

Regional Homeland Security
GIS Project
-Southeast Region-

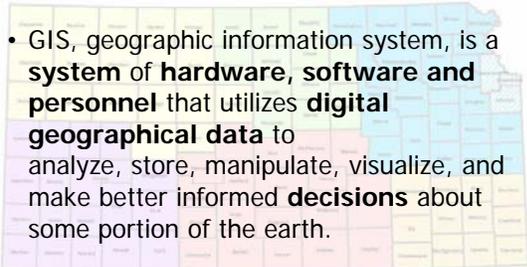
Topics

- GIS – What is it?
- Proposed Plan of Action
 - GIS Inventory
 - Sub-Regional MVP Meetings
 - GIS Training
 - GPS Training
 - GIS Equipment and Software
 - GIS Technical Subcommittee
- State HLS Support Team

GIS – What is it?

GIS – What is it?

- GIS, geographic information system, is a **system of hardware, software and personnel** that utilizes **digital geographical data** to analyze, store, manipulate, visualize, and make better informed **decisions** about some portion of the earth.



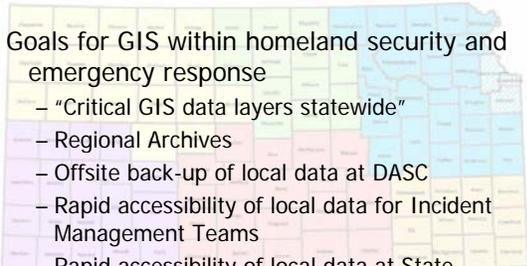
Why a GIS Project?

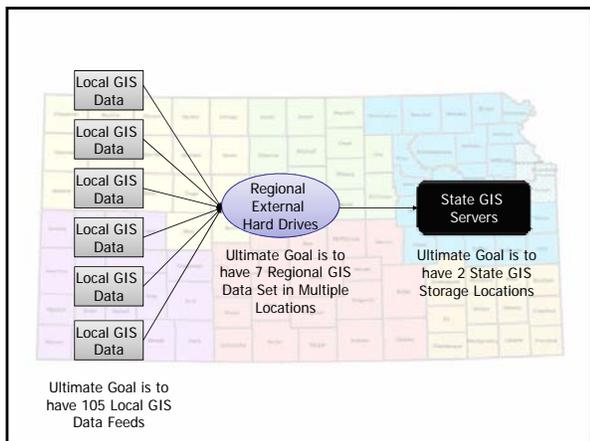
- The Situation
 - 5 Federal Declared Disasters in 2007/2008
 - Winter Storms & Ice (January)
 - Tornado & Flooding (May)
 - Flooding (June)
 - Ice & Snow (December)
 - Tornado & Flooding (May-June)
 - Development of Incident Management Teams
 - GIS – powerful tool for responders

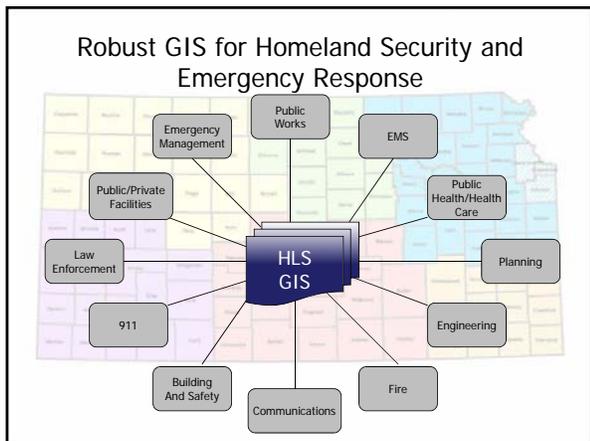


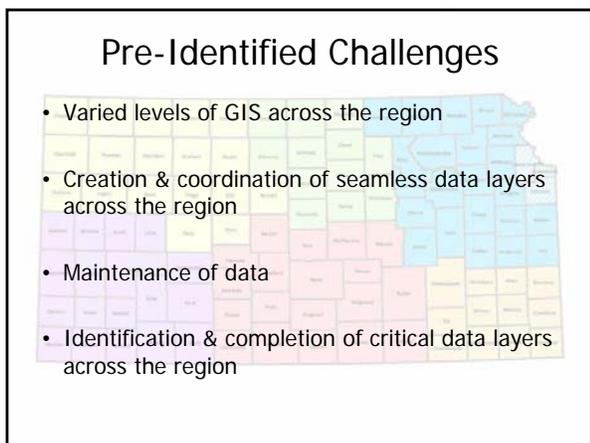
The Adjutant General's Vision

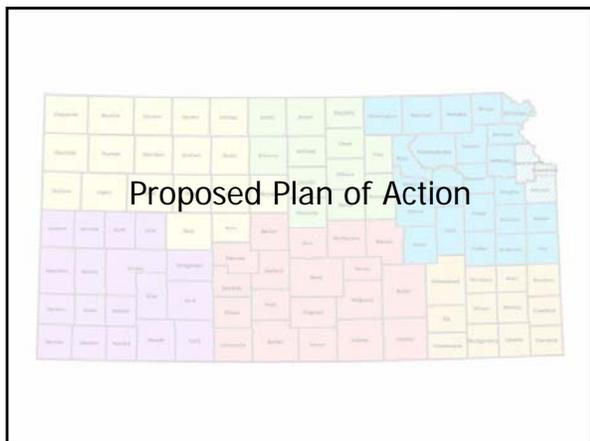
- Goals for GIS within homeland security and emergency response
- "Critical GIS data layers statewide"
 - Regional Archives
 - Offsite back-up of local data at DASC
 - Rapid accessibility of local data for Incident Management Teams
 - Rapid accessibility of local data at State Emergency Operations Center

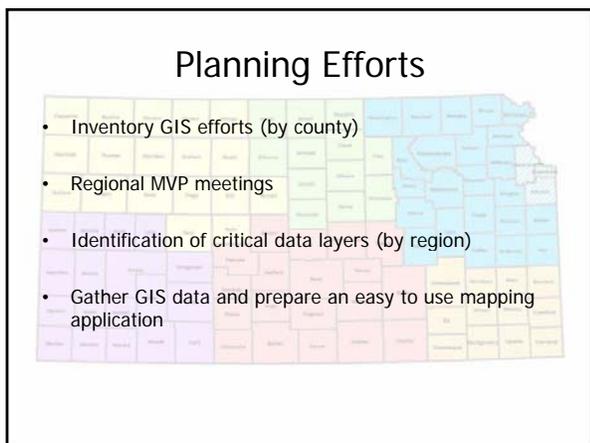


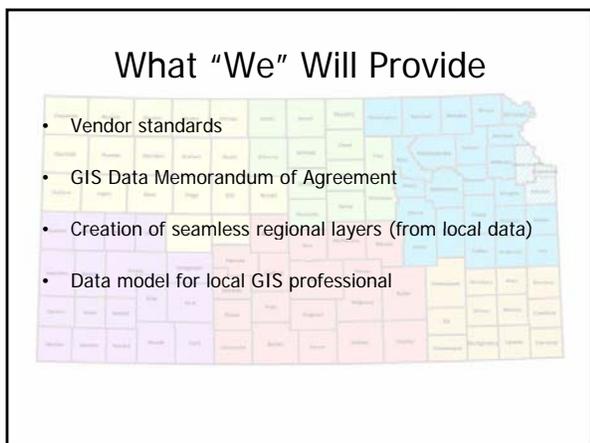


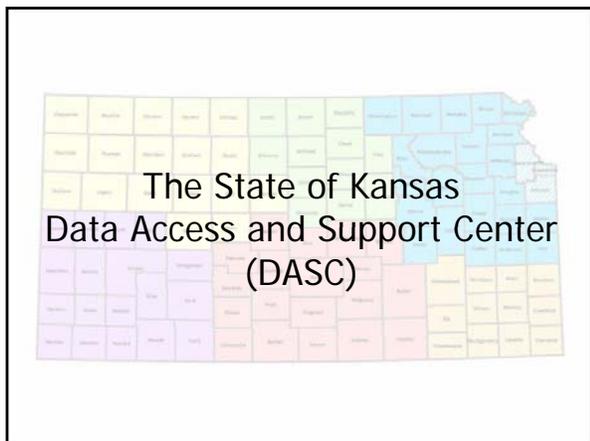










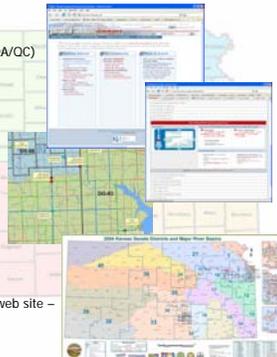


Data Access & Support Center DASC

- Established by the GIS Policy Board in 1991
- Central repository of GIS databases of statewide/regional importance
- Designated as an National Spatial Data Infrastructure (NSDI) clearinghouse node in 1997
- Located at the Kansas Geological Survey at the University of Kansas
- Web site – <http://www.kansasgis.org>

DASC Services

- Database archival and distribution
- Database quality assurance/quality control (QA/QC)
- Technical assistance
- Geospatial metadata development assistance
- Web application development and hosting
- Database development & integration
- State & Local Government Coordination
- Cartographic development
- Promotion of the Kansas GIS Initiative
- Development and maintenance of the DASC web site – www.kansasgis.org

A collage of images showing various GIS-related outputs: a screenshot of a web-based GIS interface, a screenshot of a desktop GIS application, and several maps of Kansas with different data layers overlaid.



Inventory

"get local data catalogued and archived"

National effort spearheaded by NSGIC (National States Geographic Information Council) – State of Kansas Initiative

- Inventory helps assess what you need to back up
- Identifies critical and secondary data before emergency occurs
- Answers question "Who has what?"

Web-based tool to enter inventory





Inventory

- All 12 counties visited by Team
- SE Region HLS Support Team
 - Jessica Frye
 - Eileen Battles
 - Ken Nelson
 - Ingrid Landgraf
 - Ivan Weichert
 - Nicholas Graf

Off-Site Backup

Off-Site Backup

Data housed at DASC and backed up 3 ways:

- 1 – Redundant Storage Area Network (SAN)
- 2 – On-site external hard drive
- 3 – DASC backup system hosted at the Arkansas Geographic Information Office (AGIO)

Password protected data with secure FTP access for each county/city

Data is regularly shared with the Adjutant General's Department for use in emergency management and homeland security activities

Local government GIS data will NOT be publicly distributed unless requested by data originator!

No charge for backup service

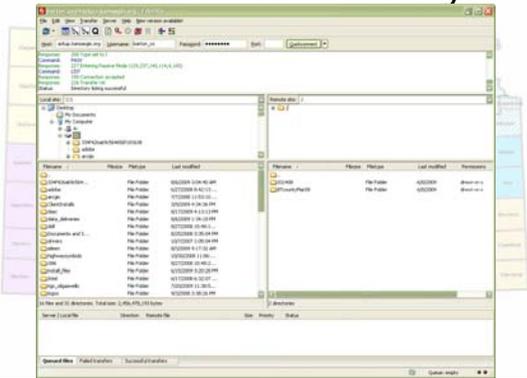
No metadata required for data backup (although it is encouraged!)

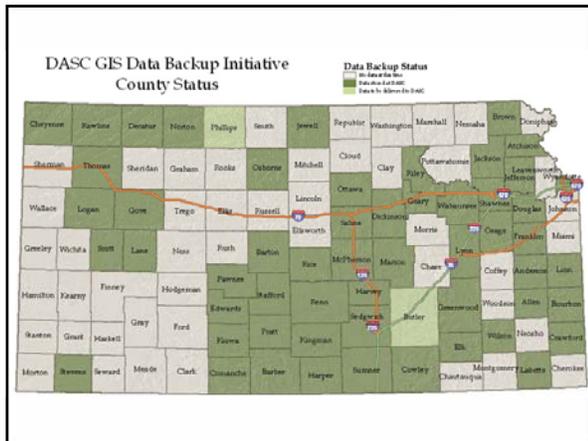
Off-Site Backup

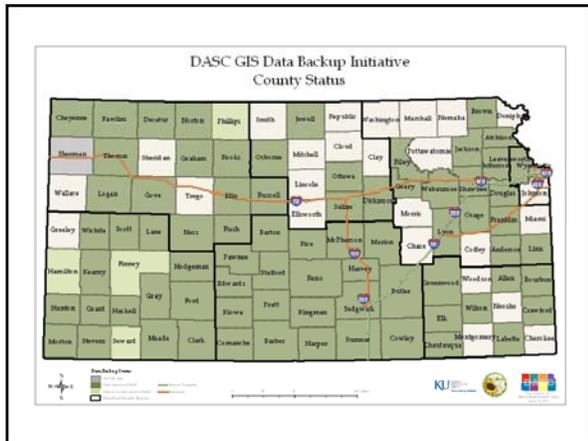
Maintenance:

- User Accounts:
 - unique user names and passwords
- <ftp://backup.kansasgis.org>
- Email reminders to update data
- Download and install free FTP Utility to transfer data (FileZilla)
- Maintenance Guidelines & Tips handout and maintenance instructions available on DASC website
WWW.KANSASGIS.ORG

FileZilla – free FTP Utility



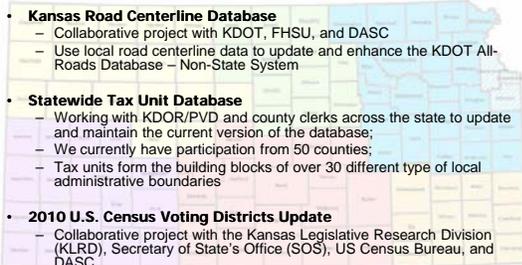






DASC Local Data Integration Initiatives

- **Kansas Road Centerline Database**
 - Collaborative project with KDOT, FHSU, and DASC
 - Use local road centerline data to update and enhance the KDOT All-Roads Database – Non-State System
- **Statewide Tax Unit Database**
 - Working with KDOR/PVD and county clerks across the state to update and maintain the current version of the database;
 - We currently have participation from 50 counties;
 - Tax units form the building blocks of over 30 different type of local administrative boundaries
- **2010 U.S. Census Voting Districts Update**
 - Collaborative project with the Kansas Legislative Research Division (KLRD), Secretary of State's Office (SOS), US Census Bureau, and DASC
 - Update the Voting Districts at the county level as part of the US Census Bureau's redistricting program



Sub-Regional MVP Meetings (Most Valuable Professionals)



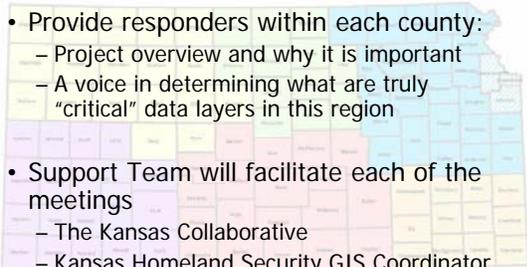
Sub-Regional MVP Meetings

- 3 - 4 Locations
- Two Days
- Length of Time: 2.5 hours



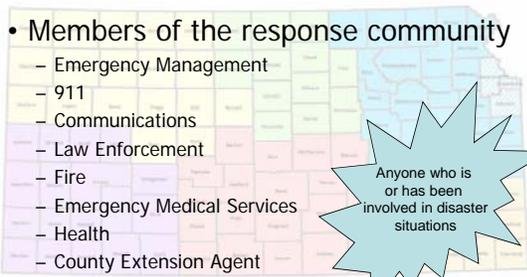
Why Sub-Regional Meetings?

- Provide responders within each county:
 - Project overview and why it is important
 - A voice in determining what are truly "critical" data layers in this region
- Support Team will facilitate each of the meetings
 - The Kansas Collaborative
 - Kansas Homeland Security GIS Coordinator
 - DASC Representative



Who is a MVP?

- Members of the response community
 - Emergency Management
 - 911
 - Communications
 - Law Enforcement
 - Fire
 - Emergency Medical Services
 - Health
 - County Extension Agent
 - GIS Personnel



Regional GIS Training



GIS Training

- 2 day hands-on training for emergency responders
- Contracted (GISEdge)



Regional GPS Training



GPS Training

- 1 day hands-on training for emergency responders
- Contracted (Steve Thompson)





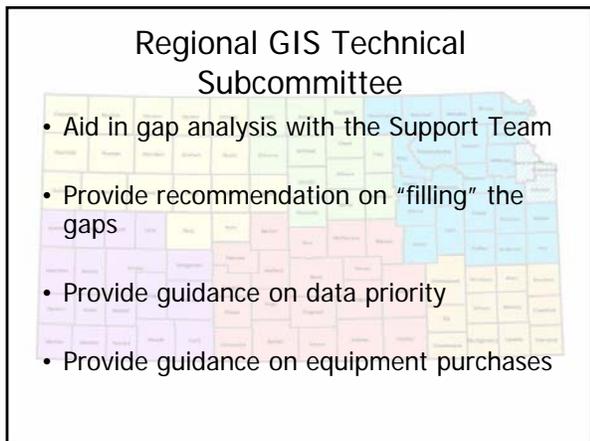
Equipment and Software

- ArcView (single-use) license
 - ~\$1224
 - Additional maintenance (\$400-\$300) per year per license
- ArcGIS Extension
 - ~\$2040
- GPS Unit (Mapping Grade)
 - ~\$2749

Equipment and Software

- GPS Enabled Camera (Ricoh 500SE-B)
 - ~\$1,300 (with GIS extension software)
- External Hard Drive(s) – 1 TB
 - ~\$250
- Flash Drives – 8 GB
 - ~\$65









Support Team

- **Jessica Frye**, Kansas Homeland Security GIS Coordinator
- **Ivan Weichert**, Kansas GIS Coordinator
- **Ken Nelson**, Data Access and Support Center
- **Eileen Battles**, Data Access and Support Center
- **Ingrid Landgraf**, U.S. Geological Survey
- **Kathleen Harnish-Doucet**, The Kansas Collaborative
- **Joel Wright**, The Kansas Collaborative

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Questions?

Thank you!

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