Alabama Geographic Information Executive Council

Spencer Collier

Chairman

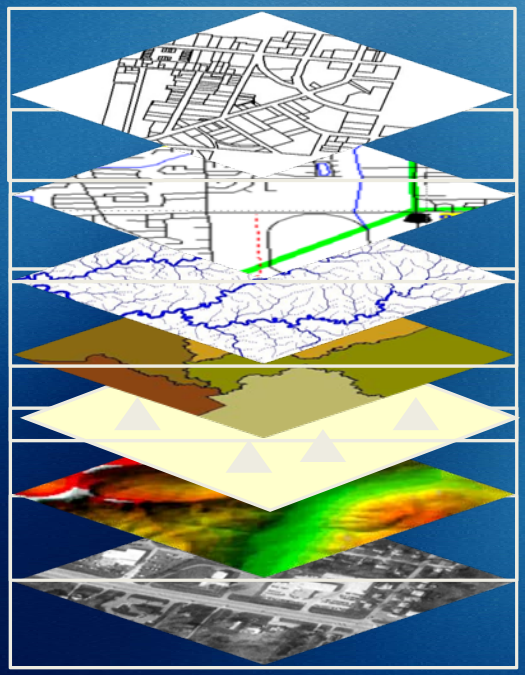
December 5, 2012

Agenda

- Welcome
- Introduction of Members and Guests
- Approval of June 19, 2012 Minutes
- GIS Advisory Committee/Subcommittees Update
- Statewide GIS Goals
- GIS Program Office Update
- NSGIC Meeting Update
- Other Business
- Next Meeting
- Adjourn

Imagery/LiDAR Subcommittee

- The Aerial Imagery Business Plan has been completed (Posted on the website gis.alabama.gov)



Land Ownership

Transportation

Surface Waters

Boundaries

Geodetic Control

Elevation

Aerial Imagery

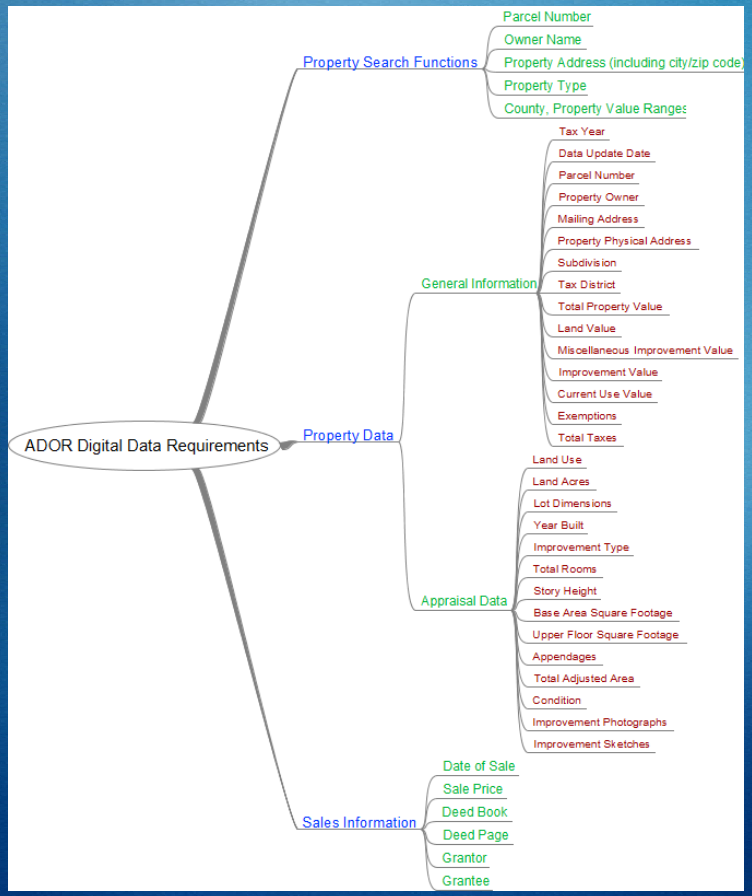
Imagery/LiDAR Subcommittee

- Objectives from Business Plan

1. Distribute USGS photography and LiDAR specifications for review to stakeholders
2. Modify existing ADOR Mapping Guidelines and Specifications to reflect the updated specifications
3. Outreach to Federal, State, and Local Governments to communicate the Business Plan … determine possible funding sources for future partnerships
4. Establish policies and strategies which emphasize cooperation and coordination at all levels of government and other stakeholders in order to maximize the cost efficiency
5. Develop acquisition plans for Imagery and LIDAR for the 2012-2013 flying season
6. Identify and develop funding sources for project implementation and long-term maintenance

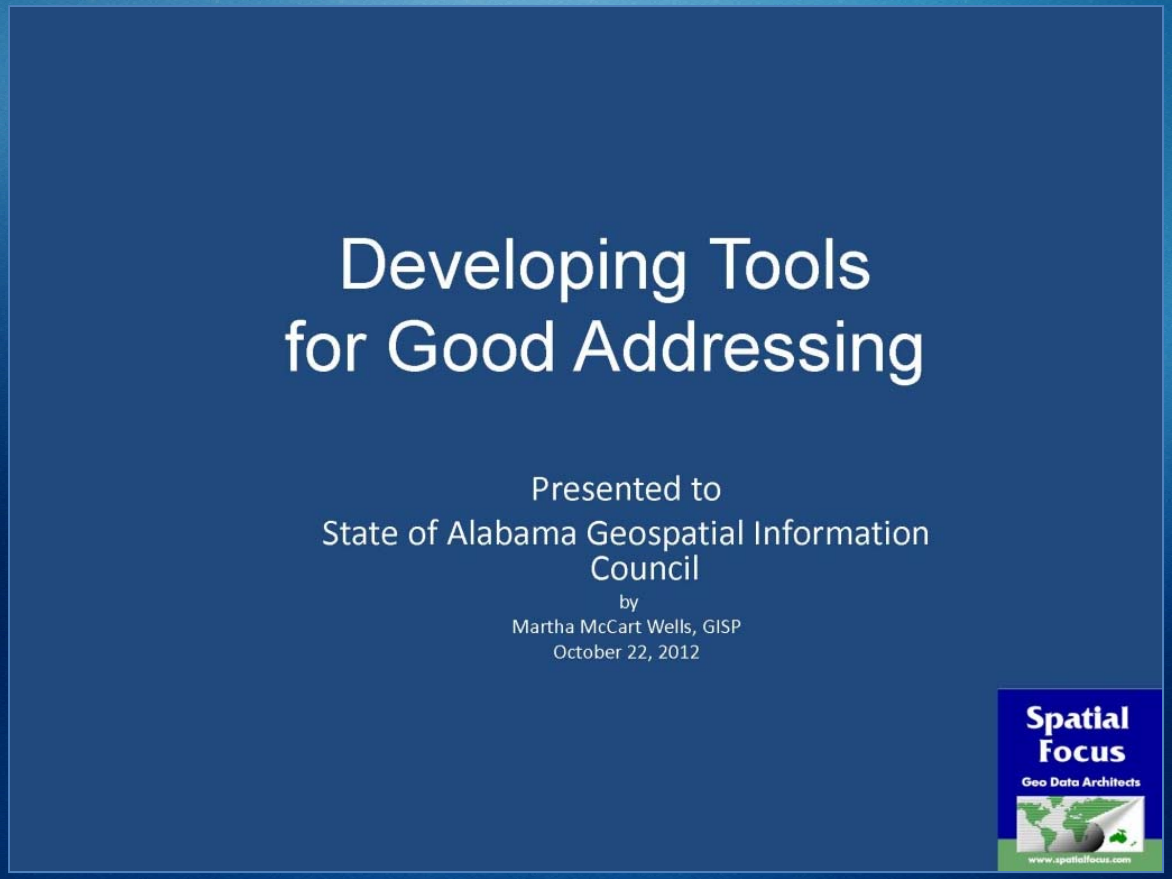
Data Subcommittee

- Concentrating activities on the goals of the GIS Executive Council
  - Working to develop standards from authoritative sources
    - Reviewing standards from Alabama Department of Revenue for Parcel Data Inventory



Data Subcommittee

- Addressing standards webinar with the nationally recognized NENA and FGDC expert Martha Wells
  - This is vital for geocoding and road centerlines



Data Subcommittee

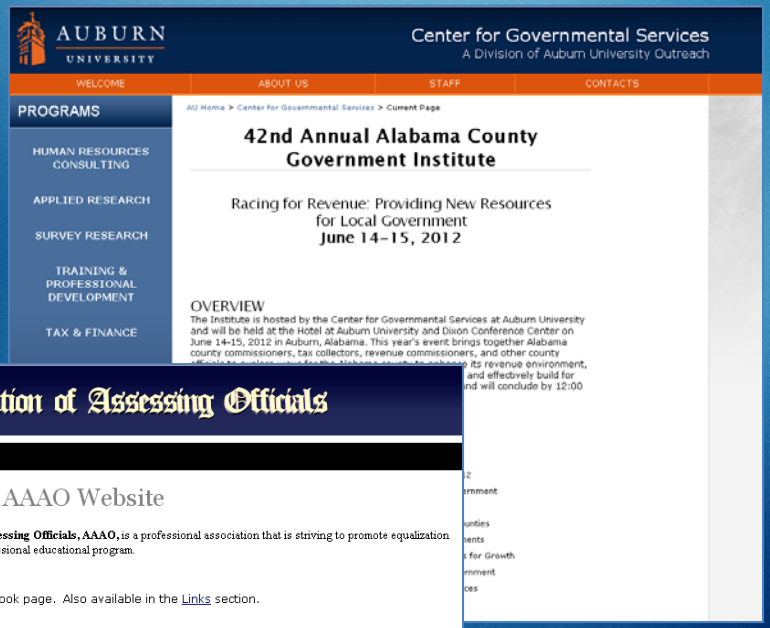
- Metadata questionnaire from the subcommittee is currently under review

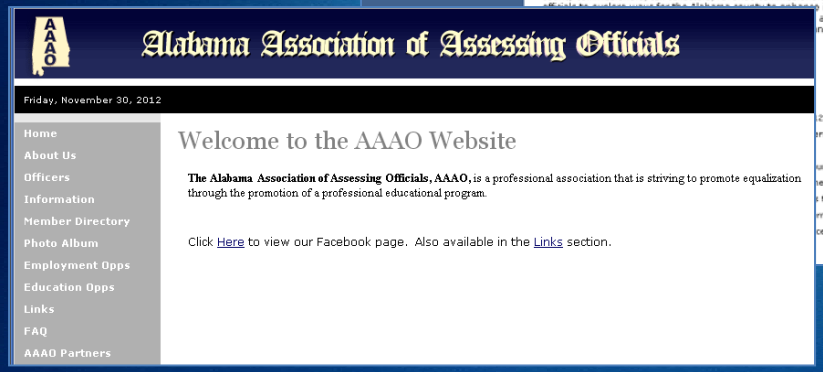
Metadata Questionnaire

1. Does your agency produce geospatial data that are shared with the public?
2. Is metadata written to accompany this data?
3. Does your agency produce geospatial data that are shared with other state agencies, but not meant for public release?
4. Is metadata written to accompany this data?
5. For metadata written, is FGDC format used, or another format?(note, this refers to the format/layout of the metadata itself, not theme-words and not file type such as .xml/.txt)
6. Are you yourself proficient in writing metadata?
7. For geospatial data your agency shares with the public, what five metadata fields are most important to include? (ex: Time_Period_of_Content, Abstract, Publication_Date, Keywords, Use_Constraints, Point_of_Contact, Process_Description, Spatial_Reference_Information, Entity_and_Attribute_Information, Distribution_Liability, etc.)
8. For geospatial data your agency shares with other agencies (but not public), what five metadata fields are most important to include?

Education & Outreach Subcommittee

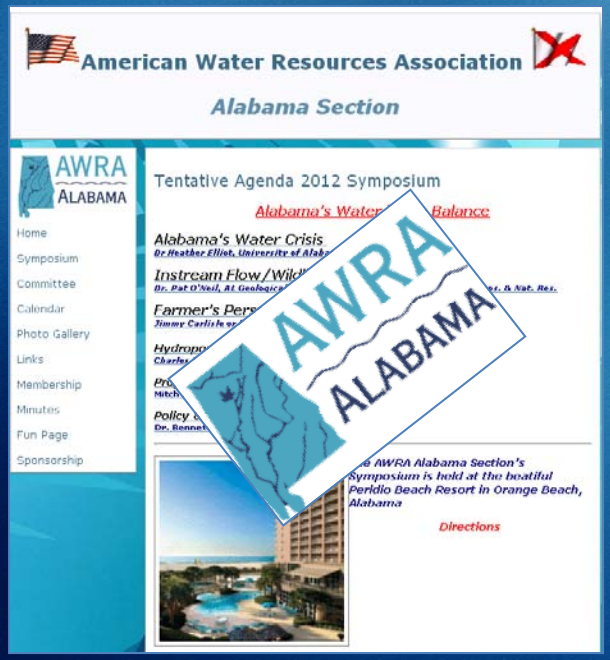
- Alabama County Government Institute's 42nd Annual Meeting (June 14-15)
- Alabama Association of Assessing Officials 31st Annual Summer Conference (August 13-17)





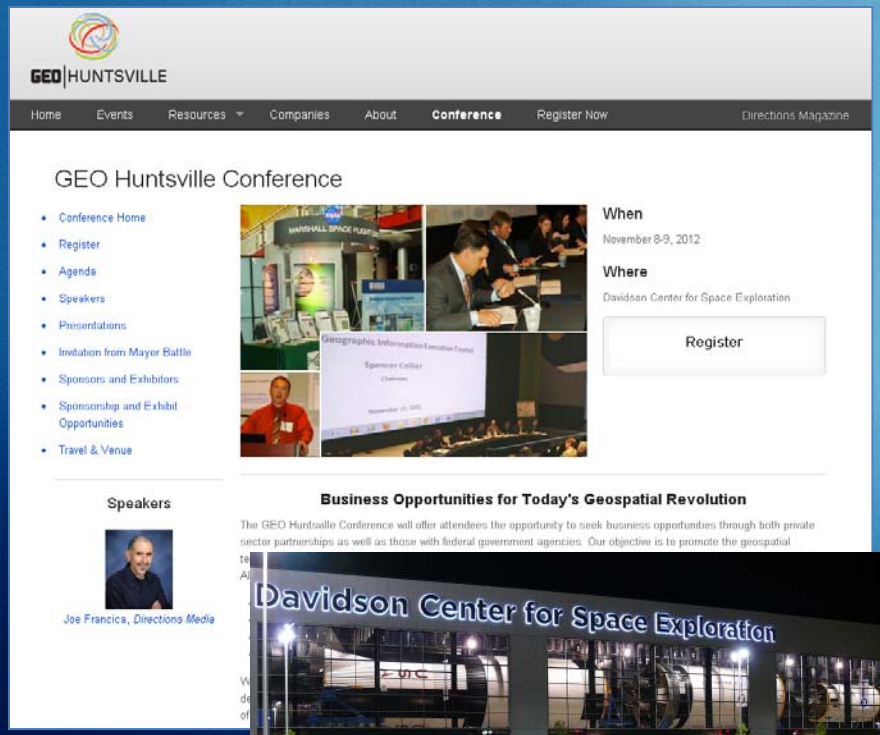
Education & Outreach Subcommittee

- 2012 Alabama Water Resources Conference (September 5-7)
- University of North Alabama Geography Alumni Conference (September 27 & 28)

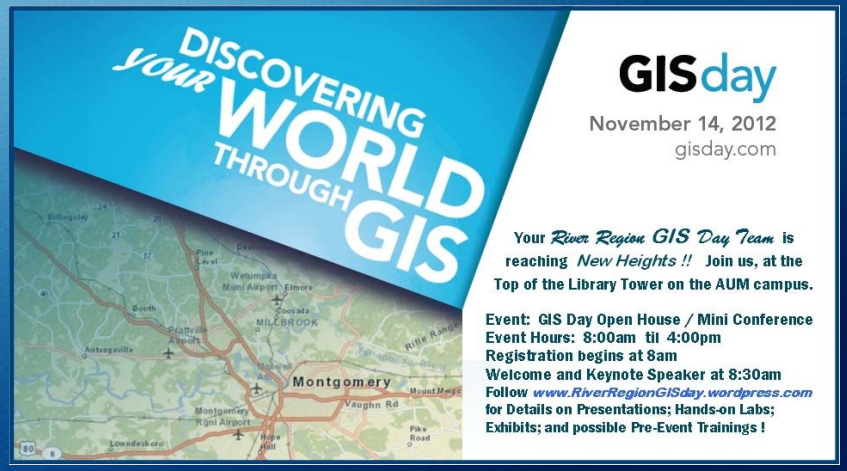


Education & Outreach Subcommittee

- GEO Huntsville Conference (formerly The Rocket City Geospatial Conference) (November 8 & 9)
- River Region GIS Day (November 13 & 14)



GEO|HUNTSVILLE

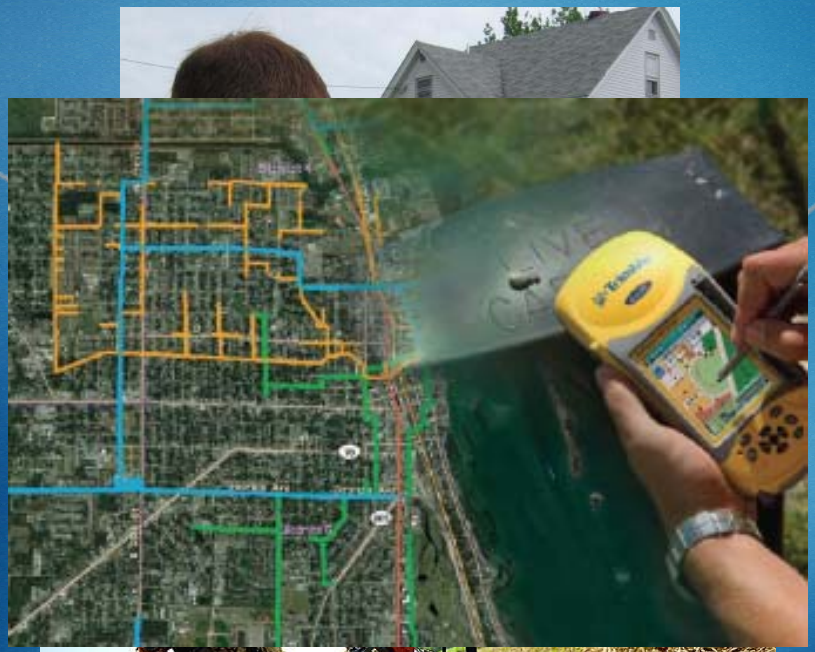


Education & Outreach Subcommittee

- Developing educational/informational brochures for outreach and display
- New opportunities for GIS education are currently under development

Communications Subcommittee

- Geospatial Preparedness Corps/GIS Response Team (GPC/GISRT)



GIS Emergency Management Implementation Plan

The Indiana Counter-Terrorism and Security Council

Communications Subcommittee

- Geospatial Preparedness Corps/GIS Response Team (GPC/GISRT)

  Statewide network of response individuals and organizations

  Vision:

  - Identity critical capabilities and vulnerabilities
  - Enhancing accessibility
  - Delineate all hazards, response, and assessment considerations
  - Create a network for professional exchange and access to technical expertise
  - Encourage interactions and collaborative initiatives
  - Promote the standardization of methods
  - Identify methods to engage new partnerships and new energy in the area of deployable GIS response resources

Executive Council Statewide GIS Goals

- Inventory GIS data, applications, & services
- Leverage pooled resources
- Avoid unnecessary cost & duplication of effort
- Improve decision-support for statewide issues
- Establish statewide data standards to improve coordination

Executive Council Statewide GIS

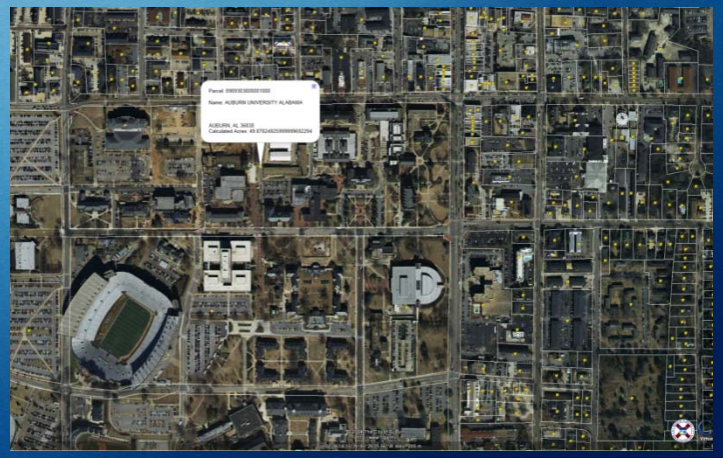
Coordinated Framework Data Layers

- For 2012
  - Aerial Imagery
  - Parcel Data
  - Road Centerlines
  - Geocoded Addresses

GIS Program Office Update

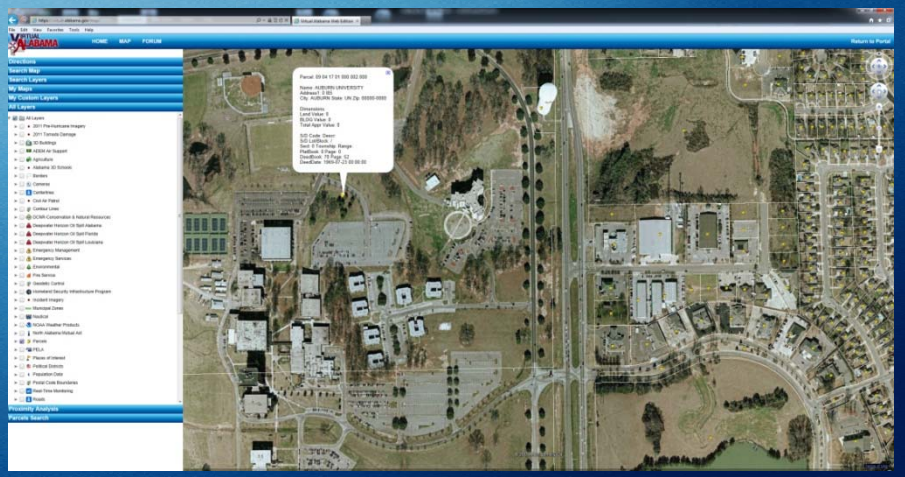
Aerial Imagery

- Imagery Business Plan is a living document (gis.alabama.gov)
  - 20 counties of imagery updated in Virtual Alabama
    - 3 counties in process
  - NAIP CIR in the process of loading
  - NAIP for neighboring states
  - LiDAR for 20 counties



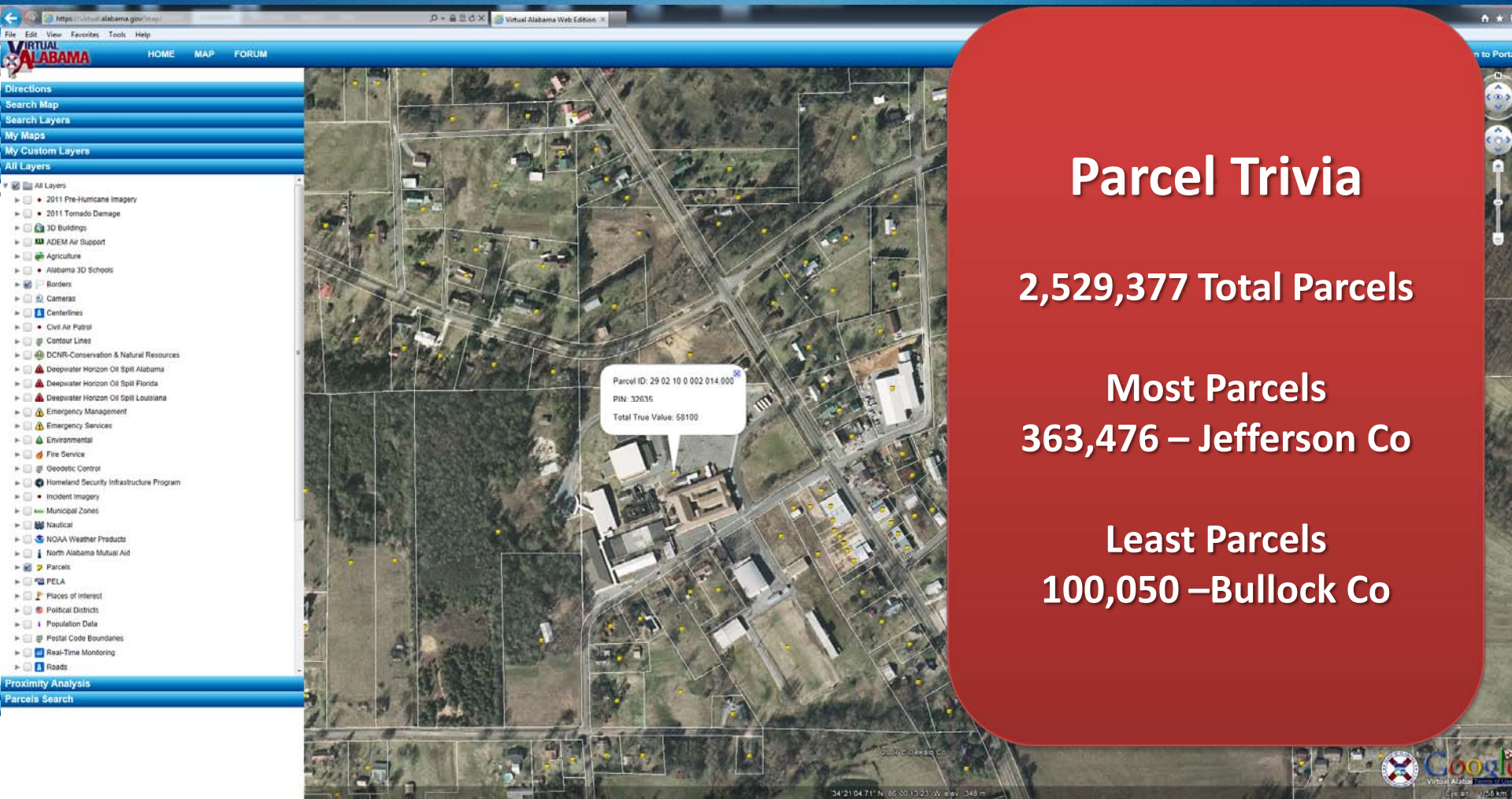
Parcel Data

- Virtual Alabama currently has 47 counties available
  - Acquisition of other counties underway
- Web map services under development
- Mechanism for routine updates are being explored



Parcels

47 Counties Contribute Parcel Data



Parcel Trivia

2,529,377 Total Parcels

Most Parcels
363,476 – Jefferson Co

Least Parcels
100,050 –Bullock Co

Road Centerlines

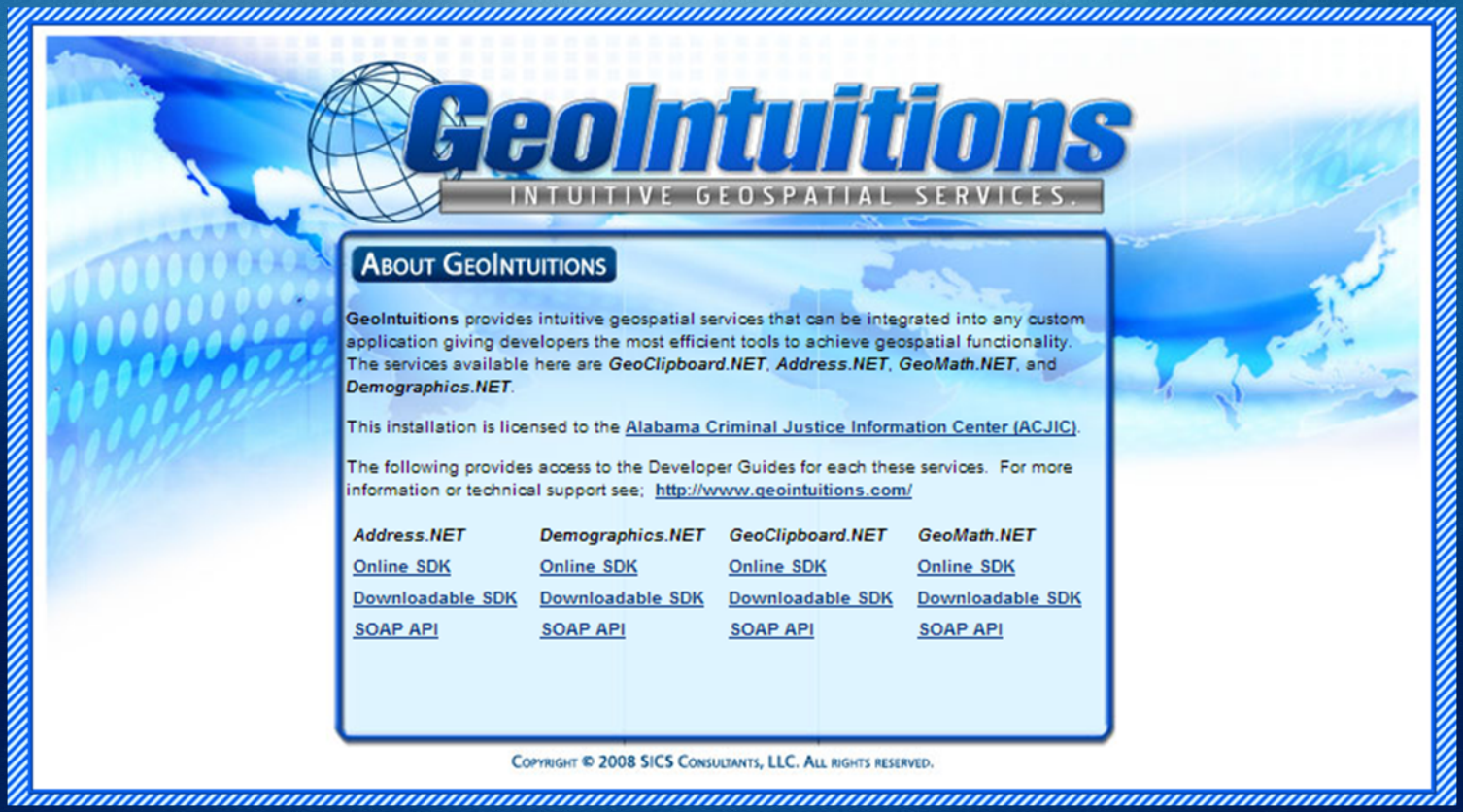
- Virtual Alabama currently has NAVTEQ road centerlines
- ALDOT will be delivering statewide coverage of road centerlines
  - State routes (includes Interstates and US routes)
  - County routes

Geocoded Addresses

- Virtual Alabama has a geocoder for addresses which is called GEOIntuitions
  - 1.29 million Alabama addresses identified
  - Address normalization
    - US Postal Service Database
  - Tiered geocoding architecture

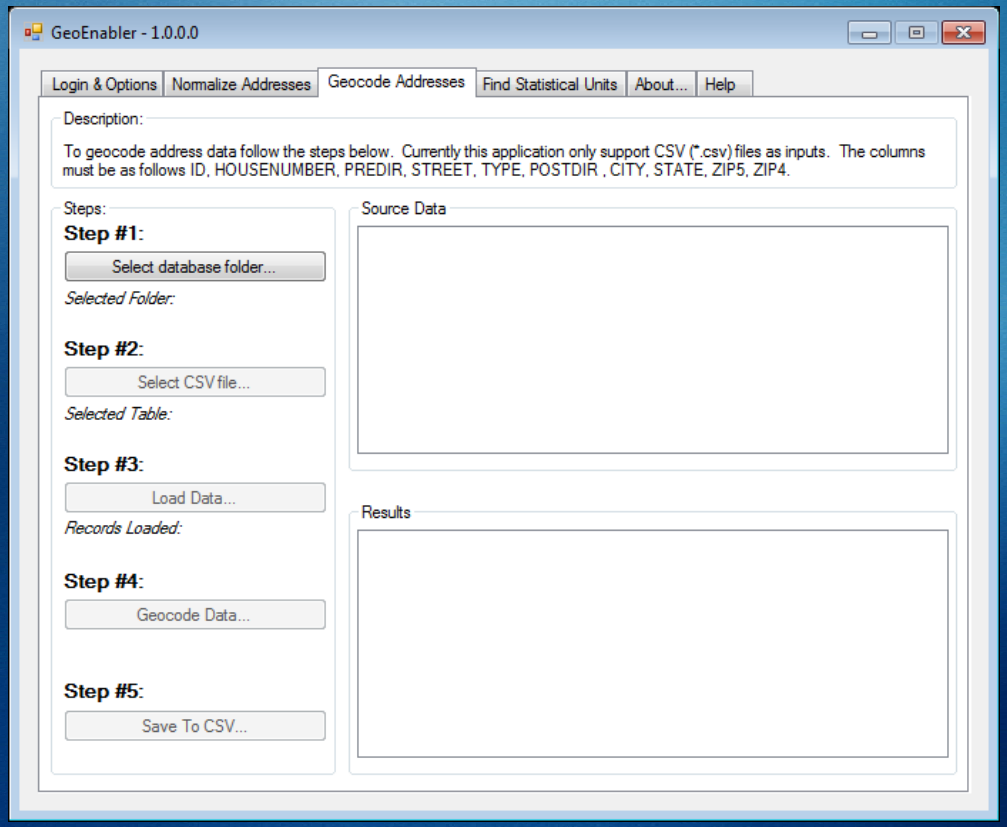
Geocoded Addresses

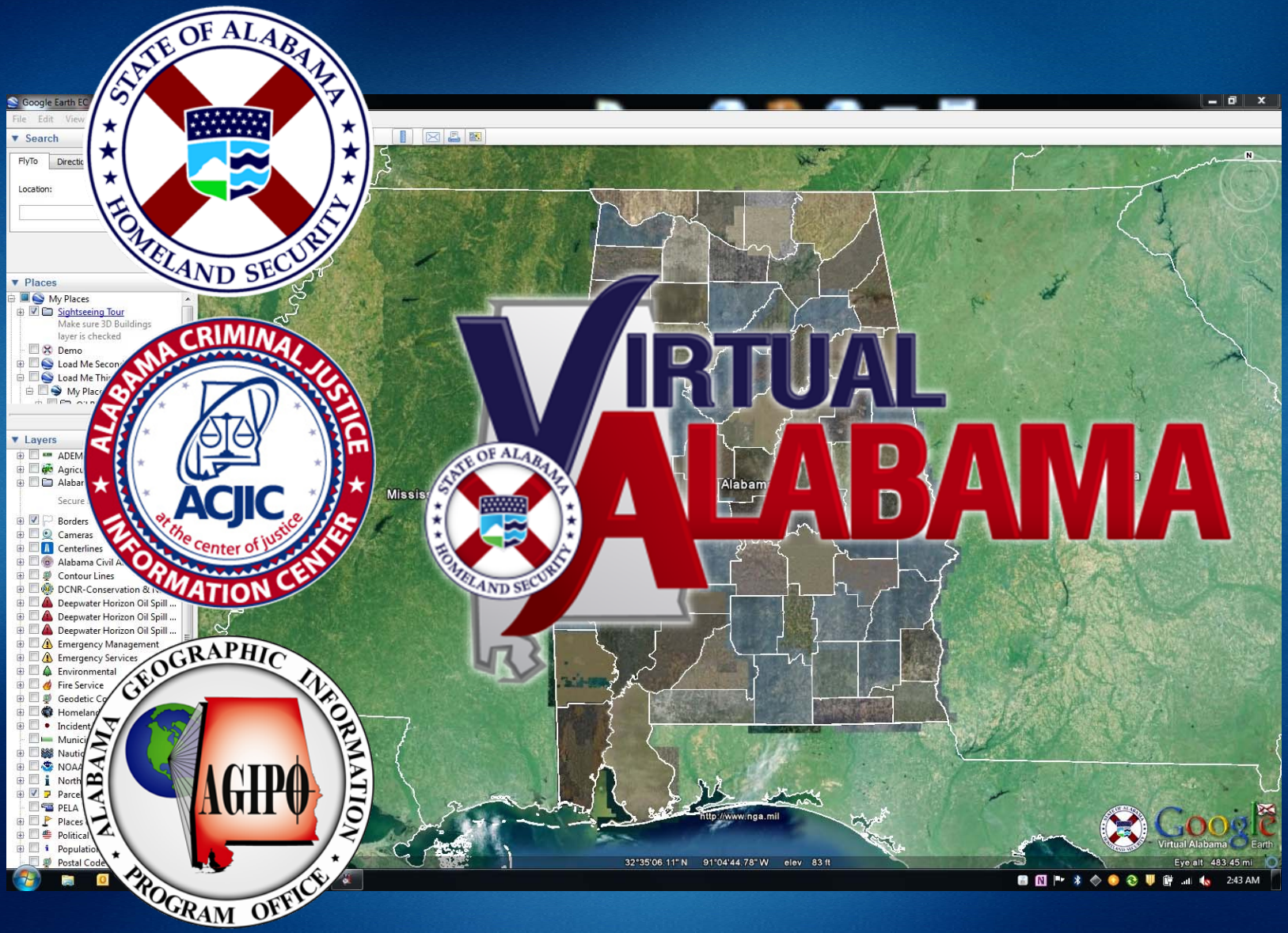
- In production with the ULTRA Incident and Offense Database and the Sex Offender Database



Geocoded Addresses

- GeoEnabler is under development to provide geocoding to Virtual Alabama users

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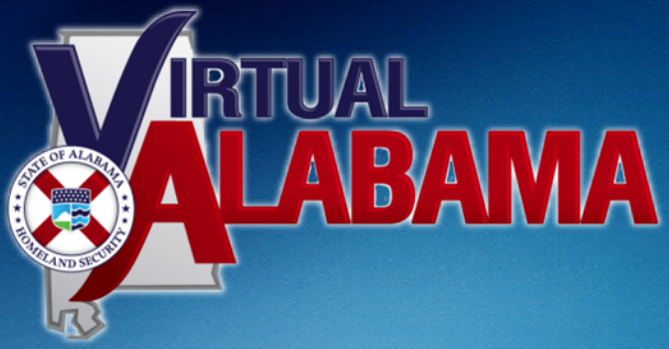
HOMELAND SECURITY
ALABAMA CRIMINAL JUSTICE
INFORMATION CENTER
ACJIC
at the center of justice
ALABAMA GEOGRAPHIC INFORMATION
PROGRAM OFFICE
AGIPO
VIRTUAL
ALABAMA
Google Earth EC
File Edit View
Search
FlyTo
Location:
Places
My Places
Sightseeing Tour
Make sure 3D Buildings layer is checked
Demo
Layers
Borders
Cameras
Centerlines
Contour Lines
Deepwater Horizon Oil Spill ...
Emergency Management
Emergency Services
Environmental
Fire Service
Incident
Places
Political
Postal Code
http://www.nga.mil
32°35'06.11" N 91°04'44.78" W elev 83 ft
Eye alt 483.45 mi
Google Earth
Virtual Alabama
2:43 AM



32,160

Total Users

150

Average Users Daily

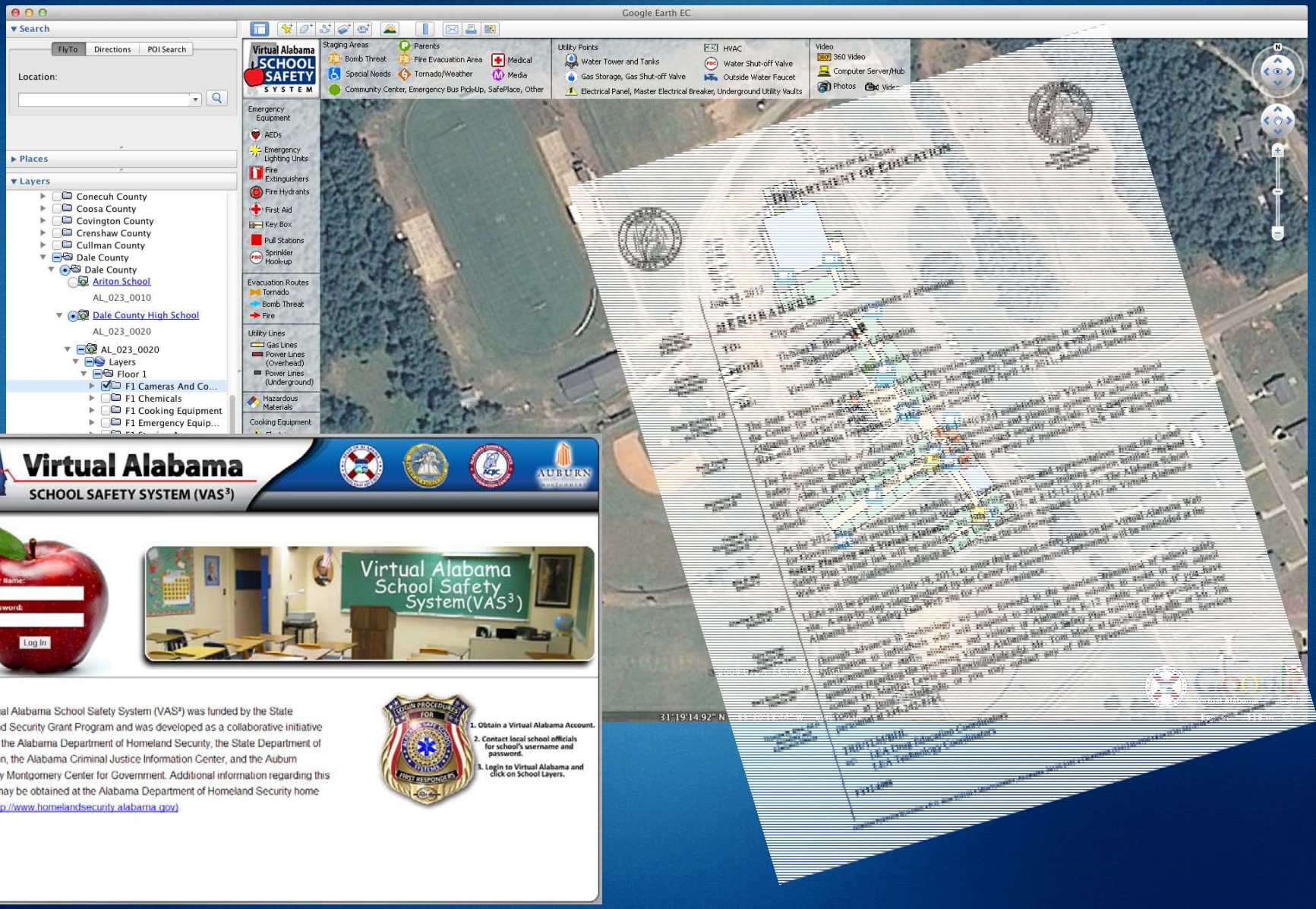
1,500

Government Agencies

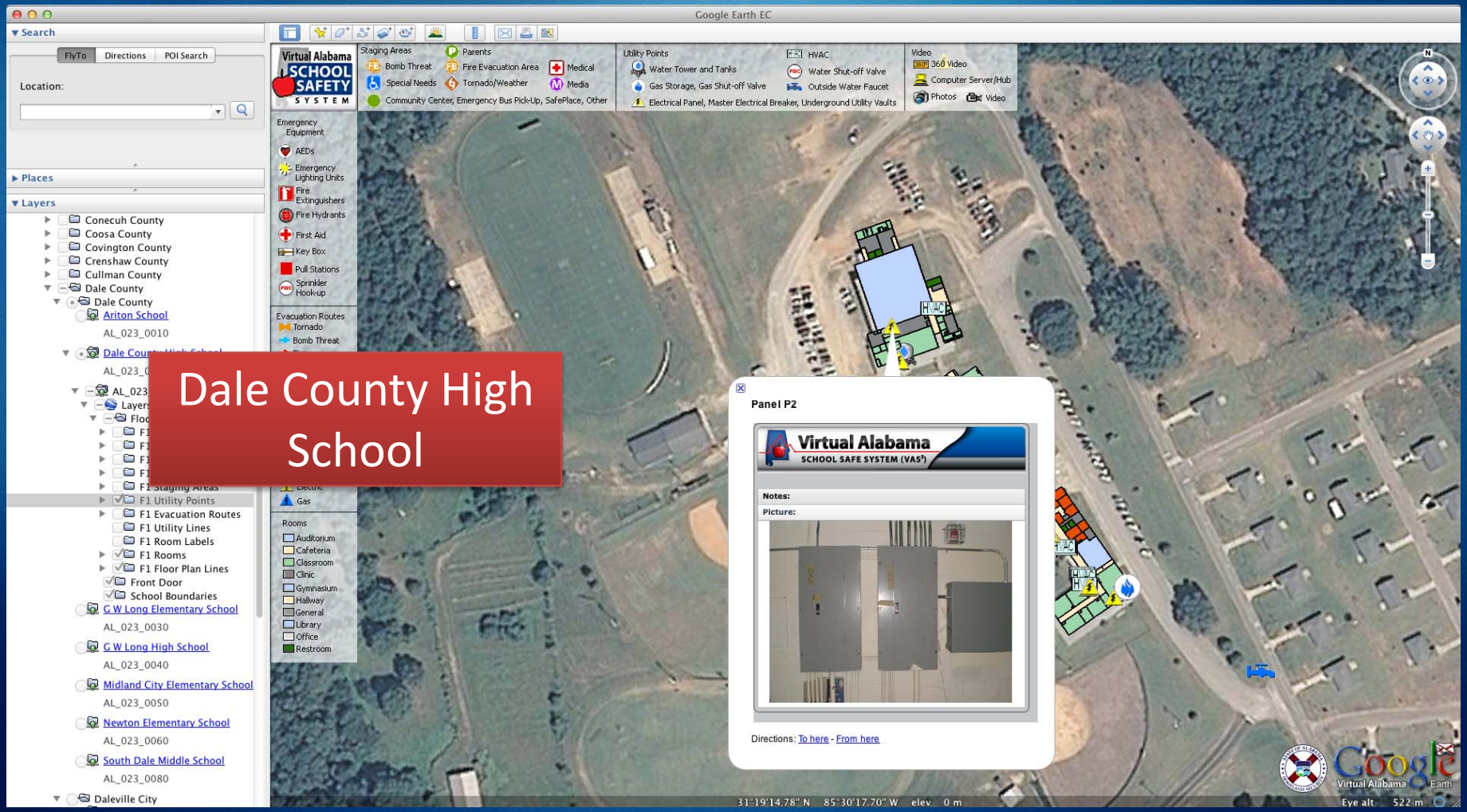
>11,000,000

Average Monthly Hits

Virtual Alabama School Safety System



Approximately 1200 Schools Entered



Virtual Alabama School Safety System

VIRTUAL ALABAMA

- Emergency Management Magazine Webinar
- Webinar for the Governor's Office of the State of New York

Management Association for Private Photogrammetric Surveyors (MAPPS) forms the Alabama Chapter & The Atlantic Group (TAG)

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MAPPS
An Association of Photogrammetry, Mapping, and Geospatial Firms

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2013 MAPPS Winter Conference Registration

3/12/2013 » 3/13/2013
2013 Federal Programs Conference

7/22/2013 » 7/26/2013
2013 MAPPS Summer Conference

2/9/2014 » 2/13/2014
2014 MAPPS Winter Conference

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MAPPS ANNOUNCES FORMATION OF STATE CHAPTER IN ALABAMA AT GEO HUNTSVILLE CONFERENCE

Friday, November 09, 2012 (0 Comments)
Posted by: Nick Palatiello
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An Alabama state chapter of MAPPS, the association of private sector geospatial firms, was announced today at the GEO Huntsville conference in Huntsville, AL.

"Following the momentum of this conference, and recognizing the significant cluster of geospatial firms and organizations in Huntsville and the State of Alabama, the establishment of AL-MAPPS is natural to leverage that synergy for further business growth," said Jeff Lower, MAPPS President-Elect, Magnolia River Services, Inc. during a presentation at the conference.

A number of principals of MAPPS member firms based in or with employees or offices in Alabama gathered on September 26 at the offices of Magnolia River Services, Inc. in Huntsville, AL for an "interest meeting" to discuss the establishment of a MAPPS chapter in Alabama.

A task force developed bylaws, established an initial Board of Directors, and organized the launch of the chapter at GEO-Huntsville.

The initial Board of Directors will be Dale Jobes, Magnolia River Services, Inc. (Huntsville, AL), Antonio Montoya, AeroMetric (Madison, AL), Scott Beard, Wiser Company (Birmingham, AL), George Jones, ISC (Huntsville, AL), and Aaron Morris, GISP Michael Baker Jr., Inc. (Ridgeland, MS).

"The growth of the MAPPS chapter program is a recognition by the membership of the unique synergy of firms at the national level that can be replicated in the states," said MAPPS President Dick McDonald, PLS, CP (T3 Global Strategies, Bridgeville, PA). "Working together through a state chapter these member firms will be able to grow their business, raise awareness of the important role of geospatial technologies play in our society and affect public policy at the state and local level."

Chapter dues will be just $250 per firm. In order to be a member of AL-MAPPS, a firm must be a member of the MAPPS national association. For more information, visit www.mapps.org.

About MAPPS

Formed in 1982, MAPPS is the only national association exclusively comprised of private firms in the remote sensing, spatial data and geographic information systems field in the United States. The MAPPS membership spans the entire spectrum of the geospatial community, including Member Firms engaged in satellite and airborne remote sensing, surveying, photogrammetry, aerial photography, LIDAR, hydrography, bathymetry, charting, aerial and satellite image processing, GPS, and GIS data collection and conversion services. MAPPS also includes Associate Member Firms, which are companies that provide hardware, software, products and services to the

THE ATLANTIC GROUP, LLC
Remote Sensing and Land Information Solutions

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OUR SERVICES

- Aerial Photography
- Multispectral (DMC) Imagery Acquisition and Processing
- LiDAR Data Acquisition and Processing
- Fully Analytical Aerial Triangulation
- DEM and Contour Generation (from imagery and/or LiDAR)
- Digital Orthophotography
- Planimetric Mapping
- Digital Stereo Compilation

ATLANTIC GROUP is a technology centered small business with the management, acquisition and processing capabilities of a large firm. Atlantic specializes in providing quality aerial data acquisition and land information solutions to both government (federal, state and local) and private sector clients.

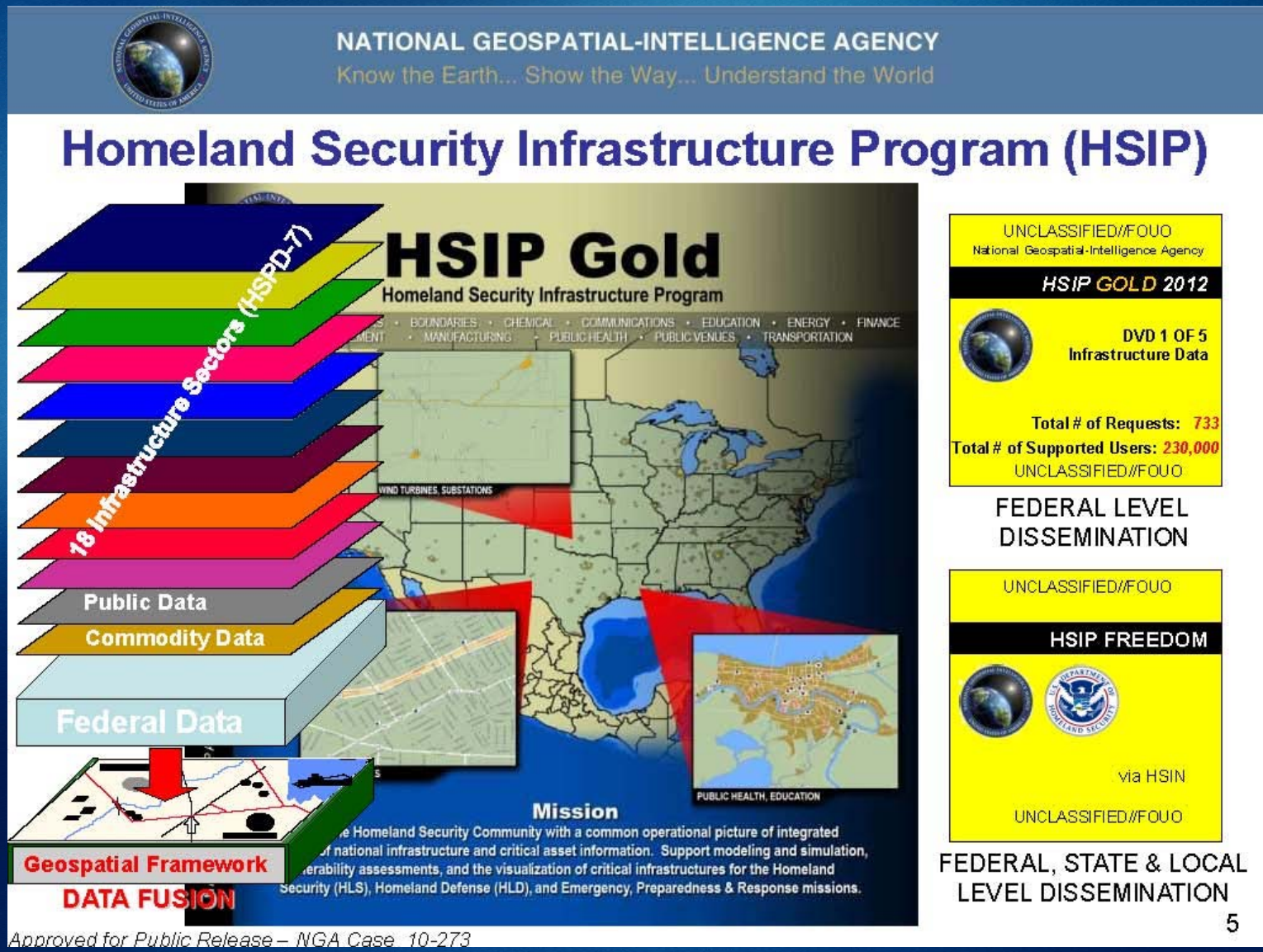
There's No Substitute For Experience

An experienced team of mapping and GIS professionals, Atlantic has rapidly grown to become an industry leader in remote sensing and aerial mapping. Our investment in superior technology, combined with an in-house team of remote sensing and aerial mapping experts, makes Atlantic uniquely positioned to support even the most challenging of data acquisition and update mapping projects.

The Atlantic Group Philosophy

Provide data for your immediate mapping and GIS challenge and become a valued resource: a partner for our customers that will rapidly, accurately, and consistently apply the right technology to achieve superior land information solutions.

Homeland Security Infrastructure Program



Homeland Security Infrastructure Program

NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY

Know the Earth... Show the Way... Understand the World

Homeland Security Infrastructure Program (HSIP) Mission Statement

To aggressively capture, integrate and provide the Homeland Security, Homeland Defense and Emergency Preparedness, Response and Recovery community with ***common operational geospatially enabled baseline data*** - create a user defined operational picture to analyze threat, support critical infrastructure protection and expedite readiness, response and recovery in the event of a man-made or natural disaster.

Homeland Security Infrastructure Program

NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY

Know the Earth... Show the Way... Understand the World

Government Data Providers

U.S. Department of Agriculture (USDA)
- Forest Service

U.S. Department of Commerce (DOC)
- U.S. Census Bureau
- National Oceanic and Atmospheric Administration (NOAA)

U.S. Department of Defense (DoD)
- National Geospatial-Intelligence Agency (NGA)
- Defense Installation Spatial Data Infrastructure (DISDI)
- Defense Contract Management Agency (DCMA)
- U.S. Army
- U.S. Army Corps of Engineers (USACE)
- National Guard Bureau (NGB)
- Air National Guard (ANG)
- Army National Guard (ARNG)

U.S. Department of Energy (DOE)
- Office of Energy Efficiency & Renewable Energy
- National Renewable Energy Lab (NREL)
- Office of Science
- Oak Ridge National Laboratory (ORNL)

U.S. Department of Health & Human Services (HHS)

State/Local

U.S. Department of Homeland Security (DHS)
- Federal Emergency Management Agency (FEMA)
- U.S. Coast Guard (USCG)
- U.S. Customs and Border Protection (CBP)
- Office of the Border Patrol

U.S. Department of the Interior (DOI)
- Bureau of Indian Affairs (BIA)

U.S. Fish and Wildlife Service
- U.S. Geological Survey (USGS)
- National Park Service

U.S. Department of Transportation (DOT)
- Federal Aviation Administration (FAA)
- Federal Railroad Administration (FRA)
- Bureau of Transportation Statistics

U.S. Department of Veterans Affairs (VA)

U.S. Environmental Protection Agency (EPA)

U.S. General Services Administration (GSA)

U.S. Nuclear Regulatory Commission (NRC)

U.S. Postal Service (USPS)

Federal Communications Commission (FCC)

Federal Deposit Insurance Corporation (FDIC)

National Credit Union Administration (NCUA)

Non-Governmental Organizations
- American Red Cross (ARC)
- Geospatial Multi-Agency Coordination

Homeland Security Infrastructure Program

Data	What is it?	Who can access it?	How can I access it?	What do I need?
HSIP Gold 	A compilation of Common Operational Geospatially Enabled Base-Line Data to support to Homeland Security, Homeland Defense and National Preparedness – Prevention, Protection, Mitigation, Response and Recovery mission communities. Data is U//FOUO.	**Federal Government** Agencies.	Request DVD set on **HIFLD site** at https://www.hifldwg.org/hsip-overview. *Requests handled by NGA.* *Data is in vector format, organized in geodatabases.*	HIFLD account. http://www.hifldwg.org/ *(Government sponsor information is required for anyone who is not a federal, state or local government employee.)*
		State and Local Government Agencies **sponsored by FEMA** with a **Presidential Disaster or Emergency Declaration.**		HIFLD account. http://www.hifldwg.org/ **FEMA Sponsor** Presidential Declaration # http://www.fema.gov/news/disasters.fema
		All Federal, State, Local, Tribal and Territorial Government Agencies and **Private Sector Partners can view when served by a password protected Federal System.**	Access via Map Services on the **DHS Geospatial Information Infrastructure (GII)** at https://gii.dhs.gov/ *"GII Services" for WMS, REST, SOAP, API or KML.* *"DHS Earth" for Google Earth KML file.* *"OneView" for web-based analytic viewer.*	**HSIN account.** https://government.hsin.gov/default.aspx *(No specific Community of Interest (COI) required).* *(Government sponsor information is required for anyone who is not a federal, state or local government employee.)*
HSIP Freedom 	Subset of HSIP Gold data that is license-free and does not include the commodity data. Data is U//FOUO.	**Federal, State, Local, Tribal and Territorial** Government Agencies and **Private Sector Partners.**	Download from **HSIN GIS Portal - HSIP Freedom Site** (instructions online) *Requests handled by DHS.* *Data is in vector format, organized in geodatabases.*	**HSIN account** with membership to the **GIS Community of Interest (COI).** https://government.hsin.gov/sites/gis/RDC.aspx *(Government sponsor information is required for anyone who is not a federal, state or local government employee.)*
HSIP NAVTEQ State Release 	The HSIP-NAVTEQ data uplifted by NGA is also a subset of HSIP Gold and includes street data, points of interest data, and route analysis. Data is U//FOUO.	State **Fusion Centers**, State Emergency Operation Centers (**EOC**), State **GIS Coordinators**, and State **Emergency Management** Coordinators.	Request DVD set on **HIFLD site** at https://www.hifldwg.org/navteq *Data is in Smart Data Compression (SDC) format.*	HIFLD account. http://www.hifldwg.org/

Introduction to GIS Training

ALABAMA
GEOGRAPHIC INFORMATION
PROGRAM OFFICE

ROBERT BENTLEY
GOVERNOR

PHILLIP HENDERSON
DIRECTOR

Introduction to GIS

Prerequisites
A basic understanding of computer hardware and Microsoft Windows operating systems.

Description
This one-day seminar is designed to give participants an overview of the State of Alabama GIS Executive Council and Program Office, to inform participants about Virtual Alabama and to introduce participants to Geographic Information Systems (GIS). Geographic Information Systems provide a variety of tools and technology to unearth and explain relationships, patterns, occurrences, and coincidence of spatially distributed features, objects, and information. Whether you know it or not, GIS impacts your daily life in many ways. The tools GIS offers enable business professionals to identify market areas, law enforcement officials to map and predict where crime is likely to occur, emergency management agencies to plan effective rescue and evacuation strategies in advance of disasters, and city, county, or state agencies to formulate and execute developmental plans in response to future growth trends as well as manage utilities, geo-spatial assets and parcel data. Topics covered in this seminar include GIS history and geospatial concepts, GIS computer operations, and map-making. Participants will gain hands-on experience with the world's leading GIS software, ESRI ArcGIS and Intergraph GeoMedia Professional. In addition, you will work with Global Positioning Systems (GPS) and gain an understanding of how GIS and GPS are combined to solve modern-day geospatial problems as well as provide insight into historical events. A portion of the seminar will touch on the latest 3D and 4D GIS technologies.

Seminar Topics
- What is GIS and how is it used?
- How is GIS governed in Alabama?
- What is Virtual Alabama and how is it a common operating picture?
- Hands-On Session, ESRI ArcGIS 10.1.
- Cartographic Concepts, Map Types, and Computer Cartography, ESRI ArcGIS 10.1.
- Data Types, Data Storage: Building Relational Databases, ESRI ArcGIS 10.1.
- Working with Images and Digitizing Features, ESRI Arc GIS 10.1.
- Overview and Hands-On with Intergraph GeoMedia Professional.
- Remote Sensing, GPS and 3D GIS.

Seminar Leaders
- Dr. Terry Winemiller
- Dr. Steve McKinney
- Phillip Henderson

401 ADAMS AVENUE - SUITE 460 - P.O. BOX 5690 - MONTGOMERY, ALABAMA 36103-5690 - (334) 353-1038

NSGIC Meeting Update

- NSGIC Wants National Data Programs
  - Collect data once for all levels of government
  - Nation-wide data should be created for multiple users
- Revise and Refocus Federal Data Programs
  - For the Nation Initiatives (Addresses, Transportation, Imagery, Elevation)
  - Allow local buy-ups within federal programs

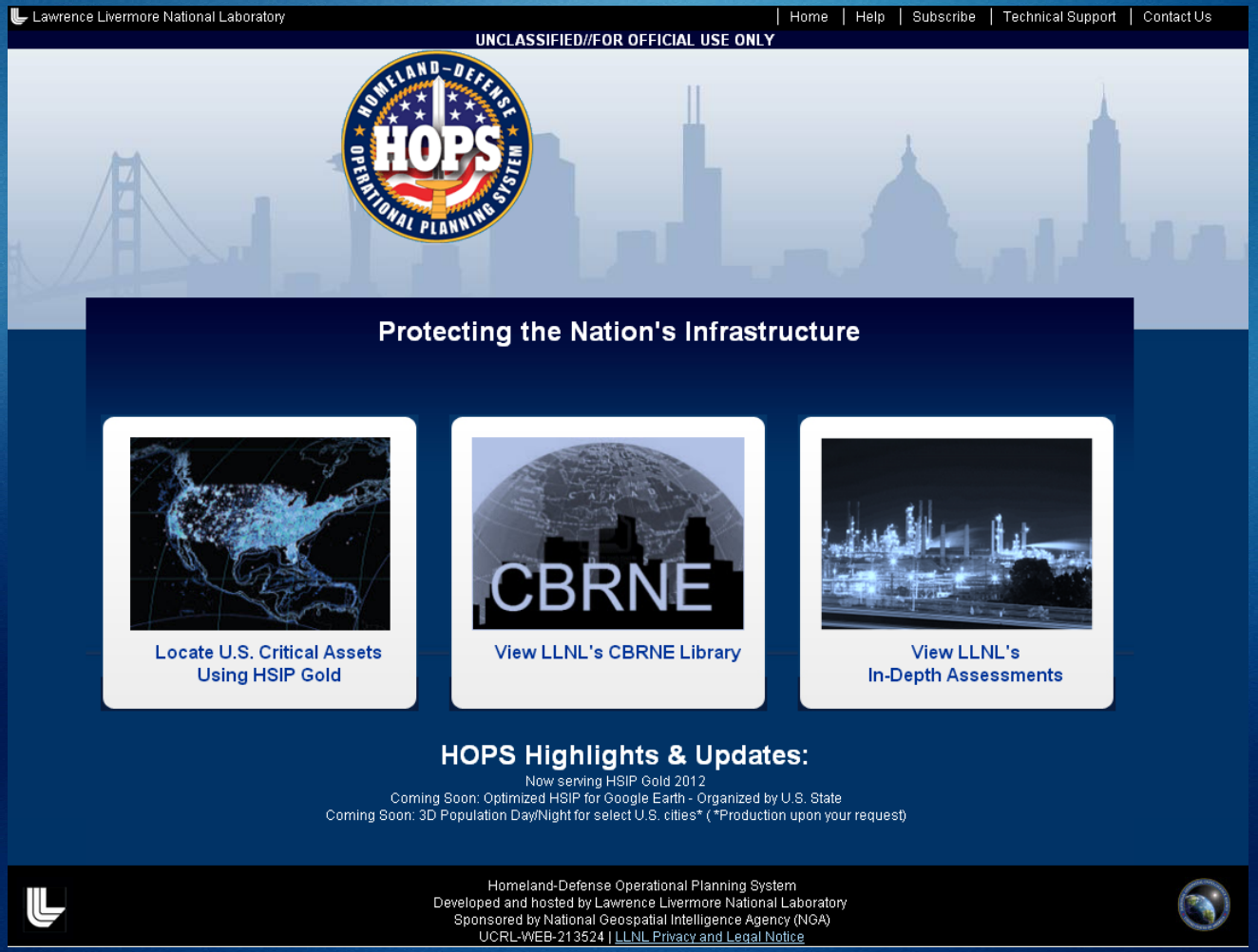
NSGIC Meeting Update

- Federal and State Governments Need to Work together
  - Federal agencies should develop the standards to support the integration of local data to state and national levels
  - Federal data collection should include cooperative options for state and local buy-ups
  - Federal agencies should notify states of upcoming data collection activities
  - Federal agencies should notify states of pending grants and contract programs
  - Federal programs should be coordinated across federal agencies
  - States should be contracted to develop national data programs

Virtual USA Development Team

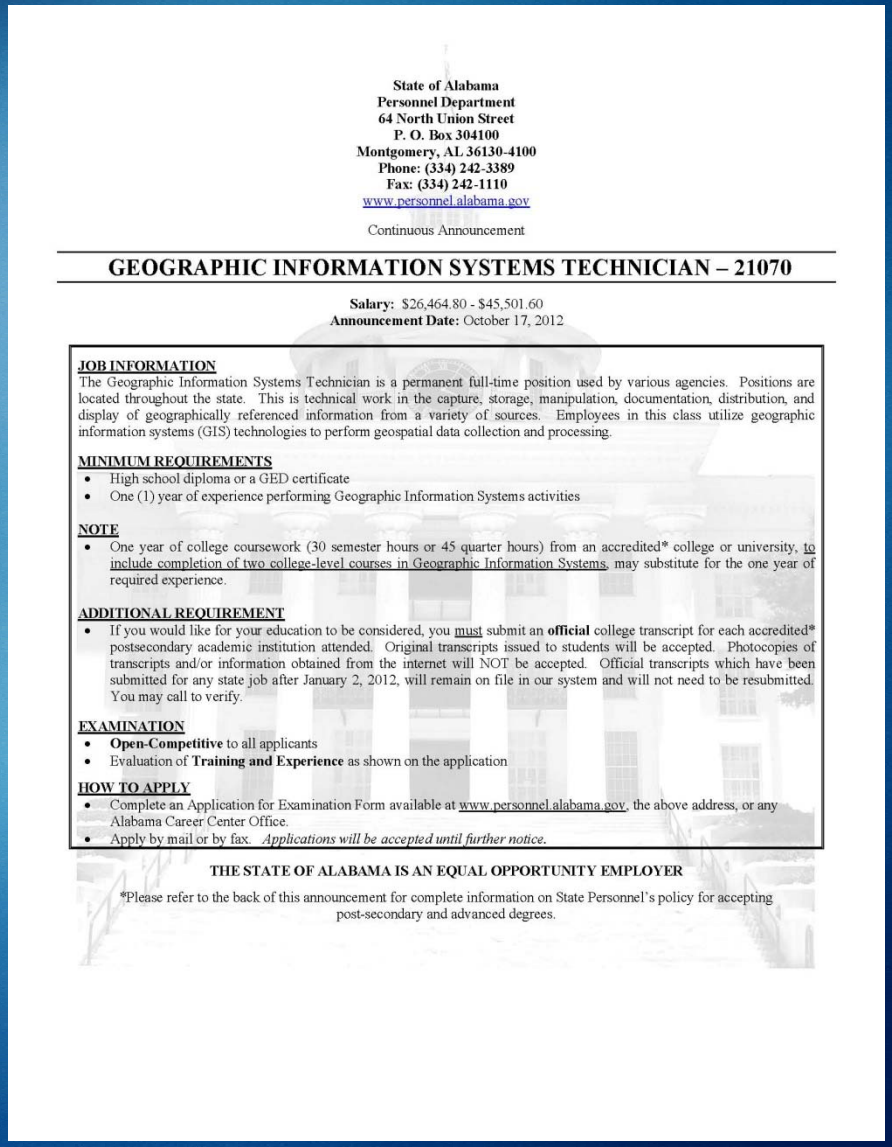
National Information Sharing Consortium

Homeland-Defense Operational Planning System



GIS Technician Classification

Examination announced by State Personnel October 17, 2012



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Montgomery, AL 36130-4100
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Continuous Announcement

GEOGRAPHIC INFORMATION SYSTEMS TECHNICIAN – 21070

Salary: $26,464.80 - $45,501.60
Announcement Date: October 17, 2012

JOB INFORMATION

The Geographic Information Systems Technician is a permanent full-time position used by various agencies. Positions are located throughout the state. This is technical work in the capture, storage, manipulation, documentation, distribution, and display of geographically referenced information from a variety of sources. Employees in this class utilize geographic information systems (GIS) technologies to perform geospatial data collection and processing.

MINIMUM REQUIREMENTS

- High school diploma or a GED certificate
- One (1) year of experience performing Geographic Information Systems activities

NOTE

- One year of college coursework (30 semester hours or 45 quarter hours) from an accredited* college or university, to include completion of two college-level courses in Geographic Information Systems, may substitute for the one year of required experience.

ADDITIONAL REQUIREMENT

- If you would like for your education to be considered, you must submit an **official** college transcript for each accredited* postsecondary academic institution attended. Original transcripts issued to students will be accepted. Photocopies of transcripts and/or information obtained from the internet will NOT be accepted. Official transcripts which have been submitted for any state job after January 2, 2012, will remain on file in our system and will not need to be resubmitted. You may call to verify.

EXAMINATION

- **Open-Competitive** to all applicants
- Evaluation of **Training and Experience** as shown on the application

HOW TO APPLY

- Complete an Application for Examination Form available at www.personnel.alabama.gov, the above address, or any Alabama Career Center Office.
- Apply by mail or by fax. *Applications will be accepted until further notice.*

THE STATE OF ALABAMA IS AN EQUAL OPPORTUNITY EMPLOYER

*Please refer to the back of this announcement for complete information on State Personnel's policy for accepting post-secondary and advanced degrees.

Agenda

- Other Business
- Next Meeting
- Adjourn

GIS Awards & Conference

- Establish the Governor Excellence Award in GIS
  - Nominations collected by the Program Office
  - Approved by the GIS Executive Council
- Recognition of GIS success stories around the state
  - Communications Subcommittee
- Establish Statewide GIS conference
  - Summer/Fall 2013

State GIS Website