

**Washington Metropolitan Area Transportation Authority
Board Action/Information Summary**

<input checked="" type="checkbox"/> Action <input type="checkbox"/> Information	MEAD Number: 99737	Resolution: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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PURPOSE

To obtain Board approval to award a General Services Administration (GSA) contract to implement an Enterprise Geographic Information System (GIS).

DESCRIPTION

The Authority recognizes the need and importance of implementing an Enterprise GIS. Expanding the use of GIS based business applications creates tangible results that will improve many business systems like Bus Integration, Bus Stop Inventory, CAD/RMS (Computer Assisted Dispatch/Records Management Systems), Trapeze bus and rail scheduling, Fiber Management (the locations, routes and assets of Metro's fiberoptic network), safety and security within WMATA and external agencies and, last but not least, customer information.

This is a one year project to establish the Authority's Enterprise GIS system infrastructure and to deliver the District, Maryland and Virginia bus and rail system route maps, six rail station area "You are here" maps, and twelve bus route maps. The estimated cost is approximately \$500,000 and will be funded by the Department of Customer and Media Communications (CMCS). Cost savings will be realized beginning in the year following the installation or FY09.

ESRI is the recommended vendor for this project as they are the industry leader in GIS and their products have been universally adopted by the regional jurisdictions. WMATA has been discussing consolidation of GIS efforts with jurisdictional partners. This effort will establish the WMATA GIS infrastructure and facilitate information sharing and consolidation regionwide. If expansion is required in future years, funding will be requested from the Board.

Utilizing a GSA Contract with ESRI, the industry leader in GIS solutions, is a good value because it extends and enhances existing ESRI GIS implementations in Authority departments and offices (Business Planning and Project Development, Chief Engineer of Facilities, Office of Information Technology, MetroAccess, Metropolitan Police, Track Structure System Maintenance, System Safety and Risk Protection and Operations Planning and Administration Support) at an approved, fair market value. In addition to

implementing the GIS mapping project, the central server in this contract creates an enterprise GIS environment to be shared with all Authority GIS users.

Providing customers with up-to-date maps, in print and online, will be a tangible benefit of the improved information resulting from the ITRP program. Because of their immediate customer impact we recommend providing cartographic-quality GIS-based maps resulting from the enterprise GIS system.

Historically, WMATA has produced these maps graphically with no connection to the spatial data which they portray. By introducing GIS into its operations, with its robust map production capabilities, the Authority will be adopting a map production methodology driven directly by a geospatial database. This approach offers both production efficiency and improved currency in the map products.

FUNDING IMPACT

Department of Customer and Media Communications
FY07 Operating Budget (These funds are allocated for bus stop information reliability)
Services - Other

FY07 \$500,000

RECOMMENDATION

That the Board of Directors approve the award of a contract to ESRI utilizing their GSA schedule to begin implementation of an Enterprise Geographic Information System (GIS).