



FY19

NG-911 GRANT PROGRAM APPLICATION



VIRGINIA INFORMATION
TECHNOLOGIES AGENCY
Integrated Services Division



FY19 NG-911 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 FY19 NG-911 Grant Application Cycle starts July 1, 2017 and concludes on October 2, 2017 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.



FY19 NG-911 GRANT APPLICATION

PROJECT TITLE

Farmville Area Regional NG-911 Data Sharing Program

GRANT APPLICANT PROFILE/PROJECT CONTACT

PSAP/HOST PSAP NAME: Town of Farmville, VA

CONTACT TITLE: GIS Coordinator

CONTACT FIRST NAME: Ashley

CONTACT LAST NAME: Atkins-Austin

ADDRESS 1: Farmville Municipal Building 116 North Main Street

ADDRESS 2: P.O. Drawer 368

CITY: Farmville

ZIP CODE: 23901

CONTACT EMAIL: gis@farmvilleva.com

CONTACT PHONE NUMBER: 434-392-8465

CONTACT MOBILE NUMBER: 2T

CONTACT FAX NUMBER: 434-392-3160

REGIONAL COORDINATOR: Stefanie McGuffin

HOST PSAP AND PARTICIPATING PSAPS/LOCALITIES

Town of Farmville

Prince Edward County

Cumberland County

GRANT TYPE

Individual PSAP

Shared Services



Non-vendor supported application MUST include age and/or version of hardware/software, **along with a copy of the notice from the vendor.**

VERSION:

YEARS of HARDWARE/SOFTWARE:

Regional PSAPs in Virginia are already using this technology as a result of grant funding, thus the Farmville Region is technically outdated in NG-911 preparation and mutual aid ability. Many localities participating in this grant application are lacking the tools to complete this type of analysis within their own jurisdictions independently, and do not have the licensing capability to share data in an effective, timely manner.

PRIORITY/PROJECT FOCUS NG 9-1-1 GIS

FINANCIAL DATA

Amount Requested: \$ **397,875.50**

Total Project Cost: \$ **397,875.50**



PROJECT DESCRIPTION

The Farmville area PSAPs (Town of Farmville, Prince Edward County, and Cumberland County), have need to establish a seamless regional GIS repository to support NG911 and possible PSAP consolidations over the next several years. The needs of this grant are driven by mutual aid, and a desire by the localities to begin the process of regionalizing more public safety initiatives.

Not only is this project important for changes coming in NG911, but this project would lay the foundation for possible PSAP consolidations which are currently being evaluated in the area. The localities in this region face a great deal of financial hardship, and will be better prepared for all public safety concerns as they prepare for NG911 as a group. While these localities work diligently to maintain public safety standards, they are falling behind other regions in Virginia, and soon will not be able to provide the level of service that other regions in the state are providing to their citizens.

As a regional project, this project will build on the success of other regional projects that have been successfully completed, and will incorporate all the standards recommended by the Virginia Geographic Information Network, NENA, and each localities' E911 vendor.

To improve upon the regional efforts that have been completed under this grant program to date, the Farmville Regional Project will have a newer, cloud- based hosting environment as well as providing data analysis functions through the regional server, and not on the desktops of the localities. These changes will require less software licensing and staff time on behalf of the participating localities. Upon successful completion of the project, the initial Farmville area team is open to incorporating additional localities in the future, and will encourage their neighbors to become involved in the future to strengthen the safety of an increasing number of Virginia citizens.



PROJECT GOAL

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

The first goal fulfilled by this project is the achieving the level of emergency dispatch services to the public: “When achieved, this goal will provide consistent 911 emergency dispatch services to anyone residing or passing through the Commonwealth, at any time of day, and during any event. Consistent service means that all 911 centers can receive, process and dispatch calls in a dependable and repeatable manner.” The second goal of the project achieves is to continuously meet the public’s expectations, which “will allow Virginia to keep up with the rapid pace of technology innovation and therefore the constant changes in customers’ expectations.” This project lays the ground work for NG-911 as well as regional consolidation, which is what the public expects – to reach 911 by any means necessary when in need of help.



PROJECT OBJECTIVES

The Objectives of this collaborative effort are to create a Farmville-based regional GIS depository, and plan a new database for regional data sharing, following new standards established by VGIN and NENA in preparation for NG911 and mutual aid. Each locality will be able to upload data to the Regional Server and Data Reviewer checks will be performed on the Server rather than on each individual localities' machine, thus enabling cost savings to each locality.

This project will be completed in Steps:

Phase 1: Collect, Review and Assemble Locality Data.

- Data from all localities will collected and go through and initial review process using Esri's Data Reviewer
- Draft Regional Data Model
- Make any corrections necessary to the localities' datasets found through Data Review Process

Phase 2: Extract Transfer and Load Development

- Create the ETL process to automate data flow into the regional model
- Create the ETL process to automate data flow into the local model
- Quality control and assurance testing of automation tools

Phase 3: Geoprocessing Tool Development

- Develop Python Intake and Output Process
- Develop Reporting Tools
- Develop Notification Tools

Phase 4: Regional Server

- Configure server environment
- Configure ArcGIS Server
- Configure database
- Develop Exchange Portal
- Solution Deployment
- Required Maintenance (5 Years)

The project, when completed will provide the region with the ability to exchange data using a Regional Server that will be hosted in the secure Amazon Web Services Cloud environment. Esri licensing purchased for this project will include Enterprise ArcGIS Standard Server and the Data Reviewer Extension for Server. Hosting services will be



SHARED SERVICES (if applicable)

The relationship of the project to the participating PSAPs:

The Town of Farmville will act as the host locality for this application, as well as the licensing and hosting requirements from Amazon Web Services and Esri. Each Town/County has signed an MOU pledging their participation in the project and this application.

Describe the intended collaborative efforts and resource sharing opportunities:

This project will enable the partners of the Farmville Area initiative to improve operational efficiency and data sharing. It will also further the region’s early planning processes for NG911 and consolidation.

The Town of Farmville will host the Resources through Amazon Web Services and every locality participating will have equal access and ability within the regional dataset. The tools created will reside in the server environment, and not within one locality, giving each access to same technology and software.



**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, NG-911 Grant application is filed, local budgets are obtained, appropriated grant funds are approved, and budgetary estimates are obtained.	05 / 30 / 18
DESIGN/PLANNING - Requirements are documented, components to be purchased are identified, and general design is documented.	06 / 30 / 18
ACQUISITION - RFP (or other bid related processes) are drafted, proposals are evaluated, contract is signed, purchase orders are issued, and quotes are obtained.	07 / 30 / 18
IMPLEMENTATION - Purchased components are delivered and installed and training is performed	04 / 30 / 19
TESTING/COMPLETION - Performance of system/solution is validated and system/solution goes “live”	05 / 30 / 19



BUDGET AND BUDGET NARRATIVE

List the planned expenditures to be made with grant funds. Briefly explain the reason for each requested budget item and provide the basis for its cost. In addition, if contingency cost has been added, please identify the amount.

Task Number	Task Name	Cost
Task 1	Data Tasks	
	Develop regional data model	\$14,600.00
	Data Reviewer checks	\$13,080.00
	Initial corrections to GIS Data	\$21,000.00
	ETL process to Regional model	\$19,440.00
	ETL process to locality model	\$11,160.00
	Testing of Tools	\$15,000.00
Subtotal: Task 1		\$94,280.00
Task 2	Geoprocessing	
	Python intake/output process	\$24,600.00
	Reporting tools	\$9,600.00
	Notifications tools	\$9,600.00
Subtotal: Task 2		\$43,800.00
Task 3	Regional Server Exchange Portal	
	Configure server environment	\$5,160.00
	Configure ArcGIS Server	\$8,240.00
	Configure ArcGIS Server Database	\$7,300.00
	Portal Development	\$43,200.00
	Deployment	\$9,100.00
Subtotal: Task 3		\$73,000.00
Task 4	Hardware, Software and Maintenance Requirements	
	Data Exchange Portal and Database Maintenance - 5 Years	\$ 45,000.00
	Server Software	\$ 27,000.00
	Server Software Maintenance - 5 Years	\$ 38,625.00
	Establish Cloud Solution Hardware - (one time)	\$ 5,000.00
	AWS Hosted Solution - 60 Months	\$ 35,000.00
Subtotal: Task 4		\$ 150,625.00
Contingency (10%)		\$ 36,170.50
Project Total		\$ 397,875.50



EVALUATION

The success of the project will be measured by the milestones we reach upon completion of Each Step of the Project Phases:

Task 1 - Data Design, Quality and ETL Processes

Task 2 - Required Geoprocessing for participating Localities

Task 3 - Set Up Regional Server

Task 4 - Set Up Exchange Portal

Task 5 - Implement Hardware and Software Solutions

Localities will all report their individual progress with the Town of Farmville Regional Project Manager on a regular basis. Weekly and/or monthly project meetings will occur over the duration of the project with stakeholders from all eight participating localities to ensure that successful completion and ultimately the benefits provided by this opportunity are achieved.

PHYSICAL CONSOLIDATION - (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

How should it be funded:

Not Applicable

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

Not Applicable