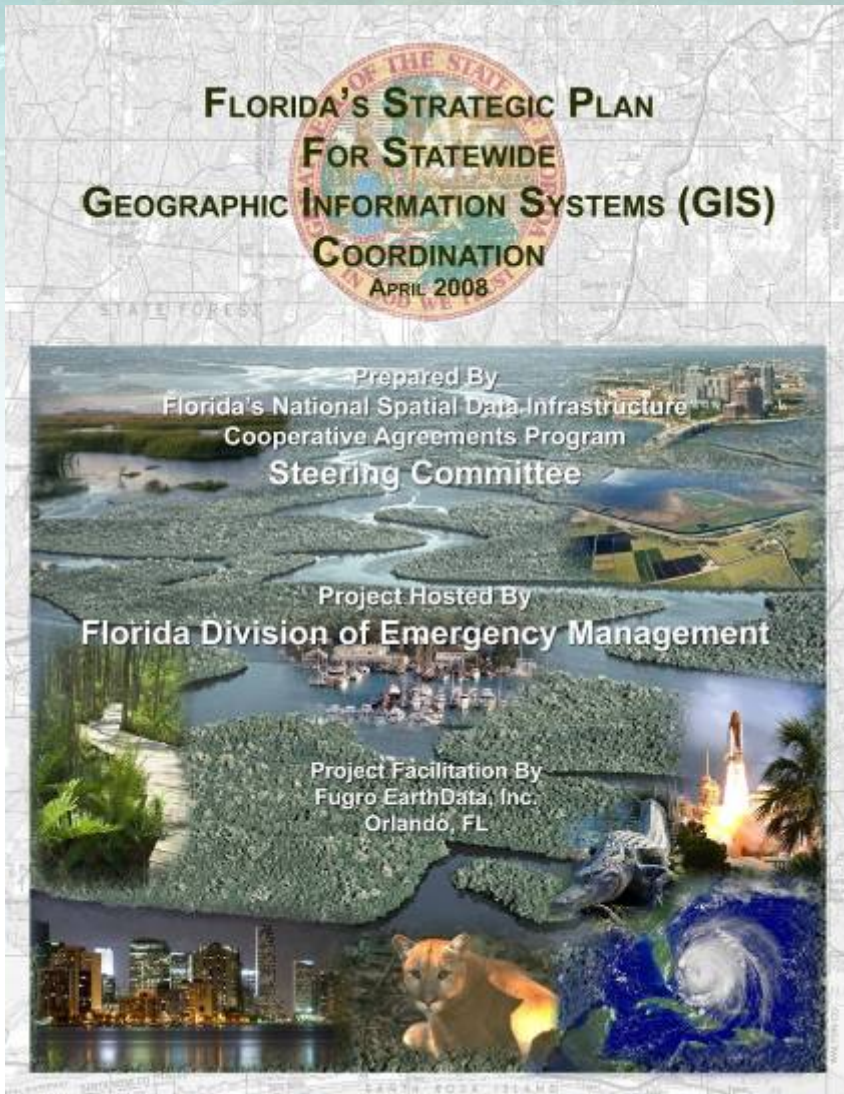


Strategic Planning for Florida GIS Coordination



Richard Butgereit
GIS Administrator

Florida Division of Emergency Management
richard.butgereit@em.myflorida.com 850-413-9907

Lou Driber
Geospatial Liaison to Florida
USGS
ldriber@usgs.gov 850-345-9410

August 2008



Prepare and Stay Aware!

[Home](#) / [Organization](#) / [About the Division](#) / [BPR](#) / [GIS](#) / [CAP Grant](#)

NSDI CAP Program

The [National Spatial Data Infrastructure \(NSDI\) Cooperative Agreements Program \(CAP\)](#) is an annual program to assist the geospatial data community through funding and other resources in implementing the components of the NSDI. This program provides small seed grants to initiate sustainable on-going NSDI implementations. The program emphasizes partnerships, collaboration and the leveraging of geospatial resources in achieving its goals.

Search

Documents

[CFGIS Workshop Presentation \(PDF\)](#)

[2007 NSGIC State Summary \(PDF\)](#)

[2007 Application \(PDF\)](#)

www.floridadisaster.org/gis/capgrant

Latest News

Nov 7 - Join us at the [Seven Hills Regional User Group for GIS workshop](#) in Tallahassee on Nov 13 & 14! Following a presentation at lunch on Tuesday, we will host a follow-up discussion session.

Oct 11 & 12 - Project chartering meeting held in Tallahassee with steering committee members.

Oct 4 - [Presentation](#) given at [South Florida GIS Expo](#).

Sep 18 - [Presentation](#) given at [Central Florida GIS Group Workshop](#).

Sep 11 - EarthData [selected](#) for Florida GIS Strategic Plan Development.

Sept 8 - [Response](#) made to [2007 NSGIC State Summary](#).

Aug 24 - Now accepting responses to our Request for Proposal -- [Florida GIS Strategic Plan Development in Support of the NSDI Fifty States Initiative](#). Deadline for responses is September 05.

Aug 3 - Steering committee wraps up a month's worth of conference calls drafting the RFP.

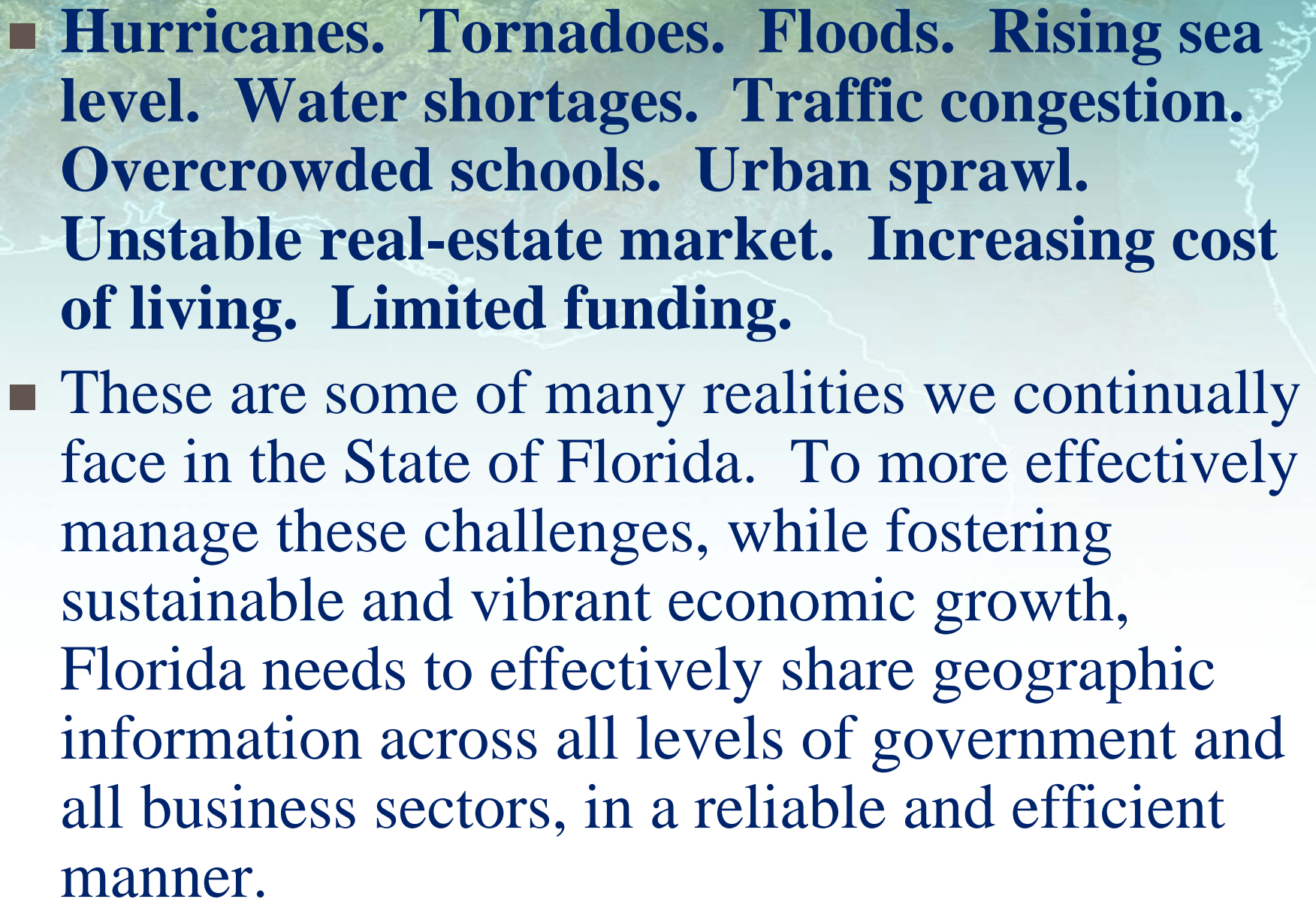
[2007 CAP Information](#)

[Fifty-States Initiative](#)

[National States Geographic Information Council](#)

[NSDI](#)

[Federal Geographic Data Committee](#)

- 
- **Hurricanes. Tornadoes. Floods. Rising sea level. Water shortages. Traffic congestion. Overcrowded schools. Urban sprawl. Unstable real-estate market. Increasing cost of living. Limited funding.**
 - These are some of many realities we continually face in the State of Florida. To more effectively manage these challenges, while fostering sustainable and vibrant economic growth, Florida needs to effectively share geographic information across all levels of government and all business sectors, in a reliable and efficient manner.

An aerial photograph of Florida is shown with a semi-transparent blue overlay. The text is centered over the map.

Vision for Statewide GIS Coordination

“To improve the quality of life in Florida by optimizing the use of geographic information through communication, coordination and collaboration.”

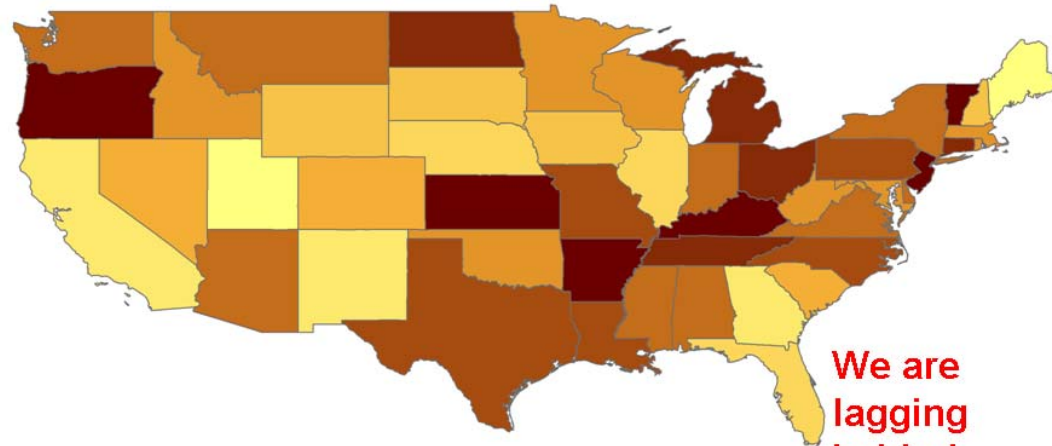
“One lesson from Hurricane Katrina is clear—if the tactical alliances had existed for geospatial information resource sharing ... the recovery support effort would have moved **faster**, saving money and **lives**.”

Twyla McDermott, GIS Manager, Katrina relief volunteer (Quote from FGDC's 2006 publication, "The Urban Frontier: A Call to Action.")

Why is Coordination Necessary?

- Florida is ranked very low nationally in our use of GIS as an enterprise resource

How Does Florida compare to other states?



We are lagging behind...

0 1 2 3 4 5 6 7 8 9

Fundamental Characteristics of Successful Coordination Implemented

Source: NSGIC Annual Survey of States 2007

Challenges from lack of coordination...

- Equal access to data gathering and creating does not exist in Florida
- Enterprise approaches need to be implemented
 - To enable effective data sharing and transportable methodologies
 - To improve data integration and dissemination
 - To insure predictable data quality and timeliness
- Lack of communication and collaboration across jurisdictions and boundaries
 - Cities and counties do not always coordinate
 - Some State agencies are doing well but function as independent organizations
 - Inconsistencies are hurting government and business sector effectiveness

Federal Enabling Framework

- USGS National Geospatial Program Office
- National Spatial Data Infrastructure (NSDI)
 - Presidential Executive Order 12906 of April 11, 1994.

“the technology, policies, standards, and human resources necessary to acquire, process, store, distribute, and improve utilization of geospatial data.”
 - NSDI developed in cooperation with federal, state, local, and private data producers.

Building the NSDI

GOS Portal

Federal

Counties

States

Cities

Tribes

Academia

Private

Geospatial One Stop

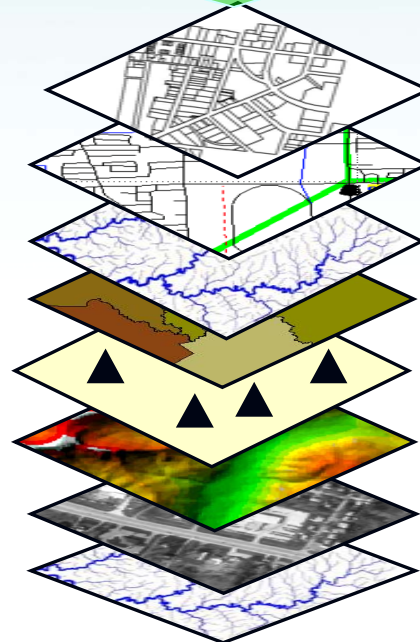
- Discovery and Access
- Common Infrastructure
- Harvesting

FGDC

- Coordination
- Standards/Policy
- Training
- Partnerships

The National Map

- Integrated Content
- Seamless Base
- Map Products
- Data Dissemination



Land Cover

Transportation

Surface Waters

Boundaries

Structures

Elevation

Orthoimagery

Geographic Names

NSDI Examples

- Coordinating Florida statewide orthoimagery program with Federal requirements for high-resolution imagery.
- Promoting adherence to Data Standards, publication of FGDC-compliant metadata, cataloging data inventory in regional geospatial clearinghouse.
- Providing seed funding for transfer of data stewardship activities to state (NHD, GNIS)
- Funding clearinghouse development efforts.
- Supporting statewide geospatial program coordination activities through NSDI Cooperative Agreements Program funding.

Federal Geographic Data Committee

- Administered through USGS-National Geospatial Program Office
- Interagency coordinating body responsible for fostering the development of the NSDI
- Provides Cooperative Agreements Program (CAP) funding annually to states in support of geospatial program development

Federal Enabling Framework

National Spatial Data Infrastructure (NSDI)

Cooperative Agreements Program - 2007

Category 1: FGDC-Endorsed Standards Implementation Assistance

Category 2: Framework Client Development

Category 3: Fifty States Initiative -- Awarded to Florida

Category 4: Geo-Enabled Federal Businesses Initiative

Category 5: Geographic Information Integration

National States Geographic Information Council



- An organization committed to efficient and effective government through the prudent adoption of geospatial information technologies
- Since 2005, Florida Division of Emergency Management GIS Administrator has been serving as state representative to NSGIC

NSGIC Supports Planning

- Coordination Performance Objectives
- 9 Coordination Criteria
- Strategic and Business Plan Templates

Advancing Statewide Spatial Data Infrastructures in Support of the National Spatial Data Infrastructure (NSDI)

Strategic Plan Template

For use by all stakeholders in the Geospatial Community



National States Geographic Information Council

Produced by NSGIC
for the Federal Geographic Data Committee (FGDC)

March 2006



Revived – A Strategic Plan

The Whats, Whys, Processes, and Goals

- ✓ Volunteers gather to revitalize the effort
- ✓ Obtain NSDI Cooperative Agreement Program Grant
- ✓ Bring Together Subject Matter Experts
- Share and gather information through GIS Professionals
 - ✓ State CIO Council
 - ✓ WMD-GIS Managers Meetings
 - ✓ CFGIS Workshop
 - ✓ SFGIS Expo
 - ✓ SHRUG
 - ✓ Regional Workshops
 - ✓ Steering Committee

Steering Committee

- Richard Butgereit, GIS Administrator, FDEM, Steering Committee Chair
- Bill Alfred, GIS Manager, FDOH, VP SHRUG
- David Anderson, Florida NHD Coordinator, FDEP
- Charles Russell, Systems Project Consultant, FDOR
- Scott Burton, GIS Manager, Broward County Sheriff's Office
- Mira Bourova, GIS Analyst, Central Florida Regional Transportation Authority (LYNX)
- Jared Causseaux, GIS Coordinator, FDOT
- Steve Dicks, GIS Manager, SWFWMD
- Jason Drake, GIS Coordinator, National Forests of Florida
- Louis Driber, Florida Geospatial Liaison, USGS
- Ric Dugger, IS Manager, FSU Florida Institute of Government
- Marshall Flynn, GIS Manager, Tampa Bay Regional Planning Council
- Chris Friel, GIS Division Director, PhotoScience, Inc.
- Lee Hartsfield, Tallahassee-Leon County GIS Manager, President Florida URISA, President SHRUG
- Al Hill, Volusia County GIS Manager, Chair Central Florida GIS
- Stephen Hodge, Principal Researcher GIS, FSU FREAC
- Kathleen O'Keife, GIS Coordinator, FWCC
- Jason Rivera, GIS Operations Lead, CH2M Hill
- Eric Songer, GIS/IT Manager, URS
- Alexis Thomas, UF GeoPlan Center
- Diana Umpierre, GIS Analyst, City of Miami

Project Staff

- Florida Institute of Government
 - Ric Dugger, CIO
 - Brenda Green, GIS Analyst
- Fugro EarthData
 - Martin Roche, Vice President

Current Effort Builds on Past Statewide GIS Coordination

- Growth Management Data Network Coordinating Council
- Base Mapping Advisory Council
- FL Geographic Information Board
- FL GIS Advisory Group

Project Schedule

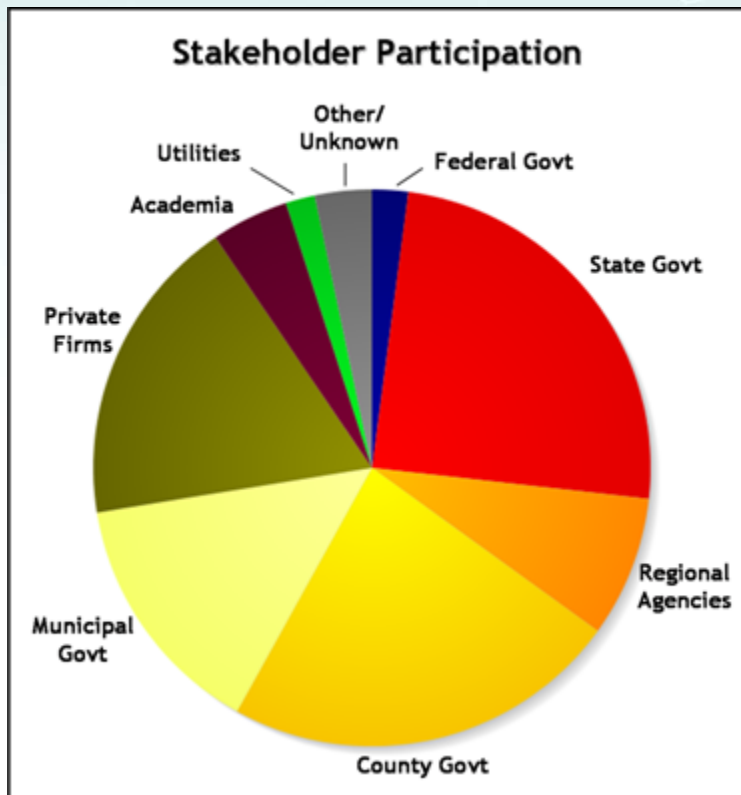
- Kick-off Meeting (October 10-11, 2007)
- Regional Conferences
 - Fall of 2007 - SHRUG, CF GIS, South Florida GIS Expo
- Regional Workshops
 - Tallahassee (December 4, 2007)
 - Orlando (December 11 , 2007)
 - South Florida (December 10 , 2007)
- On-Line Survey (Nov. 19 to Dec. 14, 2007)
- Data Summary (December 23, 2007)
- Strategic Plan
 - Draft 1 (February 22, 2008)
 - Draft 2 (April 04, 2008)
 - Final Draft (April 18, 2008)

Regional User Group Conferences

- Central Florida GIS Workshop (CFGIS), Orlando, September 2007
- South Florida GIS Expo, West Palm Beach, October 2007
- Seven Hills Regional User Group (SHRUG) Tallahassee, November 2007
- **520+** stakeholders were provided information about this plan at regional GIS user group conferences

Regional Workshops

- Tallahassee (December 4, 2007)
- Orlando (December 11, 2007)
- South Florida (December 10, 2007)



Over 150 attendees participated in one of the three sessions.

Stakeholder Interviews

- City Government (4)
- County Government (6)
- Regional Government (5)
- State Agencies (3)
- Federal Agencies (1)
- Private Sector (2)
- Universities (2)

Online Survey

- 158 stakeholders fully completed the online survey
- 37% from Local Government
- 24% from State Government
- 18% from Private Sector
- 41% GIS/IT Managers
- 29% GIS Analyst

Information Gathering

- Current successes - benefits from participation in coordination efforts
- Weaknesses – current structure failures
- Pitfalls – things to be avoided for successful coordination
- Functions of a coordinating entity
- Structure of a coordinating entity

The Strategic Plan

- Executive Summary
- Strategic Planning Methodology
- Current Situation in Florida
- Vision and Goals
- Appendixes

Strategic Goals

- **Provide leadership** for coordination of GIS efforts across all levels of government throughout the state.
- **Invest in GIS infrastructure** to fully realize the benefits of shared geospatial data and technology.
- **Communicate and educate** all concerned about the benefits and capabilities achieved by investments in GIS to support effective decision making.

Programmatic Goals

- Establish a formal framework for successful GIS coordination
 - Create Geospatial Programs Office headed by a GIS Coordinator
 - Create a Geographic Information Council
 - Empower Technical Advisory Committees

Programmatic Goals (continued)

- Formalize, sustain, and expand public data clearinghouses
- Formalize geospatial data stewardship activities
- Develop GIS coordination business plan

Next Steps

- Steering committee continuing to work together on a volunteer basis
- An outreach sub-committee is targeting getting the word out on the plan and seeking endorsements as part of the approval process
- Still looking for champions to carry this plan forth