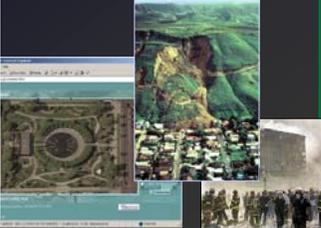
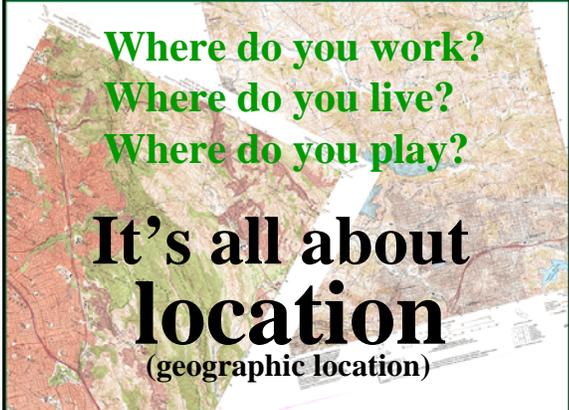




Facilities & Asset Management Conference
ORLANDO - FLORIDA
Stewardship of Federal Assets
United Commitment to Excellence

May 3-7
2004

Facility Locator Service & GIS

**Where do you work?
Where do you live?
Where do you play?**

It's all about location
(geographic location)

What are the landuses adjacent to Langley (LRC)?

Will the property at 43 Star St be affected by the Potomac flooding?

Is this project in Congressman Yates Congressional District?

How many people will be affected by a terrorist act in downtown DC?

All questions that are locational/geographic/spatial in nature



Location/Geography Provides A Framework and Language



... Organizing Our World (NSDI)



integration

Bureau property DB's

FPPS

EMS / Hazards

FBMS

Public safety & awareness

GSA

Quarters Management Information System

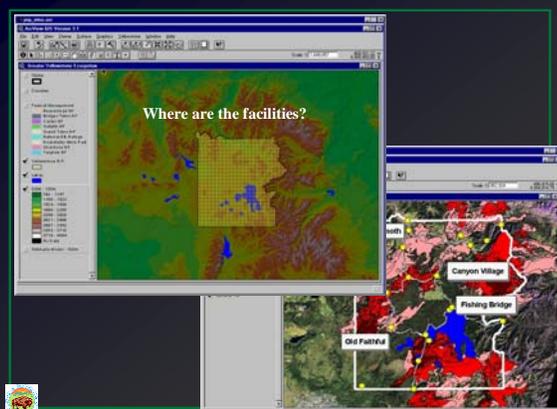
Common ID & location

FLS

MAXIMO

Law Enforcement

107 property management systems in DOI

Where are the facilities?

Canyon Village

Fishing Bridge

Old Faithful



Interior Geographic Data Committee: Management Application Subcommittee

- Charge from Secretary
 - Template for tracking / reviewing cost of geospatial information
 - Pilot demo: an electronic locator system (co-location possibilities)



Location. Location, location . . .

DOI Facility Locator Service



DOI FACILITIES

(6745 total locations)
(39,000 buildings)

**GSA-Affiliated
"rent/bill DB"**
1038 locations
(USGS 214)

- GSA maintained
- Good physical addresses

**DOI owned/leased
"world-wide facilities DB"**
5607 locations
(USGS 80)

- Records sent annually by Bureaus
- Very few physical addresses



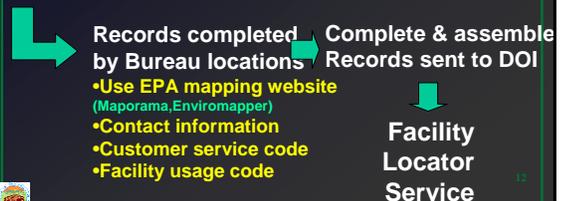
GSA Affiliated: ("rent/bill" DB)

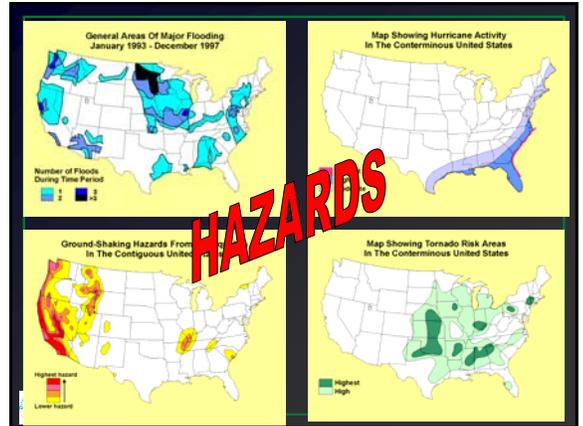
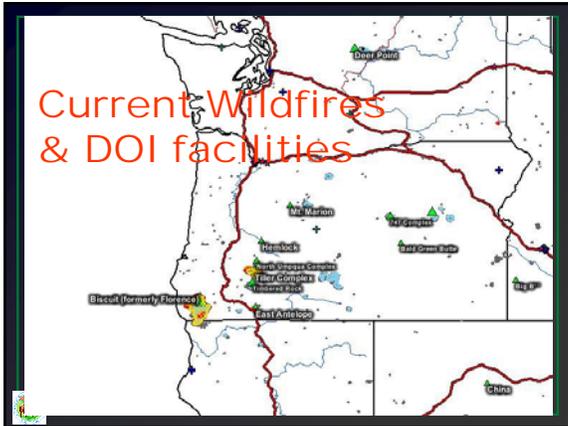


DOI owned/leased (www)

Proposed process:

World wide Inventory
Records needing
Completion sent to Bureaus





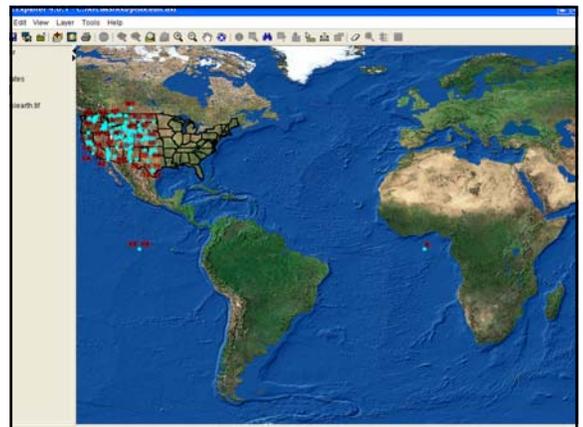
Addition requests from MIT

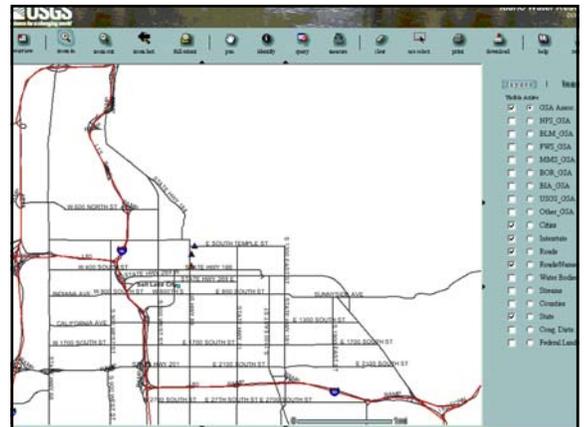
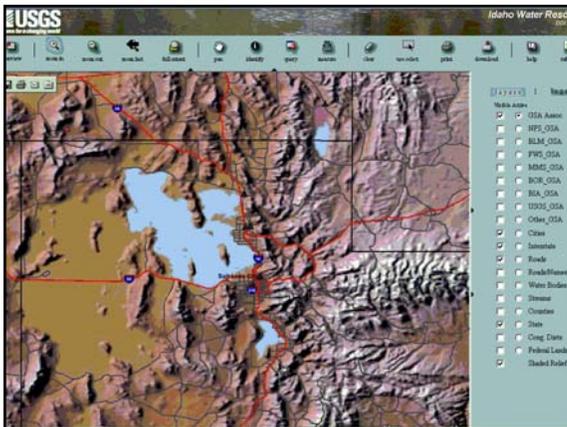
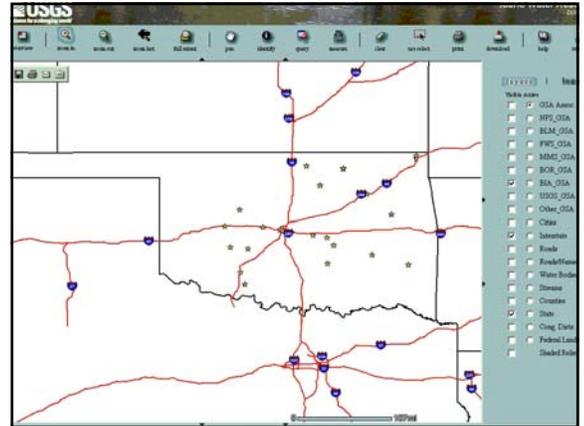
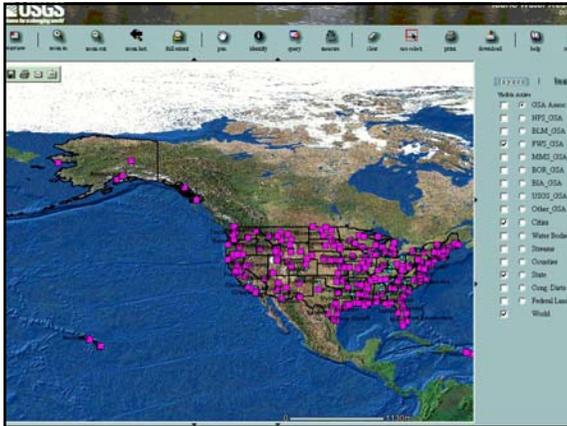
- Where are DOI employees located : Link to FPPS
- Location of emergency equipment
- Location of emergency trained employees
- Co-location opportunities
 - Internal efficiency
 - Improved service delivery



Attribution

- Unique building ID
- Installation name
- Physical address
- Lease expiration date
- Contact name/office
- Phone #
- Bldg usage code
- Public service code
- # of employees
- Square footage
- Lat-lon
- Safety equipment at site
- Name of employees with emergency training at each site





ORGANIZATION	LATITUDE	CODE	NAME	ADDRESS	CITY	STATE	ZIP	ZIP4	BLDG_RPT	BUREAU	AGENCY_CLASS	TELETYPE	REP_PERSON	EST_YEAR
00000000	46.77044444	UT000	BLAKE BLDG	100 S S TEMPLE	SALT LAKE CITY	UT	84111	84111	9076	9	9079	02	OFF HEAD R APPL	12
00000000	46.77044444	UT000	COOR FINANCIAL CTR	100 S S TEMPLE ST	SALT LAKE CITY	UT	84111	84111	9076	11	10004	02	BUR LEAD MGMT	146
00000000	46.77044444	UT000	COOR FINANCIAL CTR	100 S S TEMPLE ST	SALT LAKE CITY	UT	84111	84111	9076	17	10208	02	WEL PARK DIRV	146
00000000	46.77044444	UT000	WALLACE F BENNETT F	100 S S TEMPLE ST	SALT LAKE CITY	UT	84111	84111	9076	22	87647	02	BU OF RECLAMATION	462
00000000	46.77044444	UT000	WALLACE F BENNETT F	100 S S TEMPLE ST	SALT LAKE CITY	UT	84111	84111	9076	27	88691	02	OFF COLLECTOR	462
00000000	46.77044444	UT000	WALLACE F BENNETT F	100 S S TEMPLE ST	SALT LAKE CITY	UT	84111	84111	9076	28	9	02	FINANCIAL SVCS	462

Facility Locator Service maintenance . . .

- **DOI Space Management Project**
 - Leverage GSA efforts
 - interface with
 - MAXIMO
 - FBMS
 - IMARS
 - FPPS
 - others

Current Status of data from the Bureaus

	# records received	% complete ID/DS/LL	# in WWI
• NPS	1088	46/82/55	475
• BLM	289	90/43/78	1861
• FWS	1121	62/64/99	1315
• BOR	1670	99/82/75	947
• BIA	0		1182
• USGS	630	100/0/93	90
• Others	0		2

ONRC, MMS, OSM, DOI

MIP - SPACE MANAGEMENT

MANAGEMENT IMPROVEMENT memo from P. Lynn Scarlett 8/18/03

- Analyze and make recommendations to strengthen the **governance of the Department's real property portfolio** (DOI owned and leased, GSA owned and leased)
- **Identify cost-effective opportunities to consolidate space management** Department wide including centralizing management of leases and maximizing collocation opportunities
- **Develop, issue and enforce consistent application of policies,** procedures

Group 1: Space Data Base team -- Create the Portfolio of Real Property

- Expand functionality to provide a master database of all Departmental real property;
- Update database to include all current and planned leases, as well as locations of buildings owned by DOI;
- Expand to include future leasing requirements and ensure locations of buildings owned by the Department are in the database;
- Develop cost estimates and plan for establishing and maintaining the database.

Bob Pierce, lead

Group 2: Policy Team -- Update & Establish Space Policies & Guidance

- Inventory Department/Bureau/Regions/Offices space policies and guidance;
- Identify "best practices" to Update Departmental policies;
- Establish DOI standard policies and procedures
- Develop guidance to address "office of the future " concepts and principles (i.e., telecommuting, shared space and administrative support); and
- Empower Space Coordination Council to develop, evaluate and oversee the implementation of new policies and procedures.

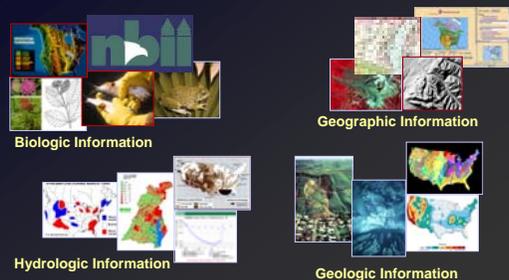
Bruce Blackstone, lead

Group 3: Department Space Resources Team-- Perform Analysis of Portfolio & Make Recommendations to Improve Space Management in DOI

- Identify personnel and budget that are solely dedicated to or have part time responsibilities in space area ;
- Analyze data and develop a strategic plan to establish the bureau and Departmental portfolio of leased space Departmentwide and to identify current and future space needs, schedules and collocation opportunities ;
- Analyze data and develop plan to integrate space management operations including development of DOI strategic management function;
- Develop recommendations as to how best to utilize or not utilize GSA leasing services, contractor support & in-house staff

Keith Anderson, lead

GIS integrating our world reducing the organizational "Stovepipes"



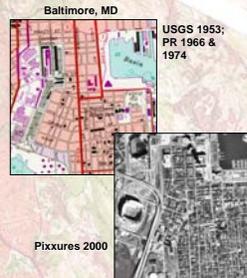
USGS' Most Famous Product



- Once-over coverage was an immense engineering feat
- Cost of replication today would be over \$2 billion
- The only national synthesis of topographic content that is...

*Comprehensive
Transjurisdictional
Border to border and
coast to coast*

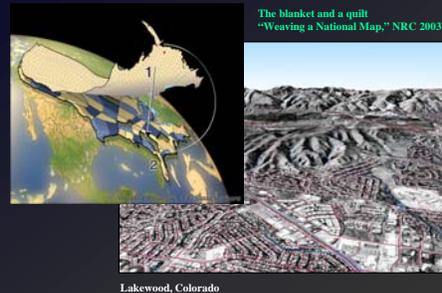
What's Happened to USGS Topographic Maps?



- Value is eroding rapidly as maps become increasingly outdated
- Divergence between base data and topographic maps
- Duplication of effort among and between geographic information sectors



A National Information Synthesis



The National Map: Access and Use

- **Around-the-clock Internet access**
- User-specified combinations of data and geographic area
- Public domain base data content
- Updated paper topographic maps derived from *The National Map*
- Base for other datasets – USGS scientific studies, geodetic control, US Public Lands Survey, socioeconomic data
- Links to State, local, and commercial datasets – higher resolution, enriched content and attributes

The National Map: Characteristics

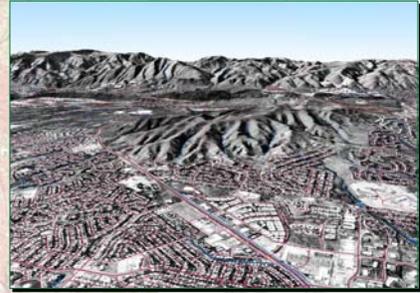
- **Current** – continuous revision
- **Seamless** – no arbitrary edges
- **Complete and consistently classified** – built on the best available data
- **Variable resolution** – accommodate local conditions
- **Integrated within and between themes of data** – positional and logical consistency
- **Geographic** – no cartographic generalizations
- **Temporal record** – versioning and transactional updates
- **Metadata** – data set and feature level

The National Map: Data Content

- Orthorectified imagery
- Land cover
- Elevation
- Vector layers:
 - Transportation
 - Hydrography
 - Structures
 - Boundaries
- Geographic names



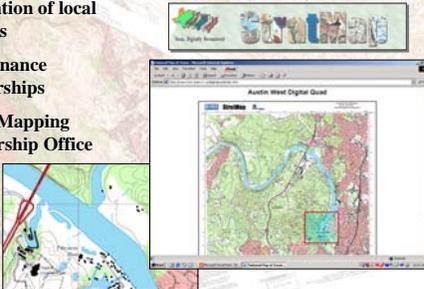
The National Map



Lakewood, Colorado

Texas Pilot Project

- Integration of local datasets
- Maintenance partnerships
- USGS Mapping Partnership Office



www.tnris.state.tx.us/digitalquad/index.htm

Delaware Pilot Project

- A partnership between:

USGS
 Delaware State GIS Committee
 Delaware Geological Survey
 University of Delaware



- Interactive
- On-line at <http://www.datamil.udel.edu/nationalmappilot>

The National Map

Current, complete, consistent base geographic data on the Web to meet national needs

- Orthorectified imagery
- Land cover
- Elevation
- Vector layers:
 - Transportation
 - Hydrography
 - Structures
 - Boundaries
- Geographic names



The National Map



Federal Geographic Data Committee

FGDC leads the development of:

- Policies, Standards, and Training to support the NSDI
- Coordination efforts



A decade ago . . .

National Spatial Data Infrastructure (NSDI)

Executive Order 12906

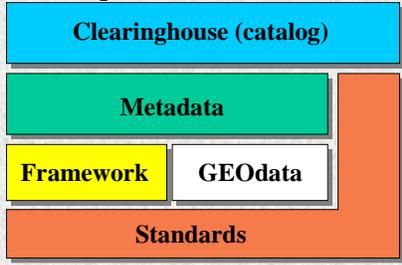
Published in the April 13, 1994, edition of the *Federal Register*, Volume 59, Number 71, pp. 17671-17674.

COORDINATING GEOGRAPHIC DATA ACQUISITION AND ACCESS: THE NATIONAL SPATIAL DATA INFRASTRUCTURE



National Spatial Data Infrastructure

Partnerships



clearinghouse

250 spatial data servers



The Official Web Site of the President's E-Government Initiatives

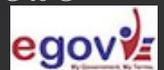
E-Gov Initiatives

- Federal OMB TaskForce
- Purpose: Recommend "High Payoff" E-Gov Initiatives
- 24 Initiatives were selected



E-Gov initiatives

- USA SERVICES G to C
- BUSINESS GATEWAY G to B
- RECREATION.GOV G to C
- DISASTER MANAGEMENT G to G
- E-AUTHENTICATION G to C
- E-TRAVEL G to G
- GEOSPATIAL ONE-STOP G to G



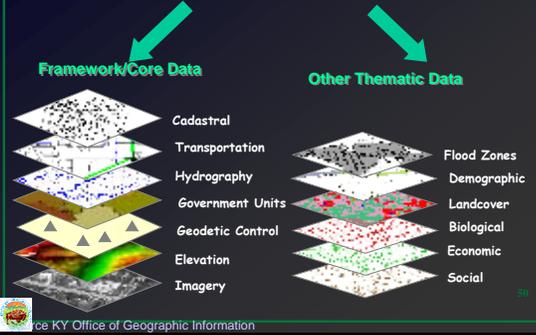
Geospatial One-Stop (GOS)

To *spatially* enable the delivery of government services

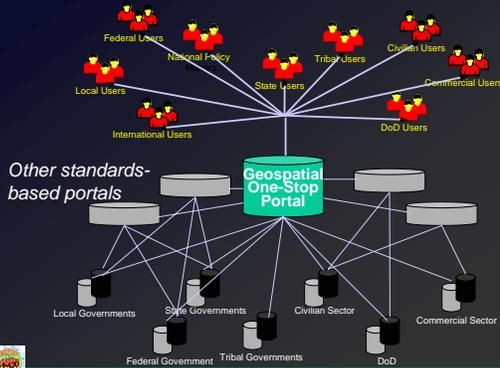


<http://www.geodata.gov>

Access, Sharing, Interoperability and Relationships to Build Once, Use Many Times



GOS Model



geodata.gov

The Government Portal For Geospatial Access

- Metadata Publishing
- Documentation and Organization
- Discovery and Access



...the directory for NSDI

geodata.gov MAP VIEWER

What buildings are in the hurricane's path?



Data Categories

Quick access to Content (2 clicks)



Search for Data

Three search criteria are available for input:

1. Where?
2. What?
3. When?

Search Results →

View Data

View The National Map and:

- Browse other datasets
- Query map data
- Interact with multiple WMS and IMS services
 - overlay maps services
 - set transparency levels
 - save maps for later use

geodata.gov MAP VIEWER

- Geographic Names (point)
- Geographic Names 100K
- Hi-Res Ortho Index
- County Labels
- Counties 2M
- State Labels
- States 2M
- Road Labels Atlas-2M
- Interstate Labels
- Roads Atlas-2M
- Streams-2M
- Waterbodies
- LANDSAT7
- National Land Cover Dataset
- National Land Cover Dataset (transparent)
- National Elevation

REFRESH MAP LEGEND

geodata.gov Cadastral

Introduction

Primary Data

Other Resources

About this Category

Help

Search for more primary data like this:

- Any level
- Federal
- State
- County
- Local
- Tribal
- Commercial
- Organization
- University

Land Survey Information System Map Service

Content Summary: The Land Survey Information spatial data layer is based on BLM's Geographic Coordinate Data Base (GCOB) coordinate data. The locations of Public Land Survey System (PLSS) corners, as represented in geographic coordinate pairs, were derived from a variety of source documents, which include U.S. General Land Office and BLM survey plat notes, as well as survey data obtained from other U.S. Government agencies, private sector survey firms, and local governments.

Content Purpose: The Land Survey Information System (LSS) data is a useful representation of the geometry and topology of parcels contained within the PLSS, but its application is intended for mapping purposes only. The GCOB data derived from LSS is not a substitute for a legal land survey.

Publisher: Bureau of Land Management

Rating: Unknown

Content Type: Live data & maps (ArcIMS Image Service)

VIEW MAP VIEW DETAILS

GeoCommunicator

Content Summary: GeoCommunicator is a Geography network (channel) focused on data and activities for users and data providers with a common interest in land management in the United States.

Content Purpose: GeoCommunicator uses the Internet to deliver maps, geographic activities, map services, planned surveys, and potential cost sharing partners to individual user browsers and desktops, allowing data providers, service providers and users throughout the United States to share land-based information.

Publisher: Bureau of Land Management

Rating: Primary

Content Type: Live data & maps (ArcIMS Feature Service)

geodata.gov MAP VIEWER

- BLM_LSS1S
 - Township boundaries (overview)
 - BLM Availability
- The_National_Map
 - Geographic Names (point)
 - Geographic Names 100K
 - Hi-Res Ortho Index
 - County Labels
 - Counties 2M
 - State Labels
 - States 2M
 - Road Labels Atlas-2M
 - Interstate Labels
 - Roads Atlas-2M
 - Streams-2M
 - Waterbodies
 - LANDSAT7
 - National Land Cover Dataset
 - National Land Cover Dataset (transparent)
 - National Elevation

REFRESH MAP LEGEND

Two important geospatial efforts . . .

Enterprise GIS

- Focus is on the user
- Make geospatial data easier to access & use

Seismic Shaking Map

Population growth 2025

\$martBUY

- Office of Management and Budget
 - enterprise licensing program
 - Federal agencies pool buying power
 - Government-wide software licenses

“enterprise buy”



61

the end



62