Washington Metropolitan Area Transit Authority

Technologies and Programs that Encourage Metrobus Ridership

Transportation Planning Board Technical Committee

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DRAFT

Metro Supports Bus Ridership by…

- Use advanced technology to provide customer information & enhance bus operations
- Conduct periodic planning studies to evaluate and enhance bus service
- Engage public to access and improve service quality

Customer Information System Technologies

- Real-time bus arrival predictions
  - Customer information server interfaced to CAD/AVL to receive bus schedule and adherence information
  - Customers get bus arrival predictions through websites, text messages, voice calls, and smart phones
  - NextBus receives more than 3M inquiries each month; 30% of trips

Customer Information System Technologies

- Customer Information System Signage
  - 50 signs distributed throughout the operational area displaying bus arrival information
  - Plans to install hundreds of LCD and LED signs at bus shelters and transit centers

On-Board & Back-End Technologies that Support Metrobus Operations

- In process of implementing Consolidated Ancillary Bus Equipment and Fixed-end Systems project
  - Replaces on-board technologies and back-end CAD/AVL system in the bus operations control center

Back-End

AVL- incident & on-time performance monitoring

On-Board

Next stop and public service annunciation, destination signs, AVL, automatic passenger counters, vehicle health monitors

Improved Operations with Metrobus System Technology

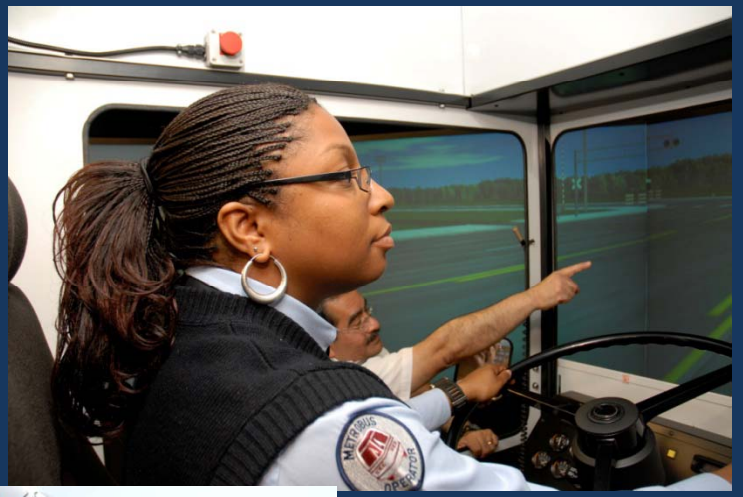
- Currently 12 buses equipped with transit signal priority technology
  - Operation on Georgia Avenue/7th Street MetroExtra 79 service

Recommended TSP locations in the Downtown core

- New transit signal priority installation
  - Funded by TPB TIGER Grant
  - VA Rt. 7 and up to six additional corridors

Additional Efforts that Encourage Metrobus Ridership

- Bus driver training
- On-board cameras
- New Shepherd Parkway facility
- Expanded service
- Express service
- User surveys
- New bus maps



Metrobus Planning, Development, and Implementation

- Regional Bus Study
- Priority Corridor Network
- Bus Priority Studies
  - H&I Streets Bus Lane Study
  - Crystal City/Potomac Yard Transit Improvement Project
- Periodic Service Evaluation Studies

Challenges

- Traffic congestion/reliability
- Increased dwell times
- Funding fleet expansion
- Right-of-Way issues
- Meeting demand

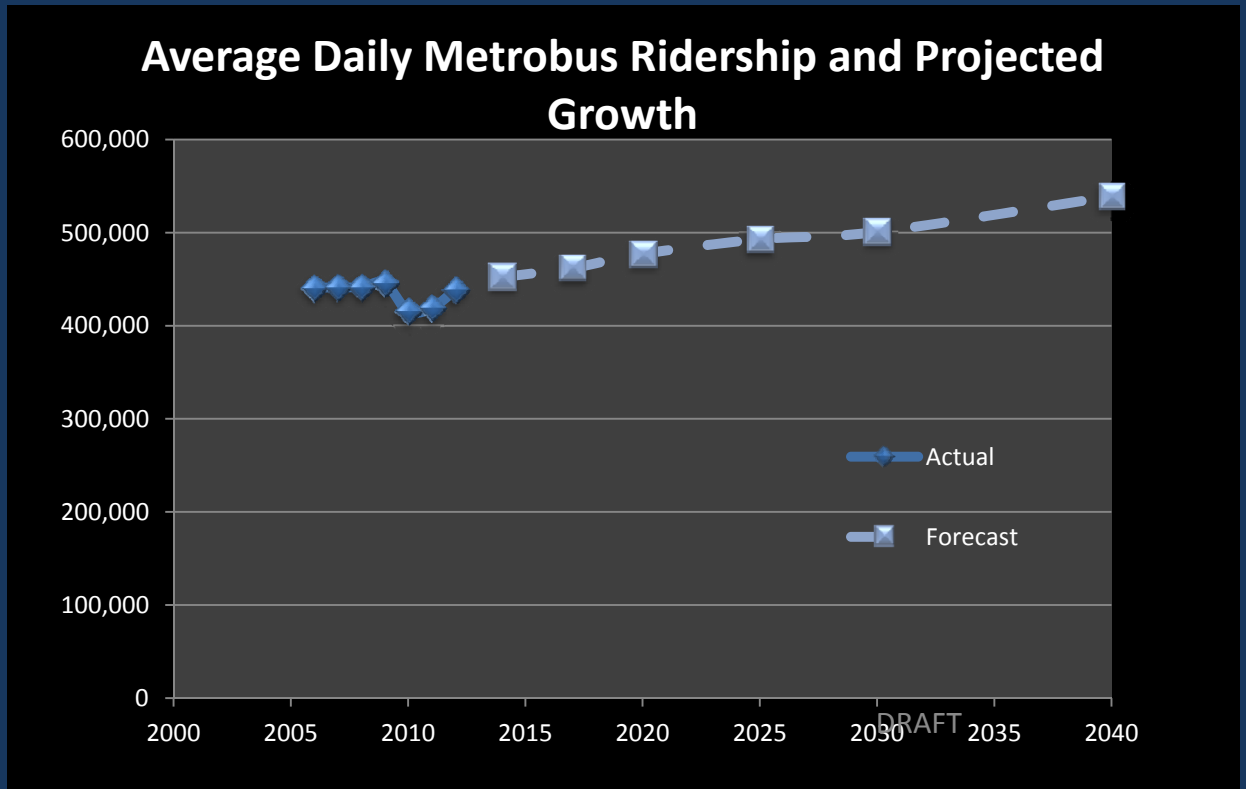
Questions?

Appendix

Metrobus Serves the Region

2012 Metrobus Ridership

Average Weekday Ridership	438,000
Average Weekend Ridership	366,600
Annual Total Ridership	130,890,000



- 1,482 buses in active revenue fleet
- 174 lines in DC, MD, and VA
- 315 routes; 1/3 in each jurisdiction
- 11,475 bus stops
- 2,397 bus shelters (595 Metro-owned)

Metrobus Service Compared to Others

	Service Area (UZA Sq Miles)	Region's Population (2010 Census UZA)	Bus Ridership (unlinked trips)
WMATA	1,322	4,586,770	128,444,000
NYC Transit	3,450	18,351,295	829,180,000
BART	524 (SF/Oak)	3,281,212	n/a
CTA	2,443	8,608,208	306,024,000
MARTA	2,645	4,515,419	68,009,000
MBTA	1,873	4,181,019	108,128,000

Balance of Supply and Demand