

Washington Metropolitan Area Transit Authority

SmartView: Bus Stop and Walk Path Accessibility Feature on the WMATA Trip Planner

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Background

Metrobus - 100% Accessible

- ✓ Low-Floor Talking Buses
- ✓ Dual Wheelchair Stations
- ✓ ADA Trained Operators

Environment - 50% accessible

- ✓ All Metro-owned stops accessible
- 12,000 stops are not owned by Metro—only 50% are accessible







Challenges

- While our region works to make accessibility improvements to bus stops, how can customers with disabilities plan their travel around these barriers?
- How many customers are forced to use paratransit because of them?
- What if the bus stop is accessible but the path of travel to it is not?



Solutions

Bus Stop and Accessible Path Improvements

- Define the accessibility of a bus stop as being inclusive of an accessible path thereto
- Promote bus stop improvement by jurisdictional owners and share resources, grants, and other funding to accomplish
- Chart progress on improvements via a Board-sponsored metric

Bus Stop and Accessible Path Information

- Inform customers on bus stop accessibility and amenities through Metro's Trip Planner
- Provide needed pathway accessibility information between bus stop and origin/destination



SmartView – Customer Interface

Trip Planner integrates bus stop accessibility and amenity information with a street view.

To plan a bus trip, customers enter:

- Starting Location
- Destination
- Preferred mode
- Time and date
- How far they can walk





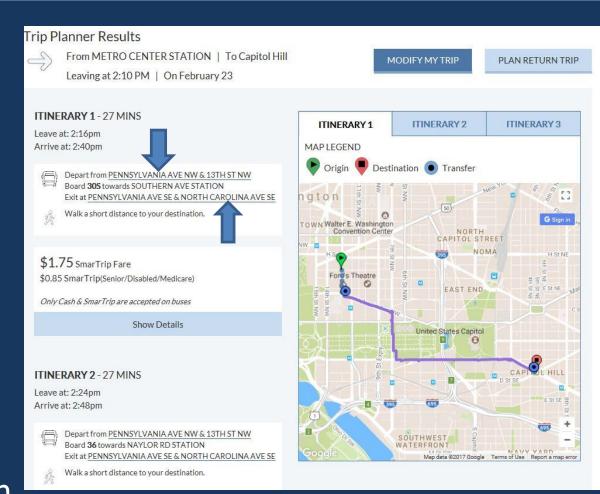
Trip Planner Customer Itinerary

Two itineraries result:

<u>Itinerary 1</u> From Metro Center

- Take the 30S Bus (27 minute trip)
- Walk less than 0.1 mile to Capitol Hill

Click on the underlined stop locations for accessibility information





Accessibility Information

Clicking on the bus stop gives:

- Photos (forward, left, right)
- Amenities
- Accessibility
- Links to:
 - Google Street View
 - Bing "Bird's Eye" MapView
 - Report a bus stop problem



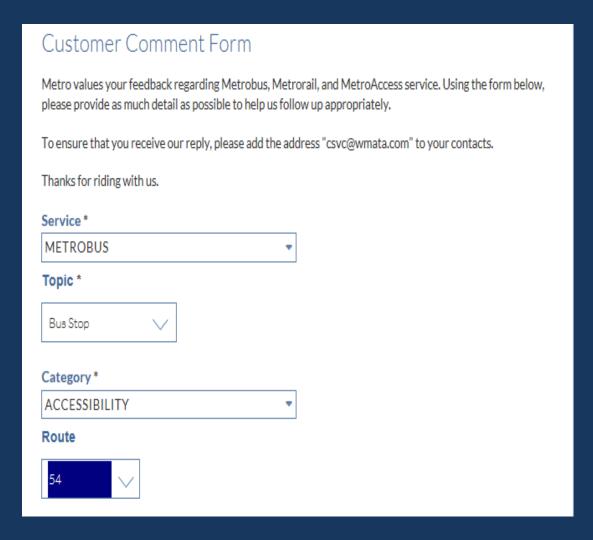








Reporting Bus Stop Problems



The prior SmartView screen provides a link to leave a detailed customer comment.

Bus stop users help us keep our database current and accurate by providing valuable information on bus stop problems or erroneous data about them on our site.



Bird's Eye Map View



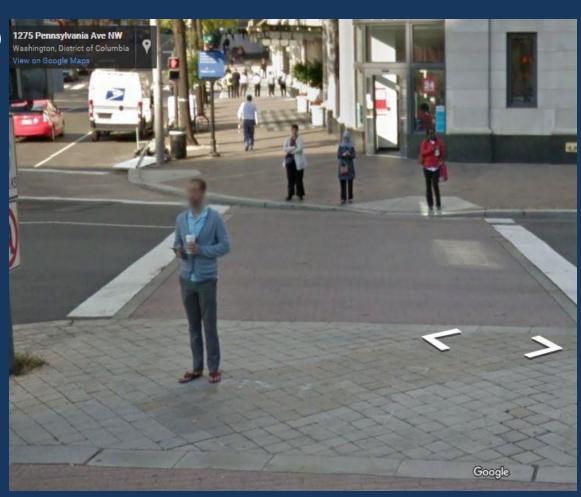


Street View

Can view travel path to stop, destination, and identify:

- Sidewalk
- Curb cuts
- Crosswalk
- Obstructions
- Slope

Available for boarding and deboarding stops





Results

Increased Metrobus Ridership by Paratransit and Half Fare Customers

Fiscal Year (July 1-June 30)	Paratransit Customer Metrobus Trips	Half Fare Customer Metrobus Trips
2015	2,147,000	12,995,000
2016	2,564,000	13,206,000
	+417,000 trips (19.4%)	+211,000 trips (1.6%)

^{*}Trip Planner Smart View launched in early 2015



You've Arrived!

Supports "mainstreaming" and greater independence

Customers will be more confident using bus service and choosing it more often

Every bus trip taken by a paratransit customer saves Metro a paratransit trip





Project Time Line and Cost

SmartView was developed inhouse by a retained contractor who provided application development.

Because the Trip Planner and the bus stop database already existed, costs were limited to application development.

The cost was \$50,000 and the project took four (4) months to complete.





Project Resources and Contacts

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