



FY18

PSAP GRANT PROGRAM APPLICATION



VIRGINIA INFORMATION
TECHNOLOGIES AGENCY
Integrated Services Division



FY18 PSAP GRANT PROGRAM APPLICATION

HOW TO APPLY/DEADLINE

The grant application is available and accessible from VITA ISP's website (<http://www.vita.virginia.gov/isp/default.aspx?id=8578>). Upon completion of the application, it is to be submitted to the electronic mailbox for grant applications - psapgrants@vita.virginia.gov. Any supporting documentation must also be submitted along with the application when making your grant application submission.

After the close of the grant application cycle, a Grant ID and email receipt notification will be sent to the e-mail address listed on the application received.

All funding requests must be submitted using the grant application. Technical assistance is available from VITA's Public Safety Communications (PSC) staff throughout the grant process. The FY18 PSAP Grant Application Cycle starts July 1, 2016 and concludes on September 30, 2016 at 5:00 pm.

ALL APPLICABLE SECTIONS MUST BE COMPLETED IN ITS ENTIRETY OR THE APPLICATION WILL BE CONSIDERED INCOMPLETE AND NOT ACCEPTED FOR CONSIDERATION.



FY18 PSAP GRANT APPLICATION

PROJECT TITLE

Lunenburg County GIS Project

GRANT APPLICANT PROFILE/PROJECT CONTACT

PSAP/HOST PSAP NAME: Lunenburg County Sheriff's Office

CONTACT TITLE: Major

CONTACT FIRST NAME: Donald

CONTACT LAST NAME: Penland

ADDRESS 1: 160 Courthouse Square

ADDRESS 2: 2T

CITY: Lunenburg

ZIP CODE: 23952

CONTACT EMAIL: djpenland@lunenburgva.net

CONTACT PHONE NUMBER: 434-696-4452

CONTACT MOBILE NUMBER: 434-298-8308

CONTACT FAX NUMBER: 434-696-2531

REGIONAL COORDINATOR: Lyle Hornbaker

HOST PSAP AND PARTICIPATING PSAPS/LOCALITIES

Lunenburg, VA

Town of Victoria

Town of Kenbridge

GRANT TYPE

Individual PSAP

Shared Services



TIER

- Out of Service
- Technically Outdated*
- Not Applicable
- Non-Vendor Supported*
- Strengthen

If technically outdated or non-vendor supported, application MUST include age and/or version of hardware/software.

VERSION: Eagle Version 6.5 # YEARS of HARDWARE/SOFTWARE: 10+

PRIORITY/PROJECT FOCUS NG 9-1-1 GIS

FINANCIAL DATA

Amount Requested: \$ 114,214

Total Project Cost: \$ 114,214



PROJECT DESCRIPTION

Provide a detailed description of the project for which funding is being sought, including the impact on operational services and consequences of not receiving funding; the relationship to local strategic and capital improvement plans; and sustainability:

The Lunenburg County Sheriff's Office would like to use grant funds to make corrections to our centerline, address point, and MSAG data, purchase ArcGIS software, and conversion of existing Eagle mapping data to allow us to maintain our own data and move forward in the next grant cycle with a new mapping system and be assured our data is NG911 ready. We have been making an effort over the last two years to correct data errors that they are discovered, but have also found that the creation of parcel data highlighted errors in existing addressing that were previously undocumented. Many address points, and centerlines created over the last decade were found to not match the underlying parcel's physical address. In comparing the addresses, it was apparent that many address points and corresponding centerline ranges were multiple houses away from their true physical location and placement on imagery. The County has been unable to keep the addressing structure points up to date over the last 2 years due to shortages in personnel and technology. It is not certain that all address points are currently in the County's data set and will require research. Without this grant funding, Lunenburg County does not have the resources to complete this project.



PROJECT GOAL

Describe how this project addresses locally identified need(s) and supports the Virginia 9-1-1 Comprehensive Plan:

Having current and up to date mapping data is vital to the citizens we serve and as per the Virginia 911 Comprehensive Plan Vision provide “rapid, reliable and accurate emergency response.” This project will also address the need for a more accurate and up to date process of updating mapping data.



PROJECT OBJECTIVES

Describe the objectives that will support the goals identified above:

As stated above the update to our GIS data will allow us to provide “rapid, reliable, and accurate emergency response.” Also there will be the implementation of new technologies to keep GIS Data up to date and provide better services. We will also be able to provide better interoperability of our data through sharing of GIS data.

Phase 1 – Centerline, Address Point, and MSAG Correction

The centerlines and address points will be analyzed against the MSAG, against parcel information (no edits to parcels are not a part of this project, and it has been determined prior to this grant request that the parcels are accurate and complete), compared to ESZs, compared to paper addresses (research for missing addresses), and compared to current imagery.

All work to correct attribution and geometry will be done in an Esri ArcSDE environment, and the County will be separated into separate batches to complete deliverables, including an initial Pilot Batch. Items that will be edited in this project include address points, centerlines, and emergency service zones.

Phase 2 - Cloud Based Data Collection Workflow and Data Maintenance

The County will be using existing devices in order to take advantage of Collector for ArcGIS. Collector, and a base ArcGIS Online subscription, will be configured to enable address points and associated information to be collected in the field for optimum placement moving forward. This method will be useful in providing a tool for the County to collect points in digital format instead of paper which is much less reliable. This project will provide a repeatable workflow along with the training and documentation necessary to allow the County to maintain this data far after the project ends.

Phase 3 – Conversion Tools to Support Eagle

The County is still using legacy software and is not yet ready to move to an entirely new system. It is however, in need of an improved method to support data maintenance and conversion of data to support its Eagle software. The County does not currently have a method to support Eagle without a conversion tool. This tool will allow the County to maintain its own data moving forward and establish the workflow processes that will be established through this project.



SHARED SERVICES (if applicable)

Describe the relationship of the project to the participating PSAPs:

2T

Describe the intended collaborative efforts and resource sharing opportunities:

2T



**IMPLEMENTATION PLAN
SHARED SERVICES & INDIVIDUAL PSAP APPLICATIONS:**

For each applicable phase of the project, indicate the planned completion date.

PROJECT PHASE	PLANNED COMPLETION DATE
INITIATION – Project concept is documented, local board or governing authority approval or endorsement is received, PSAP grant application is filed, local budgets are obtained, appropriated grant funds are approved, and budgetary estimates are obtained.	07 / 21 / 17
DESIGN/PLANNING - Requirements are documented, components to be purchased are identified, and general design is documented.	08 / 11 / 17
ACQUISITION - RFP (or other bid related processes) are drafted, proposals are evaluated, contract is signed, purchase orders are issued, and quotes are obtained.	08 / 18 / 17
IMPLEMENTATION - Purchased components are delivered and installed and training is performed	04 / 06 / 18
TESTING/COMPLETION - Performance of system/solution is validated and system/solution goes “live”	05 / 26 / 18



BUDGET AND BUDGET NARRATIVE

Lunenburg County has consulted a vendor who has provided the quoted costs included in this narrative. The project will be broken down into many phases and includes costs for both software licenses as well as costs for data correction, data preparation for NG-911, data preparation and support for software that currently is not vendor-supported, and future data maintenance planning and tools.

A detailed breakdown of the project tasks and associated costs is included below:

PHASE 1	\$38,040.00
Centerline Correction	
<i>Range to Address Point Fallout Analysis</i>	\$1,200.00
<i>Range to ESN Fallout Analysis</i>	\$1,200.00
<i>MSAG to GIS Centerline Analysis</i>	\$1,200.00
<i>Centerline Attribution Analysis</i>	\$1,200.00
<i>Data Corrections</i>	\$8,640.00
<i>Corrections to MSAG</i>	\$1,200.00
<i>Topology</i>	\$1,200.00
Associated Address Point Correction	
<i>Paper Address to GIS Address Analysis</i>	\$3,760.00
<i>Visual Review of Points to Current Imagery</i>	\$5,920.00
<i>Address Point to ESN Fallout Analysis</i>	\$1,200.00
<i>Address Point to Polygon Analysis</i>	\$1,200.00
<i>Address Point Attribution Analysis</i>	\$1,200.00
<i>Corrections to Points Following Analysis</i>	\$5,920.00
ESN Polygon Correction	
<i>Corrections to ESN</i>	\$2,400.00
<i>Topology</i>	\$600.00

PHASE 2	\$40,870.00
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Cloud-Based Data Collection Workflows

<i>Migrate to Local Govt Data Model</i>	\$3,120.00
<i>Address and Centerline Work Design Process</i>	\$4,480.00
<i>Work Process Development</i>	\$6,880.00
<i>Training Documentation Development</i>	\$1,440.00
<i>Data Maintenance Plan</i>	\$2,240.00
<i>On-Site Training (4 days)</i>	\$7,040.00
<i>Final Deployment</i>	\$5,120.00

Software

<i>ArcGIS for Desktop Standard Single Use License</i>	\$5,400.00
<i>ArcGIS Online Level 1 Plan</i>	\$2,575.00
<i>Year 2</i>	\$2,575.00

PHASE 3 **\$24,920.00**

Eagle Data Conversion

<i>Conversion Tools for Eagle</i>	\$6,880.00
<i>Data Model Review</i>	\$1,920.00
<i>Internal On-Site Testing and Deployment</i>	\$8,120.00
<i>Integrate Data with Existing County Database</i>	\$4,320.00
<i>Year 2 Eagle Conversion</i>	\$3,680.00

CONTINGENCY 10% **\$10,383.00**

PROJECT TOTAL **\$114,213.00**

EVALUATION



How will the project as identified in the project description be evaluated and measured for achievement and success:

The Lunenburg GIS Project will be evaluated by the improvement of mapping data and the improvement of emergency responses within the County as well as the improvement in the process of updating mapping data and continuing to keep this map data up to date.



CONSOLIDATION (Primary or Secondary) - (complete only if applicable)

How would a consolidation take place and provide improved service:

Not applicable

How should it be organized and staffed:

Not applicable

What services should it perform:

Not applicable

How should policies be made and changed:

Not applicable



CONSOLIDATION (Primary or Secondary) - (complete only if applicable) – con't

How should it be funded:

Not applicable

What communication changes or improvements should be made in order to better support operations:

Not applicable