

**Arlington Safety and Innovation Zone Demonstration Project  
Scope Document**

**Overview**

<b>Project Title</b>	Evaluating the Validity and Benefits of Sensor Technology to Police and Fire in the Safety and Innovation Zone Demonstration Project (SIZ)
<b>Project Scope</b>	The goal of the project is to quantify the improvements in the quality of emergency response and the efficient use of public safety resources to benefit the community. Various models will be developed to quantify the potential impact of the sensor data on the accuracy and timeliness of police and fire incidents and dispatches retrospectively.
<b>Involved Agencies</b>	Fire, Police, Watch Desk, Data, Privacy, CIO/CTO
<b>Key Stakeholders</b>	GMU: Nirup Menon, Bat Baasan, Christine German
<b>Start Date</b>	12/16/2021
<b>Projected End Date</b>	5/15/2022

**Deliverables**

<b>Description</b>	<b>Due</b>
Work with solution vendor to review/provide input to data algorithm validation plan. Review validation testing results and verify data accuracy or raise concerns and work with solution vendor until quality issues addressed.	01/28/2022
Review analysis approach with Public Safety team. GMU to present progress on correlation report and methodology at SIZ working session.	02/04/2022
Analyze sensor data captured near the date/time of reported incidents and present potential correlations and lack thereof	02/04/2022
Develop options for analyzing sensor data for trigger/alert thresholds and validate them against incident data	03/04/2022
Document data transformations and processing, transition this knowledge to Arlington, help migrate data analysis to Arlington platform	5/15/2022

**Data Control Plan**

Each County dataset to be shared is identified below. The datasets are individually classified and are to be handled according to their classification, per the County's Data Classification Guidelines and Best Practices (Attachment A). Any individual who will be assigned access must first review and sign the County's standard Non-Disclosure Agreement.

**Dataset #1**

<b>Data Description</b>	Auto-generated sketch images from sensor processor
<b>Data Type</b>	
<b>Data Classification</b>	Internal Use

<b>Point of Contact</b>	Kimberly Wilson
<b>Means of Delivery</b>	Email to Nirup Menon @GMU
<b>Schedule for Delivery</b>	One-time delivery each time sketches are generated
<b>Security and Access Provisions</b>	Files to be stored only on GMU equipment and accessed by VPN remotely
<b>Permitted Use</b>	The data will be used for the purposes outlined above in “Deliverables” Table. No efforts will be made to de-identify data or to analyze or report on individuals. No reference to Arlington County specifically in any published or shared presentations is permitted without direct consent from Arlington County.
<b>Disposition of Data at Conclusion of Project</b>	Delete from all computers immediately upon completion of data validation project phase.

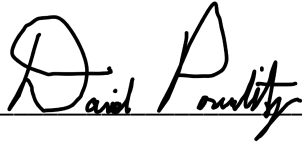
#### Dataset #2

<b>Data Description</b>	Police and Fire Incident Report with columns: AGENCY, , CALL_NO, REPORT_NO, CALL_TYPE_FINAL, CALL_TYPE_FINAL_D, CALL_CREATED_DATE, HMMSS, OUTCOME (301/304/306 etc.)
<b>Data Type</b>	Excel file
<b>Data Classification</b>	Internal Use
<b>Point of Contact</b>	Kimberly Wilson
<b>Means of Delivery</b>	Email to Nirup Menon @GMU
<b>Schedule for Delivery</b>	Weekly
<b>Security and Access Provisions</b>	Files to be stored only on GMU equipment and accessed by VPN remotely
<b>Permitted Use</b>	The data will be used for the purposes outlined above in “Deliverables” Table. No efforts will be made to re-identify data or to analyze or report on individuals. No reference to Arlington County specifically in any published or shared presentations is permitted without direct consent from Arlington County.
<b>Disposition of Data at Conclusion of Project</b>	Delete from all computers no later than 5 years from the completion of the project

#### Dataset #3

<b>Data Description</b>	Sensor data on people count, noise level, humidity reading, CO2 reading; all as time series
<b>Data Type</b>	
<b>Data Classification</b>	Open data
<b>Point of Contact</b>	Kimberly Wilson
<b>Means of Delivery</b>	Email to Nirup Menon @GMU
<b>Schedule for Delivery</b>	Weekly
<b>Security and Access Provisions</b>	Files to be stored only on GMU equipment and accessed by VPN remotely.
<b>Permitted Use</b>	Correlating and modeling data without unmasking addresses
<b>Disposition of Data at Conclusion of Project</b>	Delete from all computers after 5 years from the completion of the project to facilitate publishing the analysis and the results in academic journals

Signed:



---

December 21, 2021

David Povlitz, Fire Chief  
Arlington County Fire Department

---

Name/Printed Name/Title

Date

Arlington County Government



---

9/29/2021

Nirup M Menon, Associate Dean and Professor, SBUS

Date

George Mason University