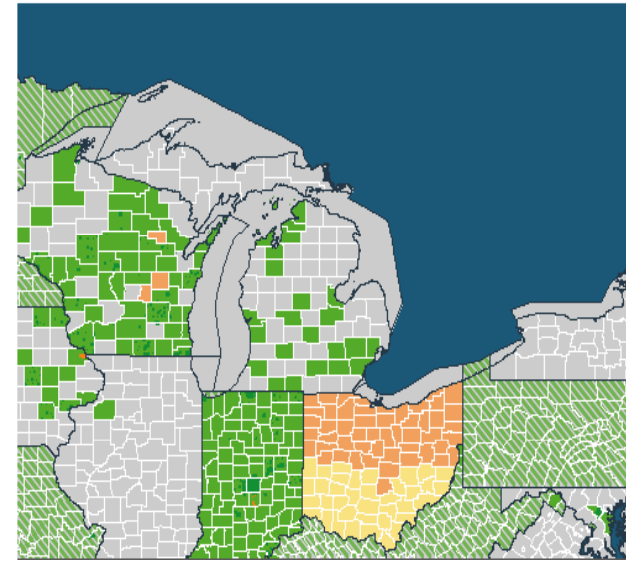


GIS

INVENTORY

POWERED BY RAMONA



GIS Inventory & Directory

RDX Workshop: Geospatial Data Management Tools for the Great Lakes and St.
Lawrence River Basin

Chicago, IL
May 1, 2008



Overview

- Overview of the GIS Inventory
- Example Management Uses in North Carolina
- Marketing Materials
- Wisconsin Program Drivers
- National/ Wisconsin Usage Trends
- Great Lakes Participation Status & Prospects



Purpose of the GIS Inventory

- Track the status of GIS in state and local government
- Aid the planning and building of Spatial Data Infrastructures
- Work in concert with Geospatial One-Stop and other Federal programs for broader data discovery
- Have a single inventory tool
 - Unique state identity (promote buy-in)
 - Reduce the need for the multiple ad-hoc inventories conducted by federal and state agencies



Primary Components of the GIS Inventory

- Inventory of
 - Users and Organizations
 - Systems and Policies
 - Geographical coverage
 - 478 Data Layer Types
- Basic Status Maps and Query Capability
- Searchable Directory of Users
- User Reports & User Support
- Newsletter Tool
- Administrative Tools
- Metadata Generation Tool &/or Metadata URL
- Staged Metadata Repositories (Web Folder and CSW)
- Supports the Annual NSGIC State Summaries



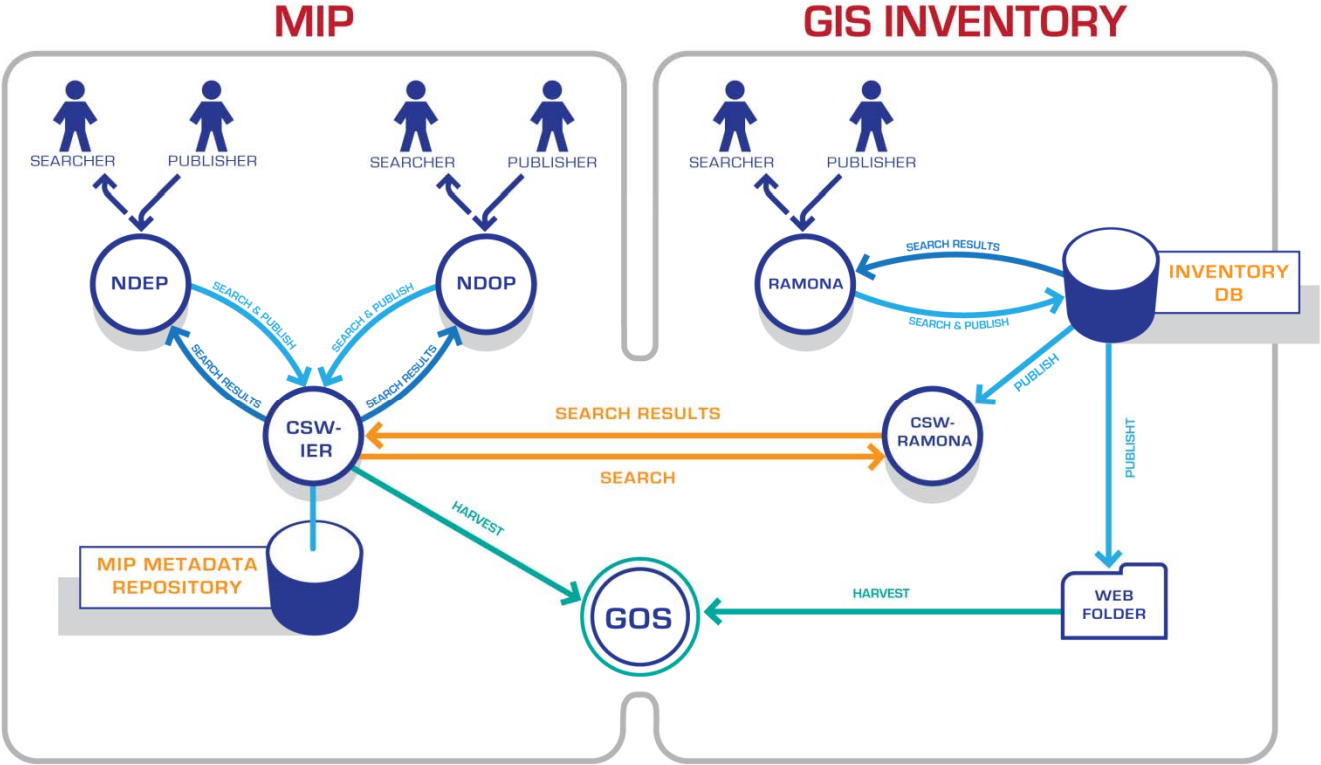
Important Features

- Open source software architecture
- Simple and intuitive interface
- Inexpensive to modify and maintain
 - \$6,000 per year for hardware/software/ISP
 - Original User Needs and System Build - \$60k (NOAA funded through BAA)
 - Total Investment is < \$150k to date from (NOAA, FEMA, FGDC, DHS)
- Do we need to say - virtually no cost to you to use



Underlying Architecture

- PHP - programming
- MapServer - mapping interface
- MySQL - database
- Commercial Hardware (Liquid Web)
 - Dedicated High Speed Server
 - RAID Level 1 Storage
 - On-Site and Off-Site Backup
 - 2-hour repair/replacement guarantee



NDEP - National Digital Elevation Program Committee
NDOP - National Digital Orthophoto Programs Committee
MIP - FEMA's Mapping Information Platform
GOS - Geospatial One Stop Portal
CSW - Catalog Services - OGC Catalog Service 2.0.1.

GIS INVENTORY
 is NOT dependant on any other system.

- Visualize status of specific data layers

- Map can be customized
- Information reports on all data layers

Status Map -My Profile -Directory -Getting Started -About -Support

Places That Produce

- Framework Data Layers
- Other Data Layers

Framework Data Layers

- Boundaries
- Elevation
- Imagery/Base Maps/Earth Cover
- Inland Waters
- Location
- Planning/Cadastral
- Transportation
 - Airports & Airfields
 - Railroad Lines
 - Roads/Street Centerlines

Complete In work Planned

- City/Town on off
- County on off
- Statewide on off
- Tribal on off
- Nationwide on off
- No Response

Download This Image State Names > on off City Names > on off
 County Names > on off Tribe Names > on off
 City Outlines > on off

Digital Orthophotography/Orthoimagery

Query Results

COUNTY	COUNTY FIPS	STATE	STATE FIPS	SQUARE MILES
PITT	37147	NC	37	654.96

CITY - GREENVILLE				
Org	Name	Status	Scale	Production Date
City of Greenville	Judy Johnson	Complete	1:1,200 (1in=100ft)	2003
description : Aerials				

COUNTY - PITT				
Org	Name	Status	Scale	Production Date
City of Greenville	Judy Johnson	Complete	1:1,200 (1in=100ft)	2003
description : Aerials				

STATE WIDE				
Org	Name	Status	Scale	Production Date
NC CGIA	Elizabeth Wood	Complete	1:12,000 (1in=1,000ft)	1998
description : Color Infrared Digital Orthophoto Quarter Quadrangles - The DOQQ is useful as a primary layer of a GIS. DOQs serve a tool for revision of digital maps and as a field reference for scientific investigations and analysis.				
NC CGIA	Elizabeth Wood	Complete	1:12,000 (1in=1,000ft)	1993
description : Black and White Digital Orthophoto Quarter Quadrangles - The DOQQ is useful as a primary layer of a GIS. DOQs serve a tool for revision of digital maps and as a field reference for scientific investigations and analysis.				



User Profile

- User completes information
- Categories
 - User
 - Organization
 - Systems
 - Policies
 - Geography
- 10 to 25 minutes for complete documentation

User Profile:

Created:	04/24/2006
Last Updated:	08/06/2007
User Type:	Admin User
(1-5) Name:	Mr. Ted Koch
6 Organization:	University of Wisconsin-Madison
7 Title:	State Cartographer
8 Position:	Director/Coordinator
Position Other:	
9 Building Name:	Science Hall
10 Mail Stop:	
11 Street Address 1:	550 North Park Street
Street Address 2:	
12 City:	Madison
13 County:	
14 State:	WI
15 Zip Code:	53706
16 Work Telephone:	608.262.6852
17 Work Fax:	608.262.5205
18 Work Cell:	
19 Is it OK to include user's contact information in the GIS Contact Directory?	Yes
20 Is it ok to send you emails regarding ramona news and system status?	Yes
21 Federal Agencies you work for:	
22 State(s) in which you live and/or work:	
23 Email:	tkoch@wisc.edu

Organization Profile:

Last Updated:	08/09/2007
Organization Name:	University of Wisconsin-Madison
1 Organization Type:	Educational Institution
Organization Type, Other:	
2 Organization Web Address:	http://www.sco.wisc.edu/
3 Does your organization create GIS data (either directly or through a contractor)?	Yes
4 Application Area(s):	Consultant, Education/Schools, G

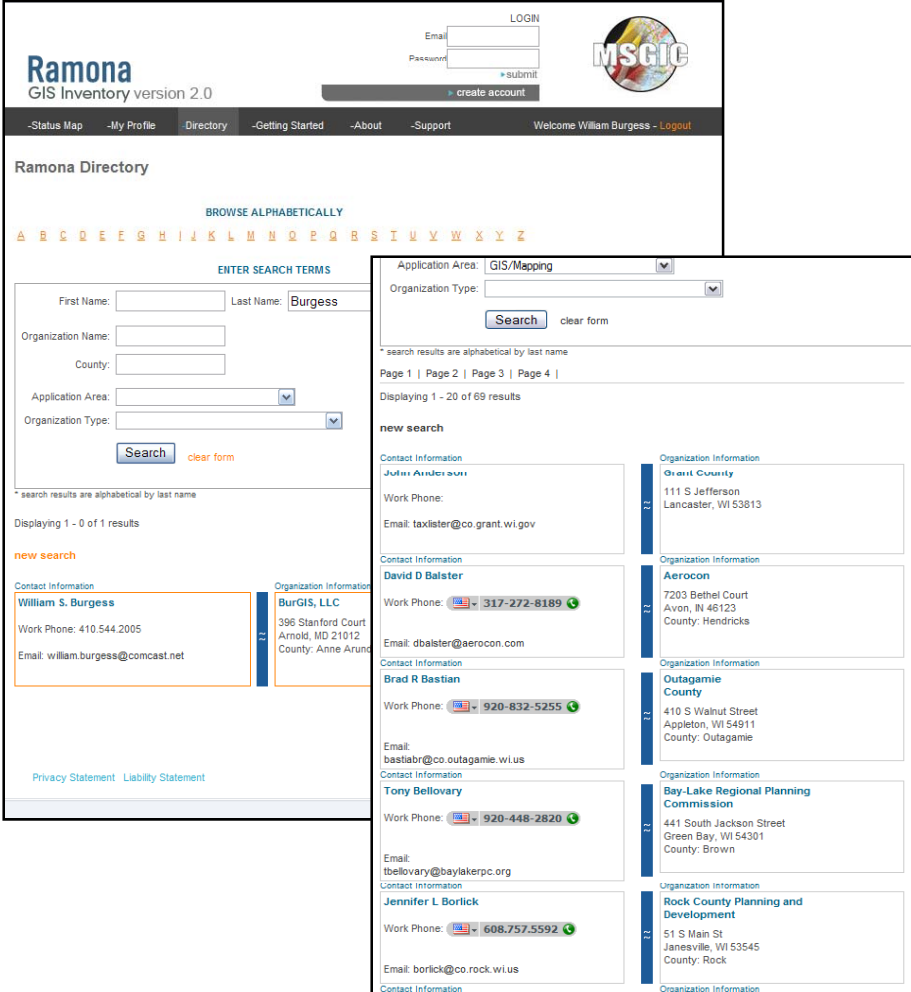
Systems Profile:

1 How are GIS functions managed in your organization?	Split among different departments/divisions/etc.
2 Within your organization, what computer operating systems are used?	LINUX, Windows XP, Mac OS X
Other	
3 What is your principal GIS software?	ESRI ArcGIS
Other	
4 Does your organization have an on-line internet mapping system?	Yes
If Yes, please list website URL	http://www.sco.wisc.edu/wiscincviewer.php
5 What internet mapping software does your organization use to publish maps to the web?	MapServer
Other	
6 Is your internet mapping system compliant with Open GIS Consortium standards?	Web Map Services (WMS)
Other	
7 What is your principal CAD software?	Not Applicable
Other	
8 What is your principal database software?	MySQL
Other	Postgresql/Postgis
9 Does your organization collect data with a GPS receiver?	No
10 If yes, what grade is the GPS receiver?	
11 If yes, are your GPS readings differentially corrected?	
12 What map coordinate system do you typically use?	Geographic
Other	
13 What map projection do you typically use?	
Other	Wisconsin Transverse Mercator
14 What horizontal datum do you typically use?	NAD83 (91) - HARN
Other	horizontal_datum_other
15 What vertical datum do you typically use?	None
Other	
16 What units of measure do you typically use?	U.S. Survey Feet
Other	
17 What file format do you typically use for your vector GIS files?	ESRI Shapefile
Other	

- 478 Layers - Only document what you produce
- 6 standard questions
- 6 layers have additional questions
- 30 seconds to 2 minutes per layer
- Publish your information from this screen

The screenshot shows the 'Framework Data' section of the Ramona GIS Inventory version 2.0 web interface. The interface includes a navigation menu with links for Status Map, My Profile, Directory, Getting Started, About, Support, and a user welcome message for William Burgess. The 'Framework Data' section is highlighted in orange and contains a table of data categories: User, Organization, Systems, Policies, My Geography, Framework Data (selected), Other Data, and Metadata. The 'Framework Data' section is further divided into sub-sections: Boundaries, Location, Elevation, Planning Cadastral, Inland Waters, Imagery/Base Maps/Earth Cover (selected), and Transportation. Below the table, there is a 'Download the complete layer list' link and a 'save' button. The main content area displays a table of 'Orthophotography' layers with columns for Progress, Source, Scale, Production Date, and Update Frequency. The first row shows a layer named '133 Cities Imagery over the Baltimore N' with a scale of 1:2,400 (1in=200ft) and a production date of 2007. The layer description is '133 Cities Imagery over the Baltimore N' and it has a 'publish metadata' checkbox checked. Below the table, there are several questions and input fields for metadata: 'What is the approximate ground resolution of this product?' (12 inches), 'What is the horizontal accuracy?' (5 feet), 'What is the image type?' (Natural Color), and 'What are the leaf cover conditions of these data?' (Leaf-off). A 'Logout' link is visible on the left side of the page.

- Search tool to find any user registered in your state
- Listings are graphics to prevent data mining on the site
- Links to E-mail and Organization Web Address



The screenshot shows the Ramona GIS Inventory version 2.0 website. The header includes a navigation menu with links for Status Map, My Profile, Directory, Getting Started, About, and Support. A user is logged in as William Burgess. The main content area is titled "Ramona Directory" and features a search tool with fields for First Name, Last Name (pre-filled with "Burgess"), Organization Name, and County. There are also dropdown menus for Application Area and Organization Type. A "Search" button is present. Below the search tool, there are several search results, each displaying contact information for a user and their organization. The results include:

- William S. Burgess** (BurGIS, LLC): Work Phone: 410.544.2005, Email: william.burgess@comcast.net
- Julia Anderson** (Grant County): Work Phone: [redacted], Email: taxlister@co.grant.wi.gov
- David D Balster** (Aerocon): Work Phone: 317-272-8189, Email: dbalster@aerocon.com
- Brad R Bastian** (Outagamie County): Work Phone: 920-832-5255, Email: bastiab@co.outagamie.wi.us
- Tony Bellovary** (Bay-Lake Regional Planning Commission): Work Phone: 920-448-2820, Email: tbellovary@baylakerpc.org
- Jennifer L Borlick** (Rock County Planning and Development): Work Phone: 608.757.5592, Email: borlick@co.rock.wi.us

The interface also includes a "BROWSE ALPHABETICALLY" section with a grid of letters and a "new search" button. The footer contains links for Privacy Statement and Liability Statement.



Getting Started Guide and User Support Form

Ramona
GIS Inventory version 2.0

LOGIN
Email:
Password:
submit
create account

MSGIC

-Status Map -My Profile -Directory Getting Started -About -Support Welcome William Burgess -Logout

Welcome to the Ramona GIS Inventory System

Version 2.0
Release Date: January 29, 2007

What's New in Version 2.0?

Version 2.0 includes the following new features:

- The system is on a more powerful dedicated server that includes redundant data back-up schemes to prevent data loss.
- The speed of the system has been improved in every area and should be especially evident to the user in the Status Maps.
- The function of the "My Geography" tab under the User Profile has been changed slightly to make it more intuitive.
- The system now assigns bounding coordinates to your data for all places included in the "My Geography" tab such as counties, cities, and tribal lands.
- The user has improved functions for managing the geography of each data layer including the ability to view the default geography, and new capabilities to create custom geographies and remove them as appropriate. These individual changes will be maintained by the system until the user specifically changes them.
- Each state can create custom questions that will add a "State Questions" tab under the My Profile section. This allows each state to obtain additional critical information without having to use a separate inventory system.
- Metadata is automatically created for the user, and any changes to your profile (e.g. changes to My Geography, addresses or phone numbers) will automatically force creation of a new metadata record with the up-to-date information.
- There are new detailed questions on certain framework data layers (e.g. digital elevation models & orthoimagery) that were required to help build national data inventories. If you have previously completed these layers in your profile, please return to these sections and complete the new information.
- Beginning on February 1, 2007, metadata for your data will be shared with the Geospatial One Stop Portal (GOS). In addition to the GOS Portal, your metadata on digital elevation data and orthoimagery will also be shared with the Federal Emergency Management Agency (FEMA) for their flood map modernization program and the National Digital Orthophoto Program (NDOP) and the National Digital Elevation Program (NDEP). The function to control this has been moved to each individual data layer instead of the "Metadata" tab where it was located in Version 1.0
- System administrators can run powerful new reports that they will use to improve statewide GIS coordination, data sharing, and data partnerships. With the release of Version 2.1, we plan to make certain report functions available to all registered users.

Ramona
GIS Inventory version 2.0

LOGIN
Email:
Password:
submit
create account

NSGIC

-Status Map -My Profile -Directory -Getting Started -About Support -Home Welcome William Burgess -Logout

New Support Ticket

Your Name:

Your Email:

Subject:

Questions or Comments:

Submit Request

[Privacy Statement](#) [Liability Statement](#)

- Review any metadata record in the system to check out external error reports

Ramona
GIS Inventory version 2.0

Users | Metadata | Reports | State Questions | Newsletter | Support Forum | Home | Logout

METADATA

Search
Browse

Refresh All
Publish All Files
Delete All XML Files

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | [next](#) | [next 10](#) | [last](#)

	Layer Name	Created By		
	American Indian Reservation	Gene Trobia	ramona_metadata_198_1.xml	refresh
	American Indian Reservation	Khalid Hasan	ramona_metadata_231_1.xml	refresh
	American Indian Reservation	Alex Wernher	ramona_metadata_237_1.xml	refresh
	American Indian Reservation	Charles Hickman	ramona_metadata_273_1.xml	refresh
	American Indian Reservation	Milbert Krohn	ramona_metadata_1876_1.xml	refresh
	American Indian Reservation	Bob Nutsch	ramona_metadata_1872_1.xml	refresh
	American Indian Reservation	Bryan Townsend	ramona_metadata_1936_1.xml	refresh
	American Indian Reservation	Theresa Wurth	ramona_metadata_1986_1.xml	refresh
	American Indian Reservation	Thomas Graham	ramona_metadata_2123_1.xml	refresh
	American Indian Reservation	Michael Snelling	ramona_metadata_1826_1.xml	refresh
Published	American Indian Reservation	Denise Young	ramona_metadata_2252_1.xml	refresh
	American Indian Reservation	Shane Moore	ramona_metadata_2410_1.xml	refresh
	American Indian Reservation	Deborah Weatherly	ramona_metadata_2556_1.xml	refresh
Published	American Indian Reservation	Dennis Goreham	ramona_metadata_207_1.xml	refresh
	Cities/Towns/Villages	Mike Mahaffie	ramona_metadata_199_2.xml	refresh
	Cities/Towns/Villages	Gene Trobia	ramona_metadata_198_2.xml	refresh
	Cities/Towns/Villages	Khalid Hasan	ramona_metadata_231_2.xml	refresh
	Cities/Towns/Villages	Shaun Scholer	ramona_metadata_234_2.xml	refresh
	Cities/Towns/Villages	Michael Lautzenheiser	ramona_metadata_235_2.xml	refresh
	Cities/Towns/Villages	Alex Wernher	ramona_metadata_237_2.xml	refresh
	Cities/Towns/Villages	Robert Shumowsky	ramona_metadata_233_2.xml	refresh
	Cities/Towns/Villages	Becky McKinley	ramona_metadata_240_2.xml	refresh
	Cities/Towns/Villages	Larry Stout	ramona_metadata_248_2.xml	refresh
	Cities/Towns/Villages	Thomas Lo	ramona_metadata_2749_2.xml	refresh
Published	Cities/Towns/Villages	Jerry Sullivan	ramona_metadata_253_2.xml	refresh
	Cities/Towns/Villages	Sandra Janowski	ramona_metadata_250_2.xml	refresh
	Cities/Towns/Villages	Charles Hickman	ramona_metadata_273_2.xml	refresh
	Cities/Towns/Villages	Carter Vickery	ramona_metadata_55_2.xml	refresh
	Cities/Towns/Villages	Jon Gottsegen	ramona_metadata_206_2.xml	refresh
	Cities/Towns/Villages	Pam Soule	ramona_metadata_1704_2.xml	refresh
	Cities/Towns/Villages	Brad Meixell	ramona_metadata_1718_2.xml	refresh
	Cities/Towns/Villages	Trudi Keabinn	ramona_metadata_1812_2.xml	refresh

- Run reports based on your own search criteria

Ramona
GIS Inventory version 2.0

Users | Metadata | Reports | State Questions | Newsletter | Support Forum | Home | Logout

REPORTS

Full User Report
Report by Search

First Name: Starts With Contains Registered in
Last Name: Starts With Contains
User Title: Starts With Contains
Organization: Starts With Contains
User Type: Super Admin

Registered in dropdown: Idaho, Illinois, **Indiana**, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi

Search [reset form](#)

abb - bog | bol - col | col - edm | ehm - gre | how - kur | laf - mcm | nic - rne | nic - shi | sho -
tom - wil | wil - zin |

620 results

[Export report for these search results](#)

Randy Abbey EIA Director scmaems@hotmail.com Starke County PO Box 353 Knox, IN 46534 County: Starke	view user
Harvey Abramowitz Profcaor harveya@calumet.purdue.edu Purdue University Calumet Department of Mechanical Engineering 2200 169th Street Hammond, IN 46323 County: Lake	view user
mary adams Utility Information Tech maeadams@indiana.edu utility information group	view user
John Adams Sales Associate jadams@zacherco.com The Zacher Company	view user



Sample Report

1	2	3	4	5	6	7	8	9	10		
User ID	Salutation	First Name	Middle Name	Last Name	Suffix	Organization Name	Title	Position	Position Other	Building Name	Mail Stop
2626		Randy		Abbey		Starke County	EMA Director	Director/Coordinator			
2284	Dr.	Harvey		Abramowitz		Purdue University Calumet	Professor	Director/Coordinator			
1845		mary		adams		utility information group	Utility Information Tech	GIS User			
2767	Mr.	John	M.	Adams		The Zacher Company	Sales Associate	GIS User		Suite 203	
1937	Ms.	Judith		Affolder		Adams County	Assessor	Director/Coordinator			
1610		Deborah		Albright		Hoosier National Forest, USDA	GIS Coordinator				
1663		James		Alexander		Jefferson County E 911	911 Coordinator				
2440		Mike		Allee		Rapid Cable					
2604	Mrs.	Natalie	S	Allen		GMAC	Realtor				
1807	Mr.	Thomas	E.	Alter		Catholic Cemetery Association, Inc.	Superintendent	Director/Coordinator			
1811		Linda		Altherr		County Assessor's Office	Assessor	Director/Coordinator			
2143	Mr.	JOSHUA		APPLEMAN		APPLIED ENVIRONMENTAL, LLC	GIS/GPS PROJECT MA	Project Manager		SUITE B	
2405	Mr.	Dan	J.	Arnholt		Bartholomew County REMC	GM/CEO		General Manager		P.O. Box 467
2835		April		Arroyo-Monroe		Indiana Department of Transportation	Environmental Scientist	GIS User			
1713	Mr.	Matt		Arvay		Vanderburgh County/City of Evansville Office	Chief Information Officer	Director/Coordinator			
2370		Robert		Atnip		Indiana National Guard	State Master Planner	Supervisor		Bldg 241, DPW	
2085	Ms.	Charline		Avey		Veolia Water Indianapolis	Operations Support Lead	Supervisor			
2639	Mr.	Roger		Axe		Greene County	EMA Director	Director/Coordinator			
2431	Mr.	David		Babcock							
1716		Mary		Baird		Arrow Head Country RC&D	Councilor				
2574		Sarah	Joyelle	Balam		Flood Plus Insurance Agency	Underwriter	Analyst		200	
1710		Richard	W.	Ball		private citizen					
2420	Mr.	harold		ballard		ballardtri-a-bilities	investor	Director/Coordinator	owner		
2720	Ms.	Shannon		Barabas		Schneider Corporation	Engineer	Analyst	Engineer		
2288	Mr.	Gregory		Barger		Circle City Pizza	owner	Director/Coordinator		G	
1804		Karen		Barnhill		Office of the Warrick County Surveyor	Surveyor	Director/Coordinator			
2864		Vincent		Barr		VS Engineering, Inc.	Land Surveyor	Supervisor			
2403		William		Bartle		n/a	n/a		Retired		
2404		William		Bartle		n/a	n/a		n/a		
2052		Lindell		Bates		Sanborn	Regional Sales	GIS User			
1612		Andrew	D	Baxter		EMH&T	Survey Project Manager				
2352	Mr.	Keith		Beall		Harrison & Moberly, LLP	Contract Partner	GIS User		Suite 150	
1715	Mr.	Matthew	A	Bechdol		ESRI					
1623		Eric	Louis	Becker		Town of Westfield	Infrastructure Specialist (GIS)				
2509	Mr.	Robert		Beckwith							
2524		Karen		Beeson				GIS User			
1627		Timothy		Belcher		Town of Plainfield	Town Engineer				
2059		Ben		Bemis		Civil Designs	Cad Manager	Director/Coordinator		Suite E	
2845	Mr.	David	Andrew	Benefiel			Community Planner	GIS User			
1766		R. C.		Berger		Consultants for INDOT	Civil CAD Tech				
2453		Marge		Berry		Foster Printing	Researcher	Analyst			
2629		Kieth		Bias		Union County	E-911 Director	Director/Coordinator			
2686	Mr.	Nathan	Daniel	Biesemeier		Century 21 Realty Group I	Realtor	GIS User			
2625		Phillip		Bisel		Randolph County	County Surveyor	Director/Coordinator			
2128	Mr.	Mitchell		bishop		La Porte County	Planner	Director/Coordinator			
2346	Mr.	Darrell		Blackburn		Blackburn & Sn Trucking, Inc.	VP		Owner		
2339	Mr.	Mark		Blakely							
1803		David		Blankenbeker		Clark County Government	Surveyor				



Detail on Orthoimagery

A1	User ID										
	A	B	C	D	E	F	G	H	I	J	
1	User ID	First Name	Middle Name	Last Name	Organization Name	Layer Name	Status	Source	Scale	Production Date	
2	2626	Randy		Abbey	Starke County	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:12,000 (1in=1,000ft)		
3	2626	Randy		Abbey	Starke County	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:4,800 (1in=400ft)		
4	1937	Judith		Affolder	Adams County	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:2,400 (1in=200ft)		
5	1663	James		Alexander	Jefferson County E 911	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:2,400 (1in=200ft)		
6	1663	James		Alexander	Jefferson County E 911	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:2,400 (1in=200ft)		
7	1811	Linda		Altherr	County Assessor's Office	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:12,000 (1in=1,000ft)		
8	1811	Linda		Altherr	County Assessor's Office	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:4,800 (1in=400ft)		
9	1713	Matt		Anvay	Vanderburgh County/City of Evansville Office	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:12,000 (1in=1,000ft)		
10	1713	Matt		Anvay	Vanderburgh County/City of Evansville Office	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:1,200 (1in=100ft)		
11	1713	Matt		Anvay	Vanderburgh County/City of Evansville Office	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:7,200 (1in=600ft)		
12	2639	Roger		Axe	Greene County	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:12,000 (1in=1,000ft)		
13	2639	Roger		Axe	Greene County	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:4,800 (1in=400ft)		
14	1804	Karen		Barnhill	Office of the Warrick County Surveyor	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:12,000 (1in=1,000ft)		
15	1804	Karen		Barnhill	Office of the Warrick County Surveyor	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:4,800 (1in=400ft)		
16	2629	Kieth		Bias	Union County	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:4,800 (1in=400ft)		
17	2629	Kieth		Bias	Union County	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:12,000 (1in=1,000ft)		
18	2625	Phillip		Bisel	Randolph County	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:4,800 (1in=400ft)		
19	2625	Phillip		Bisel	Randolph County	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:12,000 (1in=1,000ft)		
20	2634	Ken		Boruff	Warren County	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:12,000 (1in=1,000ft)		
21	2634	Ken		Boruff	Warren County	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:4,800 (1in=400ft)		
22	2457	Brenda		Brittain	Morgan County Government	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:12,000 (1in=1,000ft)		
23	2457	Brenda		Brittain	Morgan County Government	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:2,400 (1in=200ft)		
24	1672	James	R	Brown	Shelbyville-Shelby County G.I.S.	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:4,800 (1in=400ft)		
25	1672	James	R	Brown	Shelbyville-Shelby County G.I.S.	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:12,000 (1in=1,000ft)		
26	1785	Gregory	Weaver	Brown	Scott County Emergency Management	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:4,800 (1in=400ft)		
27	1785	Gregory	Weaver	Brown	Scott County Emergency Management	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:12,000 (1in=1,000ft)		
28	2633	Robert		Brown	Wabash County	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:12,000 (1in=1,000ft)		
29	2633	Robert		Brown	Wabash County	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:4,800 (1in=400ft)		
30	1668	Michael		Bruce	Brown County Government	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:2,400 (1in=200ft)		
31	1668	Michael		Bruce	Brown County Government	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:12,000 (1in=1,000ft)		
32	29	William	S.	Burgess	BurGIS, LLC	Digital Orthophotography/Orthoimagery	Complete	Uncorrected Imagery	1:2,400 (1in=200ft)		
33	1748	Nancy Jane		Cale	Blackford County EMA	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:2,400 (1in=200ft)		
34	1748	Nancy Jane		Cale	Blackford County EMA	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:12,000 (1in=1,000ft)		
35	1682	Brent		Campbell	GIS Product Solutions, INC.	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:2,400 (1in=200ft)		
36	1682	Brent		Campbell	GIS Product Solutions, INC.	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:2,400 (1in=200ft)		
37	1658	John		Carlson	St. Joseph Surveyor's Office	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:2,400 (1in=200ft)		
38	1658	John		Carlson	St. Joseph Surveyor's Office	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:2,400 (1in=200ft)		
39	1658	John		Carlson	St. Joseph Surveyor's Office	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:1,200 (1in=100ft)		
40	1658	John		Carlson	St. Joseph Surveyor's Office	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:1,200 (1in=100ft)		
41	1579	Janet		Chadwell	Decatur County Auditors Office	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery			
42	1579	Janet		Chadwell	Decatur County Auditors Office	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:2,400 (1in=200ft)		
43	2631	Ramon		Colombo	Vermillion County	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:4,800 (1in=400ft)		
44	2631	Ramon		Colombo	Vermillion County	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:4,800 (1in=400ft)		
45	2607	James		Comerford	Miami County	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:4,800 (1in=400ft)		
46	2607	James		Comerford	Miami County	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:12,000 (1in=1,000ft)		
47	2458	Freda		Corwin	Jay County Government	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:12,000 (1in=1,000ft)		
48	2458	Freda		Corwin	Jay County Government	Digital Orthophotography/Orthoimagery	Complete	Orthoimagery	1:2,400 (1in=200ft)		



Metadata Requirements

- GIS Inventory does not ingest metadata
 - too many variables in free text fields
- GIS Inventory has a structured series of questions in several functional areas
- GIS Inventory creates “starter” metadata that is compliant with the FGDC CSDGM standard



Early Great Lakes Participation

Top States- 04/21/08	by # Total Users w/ Layers										
Totals											Totals
Users/Layers Per Jurisdiction	NC	IN	WI	Iowa	KS	MI	SC	Nev.	Ohio	VA	
Number Users in Jurisdiction	409	689	153	107	59	137	88	39	68	67	3269
Number Users With No Layers	238	538	84	66	28	106	73	25	56	55	2509
Number Users With Layers	171	151	69	41	31	31	15	14	12	12	760
Number Framework Layers	772	1266	582	288	259	112	74	60	136	30	4410
Number Other Layers	1276	453	368	220	461	33	56	161	24	4	3719
Total Layers	2048	1719	950	508	720	145	130	221	160	34	8129
					Top 5					Top 10	
				Data Prvdrs	463	61%				547	72%
				Framework	3167	72%				3579	81%
				All	5945	73%				6635	82%



Prospects of Great Lakes Participation

- Great Lakes States already early adopters and users
- Joint inventory maintained directly by data custodians
- Requires state-level buy-in and shepherding
- CSW ~ Catalog Web Services represent possible connection to GLIN, GLOS, etc.
- Opportunity for sponsored enhancements
- More More More....



Questions ?

