



## Citizens Advisory Group Meeting No. 1

May 28, 2015



## Agenda

- 1. Welcome
- 2. Overview
- 3. Public Kick-off Meeting
- 4. Transit Data Analysis
- 5. Physical Conditions Assessment
- 6. Next Steps











#### **Primary Study Area**

 16<sup>th</sup> Street NW from H Street to Arkansas Avenue

#### Secondary Study Area

 Bounded by 14<sup>th</sup> Street, 18<sup>th</sup> Street, Taylor Street and H Street







# Lane Configurations

#### **Reversible lane**









- 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





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





- 1. Improve transit service reliability and travel times
  - Reduction in end-to-end travel/segment-by-segment travel time

- Improvement in on-time performance
- Reduction in dwell time
- Reduction in dwell time as a percentage of run time
- 2. Optimize operations
  - Multimodal level of service, travel time, queuing, person throughput
- 3. Improve rider comfort and safety
  - Load factor
  - Number of bus stops at uncontrolled intersections
  - Pedestrian crossing improvements

#### **Metrics**

- 4. Accommodate unmet passenger demand
  - Service capacity
- 5. Develop a feasible solution
  - Cost
  - Implementation time
  - Consistency with bus operating parameters (e.g., bus widths, turning radii, dynamic envelope, and others)
  - Management and enforcement requirements



#### **Outcomes We Are Seeking**

- Preferred set of improvements
- Concept design
- A DE ANDER AND LEGEND QUELE JUMP STONE AUTO DIRECTION OF TRAVES EXISTING SIGNAL SECTION A-4 ❹ Figure B-

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North Capitol Street, New York Ave, to P Stree

DRIVEWAY OLOSED BIGHT IN/BIGHT OUT DRIVEWAY OR INTERSEC

 Build on measures implemented to date

#### **PUBLIC KICKOFF MEETING**



#### What Are Problems?

16TH STREET NW TRANSIT PRIORITY	Planning Study
Where are the Prot Place a color-coordinated flag on map where you've seen the	the study area se issues:
Lack of Parking Enforcement/ Double Parking	
Traffic Congestion	
Overcrowding on the Bus	
Overcrowding at the Bus Stop	
Pedestrian Safety Accessing the Bus Stop	
Bus Conflicts with Bicycles	
Bus Bunching (the same bus route back-to-back)	-
Bus Passes by the Stop	
move dc	d.
8	

#### Most Noted Issues:

- Bus Bunching (31 flags)
- Overcrowding on the Bus (29 flags)
- Bus Passes by the Stop (23 flags)
- Traffic Congestion (17 flags)



#### **Where Are Problems?**

Most Noted Intersections:

- U Street NW (22 flags)
- Euclid Street NW (19 flags)
- Park Road NW (15 flags)
- Irving Street NW (10 flags)



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#### **Where Are Problems**

	Issues Encountered Along 16th Street NW								
Cross Streets	Lack of Parking Enforcement	Traffic Congestion	Over- crowding on Bus	Over- crowding at Bus Stop	Pedestrian Safety Accessing Stop	Bus Conflicts with Bicycles	Bus Bunching	Bus Passes Stop	Total
U St		4	6	3		2	2	5	22
Euclid St		1	5	2		1	5	5	19
Irving St		1	2		1	2	3	1	10
Park Rd	3	1	6	1			3	1	15
Total in Corridor	7	17	29	12	5	8	31	23	132



#### What Is Important?



- Bus Arriving on Time (46 dots)
- Travel Time on the Bus (37 dots)
- Enough Room on the Bus to Sit or Stand Comfortably (33 dots)
- Room to Board the First Arriving Bus (22 dots)



## **Key Takeaways**

#### Strong Support

- Additional Service
- Enforcement
- Signal Optimization and Priority
- Dedicated Bus Lanes

#### **Limited Concern**

• On-street Parking





#### **TRANSIT ANALYSIS**



#### **Time-Distance: AM Peak SB**



#### **Time-Distance: PM Peak NB**





## **Travel Speed\* – PM Peak NB**





#### **Average Travel Speed - SB**

S1/S2/S4 S9 **Miles Per Hour** 12 10.7 10 9.9 9.9 9.3 9.0 8.7 8.7 8 8.2 7.7 6 4 2 0 EARLY AM AM PEAK MIDDAY **PM PEAK** EARLY PM d. DC

#### **Average Travel Speed - NB**



#### **Boardings/Alightings – SB AM Peak**



#### **Boardings/Alightings – NB PM Peak**



#### **On-Board Data Collection**

Average S1, S2, S4 Southbound AM Peak

Average S9 Southbound AM Peak



	Average
Bus Stop Dwell Time	0:05:21
Signal or Stop Time	0:05:56
Other Delays	0:00:21
Running Time	0:10:07
Total Trip Time	0:22:22

	Average
Bus Stop Dwell Time	0:03:22
Signal or Stop Time	0:08:16
Other Delays	0:00:43
Running Time	0:08:32
Total Trip Time	0:20:52



#### **On-Board Data Collection**

#### AVERAGE OBSERVED LOADING TIME SOUTHBOUND - AM PEAK

- 0 5 seconds
- 6 10 seconds
- 11 15 seconds
- 16 20 seconds
  21 25 seconds

26+ seconds



16th Street NW Arkansas Avenue NW

Taylor Street NW



#### AVERAGE OBSERVED LOADING TIME NORTHBOUND - PM PEAK





## **PHYSICAL CONDITIONS**



## **Physical Conditions**

- Roadway and sidewalks in good condition overall
- Parking restrictions signage not uniform and conflicting, damaged and obstructed signs





## **Physical Conditions**

- Bus stop signs not at optimal or compliant location
- Bus Stop No Parking Zones not in compliance with zone clearance distances and/or correct signage





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## **Physical Conditions**

 For stops where intended ADA landing area is at the shelter, bus shelters did not meet mandatory ADA '8 foot available sidewalk width' for boarding/ unloading



 Trash bins, vendor boxes, and tree locations create accessibility obstructions





#### Timeline

- 1. CAG Meeting No. 2 July 2015
- 2. Alternatives Development Summer 2015
- 3. CAG Meeting No. 3 Early Fall 2015
- 4. Pop-ups Early Fall 2015
- 5. Public Meeting Late Fall 2015
- 6. Study Completion January 2016



#### **Stay Connected**

Megan Kanagy, Project Manager <u>megan.kanagy@dc.gov</u>

> Project Website bit.ly/16thStreetBus



