

AIMS Coordinators' Meeting Notes

January 8, 2009

Host: AIMS

Location: Johnson County Administration Building, Room 201

Speaker: Ken Nelson, Data Access & Support Center (DASC)

Next Meeting:

February 10, 2009

Host: AIMS

Location: Johnson County Administration Building

Announcements

- 2008 Orthophotography is available through SDE, IMS, DDR, and CreateMapPDF. AIMS is in the process of delivering the imagery to individual cities.
- Datasync tasks have been modified recently, so that publishing steps are taking place simultaneously, and distribution times have been moved back.
- Census block boundaries are being updated. Johnson County contact is David Peel.
- Admsaimdsv01 will be upgraded on January 17th. All AIMS services will be done for a minimal time period.

Data Access & Support Center (DASC)

Background

The GIS Policy Board was founded in 1989 by Gov. Mike Hayden to focus on GIS strategic planning and to coordinate GIS database development.

DASC was established in 1991 and is located at the Kansas Geological Survey on the campus of KU.

Their data catalog has a heavy environmental focus (streams, soils, etc.)

Elevation Data

DASC is focusing on developing improved statewide elevation data. Elevation data is currently derived from USGS topo maps. There is a big need for improved data for reasons such as flood prediction and mitigation, transportation planning, and precision agriculture and soil mapping.

One of the techniques being used is Height Modernization. Height modernization is the establishment of accurate, reliable heights using GPS. Continuously Operating Reference Stations (CORS) are being used to obtain improved elevations. They are part of a statewide network of GPS reference stations.

Improved elevation data lowers the cost of surveying, mapping, and aerial photography.

A GIS Strategic Elevation Data Committee was formed in November 2008 to implement this plan.

Web Application Development

DASC has been using ArcIMS technology but is working to implement web 2.0 technologies to more emulate google, virtual earth, etc. for ease of use.

1. KGS Oil & Gas Mapper

Components: ArcGIS Server 9.3 – JavaScript/Rest API; Dojo toolkit

It uses a combination of cached and dynamic layers. Wells are dynamic and are updated daily. The base map and fields are cached. The aerials draw using image server.

Users: Most of the users come from the oil and gas industry. Small drillers use it the most, whereas large corporations such as Exxon, use their own services.

2. KBI Registered Offenders

Core technologies: Caches, ajax, javascript

DASC exposed the ESRI geocoding service subscription so the KBI could manage their addresses directly. This has drastically improved addresses and maintenance time. KBI sends the data to DASC so the caches can be updated.

3. GIS & CAMA integration

Kansas Department of Revenue provides centralized hosting of CAMA systems for many counties. As of now, about 70 counties have digital parcels.

Local Government Collaboration

1. Local Data Backup Initiative

After the Greensburg tornado event, many counties wanted to have an off-site backup for their data. This was also true after the SE Kansas flooding. Not having adequate backup data caused FEMA funding to be delayed almost 2 weeks.

The service is free and for backup purposes only.

The data is not publicly distributed unless requested by the data originator.
The service is password protected with FTP access for each county/city.
DASC data backup is hosted at the Arkansas Geographic Information Office (AGIO).
55 counties are currently storing their backup data at DASC.

2. GIS Inventory (Ramona) is a large database detailing what GIS data is available for each county at each location within the state. Currently, there are only 25 counties in the state participating.
3. Kansas Road Centerline Database

DASC is working to develop a better centerline database. They would prefer local data, which tends to be much better than the TIGER or KDOT non-state road data. 37 counties have provided their data with another 10 promising to send in their data.

4. Kansas Tax Units/Administrative Boundaries database

This is a collaborative effort between DASC, county clerks, and GIS departments. 60 counties are currently participating in this initiative.

Other efforts include voting district updates, city boundaries, and situs addresses.

PowerPoint slides from Ken's presentation can be viewed at:

http://aims.jocogov.org/resources/mtgnotes/presentations/2009/Jan/DASC_010809.ppt