















### **Topics**

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

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### 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

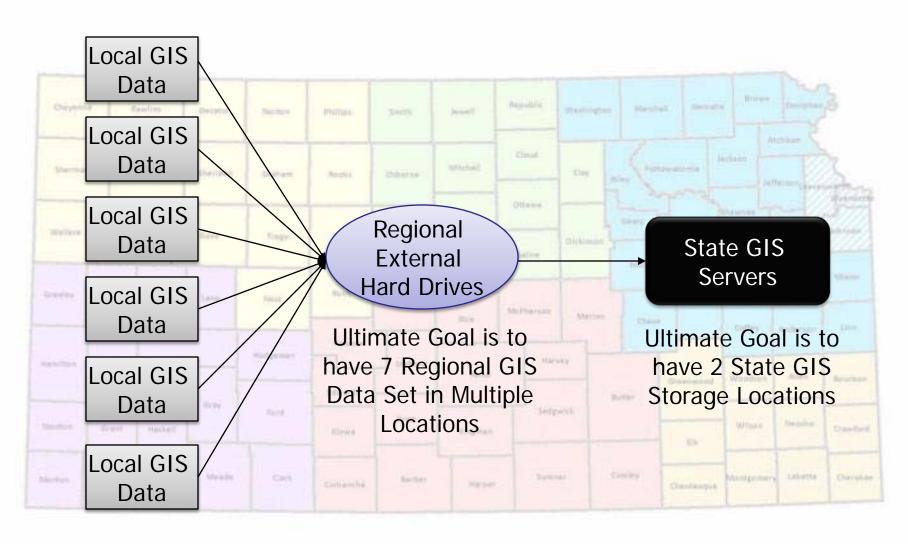
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– GIS – powerful tool for responders

### The Adjutant General's Vision

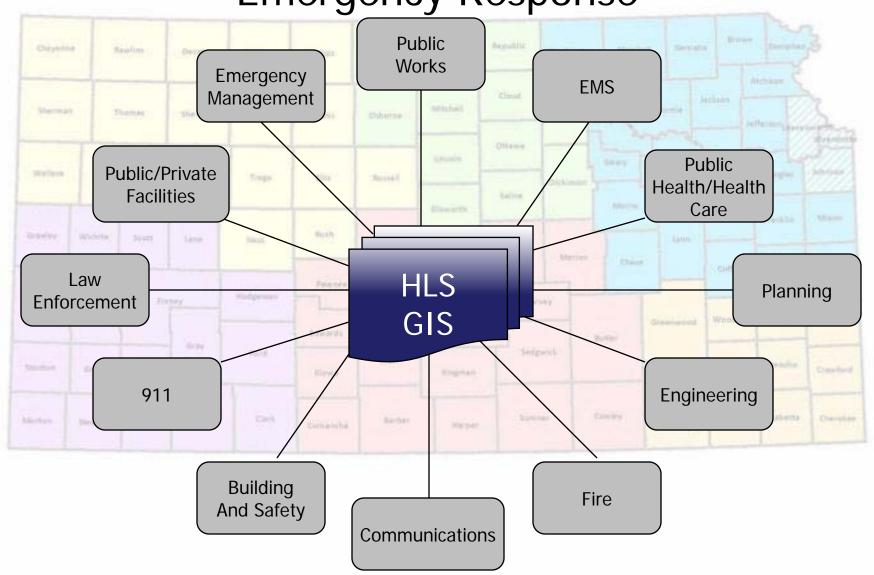
Goals for GIS within homeland security and emergency response

- "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



Ultimate Goal is to have 105 Local GIS Data Feeds

Robust GIS for Homeland Security and Emergency Response



### Pre-Identified Challenges

Varied levels of GIS across the region

Boxin

- Creation & coordination of seamless data layers across the region
- Maintenance of data

 Identification & completion of critical data layers across the region



# Planning Efforts

- Inventory GIS efforts (by county)
- Four regional stakeholder meetings
- Identification of critical data layers (by region)
- Gather GIS data and prepare an easy to use mapping application

### What "We" Will Provide

Vendor standards Chihuttae GIS Data Memorandum of Agreement Creation of seamless regional layers (from local data) Data model for local GIS professional

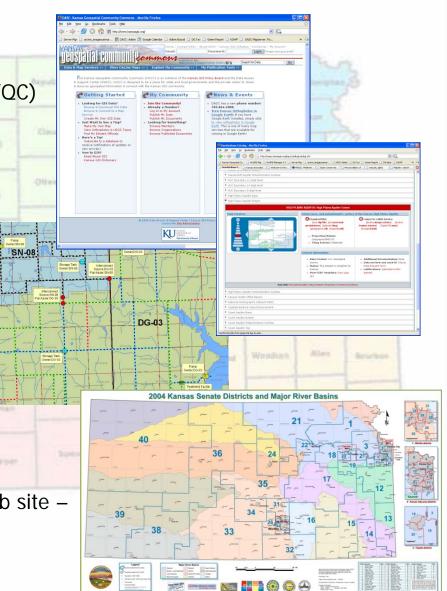


# Data Access & Support Center DASC

- 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





### Inventory

"get local data catalogued and archived"

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

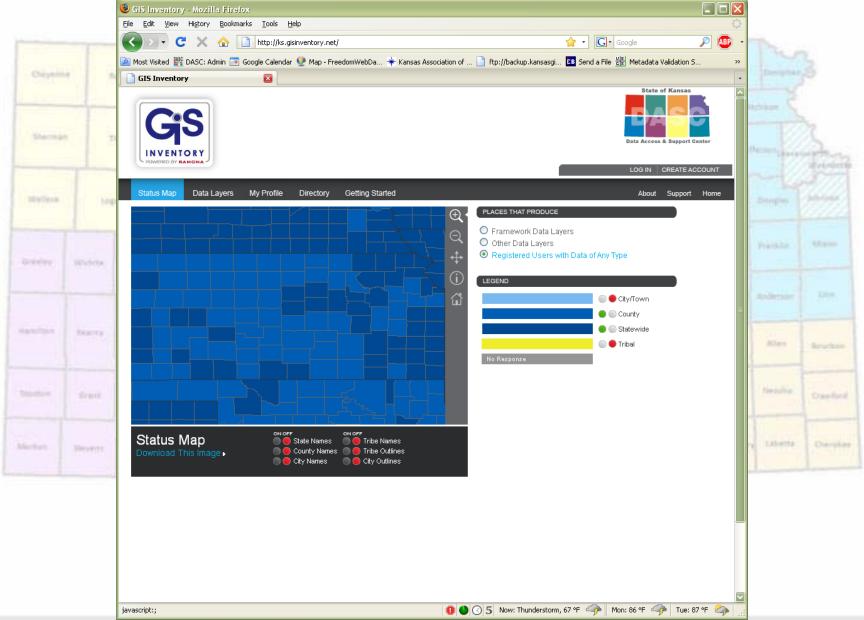
Inventory helps assess what you need to back up

Identifies critical and secondary data before emergency occurs

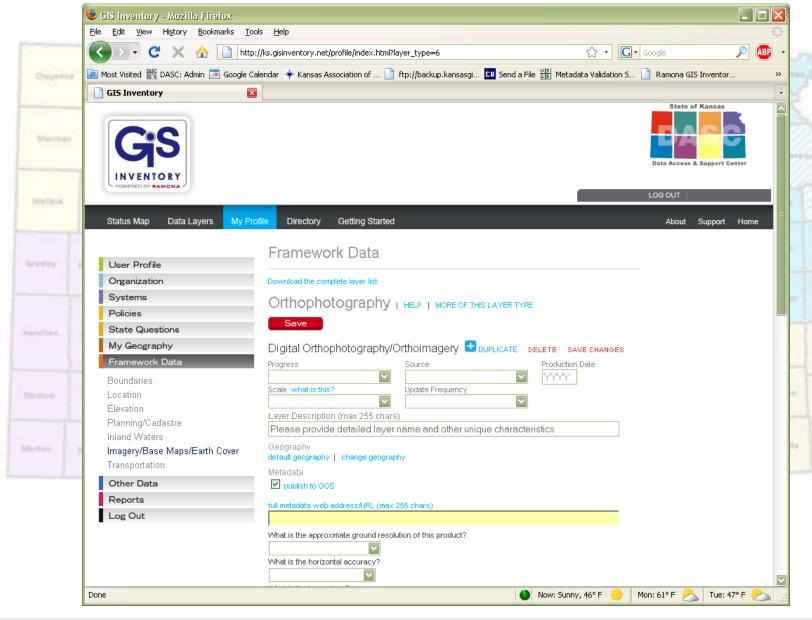
Answers question "Who has what?"

Web-based tool to enter inventory

http://ks.gisinventory.net



# http://ks.gisinventory.net



### Inventory

- All 12 counties visited by Team Rock 6 NC Region HLS Support Team Jessica Frye - Eileen Battles Ken Nelson Ingrid Landgraf Ivan Weichert
  - Nicholas Graf



### 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

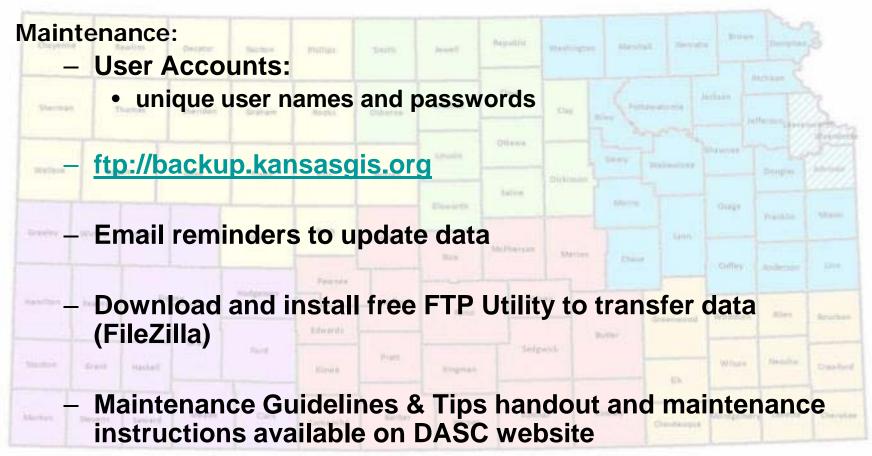
Data is regularly shared with the Adjutant General's Department for use in emergency management and homeland security activities

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

No charge for backup service

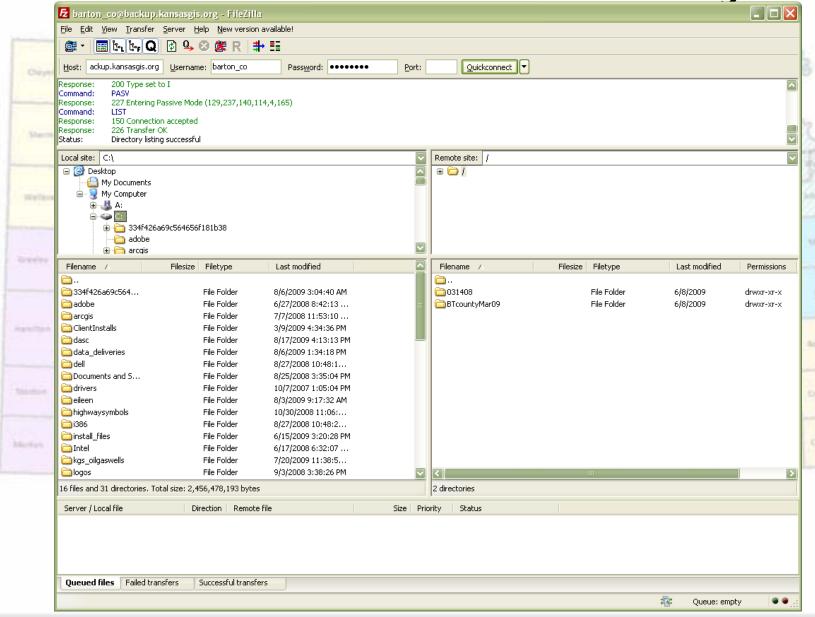
No metadata required for data backup (although it is encouraged!)

### Off-Site Backup

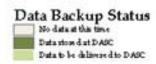


WWW.KANSASGIS.ORG

FileZilla – free FTP Utility

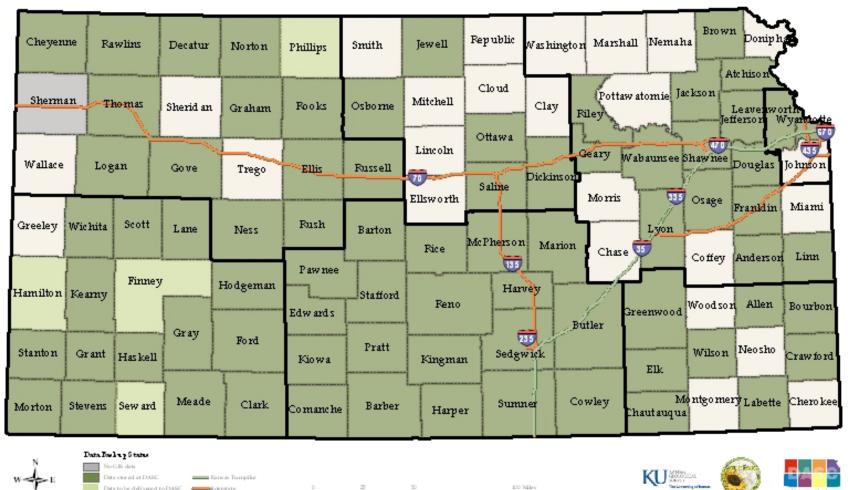


#### DASC GIS Data Backup Initiative County Status



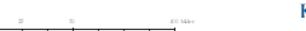


#### DASC GIS Data Backup Initiative County Status

















### 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

 3 Locations (Abilene, Salina, Beloit) Two Days Spinskil - Letter from the Regional Council Chair to each of the 12 counties 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



### Sub-Regional MVP Meetings

- Chairperson
  - Invite to the counties to 1 of the 4 meetings

SALPHARADE

Support Team can draft the letter

- Council Members
  - Participation
  - Spread the word!



# **GIS** Training





### **GPS Training**

3 Location (Salina, Beloit, Abilene)

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**

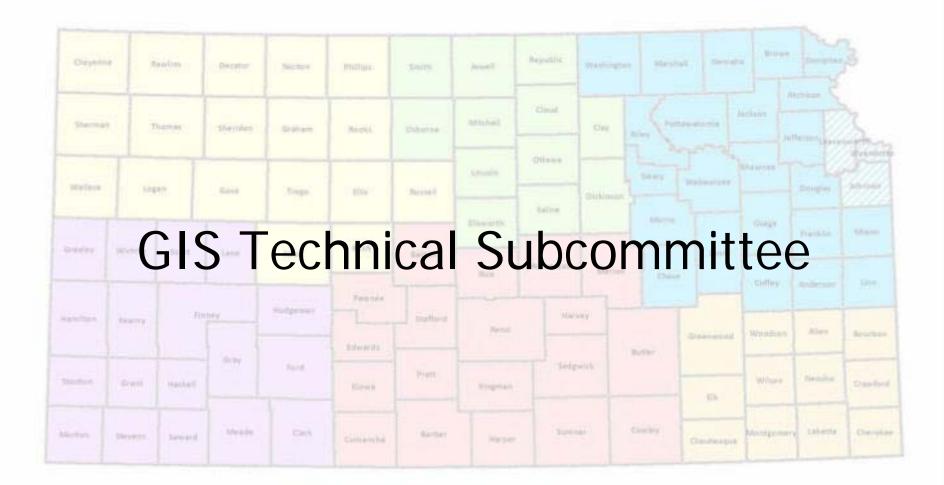
GPS Enabled Camera (Ricoh 500SE-B)

Shirtell

 $- \sim $1,300$  (with GIS extension software)

- External Hard Drive(s) 1 TB
  - **-~\$250**

- Flash Drives 8 GB
  - **-** ~\$65



# Regional GIS Technical Subcommittee

- Aid in gap analysis with the Support Team
- Provide recommendation on "filling" the gaps
- Provide guidance on data priority
- Provide guidance on equipment purchases

### GIS "Champions"





### 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

### Questions?

