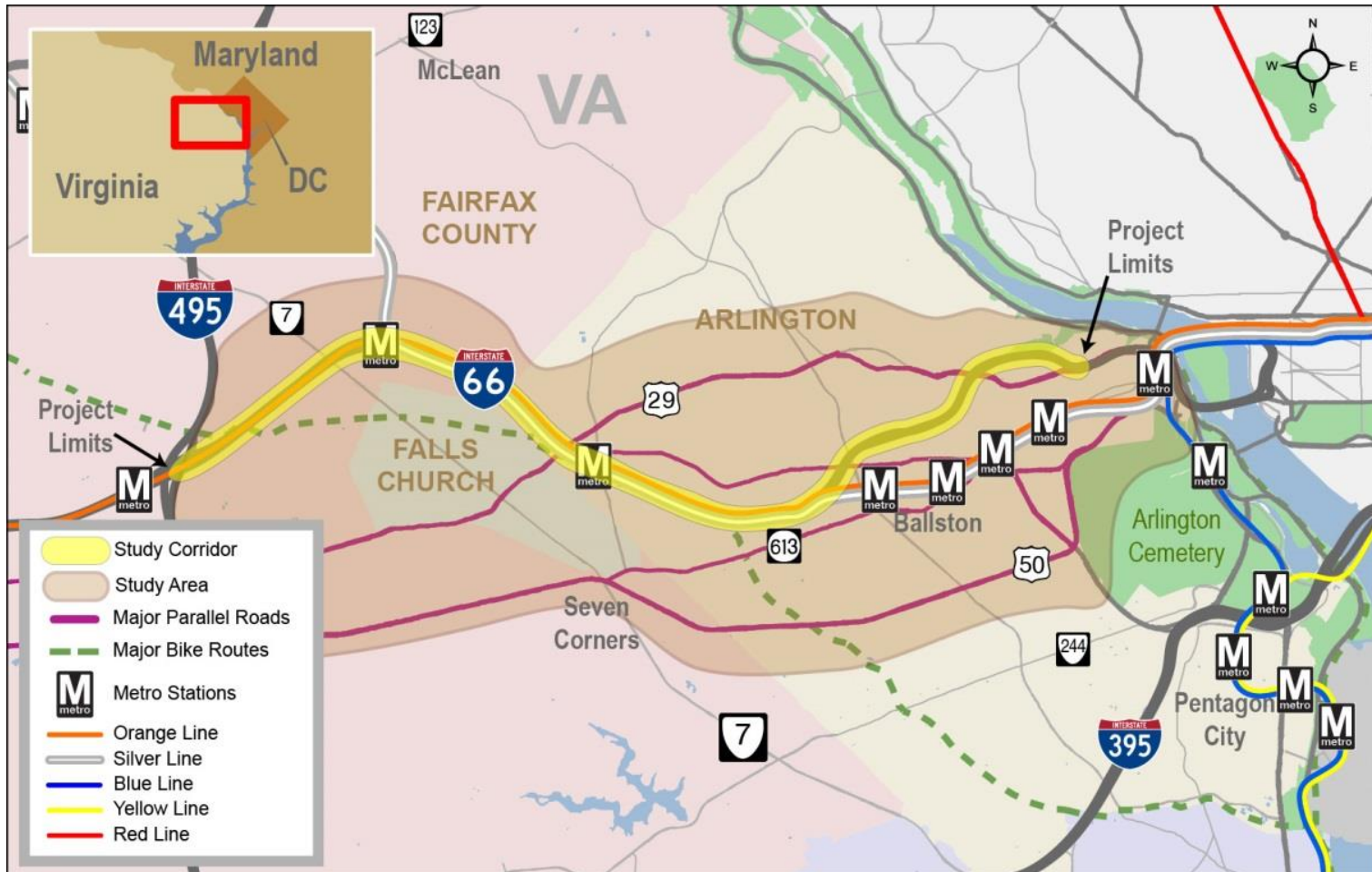


Investing in Multimodal Solutions

Project Overview

September 16, 2015

Project Map





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Project Context

- **I-66 between the Capital Beltway (I-495) and Rosslyn opened in 1982 as an HOV-4 facility**
 - Changed to HOV-3 in late 1983
 - Changed to HOV-2 in March 1995
- **Only Interstate in the Country limited to HOV only traffic during rush hours**
 - **Current HOV hours**
 - Inside Beltway (eastbound): 6:30 a.m. to 9:00 a.m.
 - Inside Beltway (westbound): 4:00 p.m. to 6:30 p.m.
- **Stoplight at the end of I-66 eastbound in the District**





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Project Context

- **Deck over I-66 in Rosslyn and retaining walls constrain ability to widen I-66**
- **Overcrowding of Orange Line**



Changes to I-66 exclusive of this Project

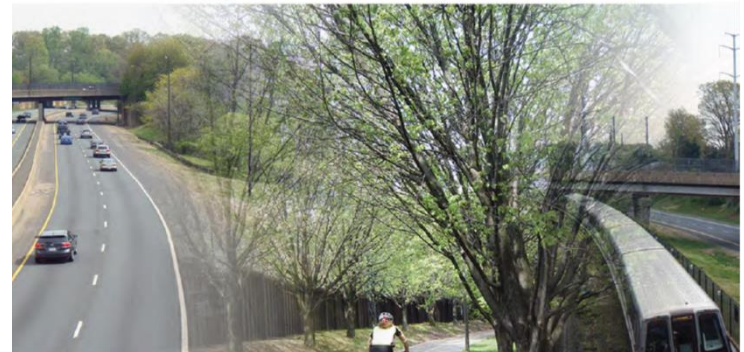
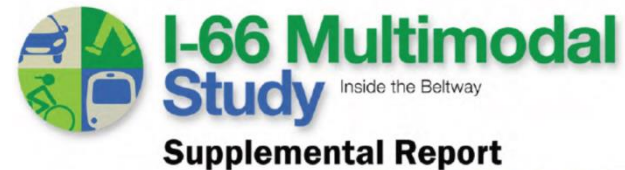
- **Transportation Planning Board at MWCOG adopted plan to modify HOV rules in I-66 both inside and outside the Beltway**
 - ***Increase occupancy requirements from 2 to 3 by 2020***
- **Federal rules require ‘limiting or discontinuing’ use of HOV lanes by hybrids when lanes are degraded (<45mph)**
 - ***I-66 is currently degraded and has been for a number of years***
- **Bus on-shoulder pilot program underway to allow buses to by-pass significant congestion points**
- **Spot improvements in westbound direction**
 - ***Spot #1 open to traffic***
 - ***Spot #2 will open to traffic in 2015 and will provide 4 full lanes from Washington Blvd to Dulles Connector Road***



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Project Scope

- Proposed project is result of detailed multi-year study undertaken in 2011 and completed in 2013
- Recommendations include:
 - Convert I-66 to dynamically priced toll lanes during rush hours
 - AM – 5:30 am – 9:30 am
 - PM – 3:00 pm – 7:00 pm
 - Increase HOV requirements to 3 people
 - Enhance bus service throughout the corridor
 - Improve access to Metro
 - Widen I-66 EB from I-495 (the Capital Beltway) to Ballston





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Multimodal Project List

- **Local and regional projects**
 - **Multimodal Project List from 2012/2013 Study**
 - **Projects from agencies and counties including Prince William, Loudoun, Fairfax, and Arlington Counties as well as the Potomac and Rappahannock Transportation Commission (PRTC)**

- **Projects including:**
 - **Technology**
 - **Spot/intersection improvements**
 - **Transit**
 - **Transportation demand management (TDM)**
 - **Bike/pedestrian**
 - **Tolling**
 - **Roadway Improvements**



TRANSFORM 66
INSIDE the Beltway

VDOT | DRPT






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Travel Choices



Original Trip
(During AM/PM Peaks)



-  **Pay Toll**
-  **Transit (Bus/Rail)**
-  **Parallel Routes**
-  **HOV 3+ / Vanpool**
-  **Change time of travel**



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Project Goals & Benefits

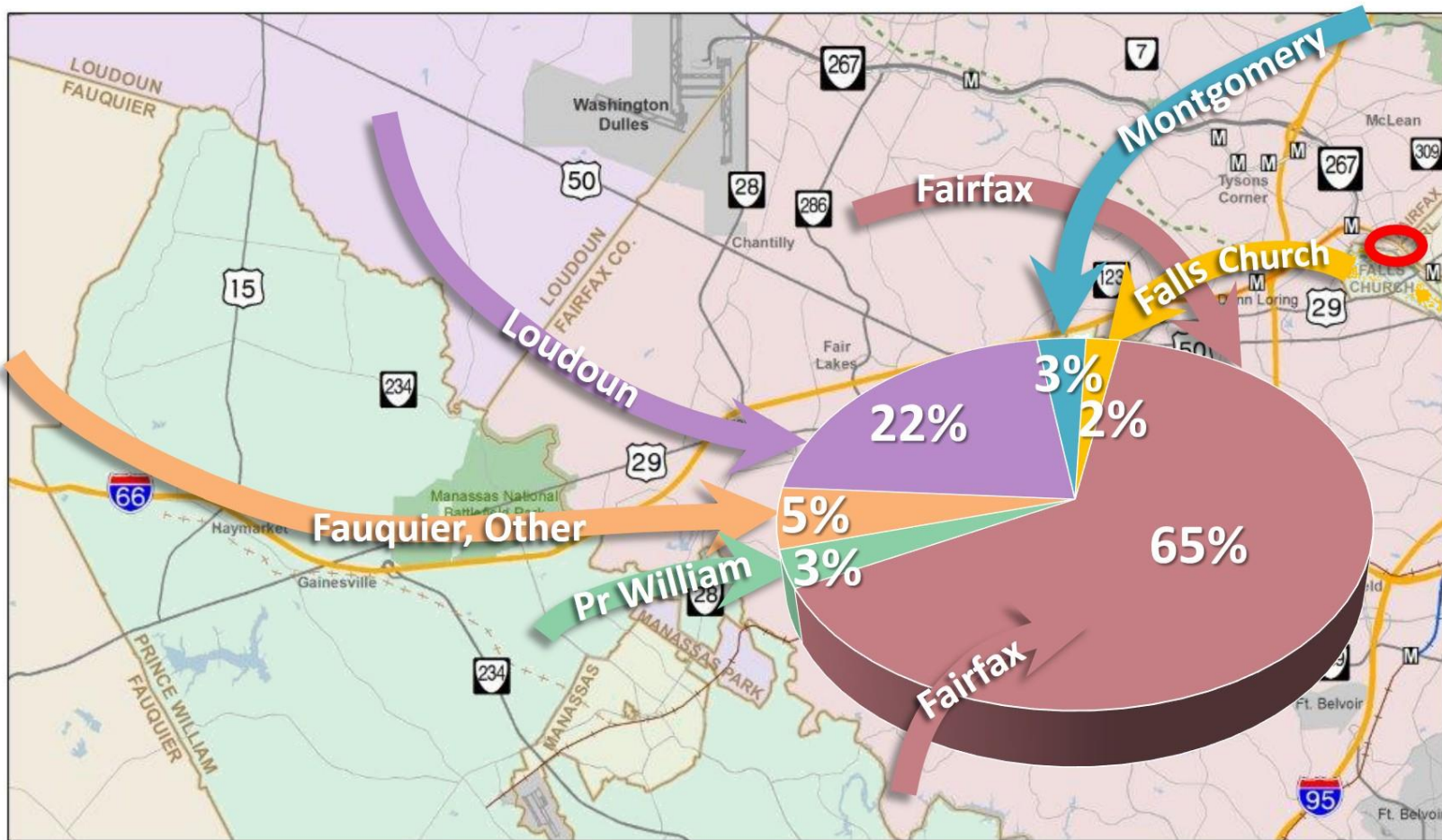
- **Move more people – up to 40,000 per day – and enhance connectivity for the I-66 Corridor**
- **Provide more travel choices for single-occupancy vehicles**
- **Enhance transit operations**
- **Improve reliability for all travelers**
- **Create opportunities for improved level of service on parallel routes**
- **Provide seamless connectivity to the region’s 40+ miles of express lanes**
- **Provide revenue stream support to multimodal investments on I-66 and complementary corridors adjacent to I-66**



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Origin Highlights

EB I-66, East of Route 267, Vehicle Trips in 2040

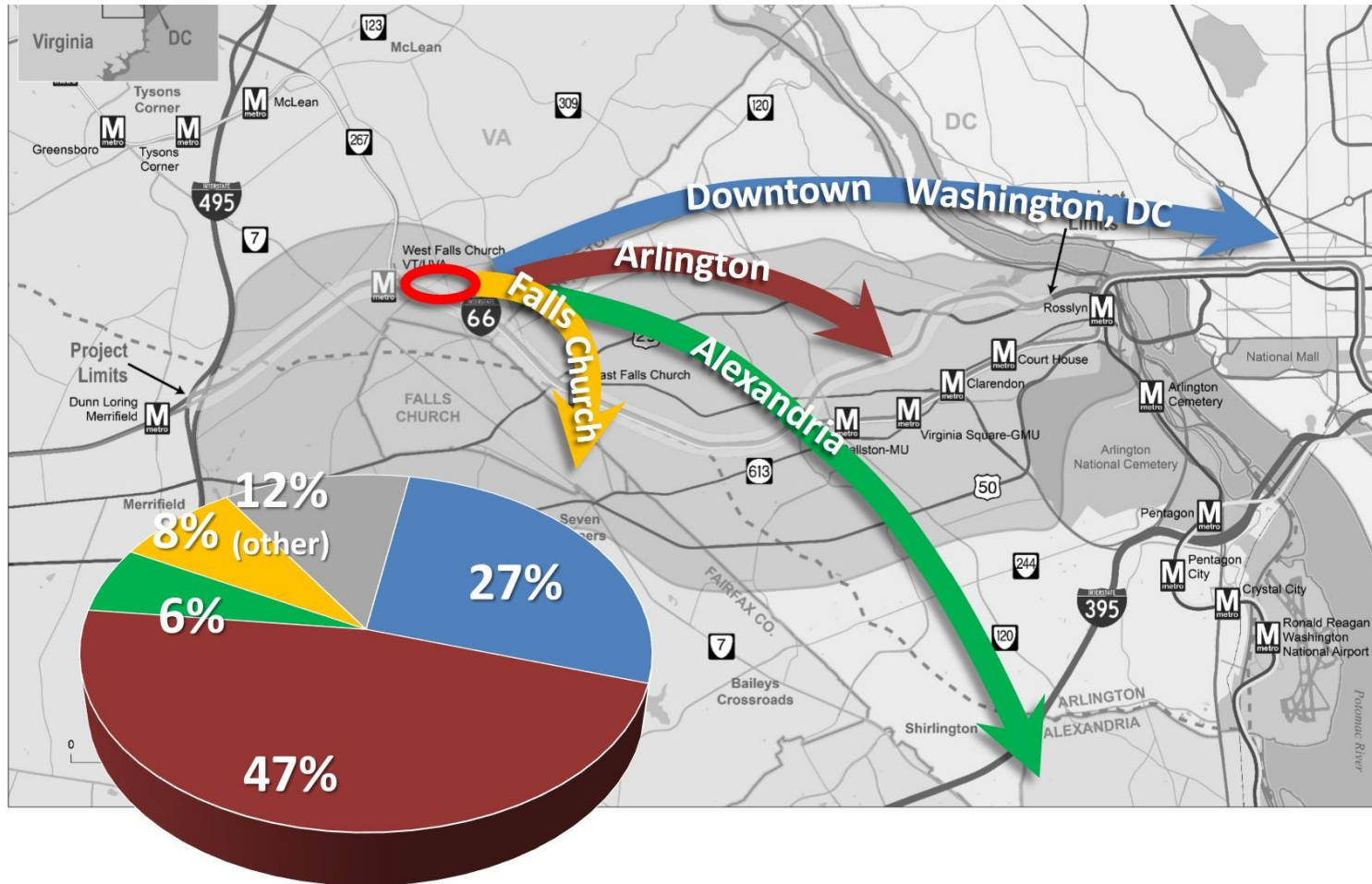




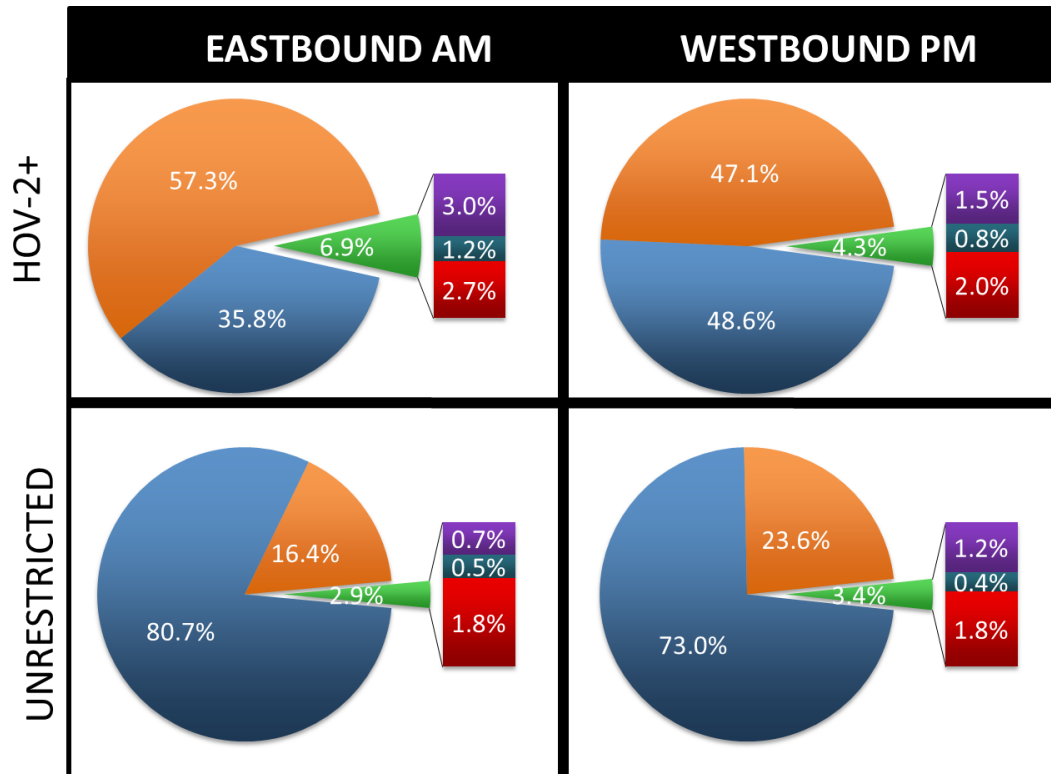
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Destination Highlights

EB I-66, East of Route 267, Vehicle Trips in 2040



Existing HOV-2+ vs. Unrestricted Morning Rush Hour



Source: 2013 MWCOC HOV Performance Study (September 10, 2013).



- **Existing HOV 2+ Period:**
Eastbound AM 6:30 am to 9:00 am
Westbound PM 4:00 pm to 6:30 pm
- **Unrestricted period study reviewed 1.5 hours before and 1 hour after the HOV-2+ restricted period.**
- **SOV traffic during the HOV-2+ period consists of Dulles Airport trips, hybrid, police, and violators.**
- **“Other” vehicles include vans, trucks, and motorcycles.**



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Tolling Overview

- **Scenarios being tested for consideration**
 - HOV-2+ FREE Start Up in 2017
 - » 4 hour restricted period
 - » AM 5:30 AM – 9:30 AM
 - » PM 3:00 PM – 7:00 PM
 - HOV-3+ FREE Start Up in 2017
 - » 4 hour restricted period
 - » AM 5:30 AM – 9:30 AM
 - » PM 3:00 PM – 7:00 PM
 - HOV-3+ FREE Start Up in 2021
 - » 4 hour restricted period
 - » AM 5:30 AM – 9:30 AM
 - » PM 3:00 PM – 7:00 PM
 - Dynamic Toll Lane operation in both directions during both peak periods (weekdays only)
 - Hybrids, law enforcement, airport traffic not exempt from toll

- **Toll and Revenue Analysis**

- **Dynamic tolling to maintain 45 MPH minimum speed**

- **Toll Day One: Summer 2017**



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Anticipated Toll Rates

- Tolls may be higher or lower, depending on traffic volumes, to manage demand and ensure free-flow travel for High Occupancy Vehicles, transit and Single Occupancy Vehicle users
- Estimated typical tolls along corridor during peak hours based on modeling are:

Toll Scenarios	Eastbound		Westbound	
	AM-peak	PM	AM	PM-peak
2017 SOV – Pays the Toll HOV2+ rides for FREE	\$9.00	\$2.00	\$1.00	\$8.00
2017 SOV/HOV2 – Pays the Toll HOV3+ rides for FREE	\$7.00	\$1.00	\$1.00	\$6.00
2021 SOV/HOV2 - Pays the Toll HOV3+ rides for FREE	\$7.00	\$1.00	\$1.00	\$6.00



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Threshold Requirements

- **Projects must:**
 - Offer benefits to toll payers
 - Create opportunities for new or enhanced free travel options serving the corridor
 - Increase person throughput for the corridor

Next Steps - Multimodal

- **Continue to review/update multimodal project list**
- **Develop project selection process**
 - Finalize and approve selection criteria
 - Initiate *Call for Projects* (Fall 2015) to develop initial Capital Improvement Program for 2017
- **Confirm entities eligible to review project submittals**
 - All Planning District 8 jurisdictions including Prince William County
 - Transit agencies



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Public Outreach and Agency Coordination Outreach

- **More than 35 outreach meetings to date**
- **Upcoming meetings with elected officials and key stakeholder groups**
- **Public Information Meetings scheduled for Fall of 2015 (Presentations at 7:30pm)**
 - **Monday, October 5, 2015, 7:00-9:00 p.m.**
VDOT Northern Virginia District Office
 - **Tuesday, October 6, 2015, 7:00-9:00 p.m.**
Mary Ellen Henderson Middle School
 - **Wednesday, October 7, 2015, 7:00-9:00 p.m.**
Washington-Lee High School
- **Design Public Hearing**
 - **Thursday, November 12, 2015, 7:00-9:00 p.m.**
Washington-Lee High School
- **Project Working Group**
 - **VDOT, DRPT, Arlington County, Fairfax County, City of Falls Church, NVTC**
- **Inside Stakeholder Technical Advisory Group**
 - **Including stakeholder jurisdictions, transit providers, transportation agencies & authorities, federal and regional DOT partners**





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Upcoming Project Milestones

Key Milestones	Begin Dates/Duration
Public outreach	Ongoing
Working Group/Technical Stakeholder Advisory Group meetings	Ongoing
Traffic and revenue study	Spring 2015/6 months
Group multimodal solutions according to implementation schedule	Spring 2015/9 months
Toll system design	Summer 2015/6 months
Framework agreement	Fall 2015/4 months
Public Information Meetings	Early October 2015 <i>(VDOT NOVA District, Mary Ellen Henderson Middle School and Washington-Lee High School)</i>
Design Public Hearing	Early November 2015
Tolling construction	Spring 2016
Group 1 multimodal solutions selection/implementation	Spring 2016
Tolling implementation	Summer 2017
Begin Tolling	Summer 2017