



# Council Communication

Office of the City Manager

Date

April 28, 2008

Agenda Item No. 42

Roll Call No. 08-

Communication No. 08-208

Submitted by: Mike Matthes, Assistant City Manager

## AGENDA HEADING:

Approving purchase of consulting services, training, and server and desktop software from Environmental Systems Research Institute (ESRI) Inc., (Leawood, KS) for a regional Homeland Security central repository based on the ESRI Homeland Security database model of geographical information.

## SYNOPSIS:

Approval for staff to proceed with the creation of the Regional Geographical Information System (GIS) as mandated by the Federal Byrne Discretionary Grant. Implementation will include standing up the technology components to allow regional participants to update and use geographical information from the central repository. The data model for the regional GIS will be based on ESRI's Homeland Security Data Model and implemented by cooperative work between the City of Des Moines and the regional GIS participants. The City and its regional partners have adopted the ESRI suite of GIS software as their standard. ESRI is the sole provider of ESRI software and the Homeland Security Data Model. Therefore, it is recommended that the City Council approve an exception to the competitive procurement requirements as allowed by municipal code section 2-726(a)(7).

Current regional participants include Polk County, West Des Moines, Urbandale, Clive, Johnston, Ankeny, Pleasant Hill, and Waukee; in addition to Public Safety Answering Points (PSAPs); the Des Moines Police, the Polk County Sheriff, and Westcom. WestCom is the dispatch center for the cities of Urbandale, Clive and West Des Moines. The completion of the implementation of this grant is one of the recommendations contained in the IT Strategic Plan (page 85).

## FISCAL IMPACT:

Amount: Not to exceed \$250,000

Funding Source: This project is 100% grant-funded through the FY2003 Bureau of Justice Assistance Congressionally Mandated Awards Byrne Discretionary Grant 2003DDBX1132. FY07 Municipal Improvement, Information Technology Department, GIS, Fund CP034, ORG-IFT990000, Project BLD114 Regional GIS Plan, Page 23.

## ADDITIONAL INFORMATION:

This project will allow development of a regional Geographic Information System, centered in Des Moines, and extending throughout the metropolitan region. The defined region is all of Polk County and extending into Dallas, Madison, Warren, Story and Boone counties where the corporate city limits of Des Moines, West Des Moines, Clive, Carlisle, Urbandale, Granger and Sheldahl extend (616 sq. miles). In

addition, the City of Waukee in Dallas County has existing project features and data that would need to be incorporated into the regional base map (11.5 sq. miles). The system will provide data, information and visualization tools that will enhance the ability of personnel within the region to protect critical infrastructure, respond to emergencies (both natural and man-made), and provide essential protective services to residents of the region. This seamless regional base map will be able to be used in Homeland Security and Emergency Management applications such as the City of Des Moines and Polk County Sheriff's Computer Aided Dispatch (CAD) systems as well as several other Police and Fire emergency management software applications. This base map also benefits numerous other governmental entities which depend on accurate mapping.

The Homeland Security Data Model is provided by ESRI for use in the regional GIS database. ESRI will provide database modeling and implementation services in order to integrate their data model in to the City's existing enterprise database which is currently being updated by regional participants. This data model will allow for regional participants to update their data to the central repository and provide for a seamless layer of information for use in emergency situations or incident analysis.

#### **PREVIOUS COUNCIL ACTION(S):**

Date: July 10, 2006

Roll Call Number: [06-1396](#)

Action: [Acceptance](#) of proposal from Sanborn Map Co., Inc., (John Copple, Chief Executive Officer, Colorado Springs, CO) for a Regional Geographic Information System (GIS) Planimetric Update and GIS Maintenance Implementation Plan, and authorizing the negotiation and execution of a contract, not to exceed \$384,900. ([Council Communication No. 06-437](#)) Moved by Kiernan to approve. Motion Carried 7-0.

Date: October 6, 2003

Roll Call Number: 03-2313

Action: Application for Federal Assistance to access grant funds for development of the Des Moines Regional Geographic Information System (GIS). ([Council Communication No. 03-498](#)). Moved by Brooks to approve. Motion Carried 5-2.

#### **BOARD/COMMISSION ACTION(S): NONE**

#### **ANTICIPATED ACTIONS AND FUTURE COMMITMENTS: NONE**

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