

# TIGER Grant for Priority Bus Transit in the National Capital Region

TPB Technical Committee  
June 7, 2013

Project Implementation Update

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Department of Transportation Planning



# TIGER Grant for Priority Bus Transit in the National Capital Region

- The region's USDOT Transportation Investments Generating Economic Recovery (TIGER) Grant Agreement was signed on December 14, 2010.
  - \$58.8 million in capital funding (100% Federal) for priority bus transit improvements.
  - Five implementing organizations (project owners): City of Alexandria, DDOT, MDOT, PRTC, and WMATA

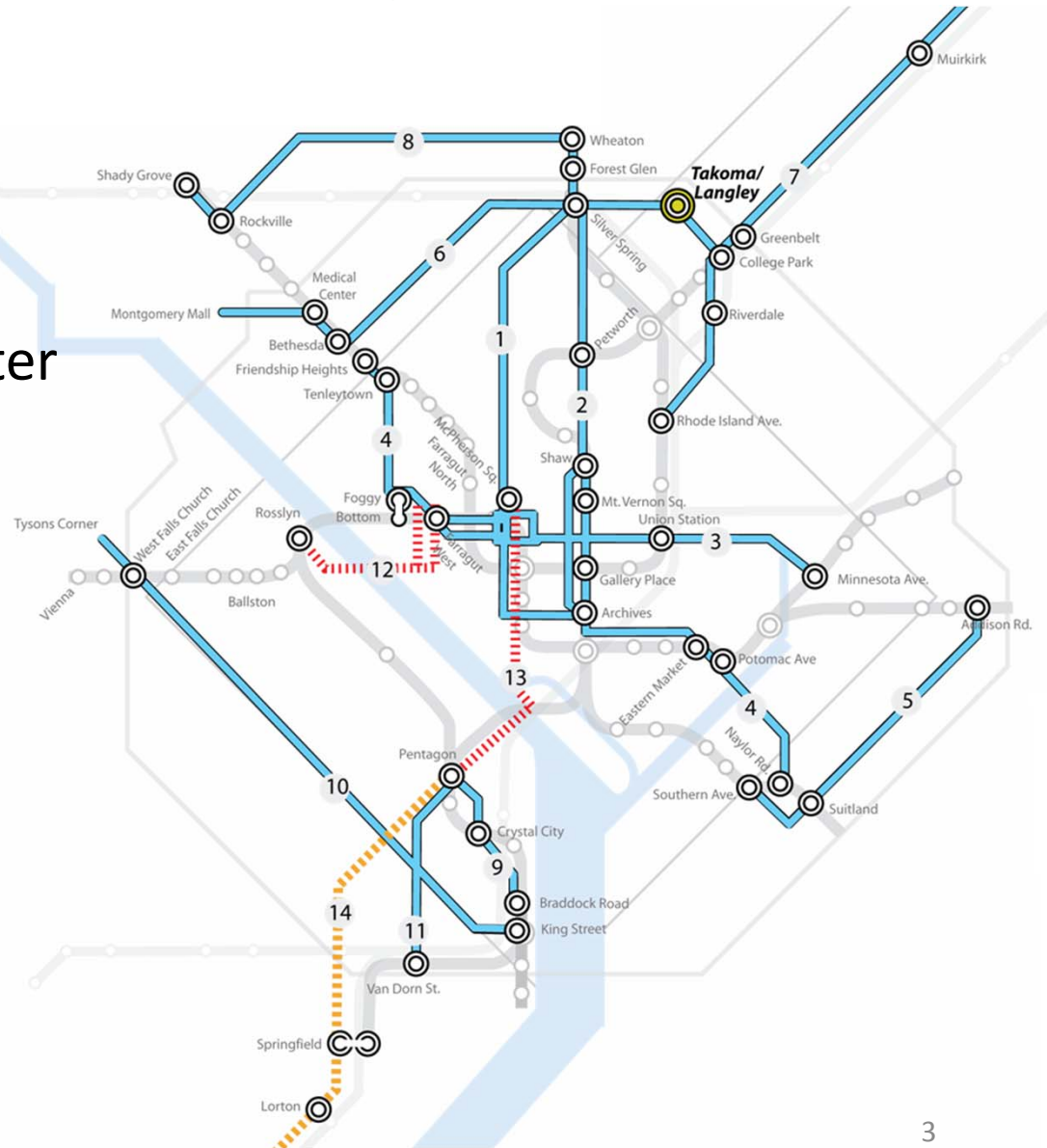


# TIGER Grant for Priority Bus Transit in the National Capital Region

## Grant projects include:

- PRTC Buses and ITS
- US-1 (VA) / Potomac Yard Transitway (*Alexandria*)
- Takoma/Langley Transit Center (*MDOT*)
- Bus Corridor Priority Treatments (*DDOT, WMATA, MDOT, Alexandria*)
- Franconia-Springfield and Pentagon station improvements (*WMATA*)

■ Projects to be complete by September 30, 2016.



# TIGER Grant for Priority Bus Transit in the National Capital Region

- Administered in accordance with Federal Transit Administration (FTA) grant requirements, as well as special requirements of the American Recovery and Reinvestment Act (ARRA) and the TIGER Grant Program.
- TPB coordinates Project Management
  - Monthly meetings with FTA, their Project Management Oversight Consultant (PMOC), and the five Project Owners.
  - Other project partners participate quarterly: Fairfax County, Prince George's County, Montgomery County, Virginia DOT.
- TPB also carrying out Performance Monitoring
  - Three sets of reports required: Before, One Year After, Two Years After.
  - Detailed data collection on ridership, travel time, safety.





Potomac and Rappahannock  
Transportation Commission

# Potomac and Rappahannock Transportation Commission (PRTC)

- 13 replacement buses delivered in 2012.
- Computer-Aided Dispatch and Automatic Vehicle Location (CAD/AVL) system in final design. *(est. completion in June 2014)*





# City of Alexandria

- US 1 (VA) Transitway *(Dec. 2013)*
  - Dedicated travel lanes for bus in median of US-1.
    - Construction began in 2012, and should be nearly complete by end of 2013.
  - New “Metroway” BRT service planned for implementation in Spring 2014.
- Corridor Enhancements on Van Dorn – Pentagon *(Mar. 2014)*
  - Queue jumps and bus stops.
  - Transit Signal Priority (TSP) procurement.

# Potomac Yard Transitway

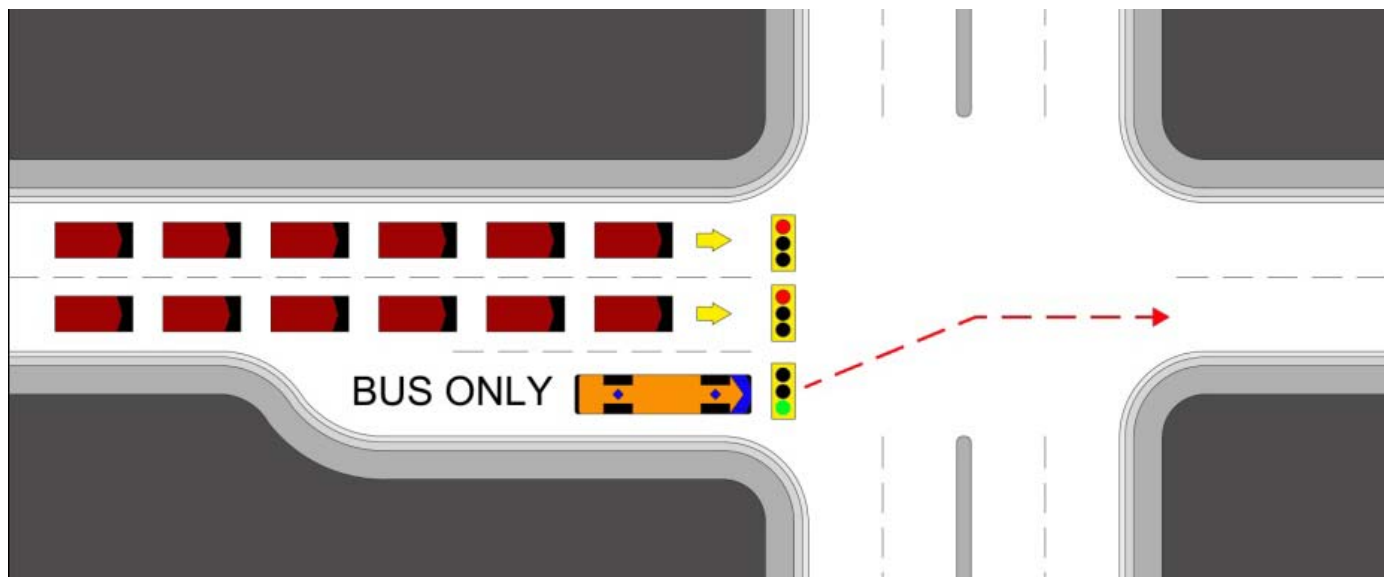


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# Maryland Department of Transportation (MDOT)

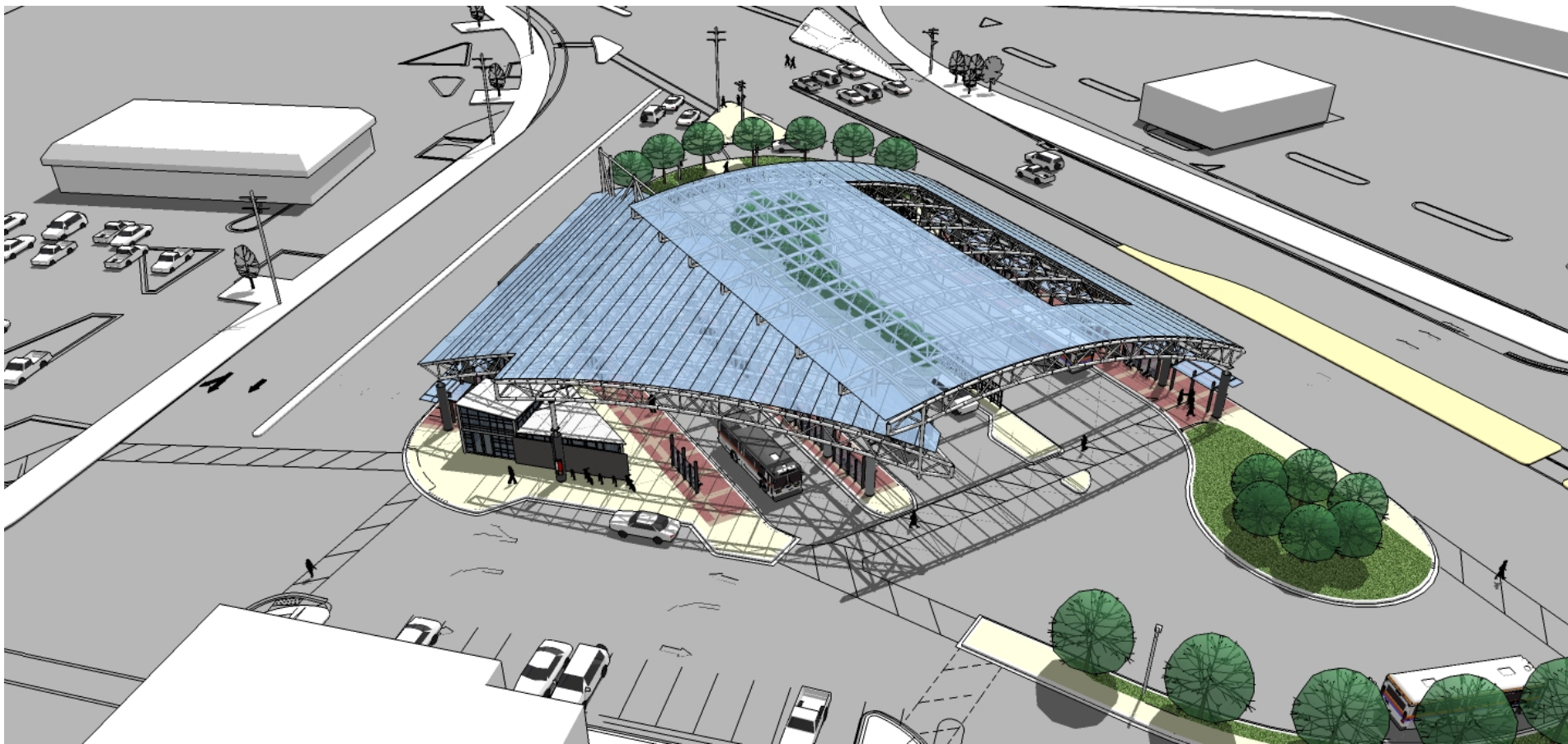
Bus Corridor Enhancements on University Boulevard, US 1 (MD), and Veirs Mill Road (Sep. 2016)

- Transit Signal Priority (TSP) and Real Time Passenger Information (RTPI) installation
- Bus stop improvements
- Queue jumps





# Takoma - Langley Transit Center *(Oct. 2015)* (New Hampshire and University Boulevard)





# District Department of Transportation (DDOT)

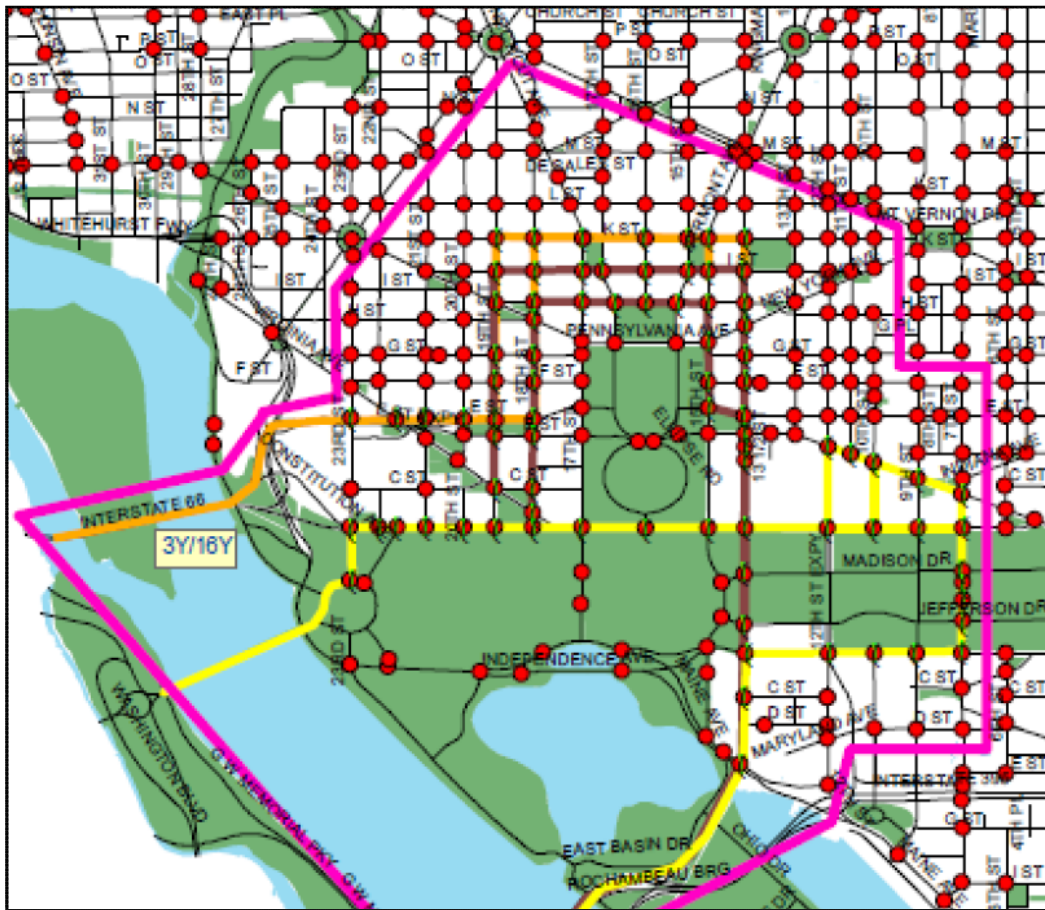
## Bus Corridor Enhancements *(Oct. 2015)*

- 16th Street
  - Transit Signal Priority (TSP) and Real Time Passenger Information (RTPI) and bus stop improvements
- H Street/Benning Road
  - RTPI and Security Cameras
- Wisconsin Avenue
  - TSP and RTPI
- Georgia Avenue
  - Bus-Only lane (near Howard University)
  - RTPI and bus stop improvements





# Signal Optimization & Prioritization TR Bridge and 14th Street Bridge to K Street



- 121 signals to be optimized
- 71 signals to be both optimized and have TSP installed
- Uninterruptable Power Supply (UPS) installation at 30 sites

*(Oct. 2015)*



## Washington Metropolitan Area Transit Authority (WMATA)

- Bus Station Improvements at Pentagon and Franconia-Springfield Stations (*Sep. 2016*)
  - Working with DoD on pedestrian access treatments and proposed Hayes Street lot (on Army-Navy Drive).
  - Coordinating with Fairfax County’s plans for an extension of Frontier Drive at Franconia-Springfield.
- VA 7 (Leesburg Pike) Corridor Enhancements (*Oct. 2015*)
  - Transit Signal Priority (TSP) installation.
  - Real Time Passenger Information (RTPI) signage.
- Addison Road bus stop improvements (*Oct. 2015*)

# TIGER – Transit Signal Priority (TSP) on Bus Corridors



## What is TSP?

Modification of traffic signal timing to benefit transit vehicles operating along a roadway. TSP green phase for buses can be: extended, early/advanced, or inserted in cycle.

## Proposed TSP Locations (77 total)

- 16<sup>th</sup> Street (6)
- Georgia Avenue (4)
- Wisconsin Avenue (5)
- University Blvd (20)
- US 1 - MD (7)
- Van Dorn / Beauregard (8)
- VA-7 / Leesburg Pike (27)

- Procurement led by WMATA, with input from regional agencies.
- WMATA will procure onboard equipment for its buses.
- Road agencies will procure wayside equipment compatible with their traffic signal systems.

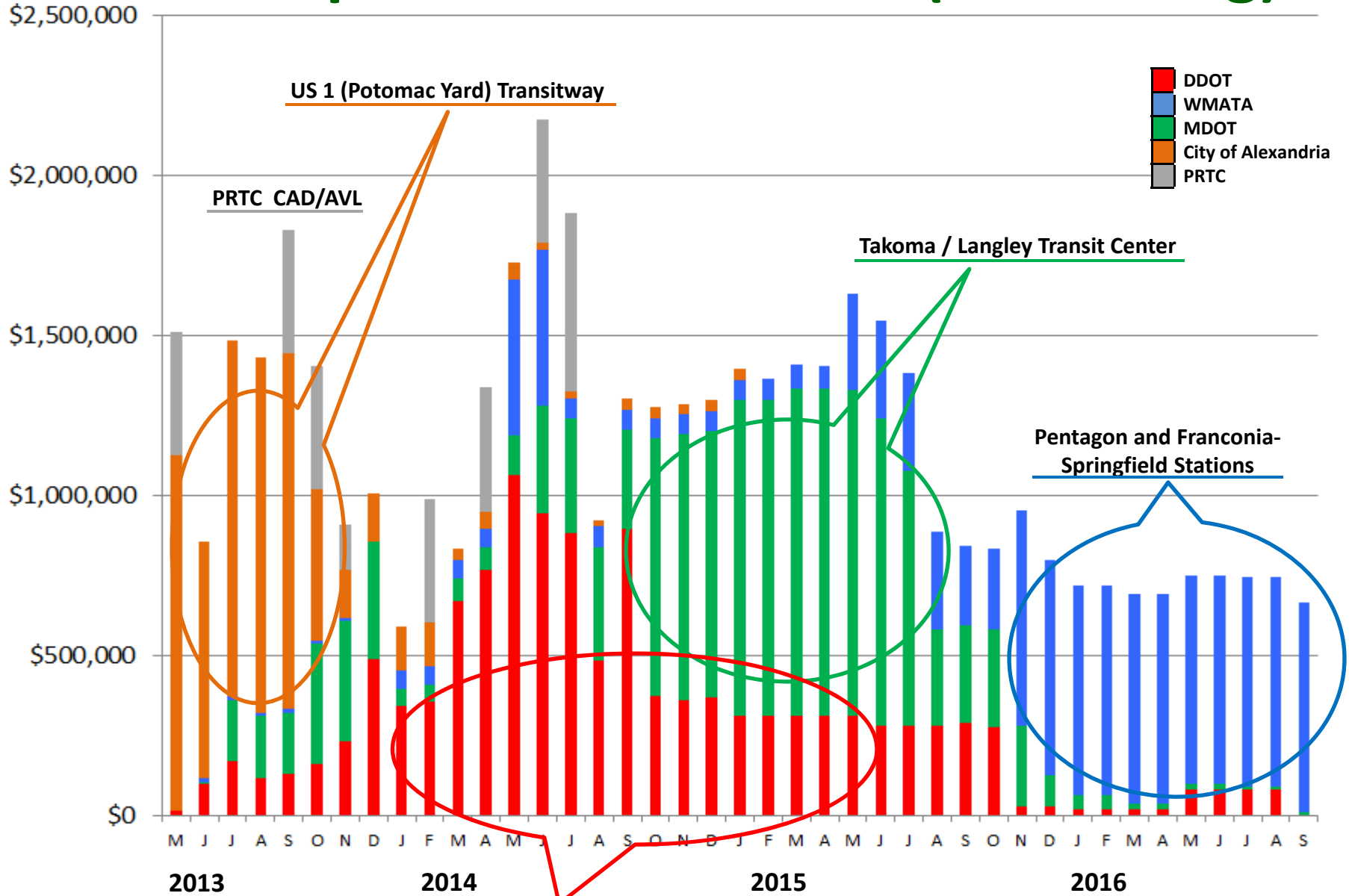
# TIGER – Real Time Passenger Information (RTPI)



## Proposed Locations (225 signs total)

- 16<sup>th</sup> Street (30)
  - Georgia Avenue (25)
  - H St / Benning Rd (28)
  - Wisconsin Avenue (40)
  - Addison Road (14)
  - University Blvd (19)
  - Veirs Mill Road (25)
  - VA-7 / Leesburg Pike (31)
  - Pentagon and Franconia-Springfield Stations (13)
- WMATA awarded contract in May 2013.
  - Coordinating with road agencies, utility companies, and bus shelter contractors to install and electrify the bus shelters at proposed locations.

# TIGER Expenditure Schedule (Remaining)



May 31, 2013

DC Bus Corridor TSP and Real-Time Info

# TIGER Grant for Priority Bus Transit in the National Capital Region

## Project Implementation Concerns:

1. Pentagon Transit Center improvements
  - Dependent upon DoD's ability to develop a design for the Hayes Street Lot that is feasible within the remaining period of the grant and that is acceptable to FTA.
2. Transit Signal Priority systems
  - Successful compatibility testing across multiple wayside traffic signal systems is technologically challenging, and may experience delays.
3. Interfaces with other Projects
  - Other ongoing transportation projects, such as the Purple Line and the Frontier Drive extension into Franconia-Springfield, may impact the proposed projects and/or schedules of the TIGER Grant.
4. Office of Management and Budget (OMB) ARRA Waiver Request
  - OMB has directed Federal agencies to accelerate the spending of remaining ARRA funds, and required waiver requests to continue spending past September 30, 2013.
  - TPB's first waiver request (submitted July 2012) has been approved for \$28 million. A second waiver request for \$18 million (estimated remaining funds unspent as of September 30) has been submitted.



# TIGER Grant for Priority Bus Transit in the National Capital Region

Questions?

