



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

Orange County PSAP & Response Boundaries

GRANT APPLICANT PROFILE/PROJECT CONTACT

PSAP/HOST PSAP NAME: Orange County Emergency Communication Center

CONTACT TITLE: E-911 Center Director and Public Safety Communications Network Manager

CONTACT FIRST NAME: Nicola

CONTACT LAST NAME: Tidey

ADDRESS 1: 112 W Main St

ADDRESS 2: PO BOX 111

CITY: Orange

ZIP CODE: 22960

CONTACT EMAIL: ntidey@orangecountyva.gov

CONTACT PHONE NUMBER: 540-661-5433

CONTACT MOBILE NUMBER: 540-729-8189

CONTACT FAX NUMBER: 2T

REGIONAL COORDINATOR: Amy Ozeki

HOST PSAP AND PARTICIPATING PSAPS/LOCALITIES

Orange 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:

N/A

PRIORITY/PROJECT FOCUS NG 9-1-1 GIS

FINANCIAL DATA

Amount Requested: \$ 65,950

Total Project Cost: \$ 65,950



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:

Orange County relies heavily on GIS to support its constituency, and there is an emerging need to utilize GIS to fully support the County's Communication Center in its public safety mandates. The County is specifically interested in maturing its data sets to the point where the Emergency response function can fully integrate GIS data to support event mapping analysis, dispatch, routing, and emergency planning. The County requests assistance under this program to develop and refine existing data, procure applications, develop first responder materials, and integrate existing emergency operations systems with the County's GIS system.

This initiative is to extend the County's GIS roads data set to incorporate the requisite road network intelligence to achieve a routable database capable of supporting the intelligent dispatch of emergency services vehicles with a high degree of predictability and reliability. To achieve this objective, the County requires impedances (speed limits, turn impedances, stop signs, traffic signals, etc.) to be introduced into a fully developed routable street network model.

In addition to the Routable Street Database, PSAP Boundaries and Response Districts will be realigned with the growth and change within the county. This will support NG911 and more intelligent routing for emergency dispatch.



PROJECT GOAL

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

Orange County desires to further leverage its GIS system by incorporating smart datasets into the County's existing emergency management software. Using the enhanced data sets developed under this project's Orange would like to provide the ability to provide robust mapping, geocoding and spatial analysis through a tight integration between their emergency management system and its ESRI ArcSDE databases.

The County's goal of smarter datasets will decrease response times, increase overall reliability of the datasets, and increase use of GIS towards the State's goal of NG 911 readiness.



PROJECT OBJECTIVES

Describe the objectives that will support the goals identified above:

Phase 1: Road Connectivity and PSAP Boundaries – Create a routable road network that can intelligently route emergency services; and derive smart response boundaries.

Phase 2: PSAP Boundary Development and QAQC between existing boundary layers and newly derived ones; ensuring no gaps or overlaps.

Phase 3: PSAP and response boundary reports; ensuring that population and demand can be handled by districts.

Phase 4: ESN Development; testing and refinement of boundaries and incorporation of new data into E911 Mapping

SHARED SERVICES (if applicable)

Describe the relationship of the project to the participating PSAPs:

Not Applicable



Describe the intended collaborative efforts and resource sharing opportunities:

Not Applicable



**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.	07 / 01 / 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	11/30/18
TESTING/COMPLETION - Performance of system/solution is validated and system/solution goes “live”	1/3/19



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 Name	Cost
Orange County PSAP & Response Boundaries	\$65,950.00
Phase 1 - Road Connectivity & PSAP Boundaries	\$36,240.00
Routable Road Network	\$26,040.00
Analysis between Road Network & PSAP	\$10,200.00
Phase 2 - PSAP Boundary Development	\$11,560.00
Data Reviewer Checks between Road & PSAP	\$4,800.00
Corrections to Existing Boundaries	\$6,760.00
Phase 3 - PSAP Boundary Reports	\$4,050.00
Population & Response Reports	\$4,050.00
Phase 3 - ESN Development	\$14,100.00
Development of ESN based on Reports & Analysis	\$6,300.00
Testing & Refinement of Boundaries	\$5,400.00
Incorporation of ESN and PSAP Boundaries into E911 Mapping	\$2,400.00



EVALUATION

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

- GIS Data relevant to emergency dispatch will be verified and updated to ensure highly complete and reliable information will be available for emergency communications center in support of first responders, emergency planners, and State/Regional law enforcement officials.
- GIS data will be augmented to include the ability for emergency operations to provide routable directions to responders, enabling responders to save critical time through use of streamlined directions.
- The County will follow the evaluation methods provided by the State, as well as monthly project status reports detailing the percent complete of the project.



PHYSICAL CONSOLIDATION - (complete only if applicable)

How would a consolidation take place and provide improved service: <i>Not Applicable</i>
How should it be organized and staffed: <i>Not Applicable</i>
What services should it perform: <i>Not Applicable</i>
How should policies be made and changed: <i>Not Applicable</i>

PHYSICAL CONSOLIDATION - (complete only if applicable) – continued

How should it be funded: <i>Not Applicable</i>
What communication changes or improvements should be made in order to better support operations: <i>Not Applicable</i>