

**U.S. Department of the Interior** 

# **Enterprise Geographic Information Management**

# **Roles and Responsibilities**

The Enterprise Geospatial Information Management (EGIM) [1] initiative of the U.S. Department of the Interior (DOI) is a framework for the standardization and coordination of geographic information systems (GIS) activities across the department's bureaus. The purpose of the EGIM team is to provide strategic leadership for that enterprise GIS effort within DOI. A DOI team of bureau representatives and subject matter experts collaborate to determine the need for standardization, GIS initiatives, direction on policy, program initiatives, funding priorities, and organizational needs, as well as the coordination of GIS activities among bureau programs and areas. EGIM is a joint effort with all the DOI bureaus.



Ellis Island mapping with GPS (Credit: NPS)

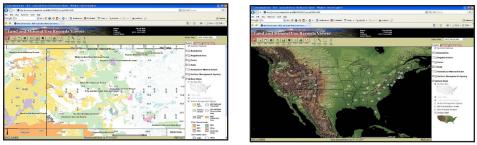
Of all the departments within the Federal government, DOI is arguably the one most closely tied to the land. DOI is chartered with managing and protecting the Nation's resources [2], which are geographic in nature (for example, National Parks, Mineral Resources, and Lands Management). Most of the services provided by DOI program and mission areas are associated with a specific location or geographic area. Tracking, providing, and improving the delivery of these services to the public and partners require that information about such locations be collected and managed by the various bureaus. Multiple DOI programs often

perform services on overlapping geographic areas. In fulfilling their mission, bureaus often depend on, or provide, geospatial information along with related geospatial technologies and services. From the creation of maps to the analysis of potential flooding from a hurricane, location information is used for a wide variety of purposes within DOI and by our numerous outside partners (for example, public, states, and counties). With an infusion of mobile, wireless technology, this information can be delivered anytime, anywhere (see Figure 1).



**Figure 1.** Do you know? You can use the web to find a map or information about many places in the United States? Go to http://www.geodata.gov and explore the possibilities.

DOI's business activities depend on geospatial information—knowing where things are and understanding how they relate to one another. Location information brings data to life and adds value because of the capability of the geospatial technology to generate graphic representations of features to produce a map. This technology helps provide the spatial context that allow for visualization of data, management of information, and data analysis to support DOI's business functions and mission. EGIM provides the ability to more effectively coordinate and support geospatial technologies, sponsoring interoperability and cost effectiveness for each of the bureaus within the DOI (see Figure 2).



**Figure 2.** Do you know? You can use the BLM Land Manager Viewer to see a map of Federal Lands in the United States? Go to http://www.geocommunicator.gov/ and explore the possibilities.

The role and function of the EGIM team primarily include management of the following programs: Education and Training, GIS Software Deployment, Knowledge Base, Help Desk, GIS Database Support, Spatially Enabling DOI Business, Communications, System Architecture, Geospatial Services Model [3], Geospatial Modernization Blueprint (GMBP) [4], and Geospatial Line of Business (GeoLoB) [5].



#### The Enterprise Geospatial Information Management team consists of the following members:

- Project Lead USGS Bob Pierce, Senior Advisor National Geospatial **Program Office**
- Project Manager USGS Leslie Armstrong, Central Region Deputy Director
- AS-IA Richard Moore, Geospatial Information Officer
- BLM Bob Bewley, Geosciences Program Manager
- BLM George Heine, Mathematical Analyst
- BLM Tom Chatfield, Spatial Data Architect
- BOR Lorri Peltz-Lewis, Regional Geospatial Database Administrator
- BOR Bruce Whitesell, Physical Scientist
- FWS Deb Green, National GIS Coordinator
- MMS Leonard Coats, Business Automation GIS Development Team Lead
- NPS Joe Gregson, GIS Program Manager
- NPS David Duran, IT Specialist, GIS Division
- OSM Robert Welsh, Mobile Computing Team Lead
- OSM Alan Wilhelm, GIS Team Leader
- USGS Jacqueline Fahsholtz, Geospatial One-Stop Portal Administrator



Burning at Eastern Virginia Rivers National Wildlife Refuge (Credit: FWS)

#### Websites of interest:



Shasta Dam, Shasta, California (Credit: BOR)

### **References:**

- 1. U.S. Department of the Interior, 2005, Enterprise Geographic Information Management, Fact Sheet. Available at http:// mms.nps.gov/gis/egim/documents/egim.pdf
- 2. U.S. Department of the Interior, 2006, Department of Interior Mission Statement. Available at http://www.doi.gov/secretary/ mission.html
- 3. U.S. Department of the Interior, 2007, Geospatial Services Model: Serving the Geographic Business Needs of the Interior. Available at http://www.nps.gov/gis/egim/
- 4. U.S. Department of the Interior, 2007, Geospatial Modernization Blueprint: Recommendations and Architectures, in press. Will be available at http://www.nps. gov/gis/egim/
- 5. Executive Office of the President of the United States, Office of Management and Budget, Presidential Initiatives, 2004, Geospatial Line of Business (GeoLoB). Available at http://www.whitehouse.gov/ omb/egov/c-6-8-glob.html



**Geospatial training class** (Credit: NPS)

## **Abbreviations and Acronyms:**

EGIM	http://www.nps.gov/gis/egim/	AS-IA	Assistant Secretary—Indian Affairs (DOI)
DOI	http://www.doi.gov/	BIA	Bureau of Indian Affairs (DOI)
Geospatial One-Stop (GOS)	http://www.geodata.gov	BLM	Bureau of Land Management (DOI)
BIA	Temporarily offline	BOR	Bureau of Reclamation (DOI)
BLM	http://www.blm.gov/	DOI	U.S. Department of the Interior
GCDB	http://www.blm.gov/gcdb/	EGIM	Enterprise Geospatial Information Management
Geocommunicator	http://www.geocommunicator.gov/	FGDC	Federal Geographic Data Committee
NILS	http://www.blm.gov/nils/	FWS	Fish and Wildlife Service
BOR	http://www.usbr.gov	GCDB	Geographic Coordinates Data Base
Dataweb	http://www.usbr.gov/dataweb/	GeoLoB	Geospatial Line of Business
FGDC	http://www.fgdc.gov/	GIS	geographic information systems
FWS	http://www.fws.gov/	GMBT	Geospatial Methodology for Business Transformation
Geographic information	http://www.fws.gov/data/	GOS	Geospatial One-Stop
MMS	http://www.mms.gov/	IMC	Interactive Map Center
Maps	http://www.mms.gov/ld/Maps.htm	MMS	Minerals Management Service (DOI)
NPS	http://www.nps.gov	NILS	National Integrated Lands System
GIS	http://www.nps.gov/gis/	NPS	National Park Service (DOI)
IMC	http://maps.nps.gov	OSM	Office of Surface Mining (DOI)
OSM	http://www.tips.osmre.gov/	USGS	U.S. Geological Survey (DOI)
USGS	http://www.usgs.gov		
National Map	http://nationalmap.usgs.gov/		

#### For more information:

Further information on EGIM activities and programs can be obtained at http://www.nps.gov/gis/egim/ or, contact Bob Pierce at 703-648-5231 or rrpierce@usgs.gov