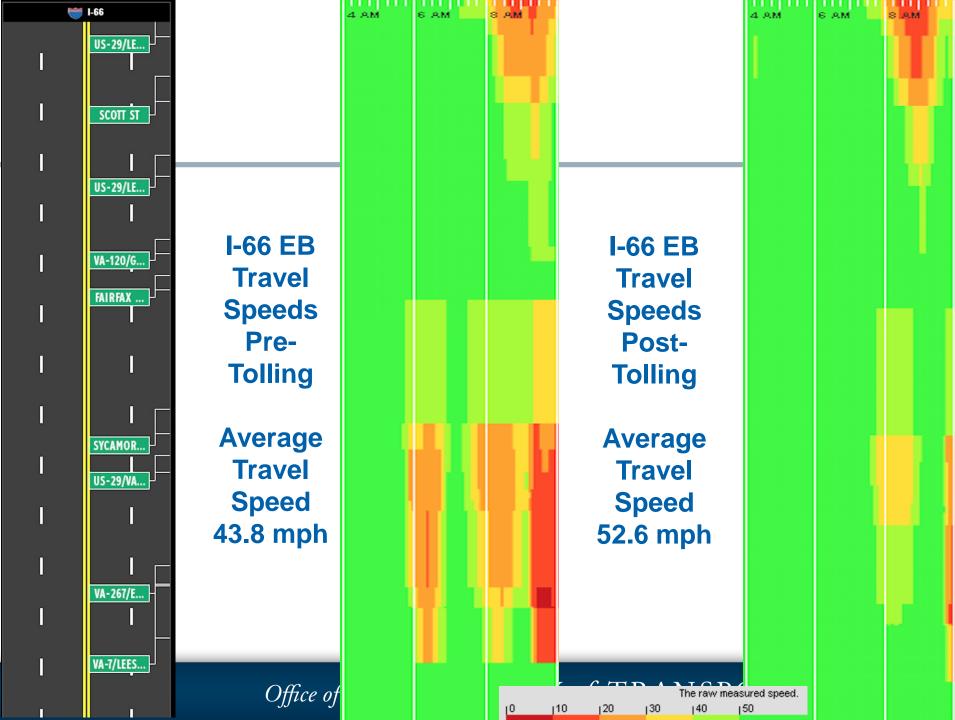
VIRGINIA SPACE

Transform66: Inside the Beltway

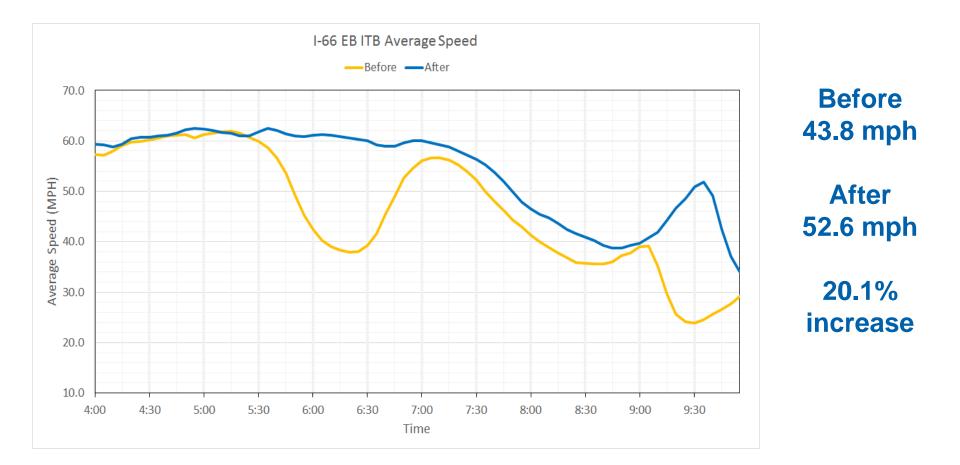
- Result of a multi-year planning that started during the McDonnell Administration
- 2016 compromise reached with General Assembly
 - Convert I-66 to express lanes from 5:30a-9:30a EB and 3:00p-7:00p WB
 - Widening I-66 EB from the Dulles Connector Road to Ballston
 groundbreaking took place last week
 - Re-invest toll revenues in the corridor for improvements recommended by NVTC – \$24M allocated to-date
 - HOV-2 to HOV-3 when 66 Outside the Beltway opens in 2022

Transform66: 6-Month Performance Review

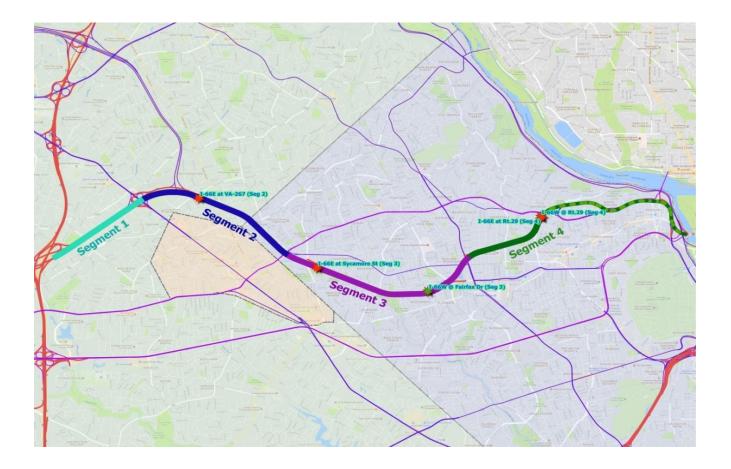
- Morning peak period travel speeds
 - **I-66**
 - Parallel arterials
- Evening peak period travel speeds
 - **I-66**
 - Parallel arterials
- Toll rates and usage
- Morning shoulder period analysis
- Incidents



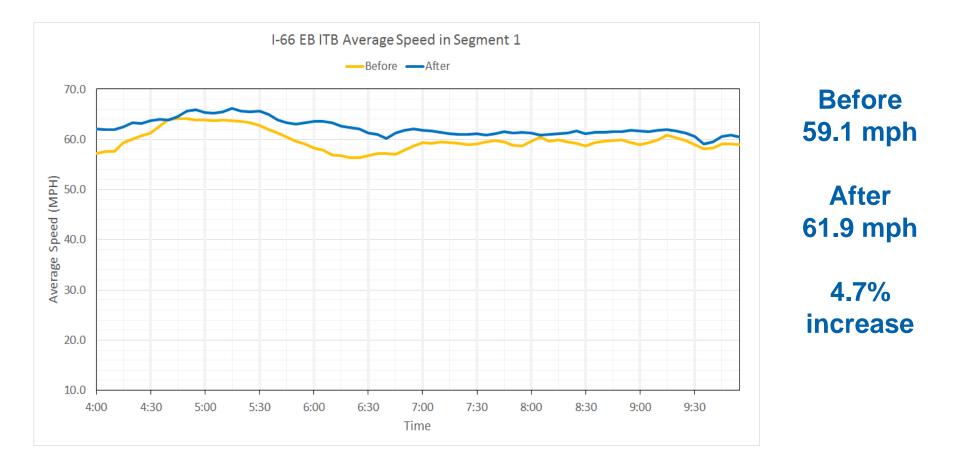
I-66 Eastbound Average Travel Speeds Pre- and Post-Tolling 6 month comparison



I-66 Inside the Beltway - Segments



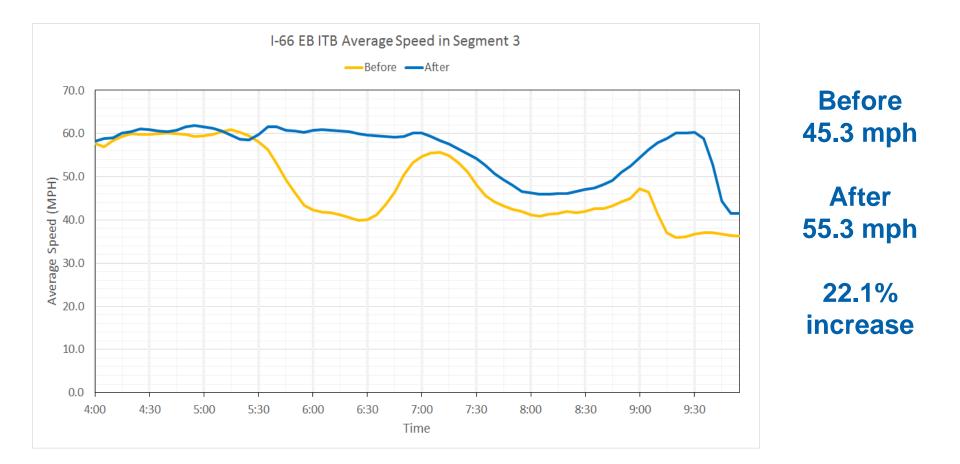
I-66 EB Segment 1 Average Travel Speeds Pre- and Post-Tolling 6 month comparison



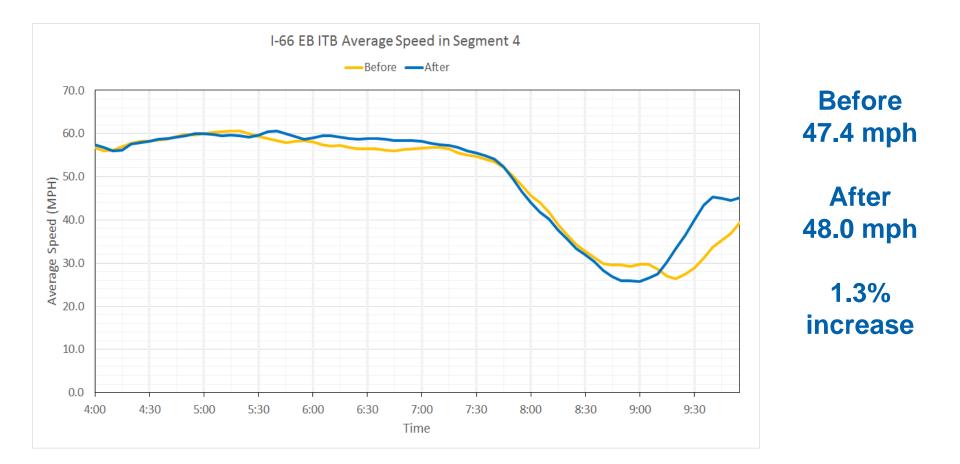
I-66 EB Segment 2 Average Travel Speeds Pre- and Post-Tolling 6 month comparison



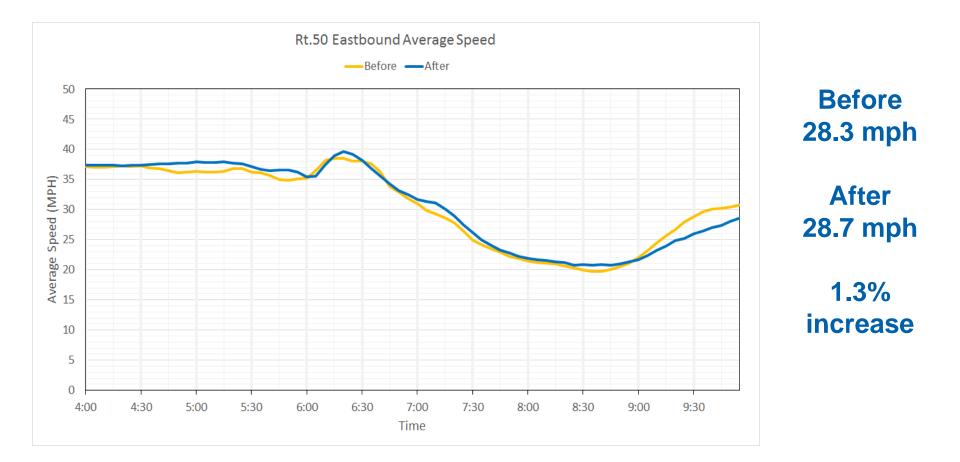
I-66 EB Segment 3 Average Travel Speeds Pre- and Post-Tolling 6 month comparison



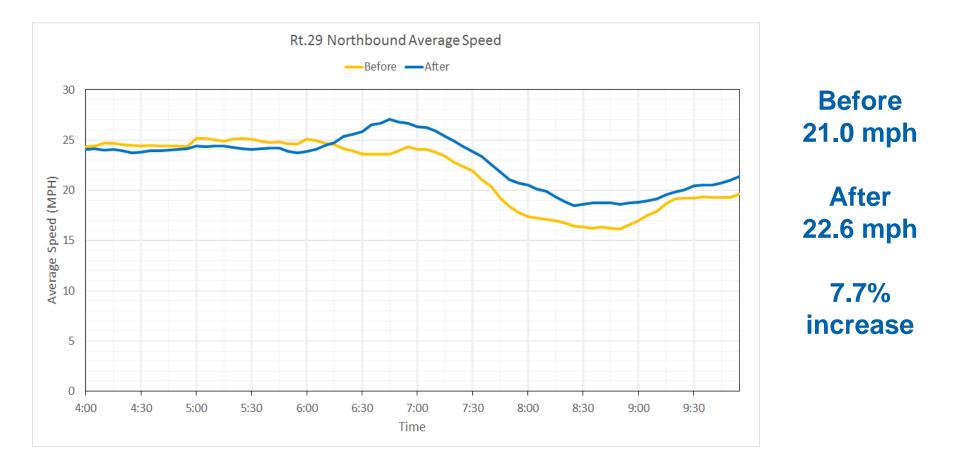
I-66 EB Segment 4 Average Travel Speeds Pre- and Post-Tolling 6 month comparison



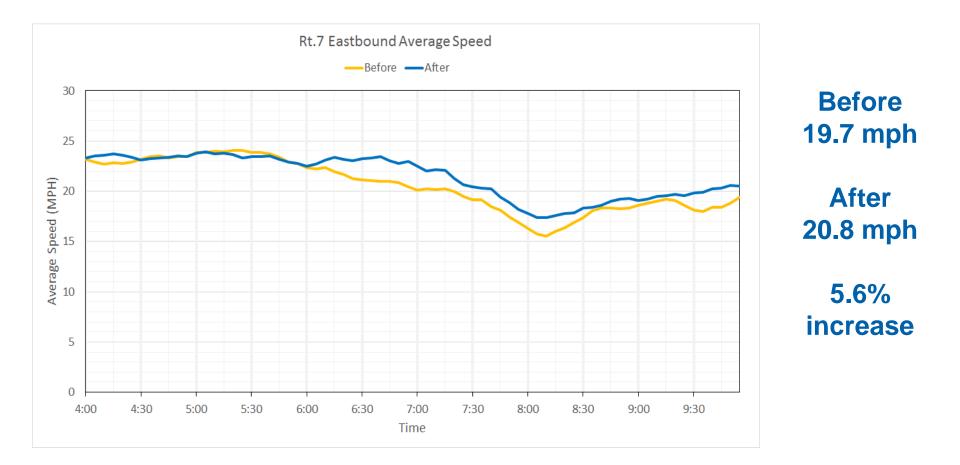
Route 50 EB AM Average Travel Speeds Pre- and Post-Tolling 6 month comparison



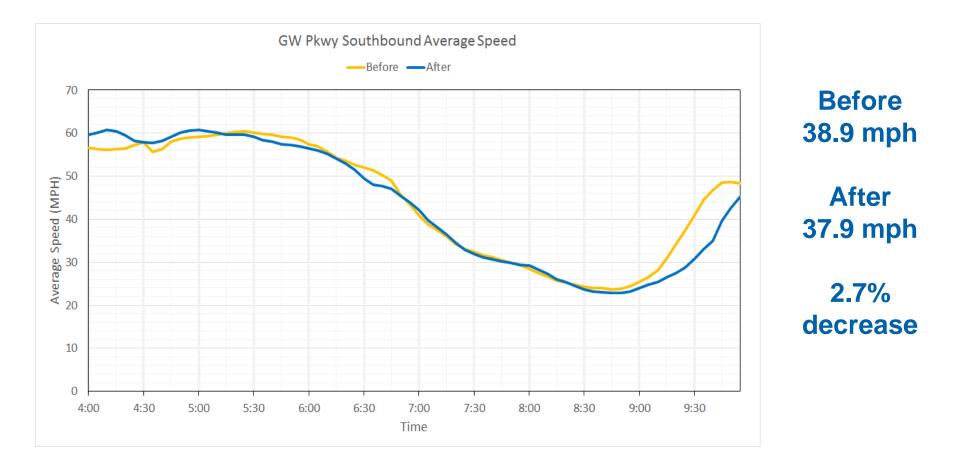
Route 29 EB AM Average Travel Speeds Pre- and Post-Tolling 6 month comparison



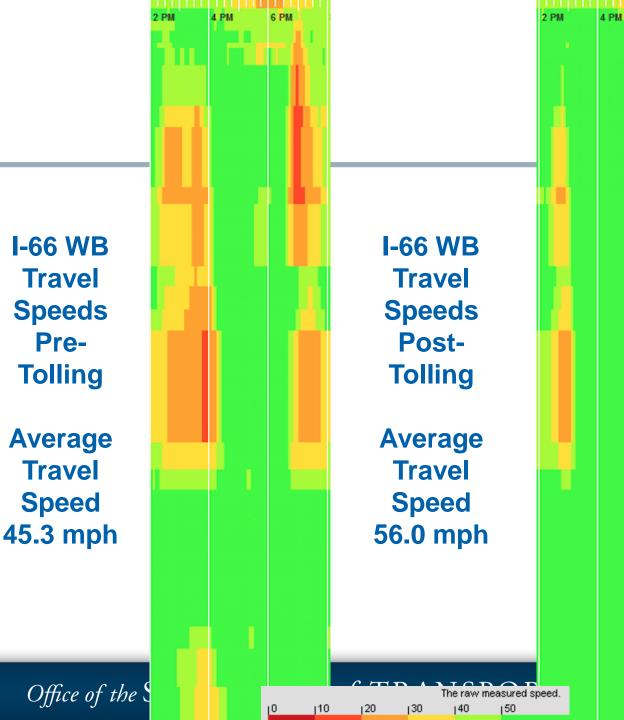
Route 7 EB AM Average Travel Speeds Pre- and Post-Tolling 6 month comparison



GW Parkway SB AM Average Travel Speeds Pre- and Post-Tolling 6 month comparison

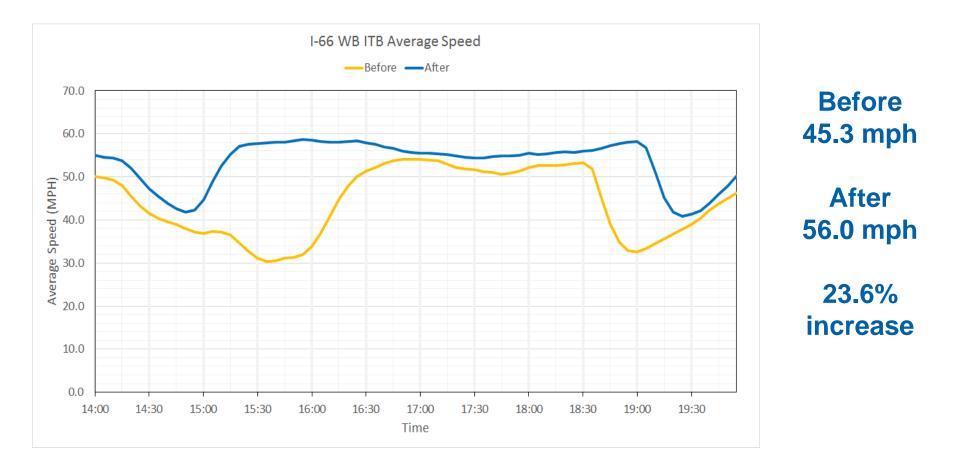




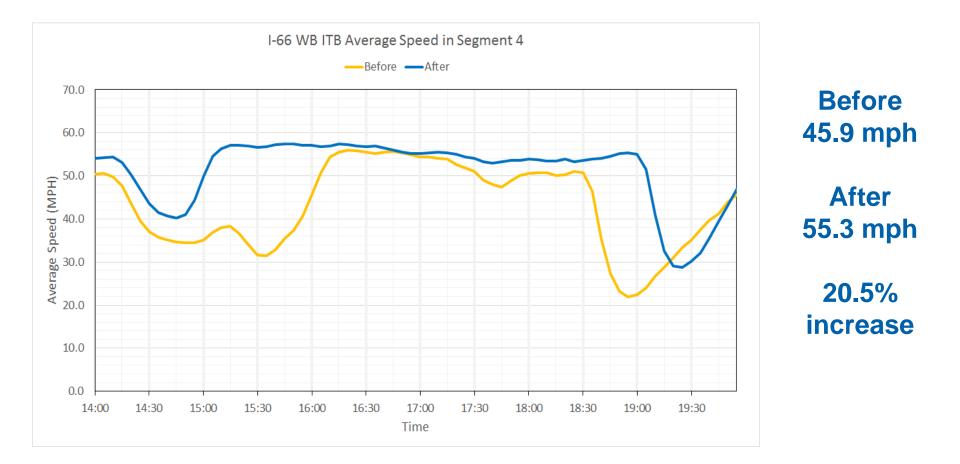


6 PM

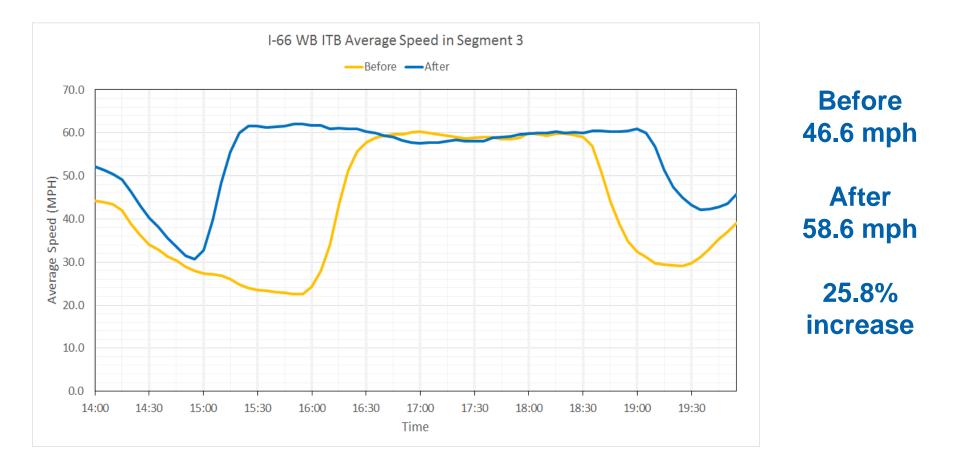
I-66 Westbound PM Average Travel Speeds Pre- and Post-Tolling 6 month comparison



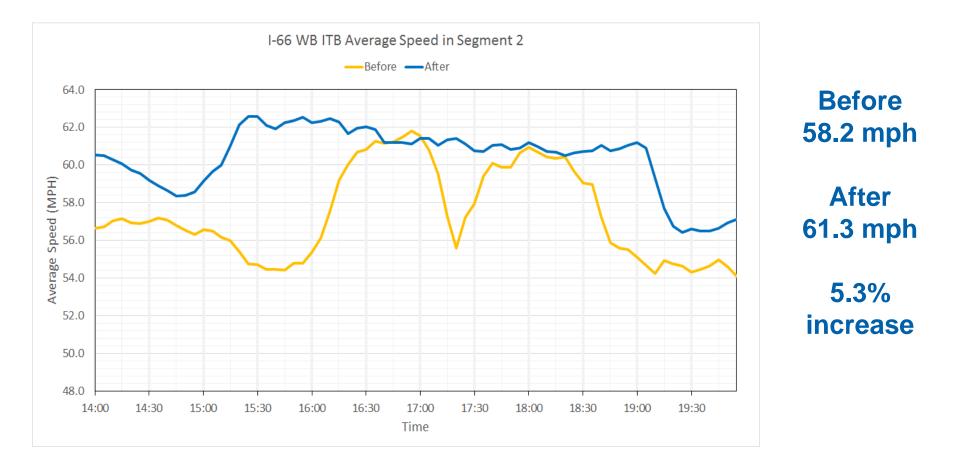
I-66 WB Segment 4 Average Travel Speeds Pre- and Post-Tolling 6 month comparison



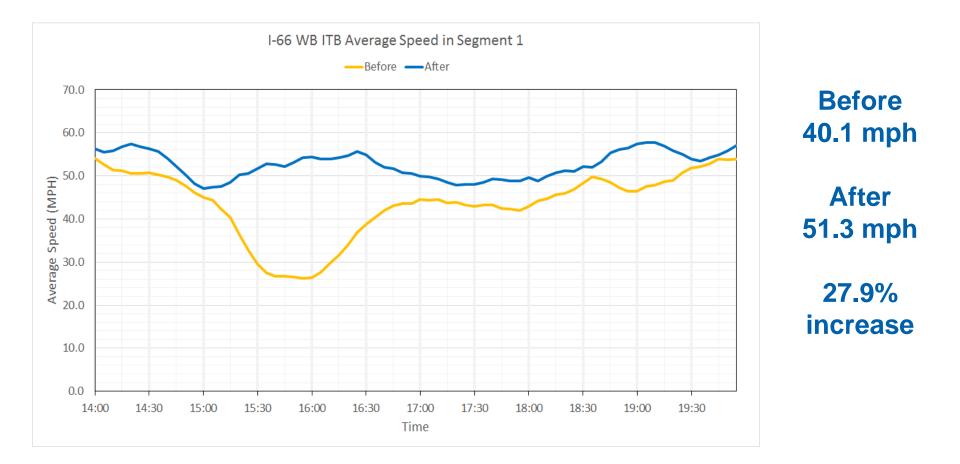
I-66 WB Segment 3 Average Travel Speeds Pre- and Post-Tolling 6 month comparison



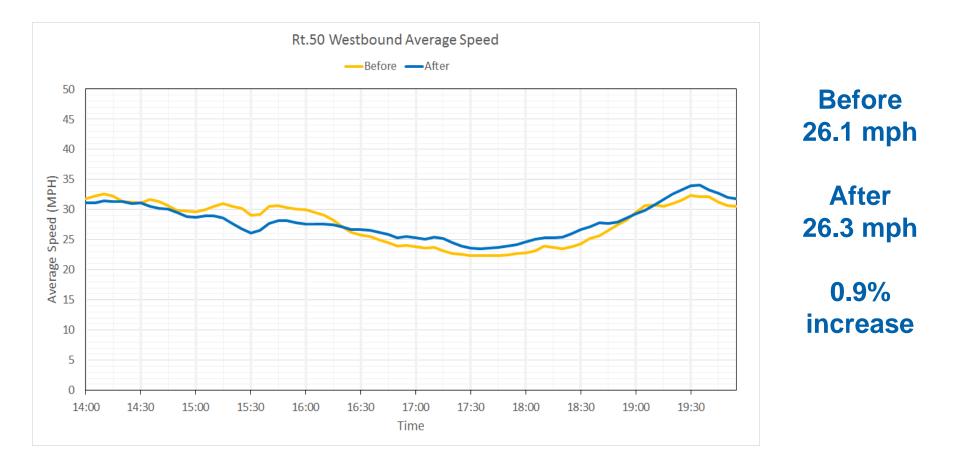
I-66 WB Segment 2 Average Travel Speeds Pre- and Post-Tolling 6 month comparison



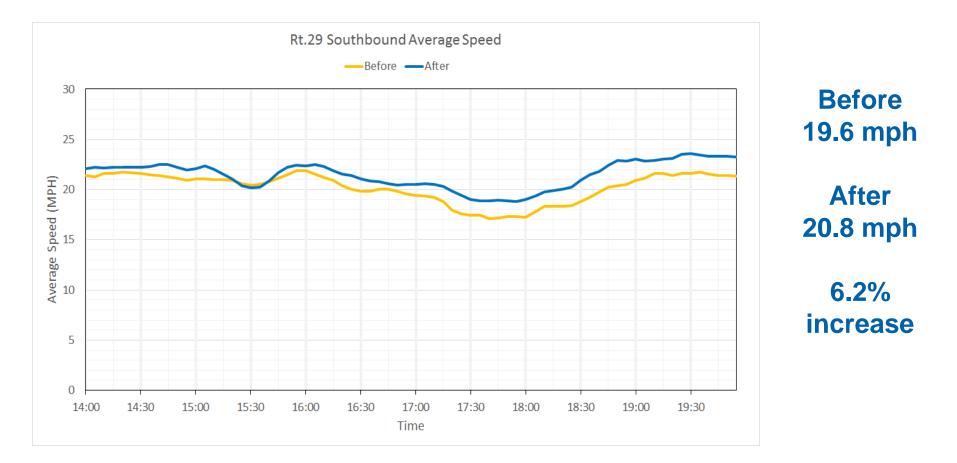
I-66 WB Segment 1 Average Travel Speeds Pre- and Post-Tolling 6 month comparison



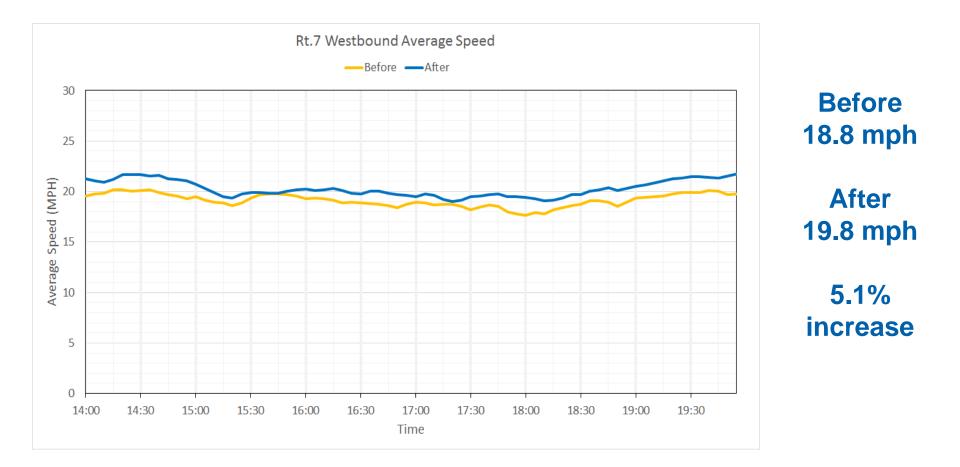
Route 50 WB PM Average Travel Speeds Pre- and Post-Tolling 6 month comparison



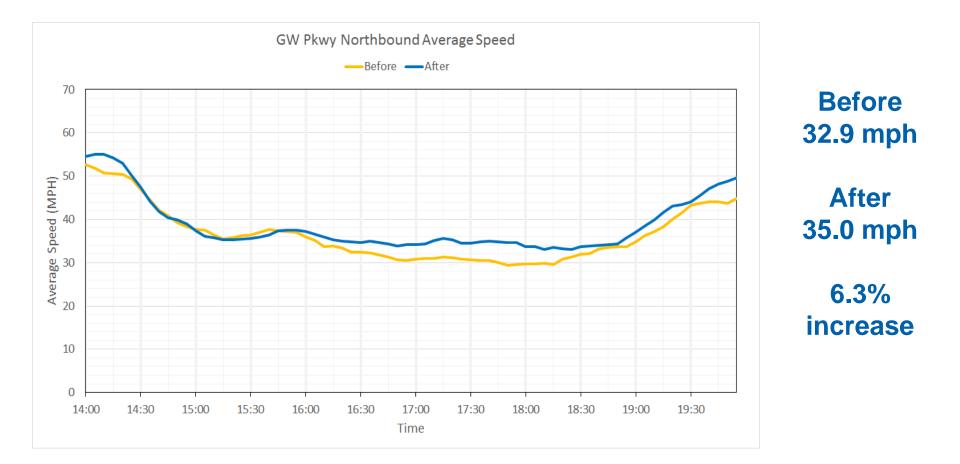
Route 29 WB PM Average Travel Speeds Pre- and Post-Tolling 6 month comparison



Route 7 WB PM Average Travel Speeds Pre- and Post-Tolling 6 month comparison



GW Parkway NB PM Average Travel Speeds Pre- and Post-Tolling 6 month comparison



Toll Rates and Usage

- \$13.09 average price for round trips
 - \$8.49 average price for eastbound trips
 - \$4.60 average price for westbound trips
- 30,184 average daily vehicle trips
 - 13,688 average daily eastbound trips
 - 16,496 average daily westbound trips
- 43% of trips on average are HOV
 - 49.0% of eastbound trips on average are HOV
 - 37.9% of eastbound trips on average are HOV

Toll Rates and Usage

- 0.28% of all toll payers paid more than \$40 during the first six months
- These toll rates are experienced during the height of rush hour between 8am and 9am
- HOV usage peaks between 8am and 9am, and appears to be increasing during this time as well

HOV Penetration	December 2017	May 2018		
8:00 – 8:30a	49.3%	59.3%		
8:30 – 9:00a	44.9%	54.1%		

Toll Rates and Usage

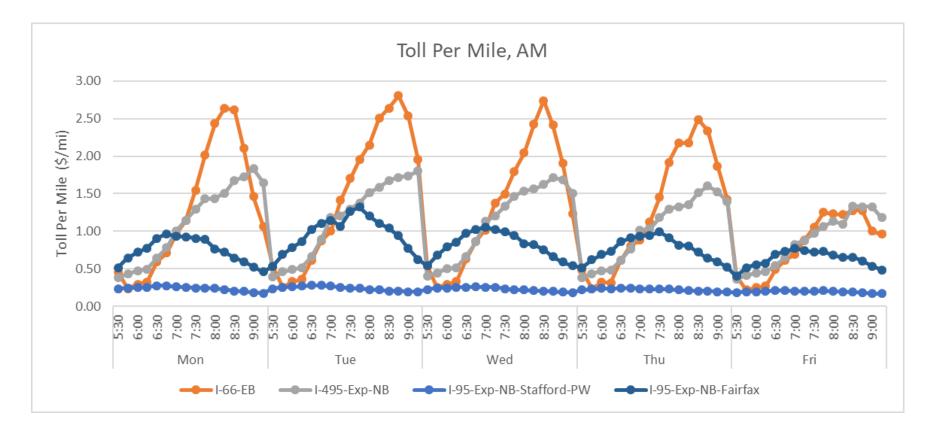
Average Eastbound Toll Paid and HOV Usage

5:30- 6:00	6:00- 6:30	6:30- 7:00	7:00- 7:30	7:30- 8:00	8:00- 8:30	8:30- 9:00	9:00- 9:30
\$2.54	\$2.64	\$5.06	\$7.59	\$11.63	\$14.13	\$13.86	\$8.52
31.4%	34.7%	45.5%	56.5%	59.0%	56.8%	52.2%	38.1%

Average Westbound Toll Paid and HOV Usage

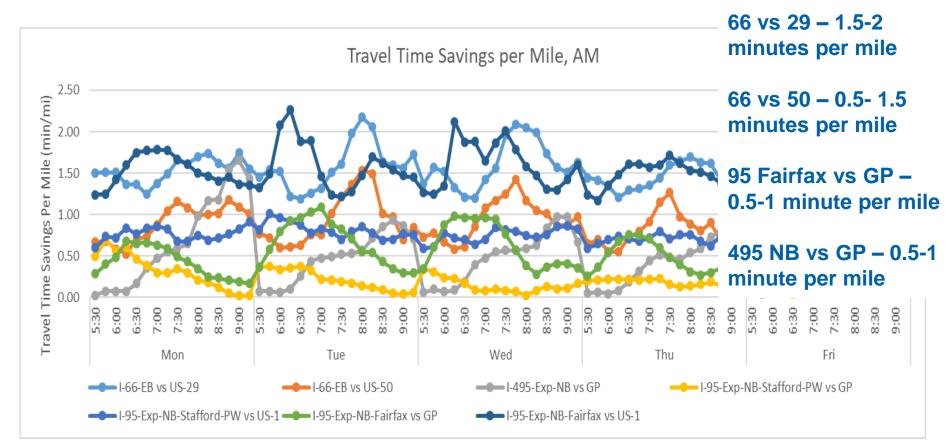
3:00- 3:30	3:30- 4:00	4:00- 4:30	4:30- 5:00	5:00- 5:30	5:30- 6:00	6:00- 6:30	6:30- 7:00
\$4.34	\$3.92	\$4.32	\$5.17	\$5.36	\$5.67	\$4.71	\$3.67
28.3%	31.2%	39.3%	43.3%	45.4%	45.1%	39.2%	30.3%

Northern Virginia AM Express Lane Toll Rates per Mile



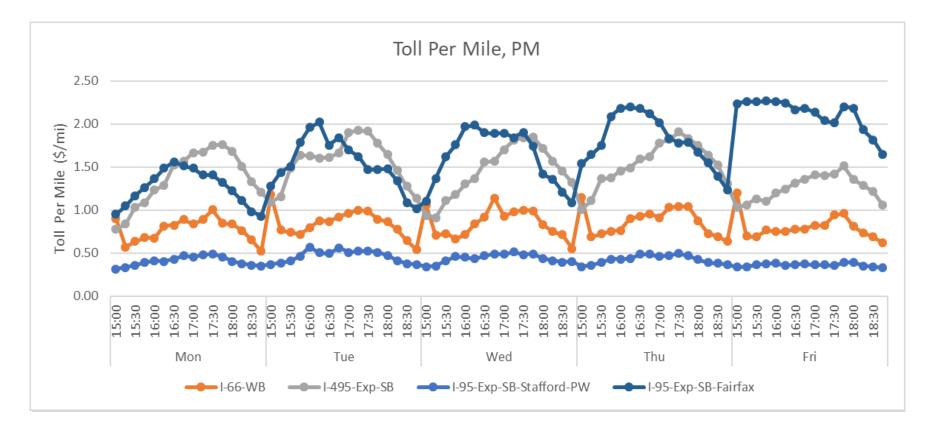
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Northern Virginia AM Estimated Travel Time Savings from Express Lanes



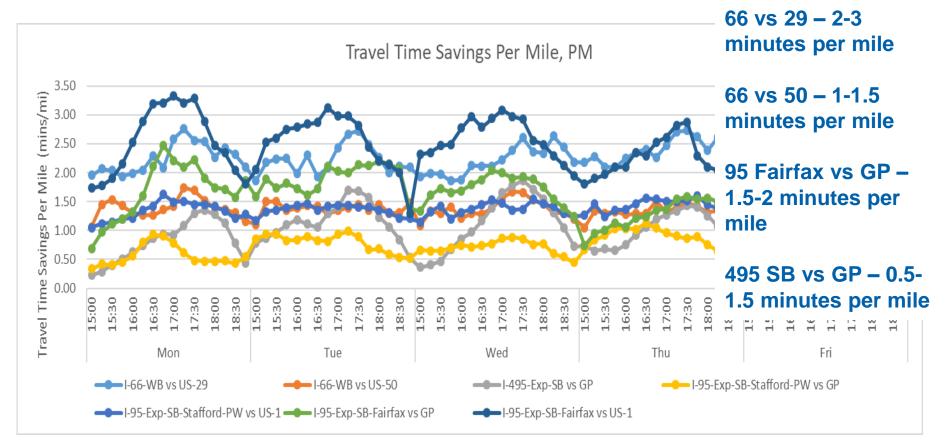
Office of the SECRETARY of TRANSPORTATION

Northern Virginia PM Express Lane Toll Rates per Mile



Office of the SECRETARY of TRANSPORTATION

Northern Virginia PM Estimated Travel Time Savings from Express Lanes

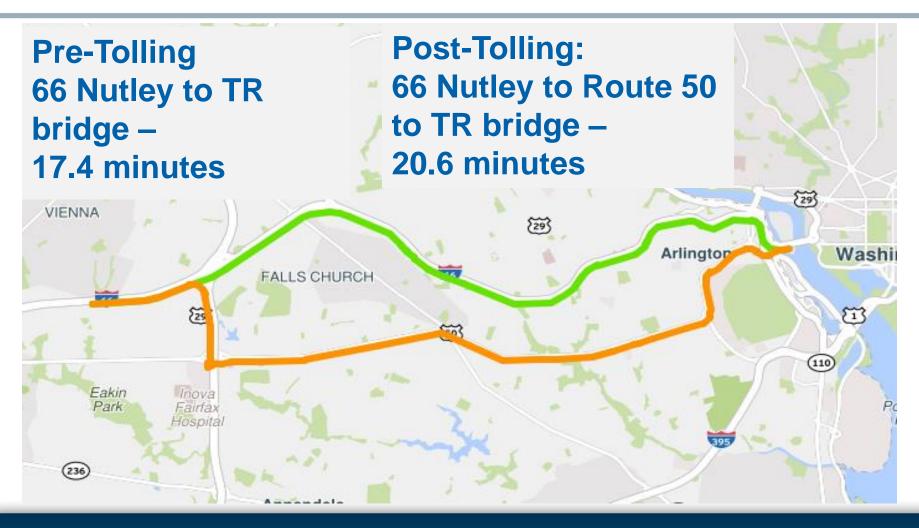


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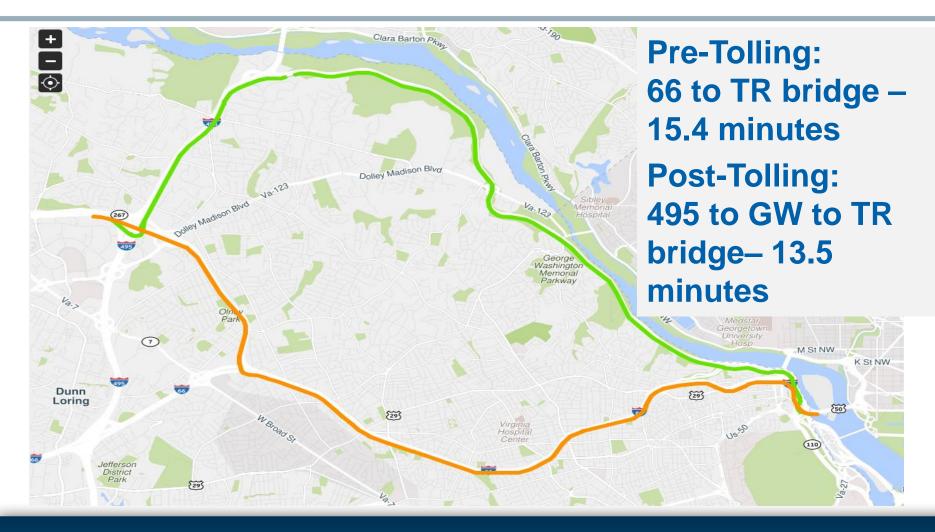
Month-to-Month Usage Statistics

	January	February	March	April	Мау
EB AM Peak Traffic	12,961	13,958	13,656	14,832	15,340
WB PM Peak Traffic	15,364	16,656	16,447	17,398	18,130
Total Daily HOV Traffic	12,233	13,559	13,101	14,306	14,712

AM Shoulder Period – 6:00am Travel Times



AM Shoulder Period – 6:00am Travel Times



Incidents on I-66 Pre- and Post-Tolling 6 month comparison

	Eastb	ound	Westbound		
Time Period	Pre-Tolling	Post- Tolling	Pre-Tolling	Post- Tolling	
Crashes	248	218	164	132	
% Change	12.1% D	ecrease	15.0% Decrease		

Moving Forward

- Will continue to monitor performance of Express Lanes and parallel routes
 Sock to identify notontial exerctional improvement
 - Seek to identify potential operational improvements
- Construction on new eastbound lane is underway and will be complete in 2020
- VDOT is testing modifications to tolling system to evaluate opportunities to move more people
- Will continue partnership with NVTC to re-invest toll revenues in the corridor