2008 ESRI International User Conference

DOI Senior Executive Read Ahead and Assistance Materials

DOI Enterprise Geographic

Information Management Team

To: DOI ESRI Senior Executive Seminar Attendees

The DOI Enterprise Geographic Information Management (EGIM) Team has created this read ahead document to provide you with additional and customized information on the ESRI Conference you will be attending August 4-8, 2008 in San Diego, California. We hope that you enjoy this twenty-eighth annual conference as you learn more about geospatial information and the value it provides to the mission support activities of the Department.

Table of Contents

This document is intended to supplement the wealth of information that ESRI has put together on the conference. Please visit http://www.esri.com/events/uc/index.html to get the most out of the conference. Among other information, you will find highlights, questions and answers, networking opportunities, and a full ESRI International User Conference Agenda.

DOI POINTS OF CONTACT -

The DOI EGIM Team has assembled a team that will be on-site and on-call throughout the conference. Please do not hesitate to contact any of the following members of the EGIM Team for any assistance you might need.

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HIGHLIGHTED ESRI UC AGENDA MATERIAL -

(See http://www.esri.com/events/uc/docs/uc08_print_agenda_plus.pdf)

The EGIM Team would like to draw your attention to some select content within the full ESRI Conference Agenda as follows:

Page 3 – Welcome message from Jack Dangermond, President, ESRI

Page 6 – Hours of operation and activities overview

Page 15 – Saturday and Sunday, August 2-3 conference orientation and social activities

Page 8 – Technology keynote session descriptions, locations, dates and times

Page 14 – Climate change oriented session information

Page 20-21 – Plenary session information

Page 22-26 – Map gallery and displays information

INTRODUCTION TO GIS -

What is a GIS?

GIS provides critical tools for success and efficiency. As an executive, you are presented with a high volume of complex data every day. GIS helps you:

- Organize your information and knowledge
- Make informed decisions
- Improve communication
- Increase efficiency
- Share your knowledge with others

Technically a GIS is a computer system capable of capturing, storing, analyzing, and displaying geographically referenced information; that is, data identified according to location. Practitioners also define a GIS as including the procedures, operating personnel, and spatial data that go into the system. On an operational level, GIS is an integrating technology, facilitating the use of many data sources. GIS provides unparalleled tools to understand, question, interpret, and visualize data. GIS technology gives executives cutting-edge technology to make more-informed decisions.

How does a GIS work?

To be successful, a GIS needs to serve a useful purpose. It must be integrated with the business strategy of your organization to provide the information you need. The power of a GIS comes from the ability to relate different sources of information in a spatial context and to reach a conclusion about those relationships. Approximately 80 percent of all information we have about our world today contains some type of a location reference, placing that information at a specific point on the globe. By combining the spatial and non-spatial data a GIS can reveal important new information, leading to better decision making, save valuable resources, visualize an organization's assets, and streamline workflow processes.

Many non-spatial computer databases that can be used directly by a GIS are being produced by Federal, State, tribal, and local governments, private companies, academia, and nonprofit organizations. Many different kinds of spatial data can be entered into a GIS. A GIS can also convert existing digital information, which may not yet be in map form, into forms it can recognize and use.

A GIS makes it possible to link, or integrate, information that is difficult to associate through any other means. Thus, a GIS can use combinations of mapped variables to build and analyze new variables. Today, the application of GIS is pervasive throughout our society. Geography and GIS help to tie together the intricacies of a multitude of fields by offering end-to-end systems for analyzing and sharing geographical data.

How does DOI use GIS?

DOI uses GIS extensively. The final pages of this read ahead document contain fact sheets that provide an overview of some of the geospatial related activities going on at DOI today.

CONFERENCE OVERVIEW (*Who Should Attend and Why*) -

Enlightening and Inspiring

No matter your industry, position, or GIS experience, ESRI users across the globe are encouraged to attend the 2008 ESRI UC. This exciting and stimulating conference brings together more than 14,000 professionals who work with or are interested in GIS solutions for their organizations or communities.

The ESRI UC is expansive, yet you can easily find people with similar interests or doing similar work. With so many sessions, many are offered twice in case you don't make it the first time. While you simply can't experience it all in just five days, come see what the excitement is all about and make the ESRI UC part of your plans every year. ⇢
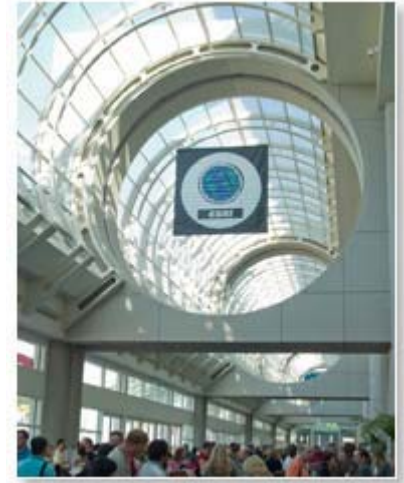
What You'll Experience

o **The pulse of the GIS community**
This one-of-a-kind event is a must attend for all users. Offering tremendous breadth and depth, this is your chance to be educated, motivated, and part of an active, innovative community.

o **Hear from Jack**

At Monday's Plenary Session, Jack Dangermond, ESRI president, will share his vision for GIS. Find out where GIS trends, products, and uses are heading.

o **See the absolute latest in GIS**

Explore the largest collection of GIS solutions in the world. Test-drive state-of-the-art technology or have an expert walk you through recent software developments.

o **Discover new applications and best practices**

Get project ideas and troubleshooting tips from your peers through user presentations, user group meetings, social activities, and networking.

o **Align your plans with ESRI's**

Gain insight into ESRI software development by hearing firsthand from our lead developers. Attend workshops and drop by the product islands to get updated and find out what's next for ESRI GIS.

o **Grow your GIS projects**

Meet face-to-face with our Technical Support or Professional Services staff to work through your project problems and position your GIS project for success. Experts from a range of industries can offer you advice on implementing and sustaining your GIS projects.

o **Connect with people like you**

Join other users from your industry in informal meetings throughout the week, an array of regional and special interest group meetings, and one-on-one meetings at the industry solutions islands.

o **Get information you can put to work right away**

From product and industry updates to a new skill learned or a pearl of wisdom shared, the ESRI UC offers you a week of valuable sessions and interaction to energize you with ideas and tools you can put to work immediately.

CONFERENCE AGENDA -

User Conference

Plan your conference activities now. Many sessions are offered twice in case you can't make it the first time.

- o The **ESRI UC** begins with a Welcome Social on Sunday afternoon and continues through Friday Closing Session and Awards.
- o The **ESRI Education User Conference** and the
  ESRI Survey & Engineering GIS Summit run Saturday–Tuesday.

Saturday, August 2

- o Preconference Seminars
  SDCC
- o ESRI Education User Conference and EXPO
  Marriott Hotel & Marina
- o Survey & Engineering GIS Summit and EXPO
  SDCC
- o DOI Informal Get Together
  5:00 p.m.– 7:00 p.m., Hyatt Hotel

Sunday, August 3

- o Preconference Seminars
  SDCC
- o Remote Sensing and GIS Summit
  8:00 a.m.–6:30 p.m., Room 4, SDCC
- o Golf Tournament
  La Costa Resort & Spa Golf Course, 8:00 a.m.
- o ESRI Education User Conference
  Marriott Hotel & Marina
- o Survey & Engineering GIS Summit and EXPO
  SDCC
- o ESRI UC Welcome Social/Orientation †
  4:30 p.m.–6:30 p.m., Grand Lobby

Monday, August 4

- o Plenary Session †
  8:30 a.m.-3:30 p.m., Halls F, G, and H
- o Special Displays
  3:30 p.m.-8:30 p.m., Sails Pavilion and Ballroom 20
- o Academic GIS Program Fair
  3:30 p.m.-8:30 p.m., Ballroom 6 A Foyer
- o Map Gallery Opening and Evening Reception †
  3:30 p.m.-8:30 p.m., Sails Pavilion, Ballroom 20, and Ballroom 20 Foyer
- o Conservation Showcase
  3:30 p.m.-8:30 p.m., Ballroom 20-B/C, Upper Level
- o ESRI Education User Conference
  Marriott Hotel & Marina
- o Survey & Engineering GIS Summit
  SDCC

Tuesday, August 5

- o HAZUS User Group Conference
  7:00 a.m.–5:00 p.m., Omni San Diego Hotel
- o Map Gallery †
  8:00 a.m.–6:00 p.m., Sails Pavilion and Ballroom 20
- o Special Displays
  8:00 a.m.—6:00 p.m., Sails Pavilion and Ballroom 20
- o Conservation Showcase
  8:00 a.m.-6:00 p.m., Ballroom 20-B/C, Upper Level
- o User Presentations and Technical Workshops †
  8:30 a.m.–4:30 p.m., SDCC, Marriott Hotel & Marina

- o [GIS Concepts and Industry Focus Sessions](#) †
  8:30 a.m.–4:30 p.m., SDCC
- o [GIS Kids Camp](#)
  8:30 a.m.–5:00 p.m.
  Marina–Salon D, Marriott Hotel & Marina
- o [ESRI Showcase](#) & [Exhibit Pavilion](#) †
  9:00 a.m.-6:00 p.m., Halls B, C, and D
- o [User Software Application Fair](#)
  9:00 a.m.-6:00 p.m., Exhibit Hall C
- o [Hands-On Learning Center](#) †
  9:00 a.m.-6:00 p.m.
- o [Special Interest](#) and [Regional User Group Meetings](#) †
  SDCC and Marriott Hotel & Marina
- o [Tennis Tournament](#)
  5:30 p.m.-9:00 p.m., Tennis Courts,
  Marriott Hotel & Marina
- o [ESRI Education User Conference](#)
  Marriott Hotel & Marina
- o [Survey & Engineering GIS Summit](#)
  SDCC

Wednesday, August 6

- o [5K Fun Run/Walk](#)
  6:45 a.m., Embarcadero Park North
- o [HAZUS User Group Conference](#)
  7:00 a.m.–5:00 p.m., Omni San Diego Hotel
- o [Map Gallery](#) †
  8:00 a.m.–6:00 p.m., Sails Pavilion and Ballroom 20
- o [Special Displays](#)
  8:00 a.m.–6:00 p.m., Sails Pavilion and Ballroom 20
- o [Conservation Showcase](#)
  8:00 a.m.-6:00 p.m., Ballroom 20-B/C, Upper Level

- o [User Presentations](#) and [Technical Workshops](#) †
  8:30 a.m.–4:30 p.m., SDCC
- o [GIS Concepts and Industry Focus Sessions](#) †
  8:30 a.m.–4:30 p.m., SDCC
- o [GIS Kids Camp](#)
  8:30 a.m.–5:00 p.m.
  Marina–Salon D, Marriott Hotel & Marina
- o [ESRI Showcase](#) & [Exhibit Pavilion](#) †
  9:00 a.m.- 6:00 p.m., Halls B, C, and D
- o [User Software Application Fair](#)
  9:00 a.m.-6:00 p.m., Exhibit Hall C
- o [Hands-On Learning Center](#) †
  9:00 a.m.-6:00 p.m.
- o [Special Achievement in GIS Awards Ceremony](#)
  3:30 p.m–5:30 p.m., Hall A, SDCC
- o [Family Night](#) (Exhibit Pavilion and ESRI Showcase)
  4:00 p.m.-6:00 p.m., Halls C, D, and E
- o [Special Interest](#) and [Regional User Group Meetings](#) †
  SDCC and Marriott Hotel & Marina
- o [Tennis Tournament](#)
  5:30 p.m.-9:00 p.m., Tennis Courts,
  Marriott Hotel & Marina

Thursday, August 7

- o [HAZUS User Group Conference](#)
  7:00 a.m.–3:00 p.m., Omni San Diego Hotel
- o [User Presentations](#) and [Technical Workshops](#) †
  8:00 a.m.–4:30 p.m., SDCC
- o [Map Gallery](#) †
  8:00 a.m.–1:30 p.m., Sails Pavilion and Ballroom 20

- o Special Displays

  8:00 a.m.–3:15 p.m., Sails Pavilion and Ballroom 20

- o Conservation Showcase

  8:00 a.m.-3:15 p.m., Ballroom 20-B/C, Upper Level

- o GIS Kids Camp

  8:30 a.m.–4:00 p.m.

  Marina–Salon D, Marriott Hotel & Marina

- o GIS Concepts and Industry Focus Sessions †

  8:30 a.m.–4:30 p.m., SDCC

- o ESRI Showcase & Exhibit Pavilion †

  9:00 a.m.-1:30 p.m., Halls B, C, and D

- o User Software Application Fair

  9:00 a.m.-1:30 p.m., Exhibit Hall C

- o Hands-On Learning Center †

  9:00 a.m.-1:30 p.m.

- o Special Interest and Regional User Group Meetings †

  SDCC and Marriott Hotel & Marina

- o Thursday Night Celebration †

  5:30 p.m.–10:30 p.m., Location TBD

Friday, August 8

- o Morning Technical Workshops
  9:00 a.m.–10:15 a.m., SDCC

- o Closing Session and Awards †

  10:30 a.m.–noon, Hall A

† Look for this symbol to identify events particularly good for first-time attendees.

Senior Executive Seminar

Opening Session and Guest Speakers

Sunday, August 3

The seminar begins with the "big picture" of GIS. See how ESRI software solutions address issues around the world as well as challenges linked to your leadership role. Also, hear guest speakers with track records rich in GIS experience relate their best practices for integrating GIS into their operations. This full-day session concludes with an evening reception, giving you the opportunity to connect with other attendees.

ESRI User Conference Plenary Session

Monday, August 4

You are invited to attend the Plenary Session for the 2008 ESRI International User Conference as well as the Map Gallery Opening and Evening Reception. Please join us at these exciting events as our special guest and see firsthand how ESRI's vision and user community attest to the value of GIS.

ESRI User Conference Sessions and Exhibit Pavilion

Tuesday, August 5

You are welcome to breakout sessions or explore the Exhibit Pavilion where you will find state-of-the-art technology and be able to meet with our business partners and vendors.

Senior Executive Seminar—Agenda

What You'll Experience

Sunday, August 3

8:00 a.m.—9:00 a.m.
Marriott Hall Foyer

> **Registration and Continental Breakfast**

9:00 a.m.—9:10 a.m.
Marriott Hall 4

> **Welcome and Overview**
> Dr. Roger Tomlinson
> President, Tomlinson Associates

9:10 a.m.—10:15 a.m.
Marriott Hall 4

> **Geography in Action**
> Mr. Jack Dangermond
> President, ESRI

10:15 a.m.—10:30 a.m.
Marriott Hall Foyer

> **Refreshment Break**

10:30 a.m.—11:15 a.m.
Marriott Hall 4

> **Why GIS Matters in Maryland**
> Governor Martin O'Malley
> State of Maryland

11:15 a.m.-noon
Marriott Hall 4

> **Strategic Use of GIS at Interior**
> Secretary Dirk Kempthorne
> United States Department of the Interior

Noon-12:30 p.m.
Marriott Hall 4

> **Morning Panel Discussion Q&A**
> Speakers and Roger Tomlinson

12:30 p.m.-2:00 p.m.
Marriott Hall 5

> **Luncheon**

2:00 p.m.-2:30 p.m.
Marriott Hall 4

> **Integrating GIS into Land Transport Authority of Singapore—Lessons Learned**
> Mrs. Rosina Howe-Teo
> Innovation and Group Director
> InfoComm Technology Land Transport Authority, Singapore

2:30 p.m.-3:00 p.m.
Marriott Hall 4

> **The Strategic Use of GIS at DHL**
> Mr. Henrik Dahlin
> Process Development Manager
> DHL International NV/SA

3:00 p.m.—3:30 p.m.
Marriott Hall Foyer

> **Refreshment Break**

3:30-4:15 p.m.
Marriott Hall 4
> **New Vision for Relief and Development Work—**
> **Mobile GIS for Emergency Planning and Climate Change Response**
> Christopher Shore
> Director, Climate Change Response Initiative
> World Vision International

4:15 p.m.-5:00 p.m.
Marriott Hall 4
> **Afternoon Panel Discussion and Wrap-Up**
> Speakers and Roger Tomlinson

5:00 p.m.-7:00 p.m.
Marriott Hall 5
> **Cocktail Reception**

DOI Presentations, Meetings and Tracks

TITLE	PRESENTER	DAY	TIME	ROOM
BLM				
Predicting Future Marbled Murrelet Sites Using Model Builder	Jeanne Keyes	Tue	8:30-9:45	30B
Federal Oil and Gas Accessibility of the United States	Richard Watson	Tue	10:15-11:30	28C
Using BLM's GeoCommunicator to Display Oil and Gas Leases/Agreements	John Reitsma	Tue	1:30-2:45	28C
Extending Geospatial Data Standards in the BLM with Implementation Guidelines	Tom Chatfield	Tue	3:15-4:30	26B
Using BLM's GeoCommunicator for Planning and Land Management	Leslie Cone	Tue	3:15-4:30	26B
Large Area Modeling for Archaeological Site Management	Kirk Halford	Wed	8:30-9:45	28E
Managing Historic Landscapes with GIS: The WWII Desert Training Center	Rolla Queen	Wed	8:30-9:45	28E
Archaeological GIS Data in Wildland Fire Situations	Dan Martin	Wed	8:30-9:45	28E
Oregon Heritage Information Management System	Henry Goodman	Wed	8:30-9:45	28E
System Integration & New Enhancements with BLM's NILS GeoCommunicator	John Liddle	Wed	3:15-4:30	28C
Geospatial Data Standards Development Using Data Model Patterns	Christine Hawkinson	Thu	10:15-11:30	27 A/B
Integrating Survey & Parcel Data into NILS GeoCommunicator	Robert Casias	Thu	3:15-4:30	28C
BOR				
Implementing an Integrated GIS and Document Management System	Jeremy Dandron	Tue	10:15-11:30	26B
Large-Quantity Production of Maps for Field Use	Katherine Zander	Wed	8:30-9:45	23B
Risk Analysis & ArcGIS Schematics--California Delta Levees	Dave Hansen	Wed	1:30-2:45	17A
FWS				
Historical Landuse Characterization of the Emory River Watershed 1946-2001	Kurt Snider	Wed	1:30-2:45	30D
Geoprocessing Tool Development for Wetlands Data	Thomas Dahl	Thu	3:15-4:30	32A
NPS				
Integrated Geographic Targeting & Tracking in Chesapeake Bay Restoration	John Wolf	Wed	8:30-9:45	24C
USGS				
GIS Training Opportunities for Tribes with Federal Training Centers	Bonnie Gallahan	Tue	8:30-9:45	32B
Separation of Powers: Redesigning the National Atlas Map Maker Structure	Rachel Nehmer	Tue	8:30-9:45	31C
USGS: Products & Services of the National Map	Carl Zulick	Tue	3:15-4:30	23B
USGS Topographic Mapping	Mike Cooley	Tue	3:15-4:30	23B
Geospatial One Stop Portal -- Better Than Ever!	Rob Dollison	Tue	3:15-4:30	23B
GIS Infrastructure Goals for the Next NASA Lunar Missions	Trent Hare	Wed	8:30-9:45	26A
Relating Landscape Characteristics to Water-Quality Sampling Sites: An Area-Characterization Toolbox	Curtis Price	Wed	8:30-9:45	25C
Estimating Land Disturbance Associated with Energy Development Using GIS	Susan Buto	Wed	1:30-2:45	25C
Production and Use of Historical Digital Orthoimagery: Lake Tahoe Basin	Christopher Soulard	Thu	8:30-9:45	23B

DOI Presentations, Meetings and Tracks (Continued)

	DAY	TIME	ROOM	DAY	TIME	ROOM
TECHNICAL WORKSHOPS						
A Framework for Implementing GIS on the Web	Tue	8:30-9:45	6A			
Strategy – ESRI's Enterprise Strategy	Tue	8:30-9:45	14B	Thu	1:30-2:45	14B
ESRI Mobile GIS Solutions Overview	Tue	8:30-9:45	10	Wed	1:30-2:45	10
Learning Essential GIS Workflows	Tue	8:30-9:45	2	Wed	1:30-2:45	2
What it GIS & How Can it Help Me?	Tue	10:15-11:30				
ArcGIS Mobile – An Introduction	Tue	10:15-11:30	10	Wed	3:15-4:30	10
Strategy – Developing an Effective GIS Technology Strategy	Tue	10:15-11:30	14B			
Getting Started with ArcGIS Explorer	Tue	1:30-2:45	6B	Thu	8:30-9:45	6B
Planning – A Project Management Perspective	Tue	1:30-2:45	14B			
Basic Principles of Cartographic Design	Tue	3:15-4:30	2	Thu	8:30-9:45	2
Implementing the GIS Portal Toolkit	Tue	3:15-4:30	Santa Rosa Marriott	Thu	10:15-11:30	Santa Rosa Marriott
Problem Solving with GIS	Wed	8:30-9:45				
ArcGIS and the GeoWeb in a Web 2.0 World	Wed	10:15-11:30	6A	Thu	10:15-11:30	8
Design – Systems Architecture Design, Configuration, and Deployment	Wed	1:30-2:45	14B			
The One Minute Cartographer	Wed	3:15-4:30	6A			
Case Studies of Building & Deploying Enterprise ArcGIS Server Solutions	Wed	3:15-4:30	14B	Thu	3:15-4:30	6F
Concepts of Geographic Analysis	Wed	3:15-4:30	6A			
Case Studies – Enterprise Implementations	Thu	8:30-9:45	14B			
Case Studies – Management Growth in an Established GIS Organization	Thu	10:15-11:30	14B			
SPECIAL INTEREST GROUP						
GIS Managers & Coordinators – lunch special interest group	Tue	12:00-1:00	26B			
MODERATED PAPERS						
Technical Innovations for Enterprise GIS Implementation	Wed	8:30-9:45	28D			
Building a Business Case for GIS Investment	Wed	10:15-11:30	28D			
Successful Implementation of GIS to Support Key Business Processes	Thu	10:15-11:30	28D			
SHOWCASE PROGRAM ISLAND (Federal Agencies Demo Theater)						
Project Controls: Your Dashboard for Success						
Wetlands Geodatabase and Mapper (Fish)	Tue	9:00-10:00				
Spatially Enabling TAAMS (BIA)	Tue	12:00-1:00				
Landsat Image Mosaic of Antarctica USGS	Wed	11:00-12:00				
Accessing Environmental Data (EPA)	Wed	1:00-2:00				

DOI Presentations, Meetings and Tracks (Continued)

	DAY	TIME	ROOM	DAY	TIME	ROOM
SDI TRACKS						
INSPIRE: Progress in Building the European SDI	Tue	8:30-9:45	23B			
Building a SDI for Small Countries: The Portuguese Example						
The Lombardy Regional SDI Evolving in the INSPIRE Perspective						
A National Spatial Data Infrastructure for Rwanda	Tue	10:15-11:30	23B			
Building an Award Winning Spatial Portal Using GIS Portal Toolkit						
Maine GeoLibrary Portal a Next Step in Enterprise GIS						
An SDI to Support Conservation	Tue	1:30-2:45	23B			
GIS Clearinghouses and Biological/Temporal Data: Challenges and Opportunities						
NATIVE/INDIGENOUS PRESENTATIONS						
GIS Training Programs for Indigenous Peoples	Tue	8:30-9:45	Conservation Hall			
Indigenous Knowledge for Future Generations		10:15-11:30				
Native Geography Special Interest Group		12:30-1:30				
GIS for Indigenous Communities		1:30-2:45				
Enterprise GIS for Tribal Government		3:15-4:30				

Preliminary Core / Geo Team Meeting Agenda

Monday, August 4, 3:45 - 5:00 PM, Room 32A or B, San Diego Convention Center
Call In Available - (712) 775-7000, Access Code: 945839#

Minutes:
See presentation slides:

3:45 – 3:55 - Introductions / Opening Remarks   James Cason / Karen Siderelis

3:55 – 4:15 – Geospatial Blueprint
- Executive Summary / Implementation Needs –   Bob Pierce
- Implementation Status Reporting Overview –   Lee Fahrner

4:15 – 4:30 – Geospatial Governance   James Cason
- Intra-Departmental Update –
- Federal Update –

4:30 – 4:45 – Upcoming User Conference Activities Bob Pierce

4:45 – 5:00 – Closing Remarks   James Cason / Karen Siderelis

Preliminary EGIM Meeting Agenda

Thursday, August 7, 1:00 - 5:00 PM in the Laguna Room, Marriott Hotel.
Call In Available - (712) 775-7000, Access Code: 945839#

Participants:

Last Name	First Name	Agency/ Org	Location	Phone	Cell Phone	E-mail	atnd (Y/N)
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Lawrence	Richard	ESRI / EGIM	Redlands, CA	909 793 2583 x 1700	909-809-7179	rlawrence@esri.com	
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Pierce	Bob	USGS	Washington, DC	770-409-7708	770-318-3654	rrpierce@usgs.gov	
Welsh	Rob	OSM	Denver, CO	303-293-5080		rwelsh@osmre.gov	
Whitesell	Bruce	USBR	Denver, CO	303-445-2287		BWHITESELL@do.usbr.gov	
Wilhelm	Alan	OSM	Denver, CO	303-293-5081		awilhelm@osmre.gov	

Minutes:

See Quarterly Meeting presentation slides:

Stewardship and Accountability -
- EGIM "Cookbook" for ADS Certification and Implementation – Deb Green / Lee Fahrner
- Geospatial Data Stewardship at DOI – Joe Gregson (30 min)
- Trails Pilot report - Dave Duran / Lorri Peltz-Lewis (30 min)

Outreach and Communications -
- GOS Collaboration site Overview, demo - Bob Matthias (Jacque Fahsholtz, Lorri Peltz-Lewis assisting) (20 min)

Modernized Business Practices -
- Geospatial Profile 2.0, EGIM Feedback and Utility – Lorri Peltz-Lewis / Lee Fahrner (30 min)
- Knowledge Base update, pilot decision - Lorri Peltz-Lewis (30 min)
- Geospatial Catalog presentation: current status, thinking - Deb Green / Richard Moore (30 min)
- EPA Metadata Application discussion - Need to discuss if this is a 2008 priority and can we get it done: if so, what is involved (Jacque is researching backup information) (20 min)

GeoLOB Work group updates - workgroup members (20 min)

EGIM Work group updates - (project reports) - additions to above items, as needed

Schedule next EGIM meeting

ESRI ELA update - Mark Negri (last item - contract staff will need to leave) (30 min)

Workgroup Leads:
Roll up Summary - GMO
Policy & Governance – Bob Pierce
Outreach & Communications – Deb Green
Stewardship & Accountability – Jacque Fahsholtz
Modernized Business Practices – Lorri Peltz Lewis
Technology Leadership – Mark Negri
GMO Support – GMO

Upcoming Meetings/Events:

➢ Aug 4-8, 2008 ESRI Intl Conference, San Diego, CA
➢ Aug 28, 2008 – EGIM Call
➢ Sep 25, 2008 – EGIM Call
➢ Oct 15-16,2008 – NGAC
➢ Oct 17, 2008 – FGDC SC Meeting
➢ Oct 23, 2008 – EGIM Call
➢ Nov 17-21, 2008 – EGIM Meeting, Denver, CO (tentative)

CONFERENCE DINING OPTIONS -

Quick Lunch Options:

- Conference Center – Back Deck – lunches available to go, not on first day.
- Deli behind the Hyatt on K Street has salads & sandwiches to go.
- Hyatt and Omni 1st Floor Restaurants – can be quick if you get there early.
- Seaport Village – west of convention center near the Hilton many places to eat. A walk or short cab ride – return to the conference along the marina walk.
- Tin Fish – near trolley stop on 1st St and 5th Ave can be fast.
- Ralph's Grocery Store – 101 G Street – just walk north on 1st Ave.
- ESRI Registration packet has suggestions, but these can become very crowded.
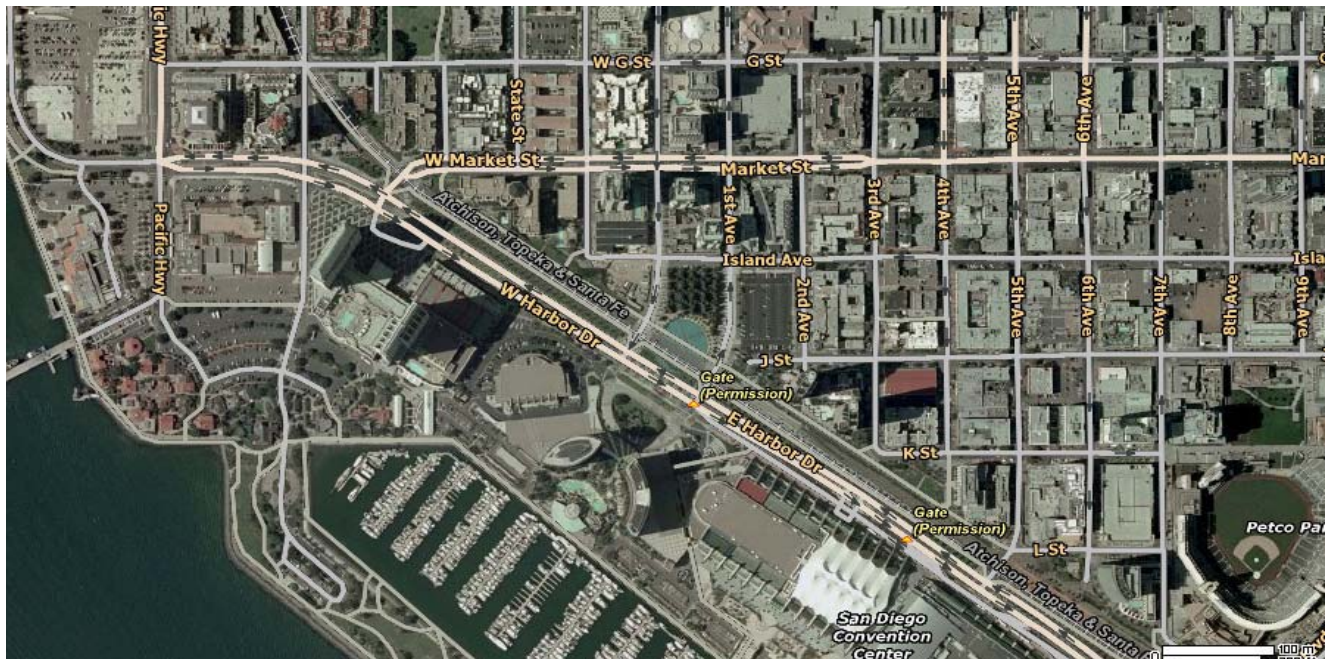
San Diego Gaslamp Dining Options:

American/Fusion:

Aubergine Restaurant & Nightclub 500 Fourth Ave.
San Diego, CA 92101 • (619) 232-8100

Calaco Grill 732 4th Ave.
San Diego, CA 92101 • (619) 823-8571

Chive 558 Fourth Ave. (Urban Bistro)
San Diego, CA 92101 • (619) 232-4483

Confidential 901 Fourth Ave. (2005 Best of..)
San Diego, CA 92101 • (619) 696-8888

Croce's Restaurant & Bar 802 Fifth Avenue (Jazz)
San Diego, CA 92101 • (619) 233-4355

Dakota Grill & Spirits 901 Fifth Ave.
San Diego, CA 92101 • (619) 234-5554

Hard Rock Cafe 801 4th Ave.
San Diego, CA 92101 • (619) 615-7625

Heat 762 Fifth Ave.
San Diego, CA 92101 • (619) 398-9340

Hooter's 410 Market St.
San Diego, CA 92101 • (619) 235-4668

Izzy's 895 Fourth Ave. (Salad bar, Buffet)
San Diego, CA • (619) 237-9898

Jimmy Love's 672 Fifth Ave.
San Diego, CA 92101 • (619) 595-0123

Jolt'n Joe's Corner of 4th & J
San Diego, CA 92101 • (619) 230-1968

Jsix 616 J Street
San Diego, CA 92101 • (619) 531-8744

Lee's Cafe 738 Fifth Ave. (Diner)
San Diego, CA 92101 • (619) 239-1621

Mister Tiki 801 Fifth Ave. (Hawaiian)
San Diego, CA 92101 • (619) 233-1183

Moon Cafe 711 Fourth Ave. (Diner)
San Diego, CA 92101 • (619) 239-7669

Moose McGillycuddy's 535 Fifth Ave
San Diego, CA 92101 • (619) 702-5595

New Leaf Restaurant 401 K St.
San Diego, CA 92101 • (619) 231-4040

On Broadway 615 Broadway
San Diego, CA 92101 • 619-231-0011

American/Fusion (cont.):

Stingaree 454 6th Ave. (Nightclub)
San Diego, CA 92101 • (619) 544-9500

the Lime 653 Fifth Ave. (Latin & Tequila bar)
San Diego, CA 92101 • (619) 238-LIME

Whiskey Girl 600 Fifth Ave.
San Diego, CA 92101 • (619) 236-1616

Xavier's Bar & Grill 750 5th Ave.
San Diego, CA 92101 • (619) 233-0517

Italian:

Acqua Al 2 Restorante 322 Fifth Ave.
San Diego, CA 92101 • (619) 230-0382

Asti Ristorante 728 Fifth Ave,
San Diego, CA 92101 • (619) 232-8844

Bella Luna 748 Fifth Ave.
San Diego, CA 92101 • (619) 239-3222

Bottega de La Strada 835 Fourth Ave. (Tuscan)
San Diego, CA 92101 • (619) 234-6538

Buca Di Beppo 705 Sixth Ave
San Diego, CA 92101 • (619) 233-7272

De'Medici 815 Fifth Ave.
San Diego, CA 92101 • (619) 702-7228

Osteria Panevino 722 Fifth Ave.
San Diego, CA 92101 • (619) 595-7959

Trattoria La Bocca 515 Fifth Ave.
San Diego, CA 92101 • (619) 232-3352

Trattoria La Strada 702 5th Avenue
San Diego, CA 92101• (619) 239-3400

Trattoria Portobello 715 Fourth Avenue
San Diego, CA 92101 • (619) 232-3330

Deli:

Cheese Shop 627 Fourth Ave.
San Diego, CA 92101 • (619) 232-2303

JJs Sunset Deli 200 Marina Park Way
San Diego, CA (619) 237-1070\
(behind convention center, nr park)

Seaport Village Deli 881 harbor Dr
San Diego, CA (619) 232-7616

San Diego Gaslamp Dining Options (cont.):

Seafood/Steaks:

Aqua Blu 734 Fifth Ave.
San Diego, CA 92101 • (619) 544-6456

Blue Point Coastal Cuisine 565 Fifth Ave.
San Diego, CA 92101 • (619) 233-6623

George's on Fifth 835 Fifth Ave. (Steak/Seafood)
San Diego, CA 92101 • (619) 702-0440

Gaslamp Strip Club 340 Fifth Ave.
San Diego, CA 92101 • (619) 231-3140

Greystone The SteakHouse 658 Fifth Ave.
San Diego, CA 92101 • (619) 232-0225

Lou & Mickey's at the Gaslamp 224 Fifth Ave.
San Diego, CA 92101 • (619) 237-4900

Max New York 827 Fifth Ave.
San Diego, CA 92101 • (619) 235-8500

Morton's of Chicago 285 J St.
San Diego, CA 92101 • (619) 696-3369

Ocean Room 630 5th Ave. (Oyster Bar)
San Diego, CA 92101 • (619) 501-6550

Osetra The Fishhouse 904 Fifth Ave.
San Diego, CA 92101 • (619) 239-1800

Rei Do Gado 939 Fourth Ave. (Brazilian)
San Diego, CA 92101 • (619) 702-8464

Rockin Baja Lobster 310 Fifth Ave.
San Diego, CA 92101• (619) 234-6333

The Lobster Co. 420 E. St.
San Diego, CA 92101 • (619) 233-3377

The Tin Fish 170 Sixth Ave.
San Diego, CA 92101 • (619) 238-8100

Pubs/Breweries:

Blarney Stone Pub 502 Fifth Ave.
San Diego, CA 92101 • (619) 233-8519

Dick's Last Resort 345 Fourth Ave.
San Diego, CA 92101 • (619) 231-9100

Hennessey's Tavern 708 Fourth Ave.
San Diego, CA 92101 • (619) 239-9994

Henry's Pub 618 Fifth Ave.
San Diego, CA 92101 • (619) 238-2389

Mexican:

La Cantina Restaurant and Lounge 535 4th Ave.
San Diego, CA 92101 • (619) 239-1808

Las Fajitas 628 Fifth Ave.
San Diego, CA 92101 • (619) 232-4242

Los Panchos De Charly 431 E St.
San Diego, CA 92101 • (619) 237-1320

Asian:

Kiyo's Japanese Restaurant 531 F Street
San Diego, CA 92101 • (619) 238-1726

Octopus Garden 314 Fifth Ave. (Sushi)
San Diego, CA 92101 • (619) 233-1653

Ra San Diego 474 Broadway (Thai)
San Diego, CA 92101 • (619) 321-0021

Red Pearl Kitchen 440 J St.
San Diego, CA 92101 • (619) 231-1100

Royal Thai Cuisine 467 5th Ave.
San Diego, CA 92101 • (619) 230-THAI

Sushi Bar Nippon 532 Fourth Ave.
San Diego, CA 92101 • (619) 544-9779

Sushi Deli 2 135 Broadway
San Diego, CA (619) 233-3072

Sushi-Itto 409 F St.
San Diego, CA 92101 • (619) 237-1037

Taka Sushi 555 Fifth Ave.
San Diego, CA 92101 • (619) 338-0555

Visions Restaurant & Lounge 555 Market St.
San Diego, CA 92101 • (619) 501-4772

Other:

Bandar Persian Cuisine 825 Fourth Ave.
San Diego, CA 92101 • (619) 238-0101

Belo Restaurant + Nightlife 919 4th Ave.
San Diego, CA 92101 • (619) 231-9200

Cafe Sevilla 555 4th Ave. (Tapas)
San Diego, CA 92101 • (619) 233-5979

Cesar Caribbean Tapas & Bar 503 5th Ave.
San Diego, CA 92101 • (619) 233-3166

Geospatial Services Model and Geospatial Modernization Blueprint

Serving the Geographic Business Needs of the U.S. Department of the Interior

The "Geospatial Services Model: Serving the Geographic Business Needs of the U.S. Department of the Interior" and the Geospatial Modernization Blueprint describes the critical findings and recommendations resulting from a geospatial analysis of those bureaus under the U.S. Department of the Interior (DOI). DOI's business activity depends on geospatial information—knowing where things are and understanding how they relate to one another. The purpose of these documents is to define how geospatial data and technology will be used to enhance DOI business activities and the achievement of its mission and goals. Geospatial data and technology are strategic, national assets involving major investments. While geospatial capabilities have been implemented in all DOI bureaus, the implementation hasn't been documented or systematic, causing impediments to potential interoperability and lost potential for cost savings. Geospatial information is produced and maintained by many different bureaus and program areas in DOI, resulting in a confusing collection of data and services that are difficult for DOI business areas to utilize. DOI's geospatial investments, assets, and services currently are not managed in a cohesive manner.

The Geospatial Services Model and the Geospatial Modernization Blueprint (GMBP), available at http://www.nps.gov/gis/egim/, describe a recommended path to a target state and milestones for measuring performance. This modernization blueprint is part of the DOI Enterprise Architecture process that is developing take-action modernization blueprints [1] using the Methodology for Business Transformation (MBT) process [2]. This process conforms to the Federal

> DOI geospatial business stakeholders are confronted by a common set of issues and needs. These include:
> - "I know the information exists, but I can't find it ..."
> - "If I can find it, can I trust it"? "I don't know who else I could be working with ..."
> - "I have no way to share costs across DOI."
> - "[What are] all the existing DOI geospatial capabilities."

Enterprise Architecture (FEA) [3] efforts with the goal of making the best use of available funds to achieve strategic goals and objectives for the DOI through Information Technology (IT) Capital Planning and Investment Control (CPIC) [4]. DOI's Geospatial Blueprint effort has been coordinated with the Office of Management and Budget's (OMB) Geospatial Line of Business (GeoLoB) [5] to prevent duplication of effort and to ensure a clear division of labor with other federal agencies. The Enterprise Geospatial Information Management (EGIM) team [6], composed of bureau subject matter experts on the Geospatial Enterprise effort within DOI, was tasked to support the development of the GMBT in coordination with the Core Modernization Blueprint Team (CMBT) [7] or Core Team, composed of bureau executives and sponsors, which provides governance for the GMBP.

The recommendations identified in these reports are centered on creating a strategic shift in the delivery of future geospatial data and services. These recommendations are intended to provide the foundation for a sustainable migration to a service delivery model for DOI business improvement. This migration involves an approach that includes the optimization and standardization of geospatial programs, systems, and data assets to achieve an integrated "enterprise services" model that is supported by an improved governance approach and coordinated enterprise planning and investment strategy (Figure 1). The OMB GeoLoB [5] has established these categories to classify federal geospatial improvement efforts.

Figure 1.   Geospatial Blueprint Recommendations

Printed on recycle

Vision:

DOI mission areas and goals of resource protection and use, recreation, and serving communities are enabled effectively and efficiently with geospatial data, information, and services [5]. The vision for the geospatial business focus area is to:

- Improve the ease, usability, and reuse of location-based information and services

- Create long-term savings and business efficiencies

- Improve the effectiveness of DOI investments

Strategies and objectives for achieving the geospatial vision for DOI include:

- Identification and development of critical reusable enterprise geospatial services and supporting business processes to improve business effectiveness

- Identification of areas to improve existing business processes, data, or IT to support program decision making

- Improvement in the usefulness of existing geospatial investments and assets by:

  - Identifying opportunities to collaborate

  - Improving geospatial interoperability through appropriate standards adoption

- Reducing duplicative databases and business processes

- Aligning "best-of-breed" existing capabilities with existing and future requirements

- Investing in missing capabilities to achieve program objectives

- Improving the quality and reliability of DOI-trusted data assets

Recommendations:

Establish Geospatial Governance, Geospatial Management Office, and Portfolio Management — Effective governance will facilitate optimization of business planning requirements, reduction of unnecessary expenditures, management of Service Level Agreements (SLA), Enterprise License Agreements (ELA), data exchange agreements, and optimization of IT investment requirements for the portfolio (Figure 2). Implementation of this recommendation will aid in development of an inventory of enterprise data and services creating a geospatial portfolio for DOI. Geospatial technology, services, and information assets will get an established baseline value and efficiency contribution to DOI's business. This recommendation is a key solution necessary to adopt shared enterprise business practices to deliver consistent, high-quality data and to manage operational costs.

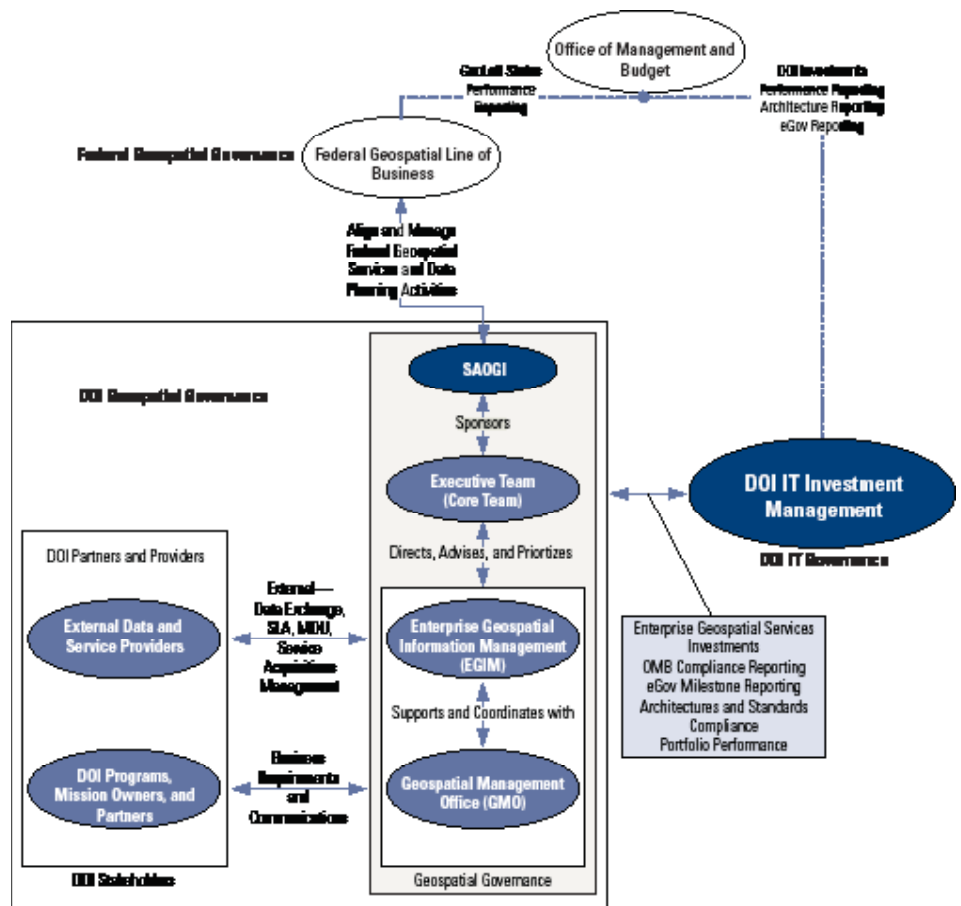Digital Raster Graphic (DRG) San Francisco area (Credit: USGS)

Figure 2.   Geospatial Governance Model Recommendations

Establish a Geospatial Business Requirements and Investment Planning Process — Acquisition costs for DOI's geospatial data, services, and products have been hidden from true understanding at the enterprise level. Improvements in costs and efficiency, or benefits to the business have not been established quantitatively. Implementation of this recommendation would manage and optimize the requirements to identify cost savings and avoidance opportunities for contract services, skills, data, IT services, and technology purchases, as well as enhance DOI's work activity and CPIC [4] planning efforts.

Establish Authoritative Data Sources (ADS) and Supporting Geospatial Services – Implementation of this recommendation will establish data-management control to support standards development effective data management and will reduce redundant proliferation of service development. The ADS governance approval will involve the Data Advisory Committee, Geospatial Core Team, affected bureau or program sponsors, principal data stewards, and the DOI Investment Review Board (IRB). Governance and consistent, reliable, funding mechanisms will be determined to support sustainable ADS implementations and to build cross-organizational trust.

The DOI ADS approval process consists of three phases:

- Assess and designate the candidate ADS
- Acceptance
- Transition and Maintenance
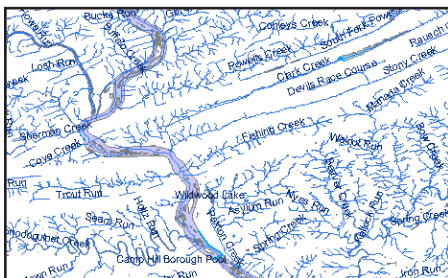
National Hydrography Dataset subbasin (Credit: USGS)

Establish Data Lifecycle Management, Policy, and Services Practices – Implementation of this recommendation will establish data lifecycle management, standards, policy, and

services practices. This effort will align local geospatial data producers and the target ADS to establish standards, best practices, and to provide a sustainable ADS model. In addition to increased data reuse potential, the lifecycle processes will greatly enhance the capability to track data assets of DOI-wide interest that are produced in its federated model. The federated model recognizes the need for organizationally and geographically distributed information producers with their expertise to be key contributors to the enterprise model. The preferred solution would be to extend the existing capabilities of Geospatial One-Stop (GOS) [11] to accommodate this process.

ADS Services:

- Data Service
- Map Service
- Exchange Service

Establish DOI Product Generation Services for Geospatial Products and Information – Implementation of this recommendation will establish DOI product generation services for geospatial products and information and provide access to a consistent, business-oriented and user-friendly system to present, manage, process, and deliver available geospatial data, products, and services. The target model is designed to address simplified access across multiple repositories of data, provide standardized product configuring, eliminate the development of similar functionality at each ADS, and provide efficiencies by automating complex data manipulations. This will make it possible to develop functionality once, reuse it for many systems in the enterprise, and identify future functionality.

Key Business Operations Supported by Product Generation Services:

- Provide a business oriented DOI-wide geospatial product catalog
- Provide data services to generate geospatial databases, products, etc.
- Provide user navigation, product configuration, and status tracking services

Implement Geo-Enabled Key Asset and Stewardships Business Systems Interfaces – Implementation of this recommendation will geo-enable key asset and stewardships business system interfaces and will provide the ability to spatially associate and display such information. The geospatial interfaces take advantage of existing key enterprise data assets and offer a new means to perform quality assurance, analysis, visualization, and reporting on improved real property and land assets.

Vegetation survey Klamath Marsh, Oregon with FWS (Credit: BOR)

Adopt and Implement Geospatial Interoperability Standards and Licensing for Enterprise Geospatial Technology and Data – Implementation of this recommendation identifies the need to establish key technologies and standards for existing applications and new technology investments and establishes a cost benefit recommendation for the respective products and reviews by the DOI governance community. Technology and interoperability standards will be evaluated for adoption into the DOI Technical Resource Model (TRM). Interoperability specifications such as the Open GIS Consortium (OGC) will be foundational to the development and maturity of the DOI geospatial services.

Implementing Technology Standards:

- Review standards and adopt those appropriate and applicable for geospatial technologies
- Establish training for developers to ensure adoption of OGC services and standards
- Establish ELAs for key supporting technologies

Business Transformation Sequence Plan:

The transformation sequence plan for the recommendations is presented in Figure 3. This plan summarizes the tasks and timelines identified for each of the recommendations and requires that multiple activities start in parallel. Detailed discussion of analysis and supporting information will be available in the Geospatial Modernization Blueprint scheduled for publication late in 2007. Final approval of the blueprint is anticipated by the IRB in 2007.
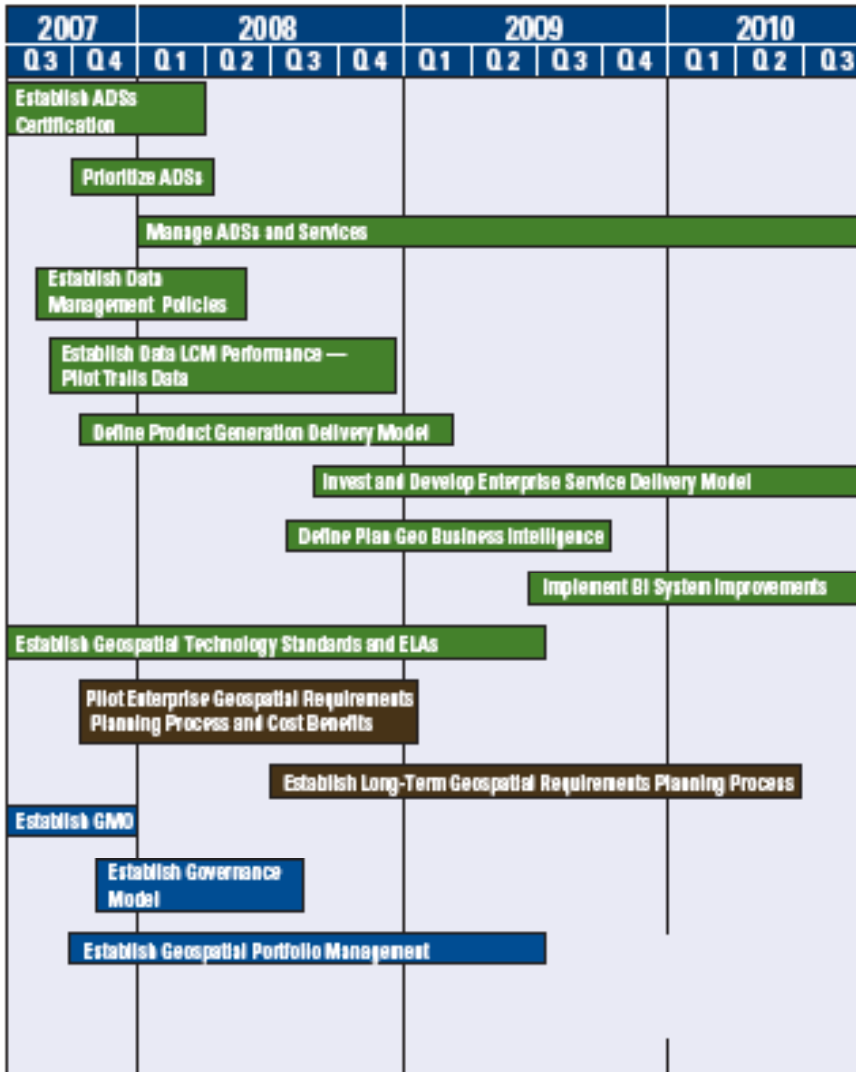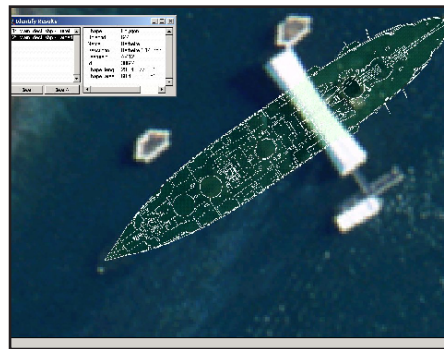

Figure 3.   Recommendation Implementation Overview

USS Arizona mapping project (Credit: NPS)

USS Arizona map project in GIS (Credit: NPS)

For more information:

Further information can be obtained at http://www.nps.gov/gis/egim or contact Dr. Bob Pierce at 703-648-5231 or rrpierce@usgs.gov.

References:

1. Office of Management and Budget, 2004, OMB Circular A-11: Preparation, Submission, and Execution of the Budget, p. 746. Available at http://www.whitehouse.gov/omb/circulars/a11/current_year/a_11_2004.pdf. Additional information available at http://www.doi.gov/ocio/cp/index.html

2. Department of Interior, 2006, Methodology for Business Transformation, Version 1.5. Available at http://www.doi.gov/ocio/architecture/mbt/mbt_services.htm

3. Executive Office of the President of the United States, Office of Management and Budget, 2004, Federal Enterprise Architecture Program Management Office, p. 20. Available at http://www.whitehouse.gov/omb/egov/documents/FEA_Overview.pdf

4. Department of the Interior, Office of the Chief Information Officer, 2005, Information Technology Capital Planning and Investment Control, p. 175. Available at http://www.doi.gov/ocio/cp/cpic_guide.pdf

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

6. Department of the Interior, 2005, Enterprise Geospatial Information Management, Fact Sheet. Available at http://mms.nps.gov/gis/egim/documents/egim.pdf

7. Department of the Interior, 2005, Core Modernization Blueprint Team (CMBT) for the Department of Interior's (DOI) Geospatial Modernization Blueprint, p. 6.

8. U.S. Department of the Interior, 2005, President's Quality Award Application, Interior Enterprise Architecture, 10 p. Savings from DOI Enterprise Licensing Agreement for ESRI Products (EGIM).

9. National Aeronautics and Space Administration (NASA) Geospatial Interoperability Office, 2005, Geospatial Interoperability Return on Investment Study, 80 p. Available at http://gio.gsfc.nasa.gov/docs/ROI%20Study.pdf

10. Moreland, D., 2007, Department of Interior High-Priority Mapping Program 1994–2005, written communications.

11. Federal Geographic Data Committee, 2006, Geospatial One-Stop—Encouraging Partnerships to Enhance Access to Geospatial Information, Factsheet p. 2. Available at http://www.fgdc.gov/library/factsheets/documents/gos.pdf. Main web site at http://www.geodata.gov

DOI Geospatial Modernization Blueprint Implementation Update – 2008 Priorities

In December 2007 the Department of the Interior approved a Geospatial Modernization Blueprint (GMBT). The Vision of the GMBT is that: "DOI mission areas….. are enabled effectively and efficiently with geospatial data, information and services. "

To do that we will:
• Improve the ease, usability, and reuse of location-based information and services
• Create long-term savings and business efficiencies
• Improve the effectiveness of DOI investments

What are we doing?

In order to accomplish those objectives the GMBT made several broad recommendations:
• Establish Authoritative Data Sources and Services (ADS) for high priority data assets
• Pilot Business Driven Requirements Planning and Management Services
• Establish and Manage the DOI Geospatial Portfolio
• Establish an Enterprise Governance Structure for Geospatial

The Enterprise Geospatial Information Management (EGIM) Team has been working on the GMBT since its initial development phase and has been tasked with working on the implementation of the GMBT as well. Due to the broad scope of the GMBT in combination with an existing EGIM workload EGIM and the Geospatial Management Office (GMO) have developed a list of priority tasks for calendar year 2008. These tasks have been vetted through the Geospatial Core Team to ensure management support and concurrence with the priorities. The EGIM Team is actively working to complete the tasks.

In order to effectively manage and track the large number of tasks included in the 2008 GMBT Priorities the work has been divided into five Focus Areas. Each focus area is being managed by an EGIM work group using project management tools.

The use of the red/green/yellow stoplight for project management is well established in DOI for Electronic Government reporting and has been adopted by EGIM as an understandable, established tool.

Red	Yellow	Green
One or more status area is red <80% milestones hit	One or more status area is yellow 80%-90% milestones hit	All status areas are green >90% milestones hit

The Policy and Governance tasks probably have the greatest impact on the remainder of the GMBT implementation as they will provide the staff and authorities needed to effectively perform the rest of the tasks.

Policy and Governance	And in Plain English
Establish Geospatial Management Office	Get the staff needed to do the job
Establish priorities and performance metrics	Use tangible products or actions to measure progress
Complete and get approved governance documents such as charters, DOI manual chapter updates, MOAs	Give the staff the tools needed to do the job
Establish Data Management Lifecycle Policy and Practices	Manage DOI data as an enterprise asset
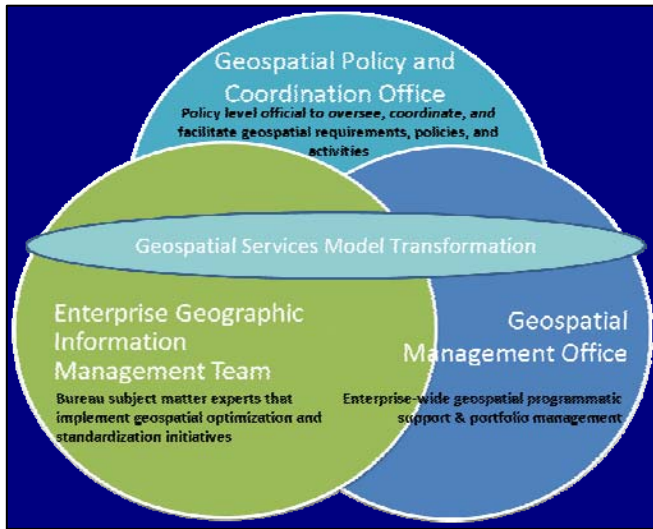
Proposed governance structure

The Outreach and Communication workgroup assists in spreading the word on what EGIM is doing to implement the GMBT as well as creating tools such as a Change Management Plan to help cause the cultural changes that will be needed at DOI to do business in an enterprise fashion.

Outreach & Communications	And in Plain English
Complete Master GMBT Priority Program Plan	Get the tasks organized and staff assigned
Complete Communications & Change Mgmt Plan	Show how the GMBT will change DOI geospatial business processes and spread the word
Complete Road Show Briefings & Fact Sheets; Refresh EGIM web site & establish collaboration site	Create the products to let people know what's going on

Technology Leadership	And in Plain English
Complete various DOI Geospatial Enterprise License Agreement	Provide DOI Geospatial users with more software for fewer dollars (cost avoidance).
Increase coordination with DOI Chief Technology Office Council (CTOC) on specialized geospatial needs	Remove technical obstacles for geospatial users
Implement consolidated software and security testing	Faster testing of new software, reduced effort for each Bureau

Modernized Business Practices	And in Plain English..
Establish geospatial requirements planning capability	Help users find partners to cost share geospatial acquisitions; save DOI money
Establish catalog of geospatial products & services	Let users know what geospatial assets already exist
Identifying candidate projects, programs and datasets to geospatially enable	Identify items can benefit from adding geospatial components
Finalize requirements & Pilot Knowledge Base	Make it easier to find answers to geospatial questions

Modernized Business Practice: Teaching Whooping Cranes a migration route with an Ultralight, using GPS and GIS to show the flight progress on the Internet.

Stewardship & Accountability	And in Plain English..
Complete Bureau Subsidiary Plans	What steps does each individual bureau needs to take to get the work done
Provide Templates or other guidance for implementing an ADS	Create a cookbook for implementing an ADS; simplify the task
Complete Trails ADS Concept of Operations	How does DOI implement the ADS concept for a highly distributed dataset
Implement Geospatial Data Stewardship	Give staff who know the data the responsibility for managing it

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

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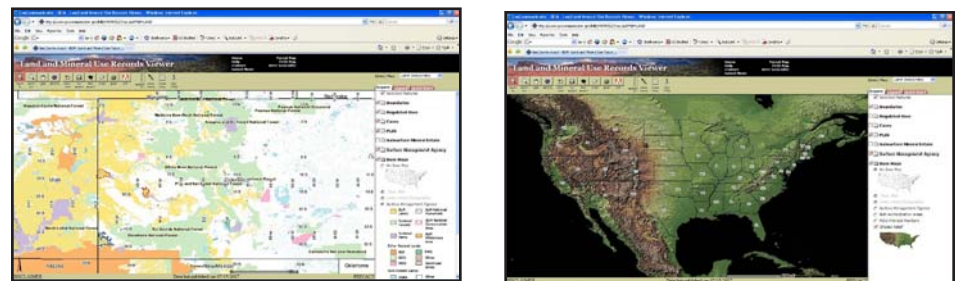
Figure 2. Do you know? You can use the BLM Land Manager Viewer to see a map of Federal Lands in the United States? Go to http://www.geocommunicator.gov/ and explore the possibilities.

> 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].

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

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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

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

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

Shasta Dam, Shasta, California (Credit: BOR)

Geospatial training class (Credit: NPS)

Websites of interest:

EGIM	http://www.nps.gov/gis/egim/
DOI	http://www.doi.gov/
Geospatial One-Stop (GOS)	http://www.geodata.gov
BIA	Temporarily offline
BLM	http://www.blm.gov/
GCDB	http://www.blm.gov/gcdb/
Geocommunicator	http://www.geocommunicator.gov/
NILS	http://www.blm.gov/nils/
BOR	http://www.usbr.gov
Dataweb	http://www.usbr.gov/dataweb/
FGDC	http://www.fgdc.gov/
FWS	http://www.fws.gov/
Geographic information	http://www.fws.gov/data/
MMS	http://www.mms.gov/
Maps	http://www.mms.gov/ld/Maps.htm
NPS	http://www.nps.gov
GIS	http://www.nps.gov/gis/
IMC	http://maps.nps.gov
OSM	http://www.tips.osmre.gov/
USGS	http://www.usgs.gov
National Map	http://nationalmap.usgs.gov/

Abbreviations and Acronyms:

AS-IA	Assistant Secretary—Indian Affairs (DOI)
BIA	Bureau of Indian Affairs (DOI)
BLM	Bureau of Land Management (DOI)
BOR	Bureau of Reclamation (DOI)
DOI	U.S. Department of the Interior
EGIM	Enterprise Geospatial Information Management
FGDC	Federal Geographic Data Committee
FWS	Fish and Wildlife Service
GCDB	Geographic Coordinates Data Base
GeoLoB	Geospatial Line of Business
GIS	geographic information systems
GMBT	Geospatial Methodology for Business Transformation
GOS	Geospatial One-Stop
IMC	Interactive Map Center
MMS	Minerals Management Service (DOI)
NILS	National Integrated Lands System
NPS	National Park Service (DOI)
OSM	Office of Surface Mining (DOI)
USGS	U.S. Geological Survey (DOI)

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
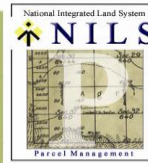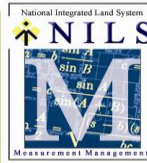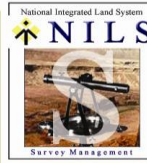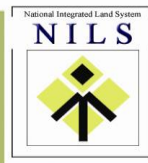
NILS – Web Services and GeoRSS

The National Integrated Land System (NILS) is a joint development project between the BLM and the U.S. Forest Service (USFS) conducted in partnership with states, counties, and private industry to provide a comprehensive solution for integrating survey data with parcel-based land records in an enterprise GIS environment.

NILS provides the capability for offering Web Services and GeoRSS that can be used within NILS GeoCommunicator (geocommunicator.gov) or by developers for use in their own applications. The web services/GeoRSS were developed in partnership with the Department of the Interior - Enterprise Geographic Information Management (EGIM) team. The Web Services use the NILS Public Land Survey System (PLSS) data in NAD 83 Geographical Coordinate System as the source of the data. BLM is the federal authoritative data source for the PLSS data.

What is GeoRSS?
A GeoRSS or Geographic Really Simple Syndication is a web feed format used to publish content for geographic locations. GeoRSS uses a simple XML-based file format for passing location information.

Use these services in NILS GeoCommunicator or develop your own interface within your application for these web services.

NILS GeoCoder – provides the capability to convert PLSS (state, meridian, township, range, section, and aliquot) land descriptions into latitude and longitude and vice versa. The NILS GeoCommunicator tool shown to the right is useful for finding fire and well locations.

NILS Derive Land Description (LD) – The **NILS Derive LD** provides the capability to click or draw a box on a map such as Google Earth and have a land description containing state, meridian, township, range, section, and aliquot returned. Below are 3 examples using different sources.
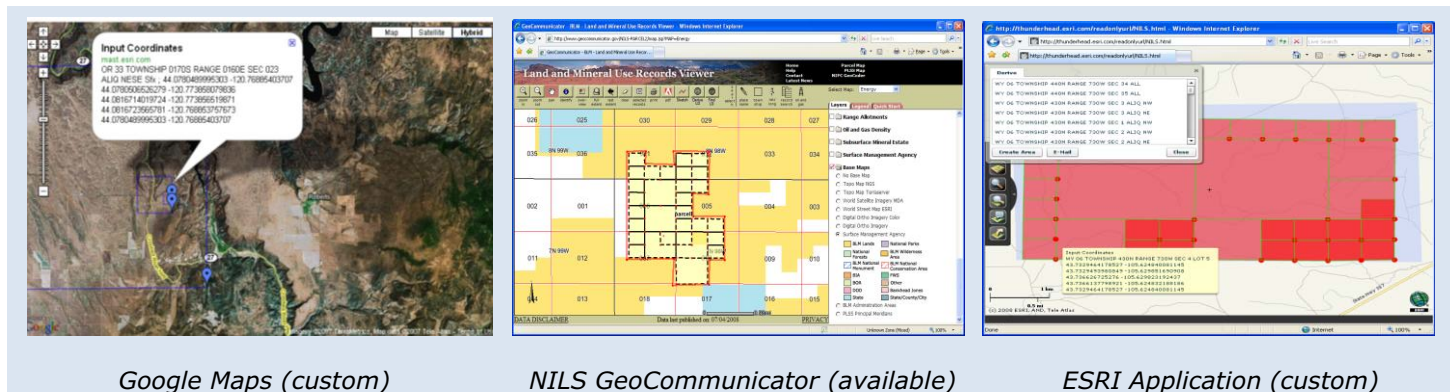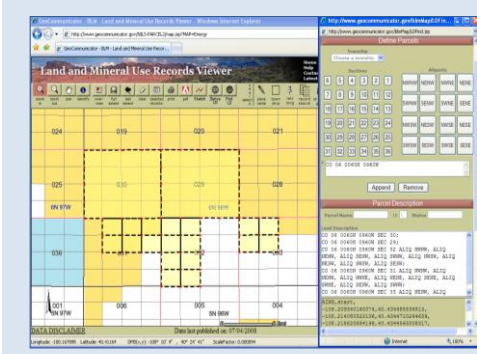

Google Maps (custom)   NILS GeoCommunicator (available)   ESRI Application (custom)

NILS Find Land Description (LD) – **NILS Find LD** provides the capability to enter in a land description that includes state, meridian, township, range, section aliquots, survey type, survey number, and suffix. The system will return the latitude and longitude of the polygon. The latitude and longitude information can be copied and pasted or used to find the polygon on the map. Below are 2 examples using different sources.
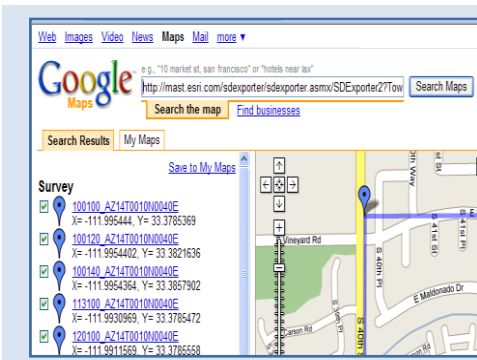
NILS GeoCommunicator (available)
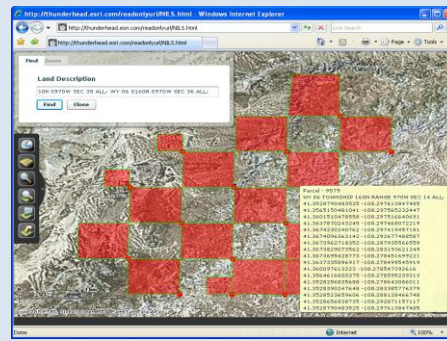
ESRI Application (custom)

NILS Survey Data Exporter – **NILS Survey Data Exporter** provides the capability to acquire survey and survey-based data for townships within the Public Land Survey System. The requestor submits a list of townships, the desired format (KML, GPX, List, or GeoRSS), and the desired export content (all points, all points and lines, or control points). The system returns the township data in the specified format. Below are 3 examples using different sources. The PLSS data can also be downloaded as GIS Shape files directly from NILS GeoCommunicator.

Google Maps (custom)

NILS GeoCommunicator (Available)
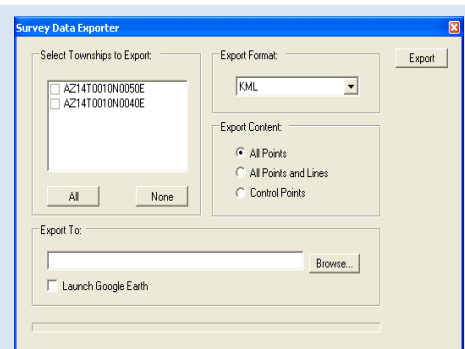
NILS Internal Application

For information on the Web Services and GeoRSS including xml code and instructions on how to use the tools in NILS GeoCommunicator please refer to the Map and Data Services Section on GeoCommunicator at http://www.blm.gov/nils/GeoComm/home_services.html.

Contact: John Reitsma, Bureau of Land Management, National Applications, Email: jreitsma@blm.gov
NILS GeoCommunicator Web Site: http://www.geocommunicator.gov

The NILS Web Services and GeoRSS are sponsored by the Department of the Interior, Enterprise Geographic Information Management (EGIM) team.

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National Integrated Land System (NILS)

www.blm.gov/nils