PUBLIC KICKOFF MEETING

March 31, 2015
Agenda

1. Welcome
2. Background
3. Current Study
4. Public Participation
5. Closing Remarks
Study Area

Primary Study Area
- 16th Street NW from H Street to Arkansas Avenue

Secondary Study Area
- Bounded by 14th Street, 18th Street, Taylor Street and H Street
Study Partner

WMATA - Metrobus
One of the busiest Metrobus corridors

- 20,000+ riders on average weekday
- Most trips during peak hours at or above seating capacity
Issues

- Pass-bys
- Bus bunching
- Traffic congestion
- Planned and unplanned events and traffic interruptions
- On-time performance

<table>
<thead>
<tr>
<th>Route</th>
<th>On-Time</th>
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<tbody>
<tr>
<td>S1</td>
<td>55%</td>
</tr>
<tr>
<td>S2/S4</td>
<td>74%</td>
</tr>
<tr>
<td>S9</td>
<td>83%</td>
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<tr>
<td>S Line</td>
<td>74%</td>
</tr>
<tr>
<td>Average</td>
<td>74%</td>
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District Department of Transportation
moveDC Plan

- Transit Priority Corridor

2-Year Action Plan

- High Capacity Transit Improvements
Prior Studies

1. WMATA 16th Street Metrobus Line Study (2009)

2. DDOT 16th Street NW Safety and Mobility Study (2013)
2009 Metrobus 16th Street Line Study

Implemented Recommendations:

1. MetroExtra Route S9
2. Additional service
   • Improved Saturday service
   • More “short” trips between Harvard Street and McPherson Square
   • 90-second headway during peak hour
3. More articulated buses
4. Dedicated service managers and expanded hours of the Service Management Center

<table>
<thead>
<tr>
<th>S Line Avg. Daily Ridership</th>
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<tbody>
<tr>
<td>2008</td>
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<tr>
<td>2014</td>
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<td>Increase</td>
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2009 Metrobus 16th Street Line Study

Recommendations:

• Peak-hour, peak direction transit lane between Spring Road and Irving Street

• Reversible center lane used for peak direction traffic
2013 Safety and Mobility Study

Internal feasibility study

Recommended peak-hour, peak-direction transit lane between Arkansas Avenue and H Street

Benefits
• 30% travel speed increase
• Accommodate 10% increase in passenger demand
Other Improvements

Quick Signal Optimization (Fall 2014)
• Ave. AM southbound travel time reduced 18%
• Ave. PM northbound travel time reduced 36%

Transit Signal Priority (2016)
• 19 intersections

16th & U Street Queue Jump (2016)
CURRENT STUDY
Goals

• Improve travel for persons using public transit
• Develop alternatives based on public and stakeholder input
• Evaluate alternatives in terms of their benefits to transit users, possible impacts on other users of the corridor, and safety
Objectives

• Improve transit service reliability and travel times by identifying and addressing sources of problems

• Prioritize transit while maintaining operations for those traveling by other modes

• Improve rider comfort and safety

• Accommodate current unmet passenger demand for public transit service

• Develop an implementation plan that includes costs estimates
Building on Prior Actions

• Public Outreach

• Segment by Segment Analysis

• Concept Design
Diagnose the Problem

NJ TRANSIT Route 10 – Kennedy Boulevard

- Stopped at Red Lights: 27%
- Stopped at Bus Stops: 18%
- Merging at bus stops: 20%
- Bus in Motion: 34%

MTA NYCT M15 – First Avenue/Second Avenue

- Stopped at Red Lights: 21%
- Stopped at Bus Stops: 22%
- Bus in Motion: 54%
Stop Dwell Time?

- Off-board fare collection
- All-door boarding

3 minutes

1.5 minutes

<1 minute
Signal Delay?

- Signal priority
- Queue jump opportunities
Slow Travel?

- Strategic use of bus lanes
- Queue jump opportunities

SOURCE: Kittelson & Associates, Inc.
Enforcement?

- Automated Enforcement
Other Improvements?

- Frequency
- Articulated Buses
- Number & Location of Bus Stops
Outcomes We Are Seeking

- Preferred set of improvements
- Concept design
- Build on measures implemented to date
PUBLIC PARTICIPATION
Public Input

- Public Meetings
- Citizens Advisory Group (CAG)
- Pop-ups
Timeline

Public Meeting – Tonight
CAG Meeting #1 – May 2015
Pop-ups – Early Fall 2015
Public Meeting – Late Fall 2015
Study Completion – January 2016
Tonight’s Purpose

Project Overview
• Planning process
• Study area
• moveDC recommendations

Hear your input on issues
• What is important to you?
• Where are the problems?
• Where do you travel using 16th Street NW?
Stay Connected

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Project Website
bit.ly/16thStreetBus