

PSAP Grant Program Grant Ranker

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Grant Period: 2009

Tier: Strengthen current equipment and service delivery capability by upgrading existing wireless E-911 related equipment or services (**STRENGTHEN**)

Grant Program: Enhancement **Grant Type:** Individual PSAP

Priority: Parcel mapping (**PARCEL**)

Primary PSAP Applicants: Greene County

Jurisdictions Served: Greene

Project Director:

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Project Description:

Brief Project Description (100 words or less): Currently, Greene County, VA's 911 map data maintenance is a manual process that is both time-consuming and potentially less accurate than what is possible with technologies available on the market today. Therefore, Greene County wishes to purchase field collection hardware and software designed to increase the accuracy of its 911 map data by using GPS-based, automated collection technology. This will benefit the county by reducing staff time required for address maintenance, as well as increasing the accuracy of the data collected in order to more effectively respond to citizens in emergency situations. Total Project Cost: \$10,161 Amount Requested: \$8,129 Matching Funds: \$2,032 Additional Local Funds (if applicable):

Total Project Cost \$10,161.00

Amount Requested: \$8,129.00

Matching Funds: \$2,032.00

Additional Local Funds: \$0.00

Statement of Need:

Greene County, VA seeks to improve the accuracy of its 911 map data and implement more accurate data collection procedures to ensure ongoing maintenance is as accurate as possible and requires a minimum amount of staff time/resources. Currently, county personnel use measurements and building permits to place new addresses and subdivisions which is both time-consuming and inherently less accurate than computerized collection methods utilizing GPS technology. This project is consistent with the goals of the Wireless E-911 Continuity and Consolidation Program in that it is designed to upgrade current E-911 equipment and services that are technically outdated and to maintain minimum functional standards for an acceptable level of service to the public.

Project Impact:

Accurate address information is critical in the delivery of timely emergency response, and the current address maintenance procedures are both time-consuming and inherently less accurate than computerized collection with GPS technology. In addition, automating this function will allow staff to spend less time on address maintenance and more time on other public safety-related duties.

Consequence of Not Receiving:

Without funding, Greene County will have to continue providing address maintenance with outdated, inaccurate equipment and procedures. In addition, staff will continue to have to spend a greater amount of time on address maintenance than is necessary with today's technology.

Part of Long Term or Strategic Plan?: Yes

Likelihood of Completion Unfunded?: 0%

Other Available Funding Sources?: Yes

Percent of Grant Funding Requested To Total Funding Cost?: 20%

Is Project Locally Sustainable?: Yes

Comprehensive Project Description:

Goals and Objectives: The goals and objectives of this project are to improve the accuracy of address information and ongoing address maintenance in Greene County, as well as minimize the personnel resources required to perform address maintenance functions. **Implementation Strategy/Work Plan/Activities:** The County will be using MSAG Data Consultants' TabletGIS™ address maintenance software and recommended hardware. MSAG Data Consultants provides the hardware procurement, software installation/setup, and training. Therefore, once funding is received, the County will work with MSAG Data Consultants' staff to implement new address maintenance procedures with the new software and equipment. We anticipate having the new processes in place 30-60 days after receiving funding. **Longevity/Sustainability of the Project:** This project has excellent longevity and sustainability. Currently, GPS technology is the most accurate method available for pinpointing location-based information. GPS-based technologies are highly sustainable and used by all manner of industries for which accurate location information is required. In addition, the TabletGIS™ software uses ESRI shapefile format, and ESRI is the industry-standard platform for GIS data used by greater than 95% of GIS users.

What type of interface or compatibility solution will be used between existing equipment and/or software and that which you intend to purchase?:

The primary use for the data collected is with the county's EAGLE Mapped ALI™ dispatch product and the two systems are designed to be compatible. In addition, because TabletGIS™ uses ESRI shapefile format, the data collected can also be used by other county departments with other ESRI-based systems.

What is the overall relationship of your project to your PSAP or locality's established long-range future plans?:

Increasing and/or maintaining the accuracy of 911 data is always a mission critical goal for PSAPs; therefore, this project has a direct impact on the county's mission of providing timely, effective public safety response to all citizens. In addition, the high rate of growth currently being experienced in Greene County means it is imperative our infrastructure is kept up-to-date and is as accurate as possible.

How will the equipment purchased will support future technologies for PSAP readiness?:

The map data generated by this product can be used in the vast majority of CAD and mapping systems available on the market.

Budget and Budget Narrative:

Pricing information from MSAG Data Consultants: This quote is in response to your request for MSAG to provide GIS collection tools for Greene County to enhance your map location during the map maintenance process. Please be aware that while MSAG Data Consultants will supply the TabletPC hardware for this application, your hardware support will be with the hardware vendor directly. **Scope of Services:** - Provide Xplore Tablet PC with integrated GPS solution - Provide 1 license of TabletGIS™ software by MSAG Data Consultants - Setup TabletGIS™ software and Greene County map data on new hardware - Provide 4 hour

training course at MSAG Data Consultants office on the operation of TabletGIS™ - Provide one year technical phone support for TabletGIS™ software. Costs: Item 1: TabletGIS™ (Qty: 1) - Software license \$3,320 - Training \$795 - Standard support \$1,195 Item 2: Xplore TabletPC Hardware (Qty: 1)- Includes 2 replacement breakaway plates (\$19 ea.) \$4,851 Total All Items: \$10,161 Annual Recurring Cost for TabletGIS™: \$1,195 (after year 1). Reasons for Requested Items: The TabletGIS™ software is requested because it is has been specifically designed by the vendor for maintaining 911 address data in conjunction with GPS collection technology. Functionality of the software includes: - Seamlessly integrates digital map data and imagery with real-time GPS - Layer Manager controls the behavior and appearance of map layers - Technology automatically adjusts the map display to show your current location based on the GPS receiver - Ability to link pictures from a digital camera - Support of orthophotos and GIS vector data (ESRI Shapefile format) - Field verification settings allow you to track address attributes associated with a layer - Redlining functionality that enables you to make annotations and markups on the tablet to facilitate updates in the office The TabletPC hardware requested is the Xplore X104 C2V (AllVue Screen, 80 GB HD, 1 GB RAM) with integrated GPS and Bluetooth Radio from Xplore Technologies. It includes an external GPS and is ruggedly designed to better handle use in the field. TabletGIS™ software has been installed and used on the Xplore TabletPC by other counties, so the systems have already been proven to work together effectively in the collection/maintenance of 911 data.

Ongoing Expenses:

The ongoing support/maintenance expenses associated with this product can be covered within the county's existing budget.

Evaluation:

To have the hardware and software purchased, installed/implemented, and performing as expected within 60 days of receipt of funding. In addition, it is anticipated that this project will result in reduced staff time required to collect addresses and roads, as well as increase the accuracy of 911 data.

What are the short term, intermediate, and/or long-term outcomes desired for this project?:

To have the hardware and software purchased, installed/implemented, and performing as expected within 60 days of receipt of funding. In addition, it is anticipated that this project will result in reduced staff time required to collect addresses and roads, as well as increase the accuracy of 911 data.

What measures will be used to determine outcomes?:

To evaluate the implementation timeframe, the county will work directly with the vendor upon receipt of funding to ensure deadlines are established and met. To evaluate the reduction in staff time, individuals involved in address maintenance today will be asked to provide feedback to supervisors indicating whether the new processes reduce the amount of time required for address maintenance functions. To evaluate the accuracy of the data collected, the county will verify the data collected against future state orthophotography.

How will data be collected and how will evaluations be conducted?:

Evaluations will be conducted based on conversations with addressing staff members and a comparison of data against state orthophotography

How will data be presented?:

Data from evaluations will be compiled in a managers report outlining feedback from staff members involved with address maintenance.

Attachments