

Washington Metropolitan Area Transit Authority
Board Action/Information Summary

<input checked="" type="radio"/> Action <input type="radio"/> Information	MEAD Number: 100006	Resolution: <input type="radio"/> Yes <input checked="" type="radio"/> No
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TITLE:

Enterprise GIS

PURPOSE:

The purpose of this action is to obtain Board approval to initiate and award competitive procurements to implement and develop an Enterprise Geographic Information System (GIS) and to upgrade WMATA's Internet and Intranet websites. This is a one year (FY 2009) award.

DESCRIPTION:

The Authority recognizes the need and importance of implementing and developing an Enterprise GIS. Expanding the use of GIS-based business applications creates tangible results that will improve many business systems including the maintenance and materials management system (3MS); bus integration; bus stop inventory; computer-assisted dispatch/records management systems (CAD/RMS; Trapeze (bus and rail scheduling system); fiber management (the locations, routes and assets of WMATA's fiber-optic network); planning, safety and security within WMATA and external agencies; and customer information systems.

The specific results of this effort include: Collection of user requirements, inventory of data and information system resources, and establishment of project scopes of work for the enterprise program; planning, design and development of the enterprise GIS database, mapping, applications, and system interfaces; data collection, conversion, mapping, and integration of current Metro GIS data; and complete hardware installation and GIS software implementation for high priority projects.

The Authority recognizes that a next generation Internet web portal will lay the

foundation for a comprehensive website that gives riders, businesses, and visitors an enhanced and robust gateway to WMATA's online services. It will position WMATA as a company that is easy to do business with, secure and trustworthy, and technologically up-to-date and savvy. The web infrastructure projects will improve the portal's graphics and navigation features, implement action engines to support new functionality, make the site more accessible for persons with disabilities, and improve translation capabilities.

Intranet improvements will streamline WMATA business applications and communications through a single, enterprise-wide look and feel. A robust search engine and web publishing solution will precede the development and deployment of an online document management system (Executive Information System).

The following are specific procurement actions that will be covered under this MEAD:

GIS:

- GIS Staff Augmentation: \$500K
- GIS-Maximo Integration and Facility Mapping: \$300K
- GIS Operations Support Tools: \$300K
- Base Map Integration for Security and Planning Support: \$300K
- GIS Interfaces and Data Maintenance Tools: \$150K

Enterprise Web Portal:

- Contract Staff Augmentation: \$400K
- ADA 508 Compliance Enhancements: \$225K
- Intranet Design and Enhancements: \$250K
- Enterprise Search Engine: \$100K

FUNDING IMPACT:

Budget: Metro Matters
Project: Information Technology
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Metro Matters

Budget Information:	FY09
Budget Amount:	\$37,925,000
This Action:	\$2,525,000
Prior Actions:	\$5,525,000
Subtotal:	\$8,050,000
Remaining Budget:	\$29,875,000

Operating Budget Impact: The annual operating impact of the GIS program is \$350K per year beginning in FY10. The annual operating impact of the Web Portal is estimated to be \$200K per year beginning in FY10.

Capital Budget Impact: The capital budget impact of the GIS program will include a hardware refresh cycle which begins in FY13 at \$300K every three years. The capital impact of the Web Portal is \$200K every three years.

REMARKS: This action is subject to Board approval of the FY09 budgets and availability of funds.

RECOMMENDATION:

The Board approves the initiation and award of competitive procurements to implement and develop an Enterprise Geographic Information System (GIS) and to upgrade WMATA's internet and intranet websites.



Enterprise Geographic Information System

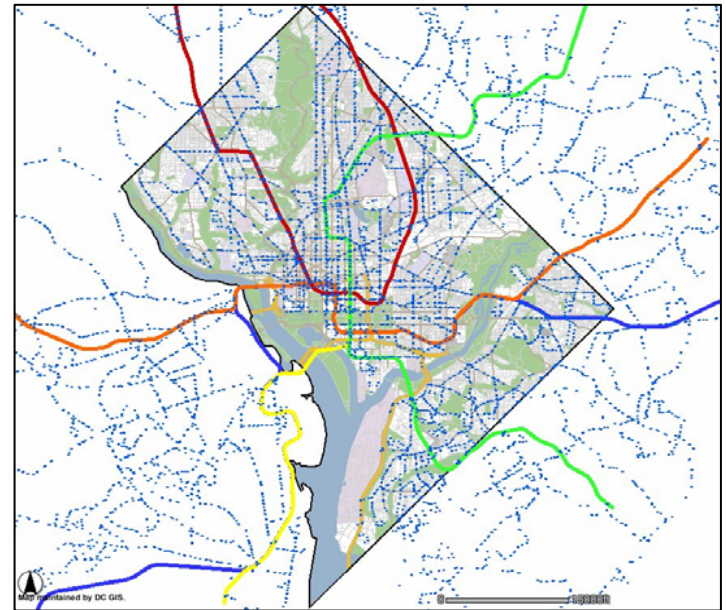
Project Description: The Enterprise Geographic Information System (GIS) project will consolidate and expand WMATA's existing, isolated GIS efforts, and will enhance the ability to pattern and analyze many of WMATA's key customer, business, and safety processes.

- **Benefit to Customers**

- Geographic mapping of incidents, accidents, facilities, stations, routes, and surrounding areas
- Trip Planner mapping of route and landmark information
- Integrated mapping of MTPD, Bus, and Rail data from rider perspectives

- **Implications on Service**

- Consistent information agency-wide
- Operating efficiencies, including geographic analysis of track work and work order management
- Improved emergency readiness, including integrated crime and safety maps for all compact jurisdictions





Enterprise Web Portal

Project Description: The Internet Web Portal project lays the foundation for a comprehensive Metro website that gives riders, businesses, and visitors an enhanced and robust gateway to the Authority's online services.

- **Benefit to Customers**

- Easy access to rider services
- Clearer, easier-to-use web design
- Easier rider navigation and searching
- Better access for disabled individuals with disabilities
- Improved and expanded language translation
- Easier use by PDA and phone devices

- **Implications on Service**

- More reliable and secure web infrastructure
- More efficient web operations
- Improved emergency readiness
- Consistent look-and-feel, agency-wide

