



Administration Building
West Hearing Room
5334 S. Prince St.
Littleton, CO 80120
303-795-4630
Relay Colorado 711

Kathleen Conti, District 1
Nancy Sharpe, District 2
Jeff Baker, Chair, District 3
Nancy Jackson, Chair Pro Tem, District 4
Bill Holen, District 5

Study Session
October 15, 2019

The Arapahoe County Board of County Commissioners typically holds weekly Study Sessions on Monday and Tuesday. Study Sessions (except for Executive Sessions) are open to the public and items for discussion are included on this agenda. Agendas (except for Executive Sessions agendas) are available through the Commissioners' Office or through the County's web site at www.arapahoegov.com. Please note that the Board may discuss any topic relevant to County business, whether or not the topic has been specifically noticed on this agenda. In particular, the Board typically schedules time each Monday under "Committee Updates" to discuss a wide range of topics. In addition, the Board may alter the times of the meetings throughout the day, or cancel or reschedule noticed meetings. Questions about this agenda? Contact the Commissioners' Office at 303-795-4630 or by e-mail at commissioners@arapahoegov.com

Study Session Topics

8:30 A.M. Administrative Meeting - Tri-County Health Department Budget Conference Call With Douglas And Adams County Commissioners (WHR)

Board of County Commissioners

10:00 A.M. Administrative Meeting - Douglas County Board Of Commissioners (WHR)

Board of County Commissioners

Break

1:00 P.M. Calendar Updates (WHR)

BoCC Administration Manager

1:45 P.M. BOCC Updates (WHR)

Board of County Commissioners

3:00 P.M. *Drop In (WHR)

Board of County Commissioners

1. North Central Region Sole Source Waiver For Situational Awareness Mapping Tool

Discussion of a request from the North Central All-Hazards Region for development of a centralized Situational Awareness Tool that will support the seamless integration of incident and emergency response data for the 10 County wide Denver metro Region

Request: Information/Direction

*Olga Fajaros, Sheriff's Finance Manager, Sheriff's Office
Scott Kellar, North Central Region Homeland Security Coordinator
Greg Thornton, Homeland Security Risk and Resiliency Analyst
Tiffanie Bleau, Senior Assistant County Attorney
Todd Weaver, Budget Manager, Finance*

Documents:

[BSR_NORTH_CENTRAL_REGION_SOLE_SOURCE_WAIVER_FOR_SITUATIONAL_AWARENESS_MAPPING_TOOL_DROP_IN_20191015.DOC](#)

3:20 P.M. *Executive Session (WHR)

Executive Study Session and County Attorney Administrative Meeting [Section 24-6-402(4)(b)C.R.S.](As required by law, specific agenda topics will be announced in open meeting prior to the commencement of the closed and confidential portion of this session) (WHR)

Ron Carl, County Attorney

*** To Be Recorded As Required By Law**

WHR - West Hearing Room

*Arapahoe County is committed to making its public meetings accessible to persons with disabilities.
Assisted listening devices are available. Ask any staff member and we will provide one for you.
If you need special accommodations, contact the Commissioners' Office at 303-795-4630 or Relay Colorado 711.
Please contact our office at least 3 days in advance to make arrangements.*



Board Summary Report

Date: 09 October 2019

To: BOCC

From: Scott Kellar, North Central Region Homeland Security Coordinator

Subject: Waiver for Select Source request for a centralized Situational Awareness Tool (SA Tool) for the North Central All-Hazards Region (NCR)

Purpose and Recommendation- The North Central All-Hazards Region (NCR) desires development of a centralized Situational Awareness Tool (SA Tool) that will support the seamless integration of incident and emergency response data for the 10 County wide Denver metro Region. The delivered solution will provide various tools (i.e., applications, maps, and dashboards) for monitoring and managing incidents across the Region. Additionally, the SA Tool will allow for the aggregation of live layers from departments and agencies in the Region eliminating the creation of static copies of data that quickly become outdated and irrelevant during an emergency/incident.

Background and Discussion- The NCR is one of nine emergency preparedness and response regions within the State of Colorado. The NCR is organized around ten counties (and their cities, districts, towns and municipalities): Adams, Arapahoe, Boulder, Broomfield, Clear Creek, Denver, Douglas, Elbert, Gilpin and Jefferson Counties. All of these organizations currently contract with and utilize the suite of ArcGIS software products that are produced by Environmental Systems Research Institute, Inc. (ESRI). For this reason, the NCR is requesting a select source of ESRI as the vendor for the development of the Regional Situational Awareness tool.

Existing NCR GIS Data Repository Project- The new SA Tool project is an extension of an existing GIS data repository tool that was developed over the past 8 years by the NCR GIS Committee. That project's development was based on Arapahoe County RFP-06-52 which identified the ESRI software suite and Safe Software (FME) as baseline software requirements for the Regional GIS System.

The NCR GIS Data Repository is a central repository for geospatial data that covers a wide variety of subjects, and that are made available from multiple sources of data providers. Example data sets include but are not limited to jurisdictional boundaries, parcels and parcel owners, addresses, streets, railroads, law enforcement facilities, fire stations, schools, parks, hydrology, satellite imagery and emergency operation centers (EOCs).

Proposed SA Tool Solution- The proposed solution expands NCR's existing GIS structure to support the desired situational awareness tool. New system capabilities of the proposed solution will include:

- The implementation of Portal for ArcGIS Server to provide a secure portal for the viewing and creation of content for the tool, including information contributed real-time by field workers.
- The migration of the NCR GIS Data Repository from the file geodatabase to Enterprise GIS data store (PostgreSQL) to support data editing.
- The addition of ArcGIS Online to host a subset of the NCR Situational Awareness tool to support non-essential viewers and public outreach.

- The ability to display and alert others to the current location of responders real-time using Esri's GeoEvent Server.

*Please see attachment 1 for further detail on proposed capabilities of the SA Tool

Phased Development Process

Phase 1 Minimal Viable Product (MVP) (2019)-

The minimal viable product (MVP) for the NCR Situational Awareness Solution will be a subset of features available in the ArcGIS Solutions for Emergency Management, Situational Awareness. In this initial release, no custom web application or widget development will be performed, rather the available web applications and widgets in the Esri industry offering will be configured to meet the initial needs determined for the NCR Situational Awareness Solution.

Phase 2 User Feedback and Enhancement (Years 2020-2021)-

In Phase 2, NCR will solicit feedback on the MVP release from the region's Emergency Management and GIS communities through email communication, workshops, visitations, and regularly scheduled regional meetings. Enhancements and changes communicated by user community will be documented (backlogged) then evaluated and prioritized based on popularity and perceived need. A subset of the backlogged enhancements and changes will be approved for incorporation into the NCR Situational Awareness Solution. Additionally, it is anticipated that exploratory efforts for the implementation of more advanced capabilities in the tool will be performed in Phase 2.

Select Source Justification- Select Source justification includes the following factors:

- The original Regional GIS project was based on a design generated from Arapahoe County RFP - 06-52 which identified the ESRI software suite and Safe Software FME software suites as baseline software requirements for the Regional GIS System. All development of the system over the past 9 years has been based on these products.
- All NCR county members of the Regional GIS project team have selected, contracted and utilize the Esri software suite as their mapping and GIS software.
- NCR can leverage its legacy investment in Esri and FME Server software from the perspectives of staff training, data, and software.
- Nearly all NCR GIS professionals are trained in the Esri suite of products making development and staffing for the long-term maintenance and support of the NCR situational awareness tool easier.
- Esri has developed and provides the ArcGIS Solutions for Emergency Management Solution, a sophisticated and configurable COTS offering for situational awareness monitoring. The solution can be implemented as-is with minimal configuration or significantly enhanced through custom software development (coding).
- Safe Software FME's interoperability software provides the tools to transform and merge disparate data into a single, centralized data set, a capability not currently supported by ArcGIS distributed collaboration.
- Esri's Portal for ArcGIS (Portal) provides a secure platform for hosting and editing both spatial and non-spatial content.
- Esri's ArcGIS Online and Portal for ArcGIS leverage the same technology framework making user training and migration of content (data, maps, out-of-the-box apps, users, roles, etc.) between these two solutions easy and simple. Esri provides sample scripts for migrating content between ArcGIS Online and Portal, or vice versa.

- Founded in 1969, Esri is a longstanding, leading, and reputable GIS software company.
- Esri sells proven and warranted software, provides on-call software maintenance and regular software updates to its customer base.
- Esri provides professional services to assist customers in implementing its software in enterprise, large-scale deployments and high-availability scenarios.

Fiscal Impact- The product acquisition will be paid for by North Central Region Homeland Security Grant Program funds. The estimated cost for the system purchase, delivery, installation and training is \$104,244.00 for phase I and \$126,000.00 for phase II. There are adequate grant funds to support this project, verified by Arapahoe County Finance.

Concurrence- The Arapahoe County Sheriff, Finance Department, concur with the waiver of Select Source to support selection of ESRI Inc. as the core vendor to develop the Situational Awareness Tool (SA Tool).

Tyler S. Brown, Arapahoe County Sheriff

Date

Janet J. Kennedy, Director of Finance

Date

John Christofferson, Deputy County Attorney

Date