

PSAP Grant Program Grant Ranker

View Application--34--E911 Data Maintenance Upgrade

Grant Period: 2009

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

Grant Program: Continuity and Consolidation **Grant Type:** Individual PSAP

Priority: Mapping servers and workstations (**MAPPING SUPPORT**)

Primary PSAP Applicants: King George County

Jurisdictions Served: King George

Project Director:

Kyle Conboy
GIS Coordinator
10459 Courthouse Drive, Suite 104 King George, VA 22485
540-775-8558 (phone)
540-775-3139 (fax)
kylec@co.kinggeorge.state.va.us

Project Description:

King George County is requesting grant funding for OfficeGIS, TabletGIS, a PC, training of new products (2 persons), setup costs (1 person), and support (one year). The OfficeGIS will take King George County E-911 maintenance from a piecemeal program of tools to an integrated GIS program, which will in turn allow for updates as needed as opposed to the current method of quarterly updates. The TabletGIS is a field laptop with integrated GPS that would allow the GIS Analyst to bring the GIS and E-911 maintenance data into the field, creating a more efficient and accurate E-911 maintenance program.

Total Project Cost \$38,826.00

Amount Requested: \$31,060.00

Matching Funds: \$7,766.00

Additional Local Funds:

Statement of Need:

The OfficeGIS would allow King George County to update addresses and roads in house instead of using MSAG data consultants for part of the E-911 maintenance process. The E-911 would therefore be updated on a monthly or as needed basis instead of the current schedule, which is quarterly. The OfficeGIS will also help the efficiency of the GIS Analyst, who is the only staff assigned to maintenance, as he tries to keep pace with addressing and road changes in a growing County. The TabletGIS will help the GIS analyst improve the accuracy of the E-911 data and efficiency of data collection while in the field. The TabletGIS would allow for the GIS Analyst to have the E-911 data on a new job site and therefore resolve conflicts in the data while in the field, maximizing the time of the GIS Analyst. The new PC is needed as the current PC

used for E-911 maintenance is over 5 years old, runs Windows 2000, and crashes during routine maintenance work. The training of two persons on new hardware and software is essential for staff to utilize these tools effectively. The training of two persons allows for cross training and security in case one person is unable to perform E-911 maintenance. Setup of hardware and software on a PC is essential for hardware and software to run properly, maximizing its intended uses. Support of OfficeGIS and TabletGIS will provide critical support for the tools used in the maintenance of E-911 data.

Project Impact:

The OfficeGIS and TabletGIS will enable the E-911 data to be updated on a monthly or as needed basis as opposed to quarterly, which is the current update schedule. Under the current quarterly plan, it can sometimes take a new road 3 months to get into the dispatch software. The OfficeGIS and TabletGIS will allow for King George to do all editing in house and get that data to dispatch immediately.

Consequence of Not Receiving:

A delay in E-911 address and road updates as the E-911 maintenance programs are setup on another PC.

Part of Long Term or Strategic Plan?: No

Likelihood of Completion Unfunded?: 50%

Other Available Funding Sources?: Yes

Percent of Grant Funding Requested To Total Funding Cost?: 80%

Is Project Locally Sustainable?: Yes

Comprehensive Project Description:

OfficeGIS and TabletGIS will enable King George County to update its E-911 dispatch data more effectively and efficiently. OfficeGIS will allow the county to update the E-911 data in house using a GIS centric software approach versus the AutoCAD/GIS hybrid approach that is currently used. The OfficeGIS will also allow the E-911 data to be updated in house as opposed to sending the data to MSAG data consultants for the final step of the data maintenance process. King George County GIS staff will then be able to provide updates to the dispatch center on a monthly or as needed basis, as opposed to the quarterly schedule that is currently in place. TabletGIS will enable the GIS Analyst to take the GIS and E-911 data into the field when adding address and road feature. The integrated GPS will provide the recording of accurate features in the field allowing the GIS Analyst access to any data conflicts that can be resolved without the need for another visit. This will allow the GIS Analyst to be more efficient in the maintenance of E-911 data and other job responsibilities. OfficeGIS and TabletGIS will be setup on a new PC, running Windows XP, in the GIS Analyst's office around August of 2008. Training of the new software and hardware for two persons would follow after the successful implementation of OfficeGIS and TabletGIS. Training of two persons would allow for cross training in case the GIS Analyst is unable to perform updates on the E-911 data, wherein the GIS Coordinator would assume those responsibilities. TabletGIS will allow for addresses, roads, and other features to be GPSd in the field and verified for data conflicts. OfficeGIS will be used to add new address and roads into the King George County GIS and E-911 system. The current E-911 system has been in place for over 10 years and is outdated. OfficeGIS and TabletGIS will be a significant step forward in the technology used for the maintenance of GIS data for the foreseeable future. The OfficeGIS and TabletGIS will only need annual support cost going forward and these costs should be equivalent to the costs that are currently being paid for the maintenance of the E-911 data.

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

The new PC will be Windows XP which is OfficeGIS and TabletGIS compatible. ARCGIS will be updated to version 9.3 which is the standard setup for OfficeGIS. No compatibility issues are expected with OfficeGIS and TabletGIS as they will be on a separate PC dedicated to E-911 maintenance.

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

This relationship is totally dependent on updated GIS technology and functionality.

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

OfficeGIS and TabletGIS should integrate well with any future technologies associated with PSAP readiness.

Budget and Budget Narrative:

Will attach quotes from vendors.

Ongoing Expenses:

Support costs will be ongoing and will be paid for thru grants or at the local level.

Evaluation:

An Excel spreadsheet will be kept logging in all of the maintenance of addresses and roads recorded throughout the year. At the end of the year a Word document will summarize the updates of the E-911 data and show that the E-911 data was updated monthly, at the minimum.

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

The outcomes of this project are to have updates to the E-911 data at dispatch on a monthly, at minimum basis, as opposed to the current schedule of quarterly.

What measures will be used to determine outcomes?:

The average time between updates of E-911 data to dispatch will be the measure used for the outcomes.

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

An Excel spreadsheet will be kept logging in all of the maintenance of addresses and roads recorded throughout the year. Evaluations will be conducted on an annual basis.

How will data be presented?:

At the end of the year a Word document will summarize the updates of the E-911 data and show that the E-911 data was updated monthly, at the minimum.

Attachments

King George County VA - Office Tablet Quote.pdf



November 19, 2007

Kyle Conboy
King George, Virginia
10459 Courthouse Drive, Suite 104
King George, VA 22485

RE: Pricing for OfficeGIS™ / TabletGIS™

Dear Kyle:

The following is a quote for the OfficeGIS™ and TabletGIS™ address maintenance and field collection solutions, as well as data conversion services and Tablet PC hardware.

1. OfficeGIS™ address maintenance & TabletGIS™ field collection tools.

OfficeGIS™ features include:

- Easy data import from ArcGIS™
- Assign new address points
- Integration of new road features
- Create clean topology for GIS
- Assign address ranges to new roads
- Maintain MSAG database
- Text manipulation tools
- Cartographic quality map labeling
- Data validation and integrity checking
- ALI / GIS data validation
- Simple to use interface
- Wizards for common, repeated steps
- Maintain E-911 data in ESRI format
- ESRI personal geodatabase format

TabletGIS™ features include:

- 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

2. Data Conversion Services.

Data conversion includes services related to creating a Geodatabase for the King George E911 Data for use in OfficeGIS™. This includes a data migration plan to comply with VITA specifications for review and approval by King George officials before implementation. A map series with the current E911 map books will also be created as part of this project so they can be reproduced in the future. MSAG will also perform QA/QC checks on the dataset to make sure that it will function properly within OfficeGIS™, TabletGIS™, and EAGLE Mapped ALI™.

3. TabletPC Hardware.

The hardware we recommend to run TabletGIS™ is the Xplore X104C2V (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. We also recommend purchasing two (2) replacement breakaway plates which protect the GPS attachment in the field (the additional cost is \$19 and is included in pricing listed below).

COSTS:

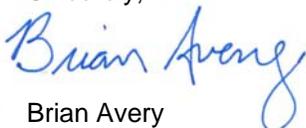
1. OfficeGIS™ (Qty: 1)	
• Software license	\$5,495
• Training (2 individuals)	\$4,590
• Standard support	\$4,455
TabletGIS™ (Qty: 1)	
• Software license	\$3,320
• Training (2 individuals)	\$795
• Standard support	\$1,195
2. Data Conversion Services	\$11,875
3. Tablet PC Hardware + 2 replacement breakaway plates	<u>\$4,851</u>
TOTAL	\$36,576

Costs include all software and system training for two individuals at MSAG's training facility in Orange, VA. County-supplied ESRI ArcGIS 9.x software (ArcEditor or higher) will need to be used in conjunction with the OfficeGIS™ application. The annual total recurring support costs for one (1) license each of OfficeGIS™ and TabletGIS™ (starting year 2) are \$5,650.

Standard Support includes bug fixes and technical problems with OfficeGIS™ and TabletGIS™ and is available via phone from 8:00 am to 5:00 pm, Monday through Friday. Hardware support issues must be taken up with the original equipment manufacturer.

Please feel free to contact me with any questions or if you require further details. I can be reached by phone at (540) 829-5670.

Sincerely,



Brian Avery
Account Representative
brian.avery@msag.com

This quote is valid for 90 days.