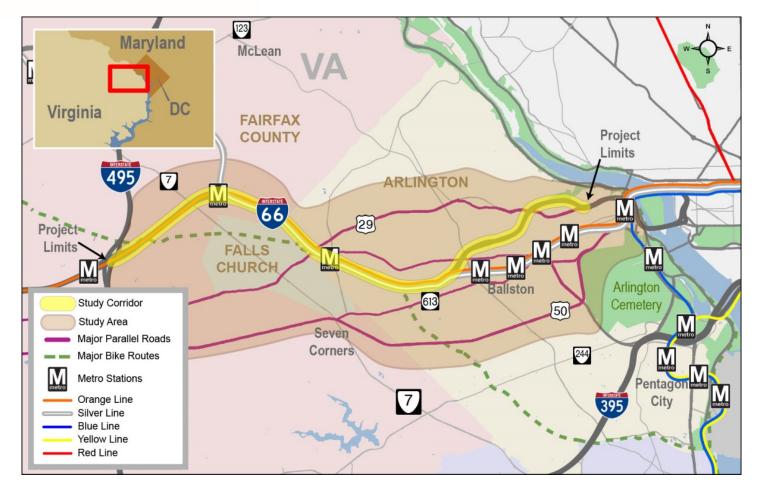


McLean Citizens Association Transportation Committee Project Briefing

November 10, 2015









Project Context

- Only Interstate in the Country limited to HOV only traffic during rush hours
- Stoplight at the end of I-66 eastbound in the District
- Deck over I-66 in Rosslyn and retaining walls constrain ability to widen I-66
- Metrorail Orange Line trains are overcrowded







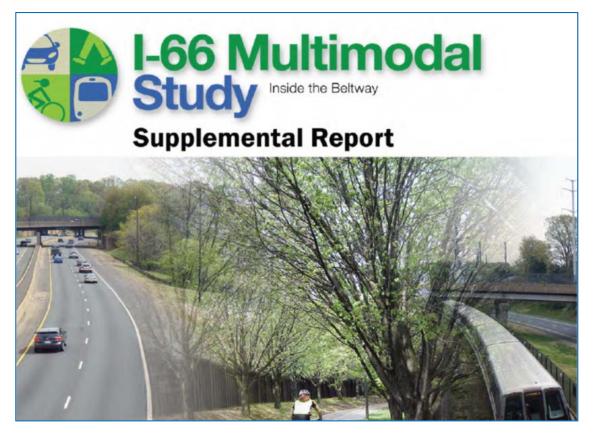
Changes to I-66 Independent of this Project

- The Transportation Planning Board adopted a plan to modify HOV rules on all regional interstates including 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





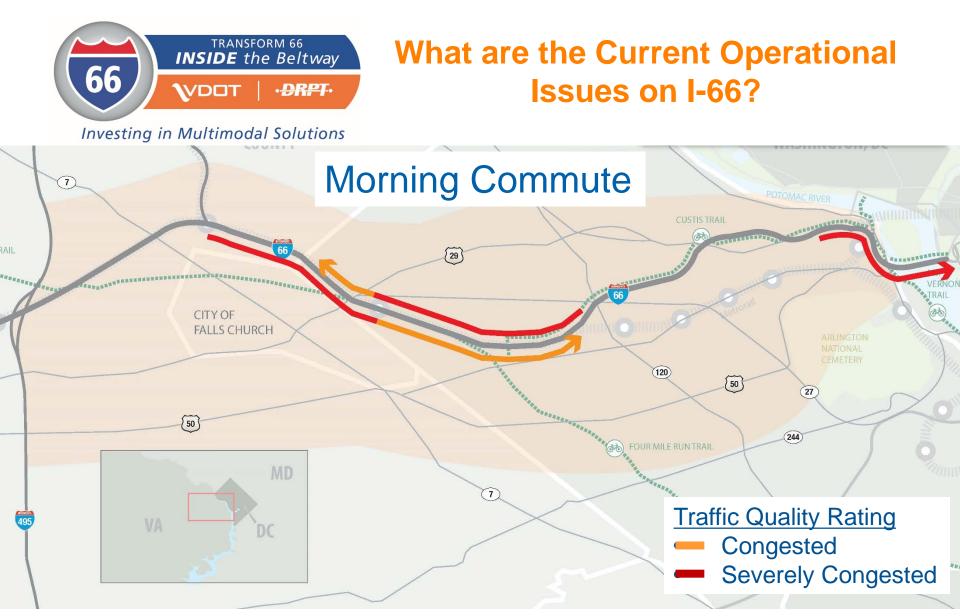
 Proposed project follows a multi-year study undertaken in 2011 and completed in 2013





What are the Current Operational Issues on I-66?

- Heavy traffic volume over 140,000 vehicles per day (total both directions)
- Significant multi-hour queues
 - Bottlenecks created by limited thru lanes, lane drops and major merge areas
- Heavy volumes entering and exiting I-66 at the Route 267 interchange affect traffic in both directions for extended periods
- In the peak direction, vehicles leaving the corridor on both ends are impacted by downstream congestion
 - Westbound PM congestion approaching I-495 impacted by I-66 congestion outside the beltway
 - Eastbound AM congestion approaching the Potomac River impacted by congestion associated with Roosevelt Bridge

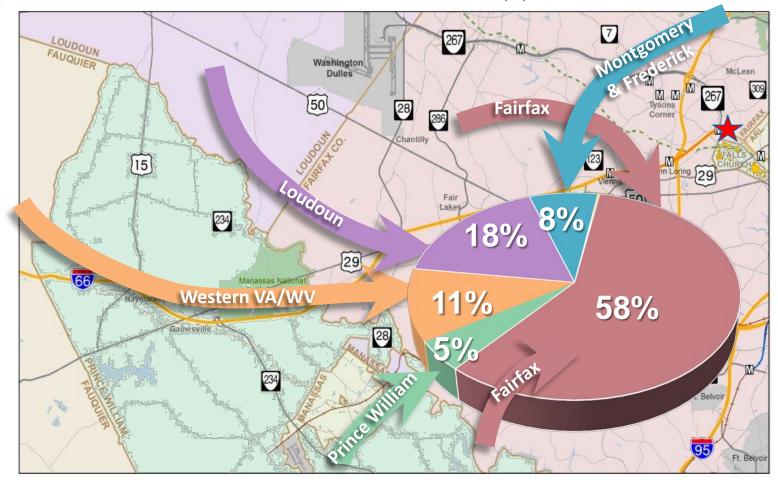


Source: National Capital Region Transportation Planning Board's Traffic Quality on Metropolitan Washington Area Freeway System Spring 2014 Report



Who's using I-66 in the morning heading Eastbound?

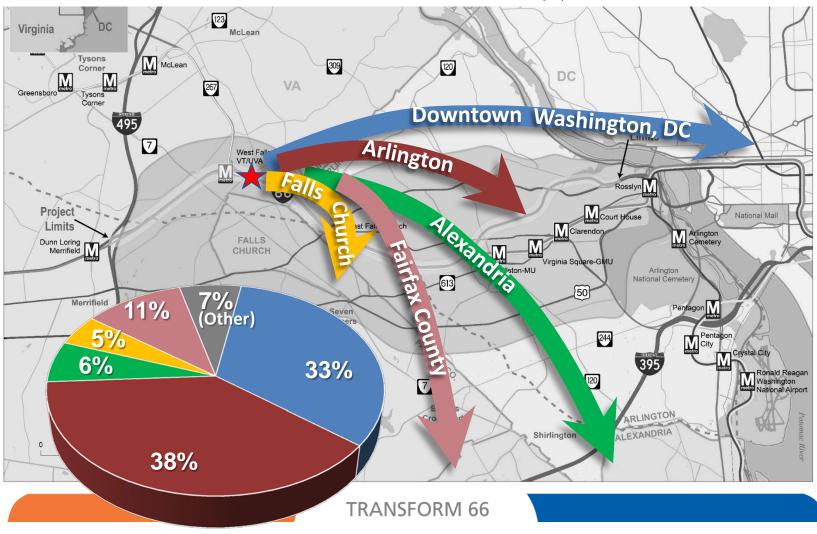
Origin– AM Eastbound, East of Route 267 (Reference Point: +)

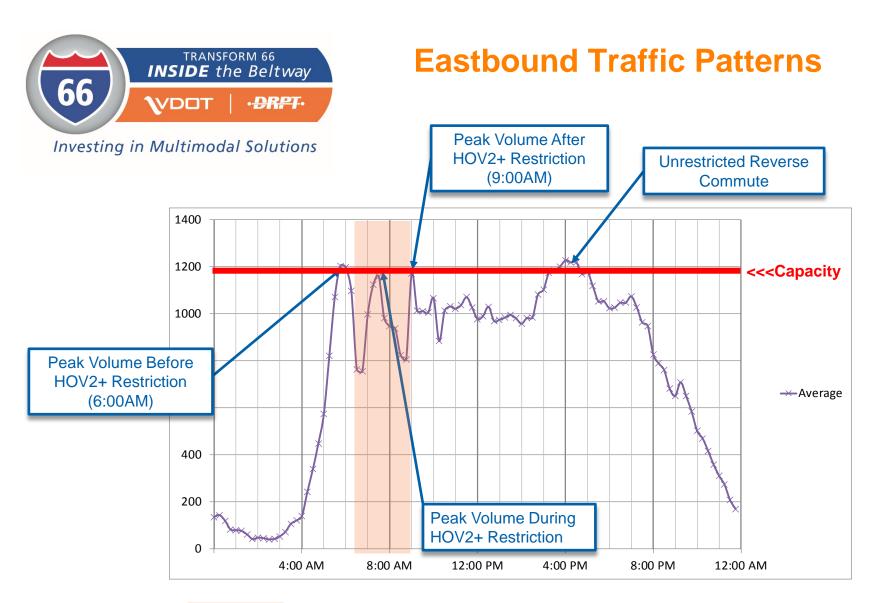




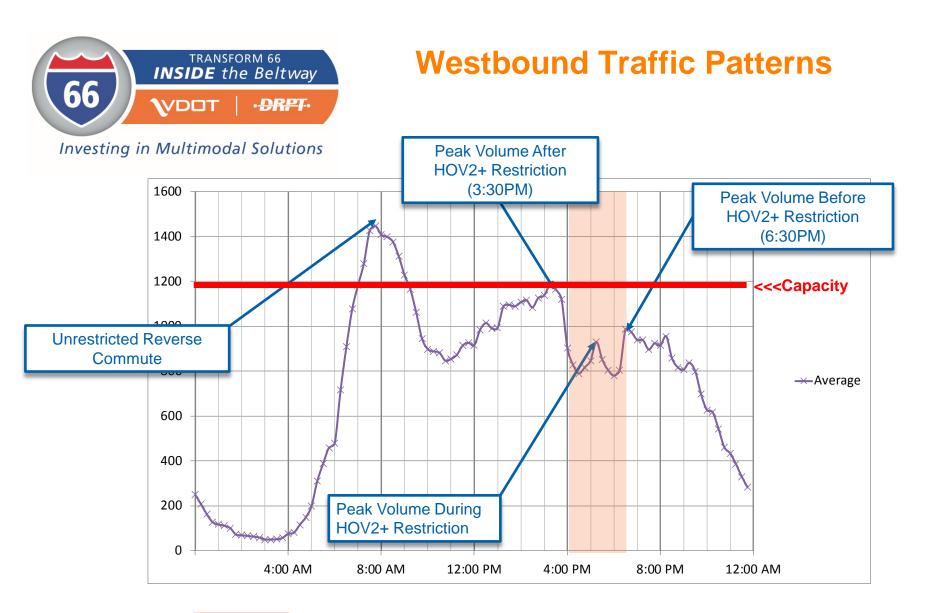
Where is Eastbound Morning Traffic Going?

Destination– AM Eastbound, East of Route 267 (Reference Point:)





AM/PM HOV Restriction Period

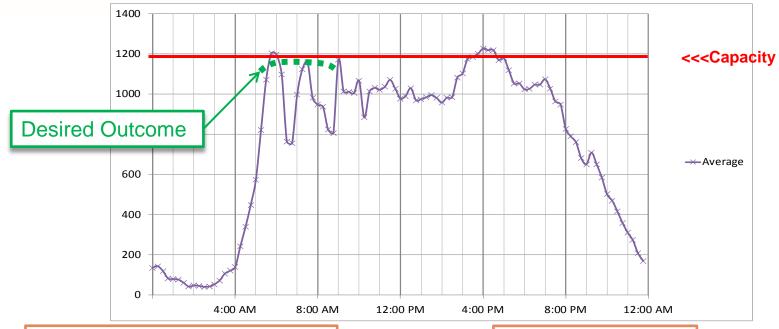


AM/PM HOV Restriction Period



Why extend to 4-hour period?

Investing in Multimodal Solutions



Existing Conditions

- Significant demand before and after current HOV restricted period
- Surges in demand overwhelms existing capacity and worsens existing bottlenecks

Project Benefits

- Project would balance demand across 4-hour period
- Control of demand onto I-66 will lessen impacts of existing bottlenecks



What are the Project Features?

- Tolling
 - Convert I-66 to dynamically-priced toll lanes in the peak direction during weekday rush hours
 - Toll prices will change depending on traffic volumes to manage demand for the lanes and ensure a more reliable trip
- Multimodal
 - Enhanced bus service throughout the corridor
 - Better access to Metro
 - New bicycle and pedestrian access
 - Roadway improvements on local roads
- Future widening
 - Evaluation of the need for Eastbound widening
 - I-66 East from Dulles Connector Road to Ballston



What are the Project Benefits

- Move more people up to 40,000 more people per day by 2040 and enhance connectivity for the I-66 Corridor
- Enhance transit service
- Provide revenue stream support to multimodal components on I-66 and complementary corridors adjacent to I-66
- Provide more travel choices for single-occupancy vehicles
- Improve reliability for all travelers
- Promote a carpool culture and commitment to multimodalism
- Create opportunities for improved level of service on parallel routes
- Provide seamless connectivity to the region's 40+ miles of express lanes



How the Tolls Will Work?

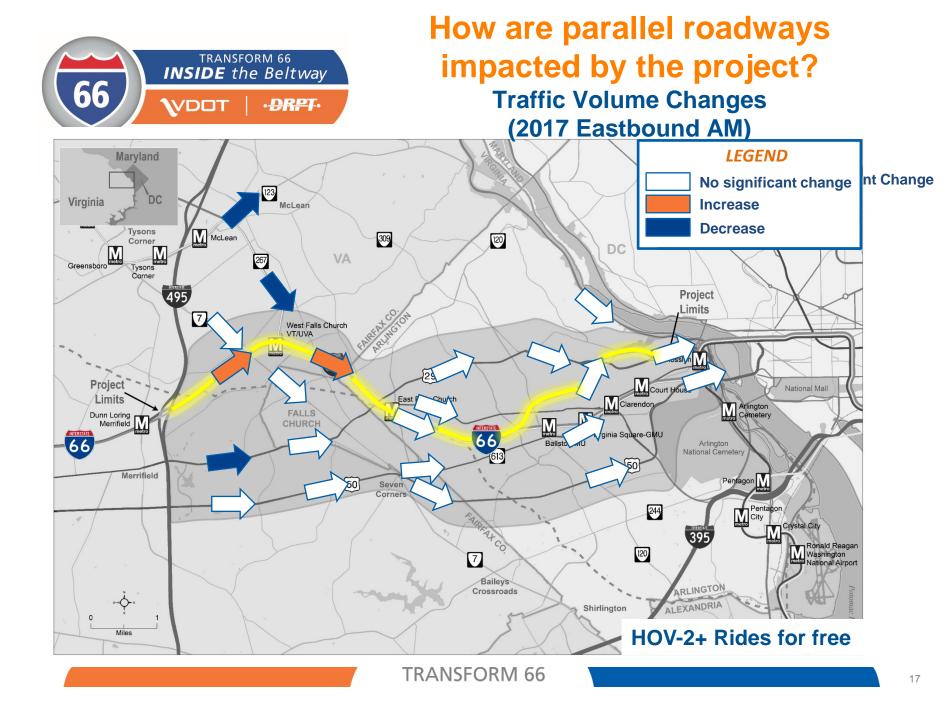
- Toll prices will change depending on traffic volumes to manage the demand for the lanes and ensure a faster and more reliable trip
- When toll collection begins in 2017:
 - Toll period will be 4-hours in length during AM and PM commuting periods in the peak direction (5:30am-9:30am; 3:00pm-7:00pm)
 - High Occupancy Vehicle (HOV)-3+ will be FREE
 - VDOT considering allowing HOV-2 ride for FREE for first few years
 - Single-occupant vehicle (SOV) drivers will have option to pay a toll and use the lanes during rush-hours
 - Lanes will remain FREE to all traffic during off-peak periods
 - Hybrids and Dulles Airport travelers not exempt from toll
 - Motorcycles and emergency response vehicles exempt from toll
 - Heavy trucks prohibited from lanes during rush hours
- By 2021:
 - HOV-3+ will travel for free as adopted in the Regional Transportation Plan



How Much Will Tolls Be?

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

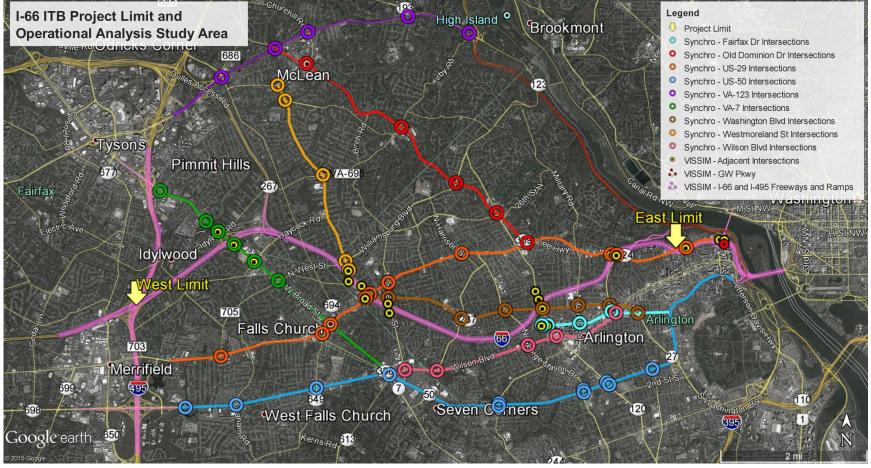
- Minimum Price at each toll zone is 25 cents
- Tolls may be higher or lower, depending on traffic volumes, to manage demand and ensure free-flow travel for users
- Pricing reflects estimated tolls for a typical trip taken along corridor during peak hours based on forecast model





55 Intersection that are being evaluated

Investing in Multimodal Solutions





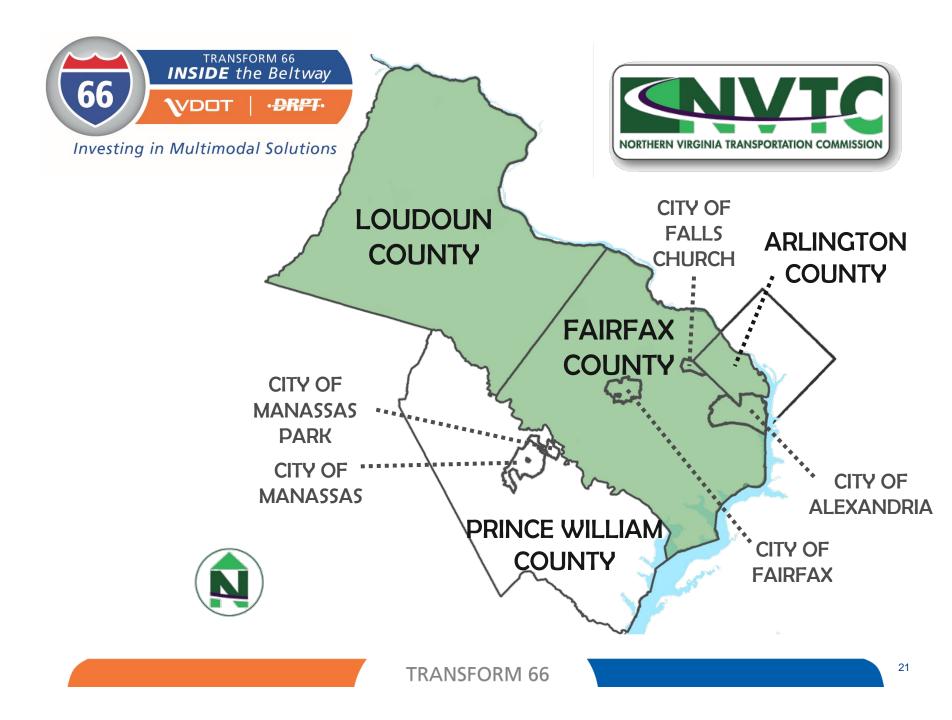
How the Tolls Will Work? Enforcement of Managed Lanes

- All users of the managed lanes will need to use an EZ-Pass or EZ-Pass Flex Transponder
- Users with no transponder will receive a violation notice in the mail from using a picture of the license plate taken from camera installed on gantry
- Gantry equipment with technology will differentiate SOV and HOV transponder setting
- Police will compare information received from system to the number of people in the car and manually enforce
 - This is consistent with the I-95 and I-495 Express Lanes
 - Information from the I-95 and I-495 Express Lanes program indicates that violation rates dropped from 27% to just above 1% once the managed lanes were implemented



Project Implementation

- Agreement for 40 years between Commonwealth of Virginia and NVTC
- Implemented jointly by VDOT and NVTC
- VDOT will:
 - Manage the design, construction, maintenance, operations of I-66 tolls, and potential future widening
- Northern Virginia Transportation Commission (NVTC) will:
 - Plan and select multimodal improvements, in accordance with applicable laws and terms of agreement;
 - Issue grants to and coordinate with agencies to ensure efficient delivery of selected projects; and
 - Monitor effectiveness of projects and report to VDOT.





- Project eligibility:
 - Increase person throughput in the I-66 corridor
 - Provide benefit to toll-payers
 - Ready to implement

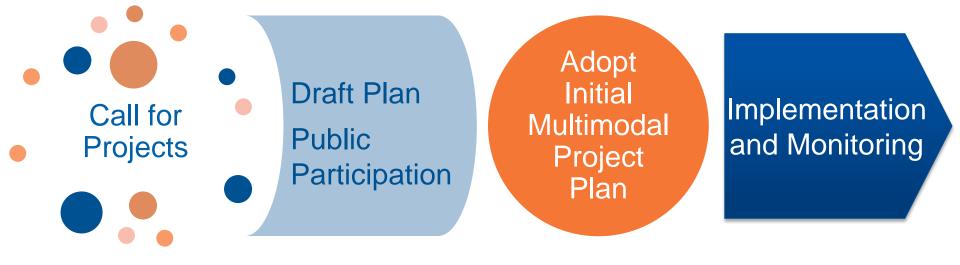
Project Selection

- Eligible project applicants:
 - All NVTC Members
 - Prince William County, Manassas and Manassas Park
 - Transit agencies operating in the I-66 Corridor





NVTC's Steps





How has VDOT responded to public comment received to date?

Investing in Multimodal Solutions

Occupancy Requirements

 Consideration of HOV 2+ as a project start-up condition in lieu of HOV 3+ as originally proposed

Eligible use of toll revenues

• Exploring alternative project delivery options that will allow toll revenues to be applied toward transit operations and capital instead of just capital

More in-depth traffic impact analysis

- Expanding the level of detail related to the traffic operations along I-66 as well as on parallel roadways
- A detailed traffic simulation model (animation) will be prepared for the length of I-66 inside the Beltway to illustrate the reliable traffic flow in peak times
- The evaluation of impacts to parallel roadways will be greatly expanded to include 55 intersection locations (almost twice the original plan)
- Omit dynamically priced toll lanes, including occupancy requirements in the reverse commute



Upcoming Project Milestones

Key Milestones	Begin Dates	
Public outreach	Ongoing	
Working Group/Technical Stakeholder Advisory Group meetings	Ongoing	
Toll and revenue study	Spring 2015	
Group multimodal solutions according to implementation schedule Spring 2015		
Toll system design	Summer 2015	
Framework agreement	Fall 2015	
Public Information Meetings	October 2015	
Environmental Review	October 2015	
Design Public Hearing	January 2016	
Group 1 multimodal solutions selection/implementation	Spring 2016	
Tolling construction Start	Summer 2016	
Begin Tolling	Summer 2017	
	25	



THANK YOU

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