Montgomery County, Maryland
Advanced Transportation Management System

Automated Parking Information System
Operational Test

By Michael Kinney
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• 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
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
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
Contact Information

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