

## **AIMS Coordinators Meeting Minutes**

September 12, 2013

Host: City of Shawnee

Location: Shawnee City Hall

### **Presentations:**

#### **Doug Hemsath**

Having not hosted in some time, Doug began by talking about what they have been working on at Shawnee over the past year, and how the city is utilizing new GIS technology for city functions. He first mentioned that they were previously at Esri Arc Map version 10.0 and upgraded directly to version 10.2, skipping 10.1. He discussed the issues in doing so, and some of the hurdles they had to overcome.

At the city, they have always had several Arc Reader applications for city staff and citizens of Shawnee to use and consume to get information and data. He talked about how those are being used, as well as how they have evolved and become more entrenched within the city's work flow. The most heavily used applications are used by the police in patrol cars which allow them to look at data in real time. They are looking to move this application to an ArcGIS Online application in the future to provide even better service. A second application that is heavily used is the storm water application, which is used for viewing storm water infrastructure and network flow. This includes a wide variety of data from pipe inspections, including videos and other various storm water related information. Another major application used internally is "Shawnee Viewer 6", which has been in place for 9 years. Internal staff use it regularly to get Shawnee-specific data and information quickly and easily. Most recently, Doug has added an additional piece to allow users to quickly view and refresh frequently requested data in the form of reports, using SQL reporting services. He showed the various reports available for consumption where staff can easily click on the link and get the answers they need quickly and easily.

The city is in the beginning stages of a new asset management system. This will not only be an asset management tool, but much more. They have chosen a product from Tyler Technologies called "Energov" for this conversion and are in the testing phases at this time. They will also use the software to complete other city tasks, such as permitting and licensing.

Another effort Doug talked about was the work they did with street inventory, as well as the future work of capturing street sign reflectivity which is required to meet a federal standard. For this project they used 3M to capture locations, as well as pictures, of their signs. The project started on September 9<sup>th</sup> 2013, and was anticipated to be completed in a week or so. 3M is also using Shawnee as a test site for LiDAR sign capture, but Shawnee is unsure the type of data they will receive, if any, with this effort. Due to budget constraints, no money was available for capture of reflectivity data so this effort was only to capture inventory and condition data.

The final project Doug talked about was an effort to do a tree inventory in conjunction with the city Parks and Recreation Department. They found GPS data collected by Kansas Forestry Service for the

City of Shawnee parks in 2012, so this was used as a starting point. They then continued that effort to capture the parks that were missed by the state, as well as fill in the holes where new trees exist. There was discussion with other cities doing this type of work, and questions arose about maintenance efforts moving forward. Discussion ensued about possibly forming a group to talk about this topic and gather input on how to capture and maintain this data, as well as its uses and benefits.

### **Brady Wiens**

Brady talked about the analysis work he has been doing that involves capturing buildings and structures in, or near, a flood plain. In this analysis, he is using the FEMA approved flood zones in conjunction with LOMA and LOMR to determine these structures, and capturing those in a file geodatabase. They are attaching additional attributes for the appropriate zone, as well as linking to any LOMA or LOMR documents available. They are also linking to other documents created for storm water studies within the city.

### **Doug Hemsath**

The second half of the meeting was focused on Arc GIS Online (AGO), and how Shawnee is using and implementing it. They have a subscription with 5 named users and 2,500 credits, and are evaluating credit usage at this time. Currently, most of their credits are used in the storage of photos from the storm water project. Doug will be removing the photos soon to help alleviate that hit. These maps and applications can be accessed through the cities web page via the mapping and interactive maps as well as PDF maps. Some of the efforts that they have used AGO for are listed below with a brief description:

- **Storm water Inspection Project:** This was a project where the city hired Olson and Associates to inspect storm water inlets. They used AGO map, along with iPADS to collect data. They used a wireless jet pack network card for connectivity to capture data as well as upload data and photos to AGO. This allowed them to use the AGO Dashboard to track and create reports on the progress of the project, as well as to push data to the online map for Olson to view inlets needing capture and/or inspection. The project went very smoothly and was completed quickly. Both Shawnee and Olson were very impressed with the ease of implementation and use of the AGO map, data collection, and inspection processes.
- **Construction Project Map:** This map is to track where CIP projects are occurring within the city, as well as provide updates and status as the project progresses. An employee in the engineering division edits and updates points on the map with the latest project information. This removes the middle man, and allows the subject expert to ensure that the data is accurate and current.
- **Blues & BBQ Map:** This map is an event specific map that is created for citizens to use for the Blues and BBQ event. It allows citizens and staff to search where team tents are located, as well as team names or member names. This also provides a good planning tool for event day in helping people locate teams or members using a mobile device.

- Pavement Management Project: This project is another effort to streamline data collection. In this project, a pavement technician inspects and tests pavement conditions by doing 1/3 of the city each year. This year they are using AGO to collect data and input conditions based on a “PASR Rating” system to check condition of the pavement as well as curb condition. Prior data collection was done on paper in the field, before it was entered at a later time. With the AGO application, they are doing all of the work in the field. In conjunction, the use of AGO Dashboard has been a great tool to allow management to see what segments have been inspected, and the condition of those roads, to help understand how the project is progressing.

Doug mentioned that the city is currently utilizing Esri’s preconfigured templates on all of their AGO maps and applications, so not much customization is currently being used, but will continue to look to see if that is necessary. With all of the projects thus far, they have been able to find a template to suit their needs. If you have any questions in regard to any of the applications presented, or any of the AGO projects, please contact Doug Hemsath ([DHemsath@Ci.Shawnee.KS.US](mailto:DHemsath@Ci.Shawnee.KS.US)).

The meeting ended with an announcement that AIMS will be hosting the October meeting. An agenda will be forthcoming in the next couple of weeks.