



ITS PCB T3 Webinar October 21, 2008



Montgomery County, Maryland Advanced Transportation Management System

Automated Parking Information System Operational Test

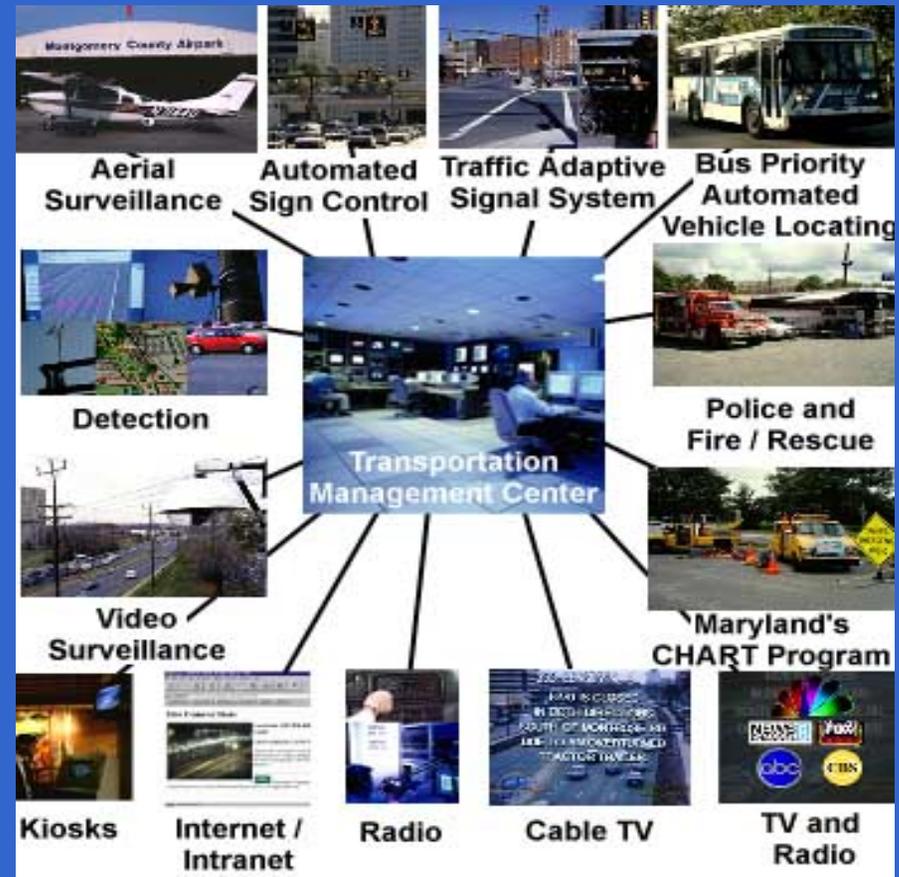
By Michael Kinney

ATMS Engineer Montgomery County, Maryland DOT



Montgomery County Maryland ATMS

- Managing transportation systems for over 25 years
- Integrated transit and traffic operations
- Leader in traveler information dissemination





Traveler Information

- Existing
 - Traveler's advisory radio
 - Cable TV channel
 - Real-time information on ATMS website
 - Dynamic transit schedule signs
- Operational Test
 - Dynamic parking information



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Partners

- Montgomery County Department of Transportation
- Montgomery County RIDE-ON
- Federal Transit Administration
- Siemens ITS
- RGA
- Street Smarts
- SAIC



Operational Test Concept



- Monitor parking availability at Metro Station
- Advise commuters at key decision points
- Reduce congestion
- Increase customer satisfaction



Test Site

- Glenmont Metro Parking Facility
 - Terminus for Metro Red Line
 - 1,781 Spaces
 - Filled between 7:30 AM and 8:00 AM
 - Peak Hour 6:45 AM to 7:45 AM





Alternatives

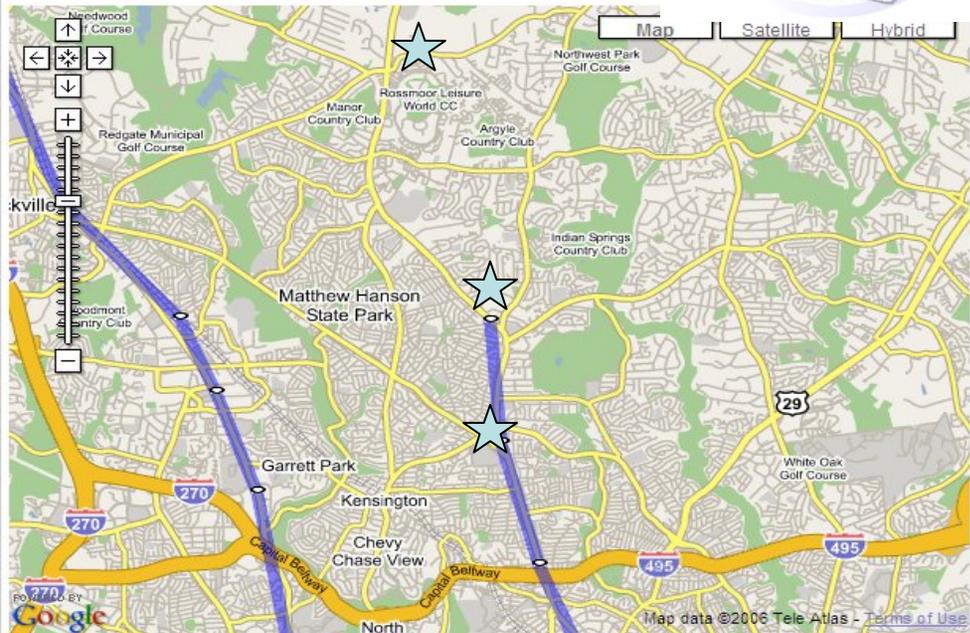
- From the north
 - >40% of garage traffic
 - Norbeck Park & Ride
 - RIDE-ON Bus
- From the east
 - 34% of garage traffic
 - Wheaton Metro

Metrorail street map

Use this map to zoom in and see Metrorail stations in relation to points of interest. Tip:

- zoom in and out using the plus and minus buttons
- scroll the map by pushing the arrow buttons or click and drag inside the map
- see station details by clicking on the round station icons

Locate Station:

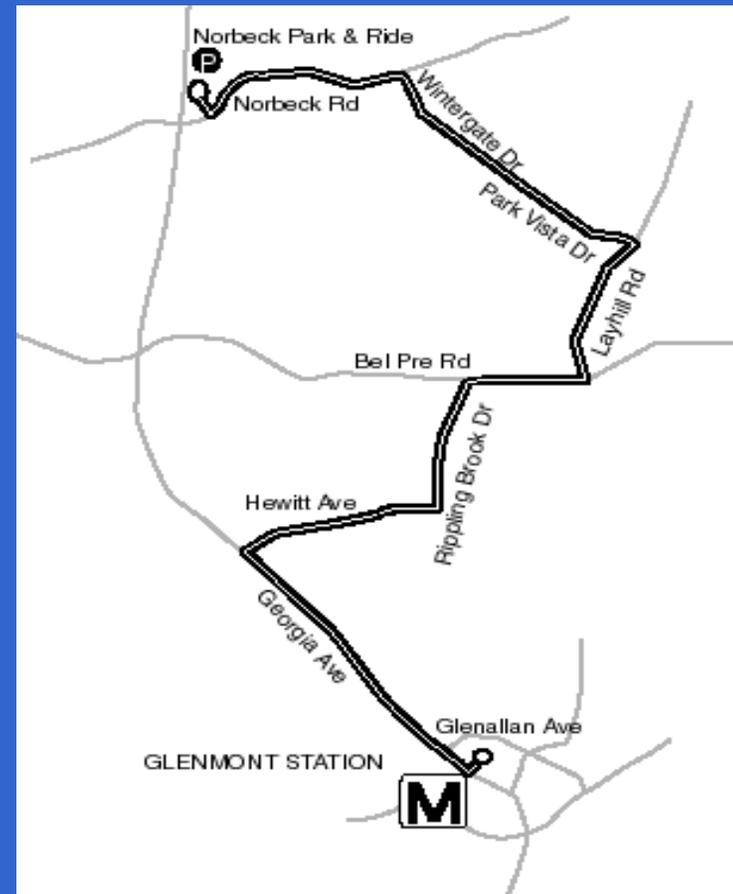


Note: For speed in loading the map, tracks between stations are shown as straight lines, not their exact course.



Norbeck P&R

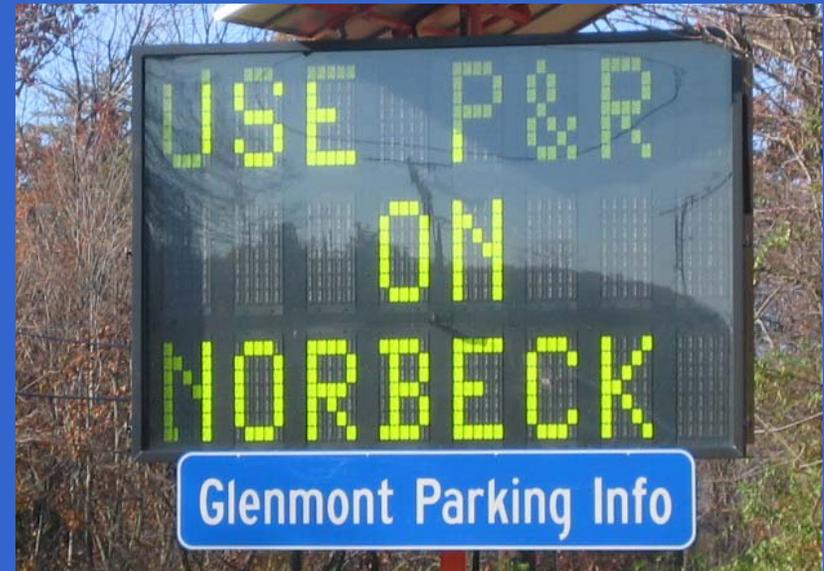
- RIDE-ON Route 51
- Metrobus Route Y5
- 16 minutes P&R to Glenmont
- Peak Hour Service
 - 5:49 AM to 10:03 AM
 - 3:57 PM to 7:51 PM





Messages

- Static
 - Glenmont Parking Information
- Dynamic - North
 - Garage Full
 - Use P&R Lot
- Dynamic – East
 - Garage Full
 - Use Wheaton





Challenges

- Detection
 - Lack of agreement w/WMATA to share existing detector data
 - Could not place detectors on site
- Solution – Video detectors aimed at entrance





Is the Garage Full?



- Reversible lane at 3 of 4 entrances
- 280 Reserved spaces
- 50 ADA spaces



Where Are We Now?

- System in operation for over two years
- Manual “spot” observations made to assure system reliability
- Field surveys before and after deployment are complete
- Final report drafted, haven’t finished ADA version of report
- Initial findings have not shown significant modification driver behavior change





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