

Washington Metropolitan Area Transit Authority

Complete Streets & Transit An Operator's Perspective

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Metro Moves People – Lots of People





Metro Service Area: 1,500 square miles 3.9 million population

Rail:

-86 stations -106 miles of track -Avg weekday 750,000 trips Bus: -1,500 buses -Avg weekday 450,000 trips Paratransit ->8,000 trips/day

Metro[°]

The Transit Interest in Complete Streets

• Access to Transit

Bus & Surface Running Transit
Rail

• Transit Operation

- Safety
- o Travel time
- o Reliability

Access To Transit: Bus & Surface Running Transit

 Safe Crossings, Stop locations and Amenities



• Accessible Paths to Stops



Bus Stop Design Guidelines: Elements of a Quality Stop





Metrorail AM Peak Arrivals – 250,000





Access To Transit: Rail

Improving Access to Rail – Survey Findings

- 52% walk Top 3 ways to improve their walk trip:
 - 1. Improve crossing conditions and intersections
 - 2. Decrease traffic volume and speed
 - 3. Improve sidewalks
- 16% **bike** Top 3 ways to improve their bike trip:
 - 1. More on-road bike facilities leading to/from stations;
 - 2. More connections to off-road facilities such as trains in the vicinity of stations
 - 3. Improve intersections & crossings on routes leading to stations
- 16% drive Greatest barriers for drivers to bike or walk:
 - 1. Distance to station from home;
 - 2. Uncomfortable crossing distances at intersections; and
 - 3. High traffic volume and speed.
- 25% of drivers said they drive because they do not know a safe walk or bike route to stations.



MEDICAL CENTER BEFORE AND AFTER, REPLACING OLD RACKS



VIENNA STATION BEFORE AND AFTER, NEW ACCESS POINT



FRANCONIA - SPRINGFIELD BEFORE AND AFTER, NEW SIDEWALK TO IMPROVE SAFETY



Transit Operations Sharing the Road with Transit

Safety

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- Safely accommodating transit & other modes
 - Bikes
 - On the same streets
 - Separated facilities vs. shared facilities
 - On parallel streets
 - Pedestrians
 - Safe intersection design
 - Safe crossing design
 - Autos & other vehicles

Transit Operations Sharing the Road with Transit

Travel time & Reliability

- Travel lanes and sufficient 'room to move'
- Priority treatments for transit vehicles
 - Dedicated Lanes
 - Transit Signal Priority or Pre-emption
- Stop spacing

metro

 Maintaining bus access to stops



Priority Corridor Networks & Hot Spots Analysis

23 Top Performing Corridors



Correlated high WMATA bus frequency with slow average bus speeds





Parting Thoughts

Collaboration

Involve transit operators early & often

Design

• Seek solutions that help optimize transit operations, making transit a desirable transportation option

Monitor

•Use performance measures to monitor transportation networks, and adjust if needed