

16TH STREET NW **TRANSIT PRIORITY**



Planning Study

PUBLIC KICKOFF MEETING

March 31, 2015



District Department of Transportation

Agenda

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



BACKGROUND

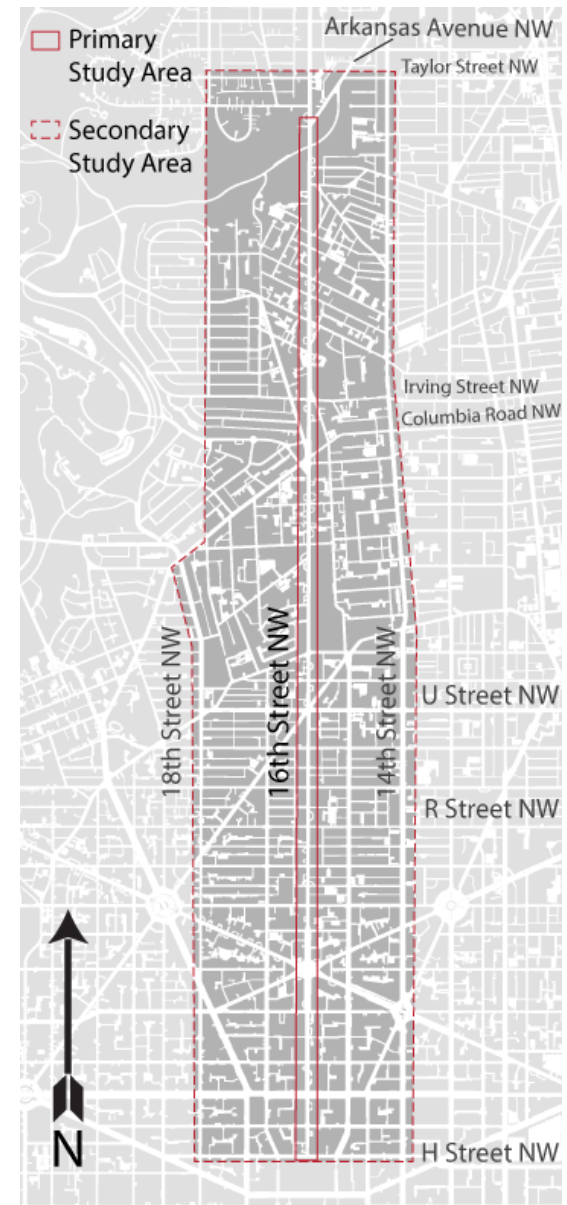
Study Area

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



Issues

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

Route	On-Time
S1	55%
S2/S4	74%
S9	83%
S Line Average	74%

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

	S Line Avg. Daily Ridership
2008	16,000
2014	20,600
Increase	28%

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



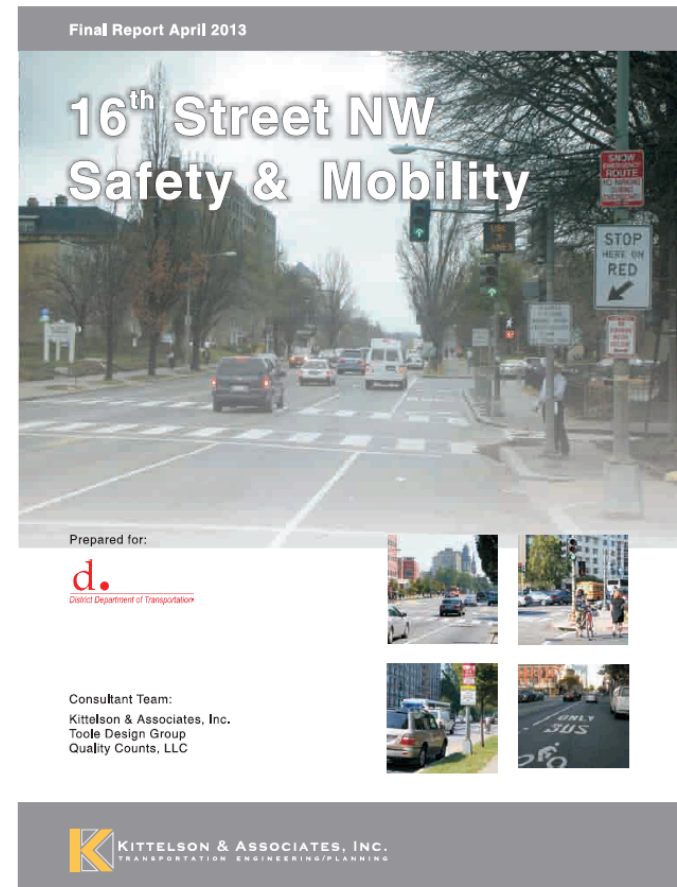
2013 Safety and Mobility Study

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



District Department of Transportation

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

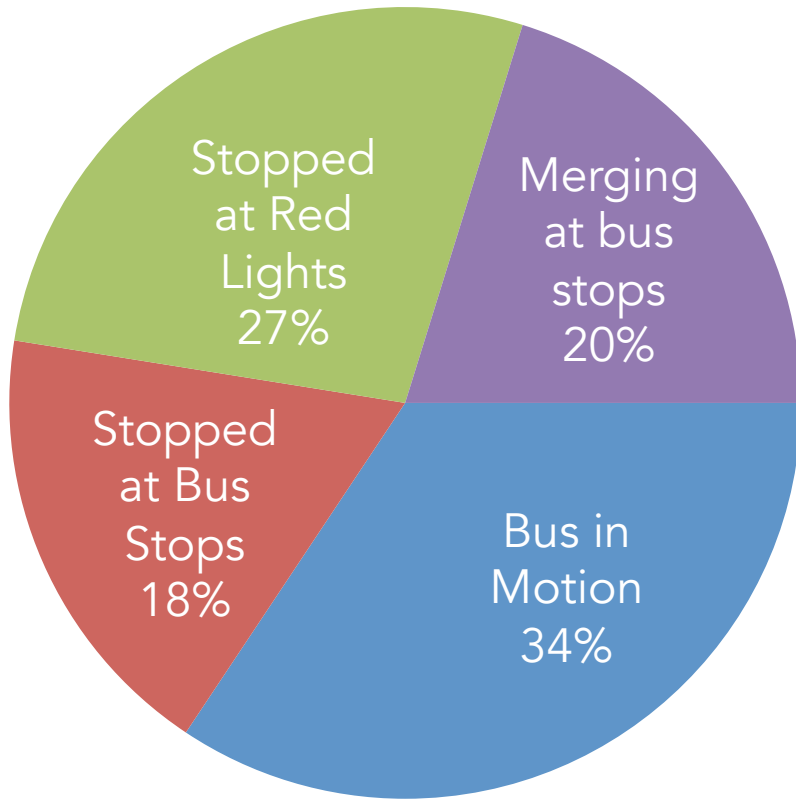
- Improve transit service reliability and travel times by identifying and addressing sources of problems
- Prioritize transit while maintaining operations for those traveling by other modes
- Improve rider comfort and safety
- Accommodate current unmet passenger demand for public transit service
- Develop an implementation plan that includes costs estimates

Building on Prior Actions

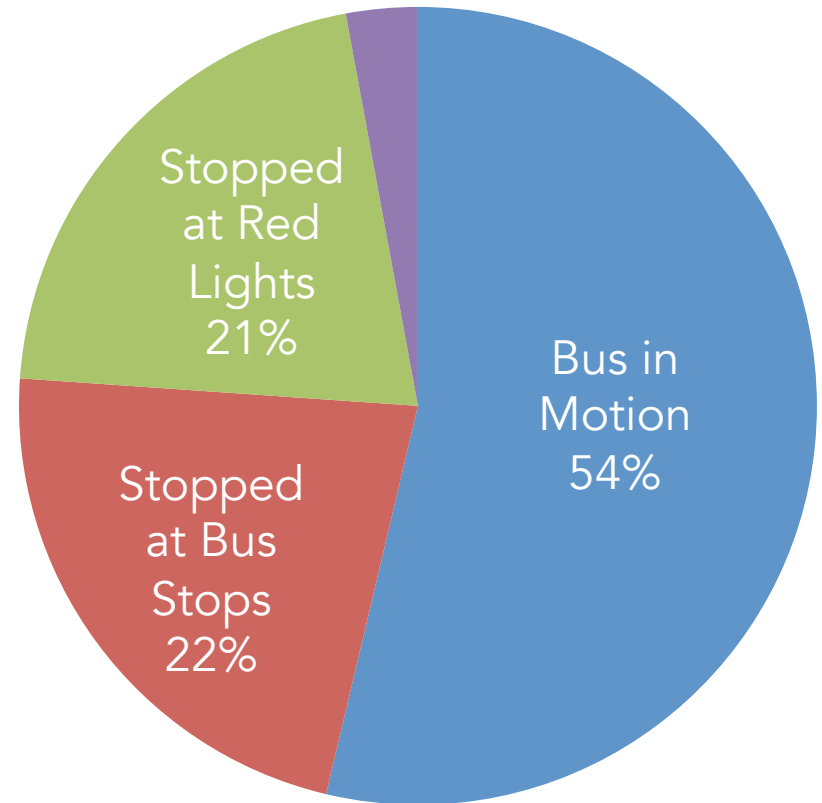
- Public Outreach
- Segment by Segment Analysis
- Concept Design



Diagnose the Problem



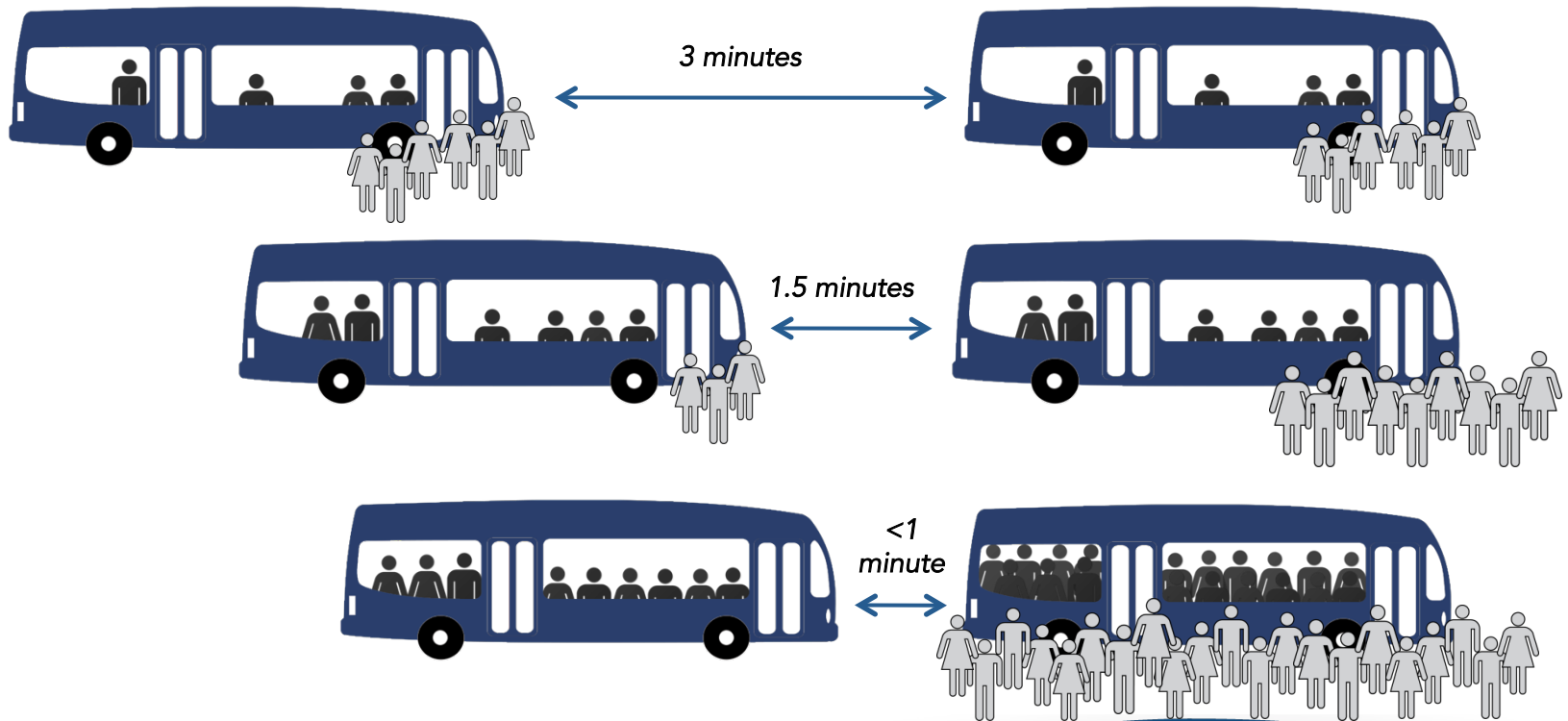
NJ TRANSIT Route 10 –
Kennedy Boulevard



MTA NYCT M15 –
First Avenue/Second Avenue

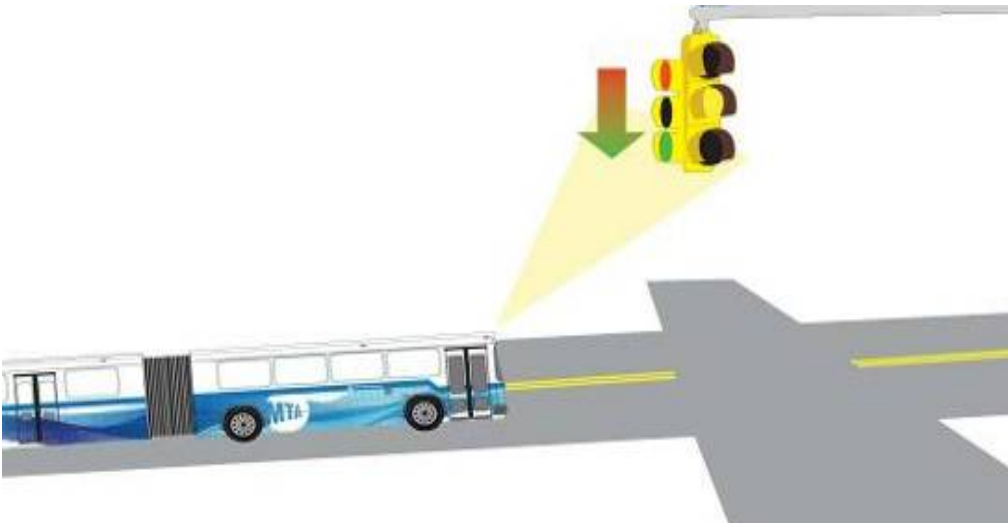
Stop Dwell Time?

- Off-board fare collection
- All-door boarding



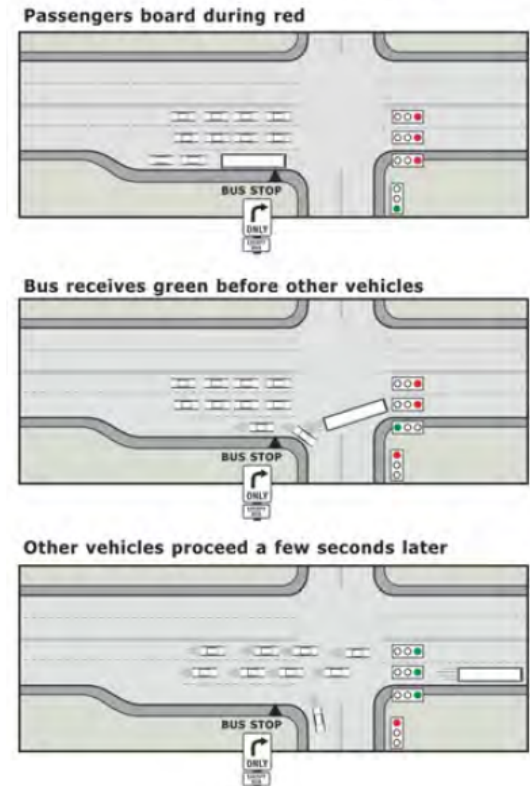
Signal Delay?

- 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



District Department of Transportation

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

