

NSGIC



**National States Geographic
Information Council >>>**

NSGIC Initiatives

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What is NSGIC?

- NSGIC is an organization committed to efficient and effective government through the adoption of geospatial or mapping information technologies.
- NSGIC members are actively involved in the coordination and application of mapping technologies in their States, the creation and management of mapping data as well as information technology policy
- Membership - senior state geographic information system (GIS) managers and coordinators, representatives from federal agencies, local government, the private sector, academia and other professional organizations.



What NSGIC Does

- Provide a unified State voice on geographic information and technology issues,
- Strong advocate for State interests,
- Support back to the membership through national initiatives with statewide impacts
- NSGIC promotes mapping information integration and systems development and provides input and advice to public and private decision-makers on national issues impacting the States.

NSGIC advocates the benefits of mapping technologies and data that can only be realized through intergovernmental and private sector cooperation, coordination, collaboration and partnerships



What we have learned

- Data is an Asset
- A lot of Data Duplication exists
- Technology is on our SIDE
- Local and State Partnerships Must be Developed and Nurtured
- Robust Models for Maintenance and Update of Data Must be Developed
- Must have Federal Support to ensure a National Perspective
- Currency/Accuracy are Crucial
- No Longer in a Vacuum
- No Single Solution - Integrated Solutions
- Integration and Collaboration through Coordination is the only way



GIS is Redefining Relationships

- **Enterprise-wide vision**
 - Looking beyond jurisdictional boundaries
 - Recognizing impacts
 - Spatial workflow analysis
- **Beginning to see more cooperative efforts**
- **Increased action between Federal and State**
- **Increased interaction between State and County**
- **Increased interaction between County & City**
- **Increased communication within GIS community**

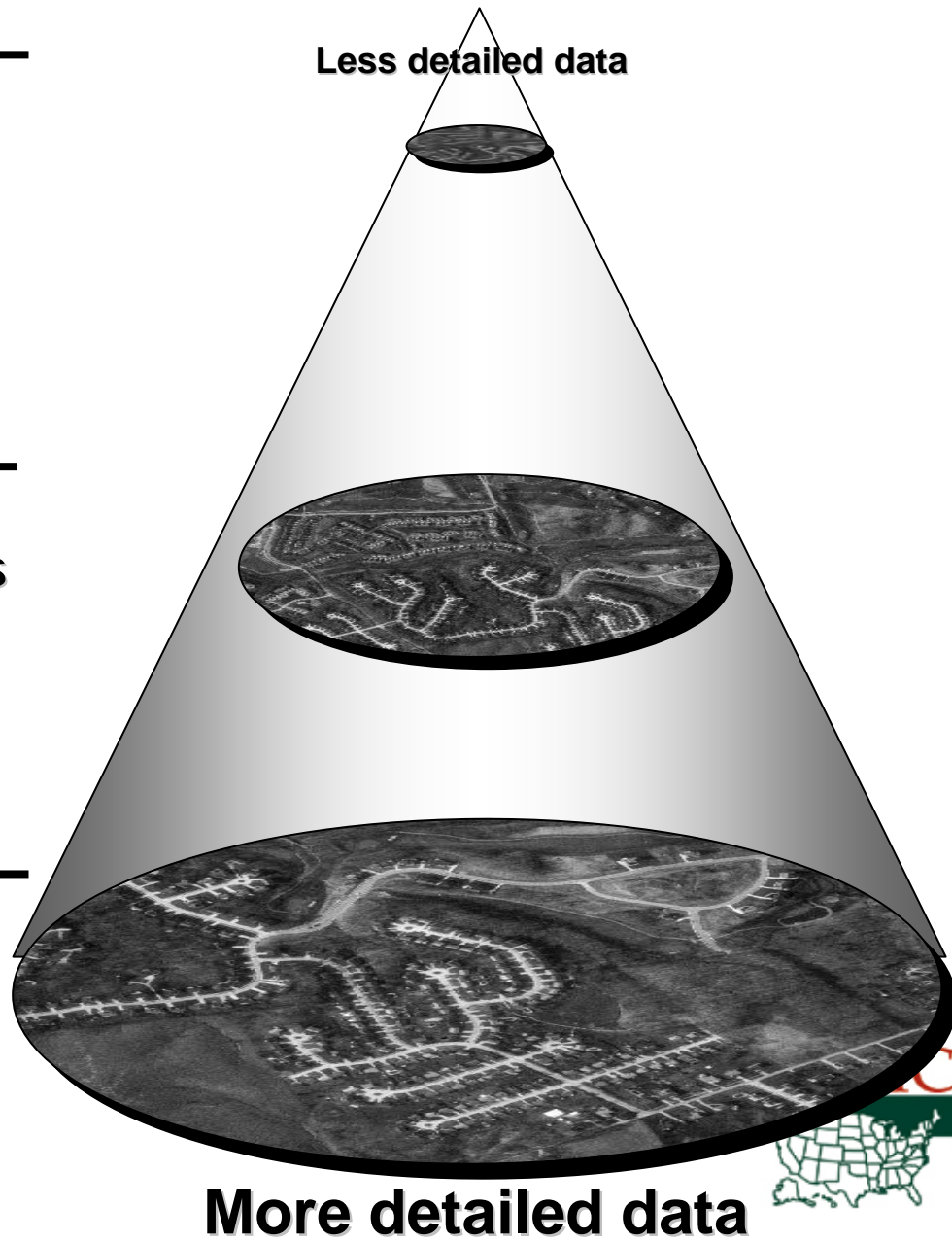


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Federal Level Apps
Programs
Regional multi-state
Minimum Attributes
Low Resolution
Least \$\$

State Level Apps
State & Federal Programs
Multi-County Multi-State
Less Attributes
Lower Resolution
More \$\$\$

Local Level Apps
Serve People
Multi-Neighborhood
More Attributes
Higher Resolution
Most (BIG) \$\$\$\$



Collect it once - use it a bunch and maintain it

- Develop solid GIS foundation
- Sustained and maintained foundation
- Interoperability - Other organizations use foundation for their specific applications
- Create enterprise-wide perspective viewing information as a “community” resource



Benefits of Vertical Integration

- more effective use of dollars
- develop applications faster
- improve customer satisfaction
- provide better decision-making
- utilize data produced by others
- extend analysis beyond jurisdictions
- resolve problems created by conflicting data
- redirect resources associated with duplication
- reduce dissemination costs by direct access

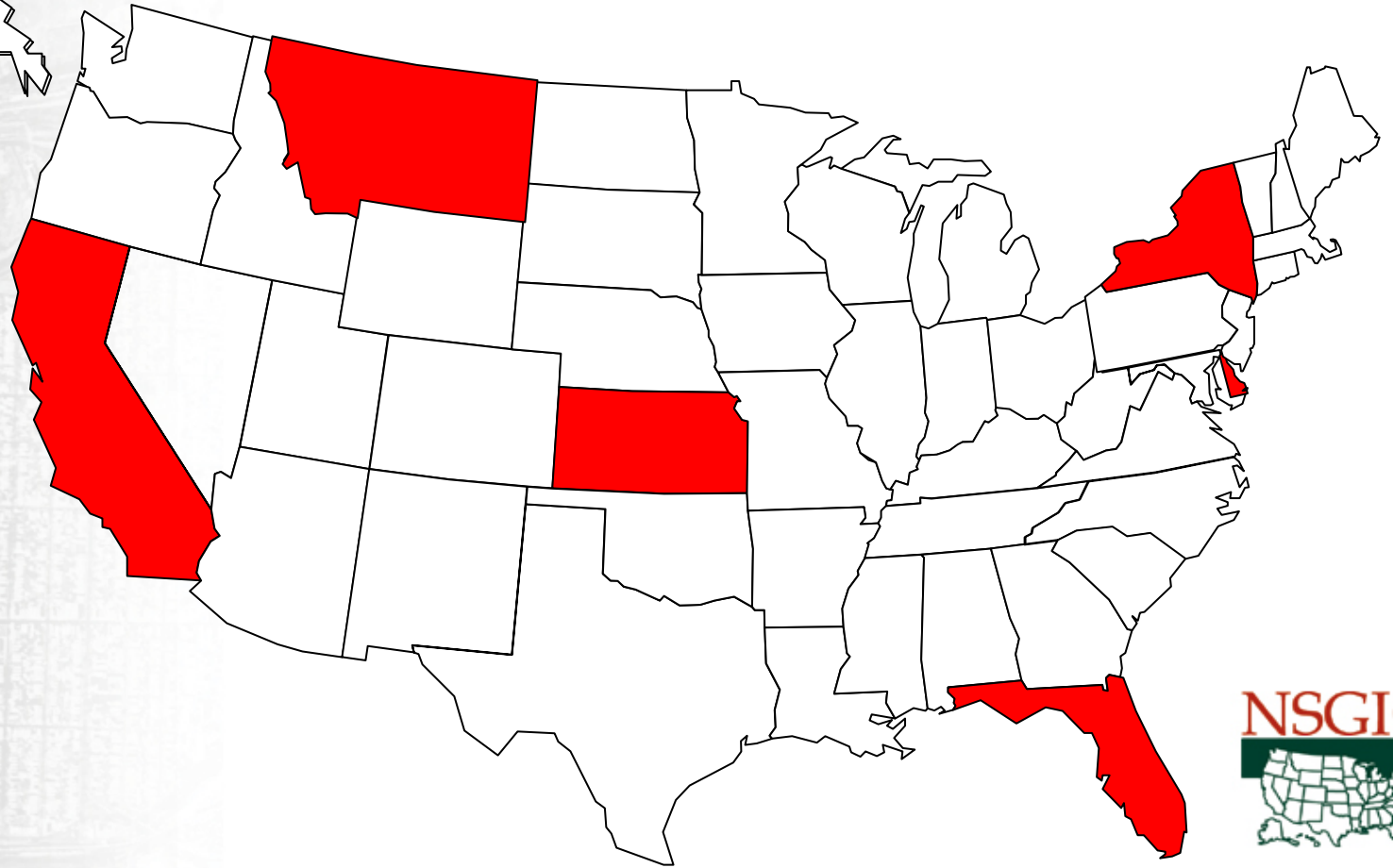
Geographic Data Sharing



Internal GIS Use



We have common needs, but every state is different due to **demographics, geography & “hot” issues**



Coordination

- Each State is different, with differing structures of government and interaction, and all are in various stages of coordination regarding mapping
- NSGIC developed a listing of critical factors for measuring performance objectives and the criteria needed for an effective statewide coordination program.
- The Coordination Model supports the increased coordination and provides direction to States with clear measurable success criteria.
- Items featured in the lists are intended as guidelines to be considered in the development and administration of any GIT coordination program.



Coordination

- Mapping data will be available in a form that is usable to the public, private sector and government.
- The business requirements of all participants are met through coordination activities.
- Efficiencies can be demonstrated from coordination activities.
- All levels of governments are engaged.
- The statewide coordinating authority is a first point of contact for Federal grants, programs and initiatives.
- Good coordination and communication between neighboring states.
- Duplication of effort and data collection are eliminated, well at least reduced.



Communication + Coordination = Collaboration

- Coordination creates more opportunities for partnering and collaborating on national, regional and statewide initiatives
- Partnering at all levels of government for Integrated Solutions
- The only way to initiate collaboration resulting in integration is through coordination.
- Better Preparation for the Future and a more focused expenditure of taxpayers' dollars!



9 Coordination Model Characteristics

- Full-time coordinator
- Defined authority
- Formal relationship with state CIO
- Political or Executive Champion
- NSDI and Clearinghouse responsibilities assigned
- Ability to coordinate with local government, academia, the private sector, and other stakeholders
- Sustainable funding
- Contracting authority
- Federal government works through Council



Key Findings on “The Infrastructure of Coordination”

- 49 states responded; self-assessment
- Overall it's better than we thought
- No regional patterns
- 8 states meet all 9 criteria
- 19 states meet 8 or more criteria
- 31 states meet 6 or more of the 9 criteria
- Only 18 meet less than 6 criteria
- Sustainable funding is the most consistently lacking criteria



Do you know your State Coordinator?



- <http://nsgic.org/states/index.cfm>

50 State GIS Coordinators

- Formal and Informal Structure
- Coordinators can assist in several ways:
 - Contacts with other GIS Professionals
 - Coordinate Data Resources and initiatives
 - Forums for Discussion
- Coordinators need your Participation and Expertise
 - Get involved with your coordinator
 - Work with organizations to define statewide program components

<http://nsgic.org/states/index.cfm>



NSGIC Initiatives

- 50 States Initiative – strengthens coordination and collaboration within and without States
- Ramona GIS Inventory System
- **Imagery for the Nation** – first step for sustainable funding for imagery meeting requirements of multiple levels of governments

<http://nsgic.org/hottopics/index.cfm>



What is Imagery for the Nation?

Everyone Wants Imagery

- Local Government
- Regional Government
- State Government
- Tribal Government
- Federal Government
- Private Sector
- Academic Sector
- Everyone



Current Situation

- Public Records Laws
 - Require Public Domain, or
 - Allow License, Copyright
- Every Organization Meets Own Mission
 - Varying quality, image types, resolution, projections, tile schemes
- Inconsistent Treatment for Homeland Security Failure to maintain many partnerships
 - Money comes and goes
- No sustainable National program
- Should not be constrained by what you can afford



NSGIC - IFTN

- Created Imagery for the Nation (Conceptually)
 - Fall 2004
- Developed the concept by Committee
 - August 2005
- “Pitched” the program to the FGDC
 - October 2005
- FGDC sent the concept to the National Digital Orthophoto Program for review



NDOP's Assignment

- Evaluate and “firm-up” the program design
- Review Budget and Develop a Strategy
- Develop a Business Plan
- Involve Stakeholders



Vision

The nation will have a sustainable and flexible digital imagery program that meets the needs of local, state, regional, tribal and federal agencies.



Existing Problem

- There is no comprehensive national program that meets the needs of all government sectors
- As a result, we are wasting money in three ways
 - Duplication of effort
 - Not using nationwide contracting
 - Reducing the value and availability of product



Duplication of Effort

- Orthoimagery **may be** produced multiple times in one year over the same landscape resulting in wasted tax dollars for:
 - Production
 - Quality Control
 - Archive and Distribution
 - Planning (**thousands of hours are spent in every state and at the Federal level trying to pull partnerships together**)



Nationwide Contracting

- Local governments (small areas) generally will pay at least 30% more money than a large federal program for the same product because they can't get a "volume discount"
- Sometimes they pay excessive amounts for a variety of reasons



One-Meter Program

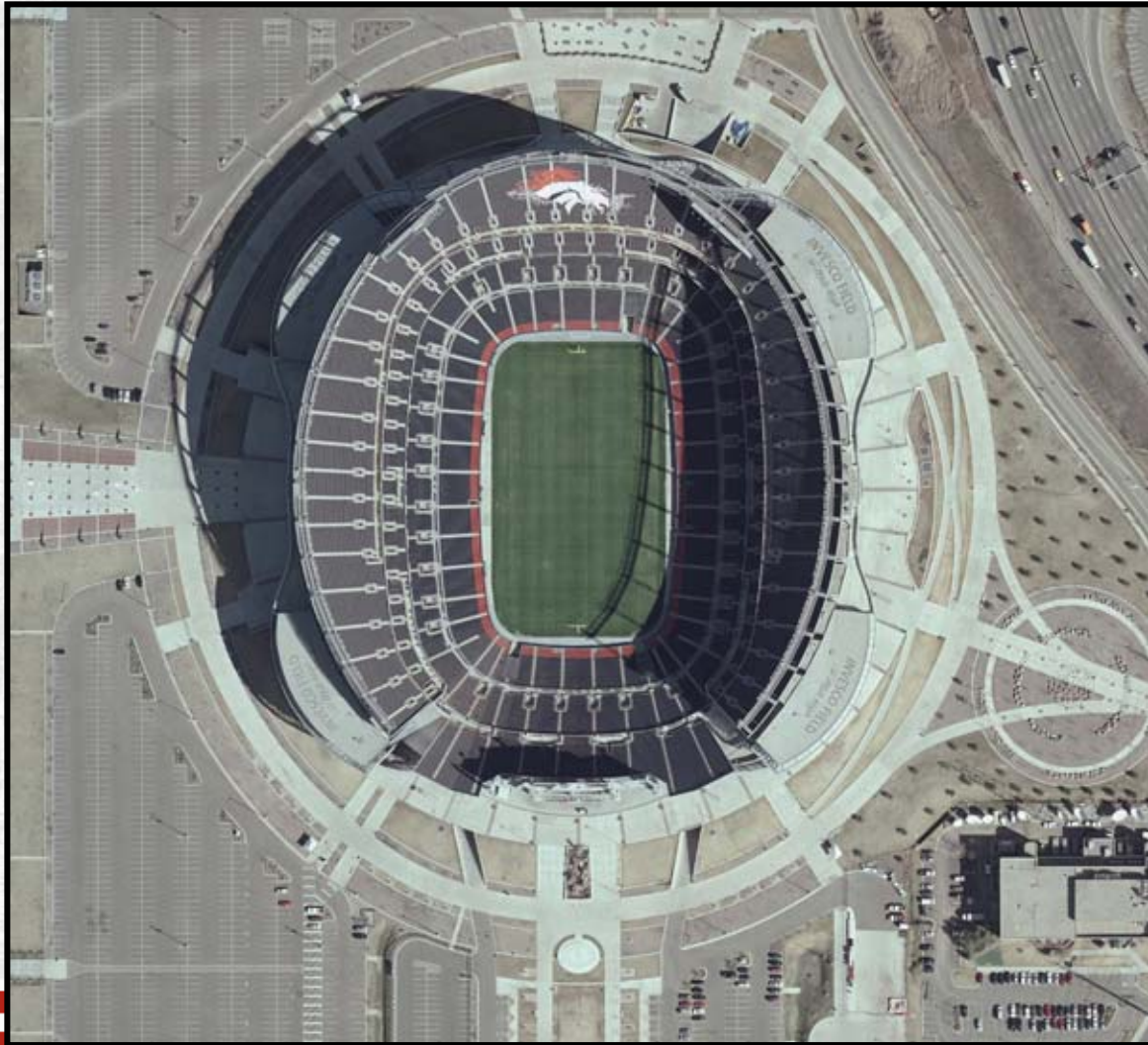


One-Meter Program

- Enhancement of the existing National Agricultural Imagery Program (NAIP)
- Annual coverage of “lower 48” states
- Hawaii, Insular Areas and Territories will be acquired every 3 years
- Alaska will be acquired every 5 years
- Natural Color, Leaf-on, 10% Cloud Cover
- Limited “buy-up” options
 - CIR
 - Four Band Digital
 - Improved Horizontal Accuracy



One-Foot Program

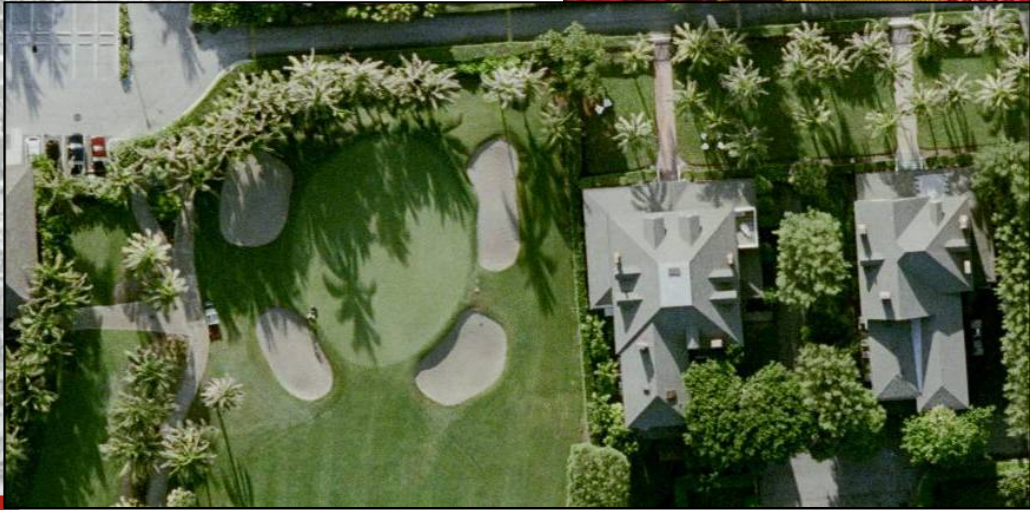


One-Foot Program

- Everything East of Mississippi River
- All Counties West of Mississippi River with Population > 25 People/Square Mile
- Every 3 Years
- Leaf-off, Natural Color, 5' NSSDA
- Extensive Buy-up Options
- USGS Manages Program



Six-Inch Program



Six-Inch Program

- All Urbanized Areas per U.S. Census Bureau Definitions (>50,000 population with > 1,000 people per square mile)
- Every 3 Years
- Leaf-off, Natural Color, 2.5' NSSDA
- Extensive Buy-up Options
- USGS Manages Program
- 50% Cost Share Requirement



Program Basics

- Statewide GIS councils will specify orthoimagery requirements in business plans
- Plans will be filed with the NDOP Committee
- All imagery will reside in the public domain, remain available on Internet
- Use a consistent national approach to address security concerns.



Program Basics

- National standards will be used
- Federal funds will pay for the base products
- “Buy-up” provisions will meet more specific needs
- States have first option for managing the high-resolution programs
- Contract incentives will be used to assure timely product deliveries (??)



Budget Detail

Annual Costs for the Imagery for the Nation Program are estimated to be \$111 Million Dollars.*

This includes all Production, QA/QC, Archive and distribution costs.

*(3-year average with 3.5% CPI per year)



Expected Taxpayer Savings

- Economies of Scale savings \$57.8 m
- Reduced Duplication of Effort \$53.6 m
- Other Costs \$ 7.5 m
- Standards and ROI \$40.1 m

- Total Savings (per 3-year cycle) \$159 m

(Savings are realized by replacing existing local, state, tribal and federal programs with one consistent national program)



Opportunities

- Program is needed and wanted...
- Success of this program can pave way for others (roads, parcels, etc.)...
- Two agencies already have programs in place that support this proposal...



Challenges

- Massive Effort with Aggressive Timeline...
- Identifying program expenditures across all Federal agencies...
- Developing funding alternatives without complete picture...



What's Happening

- Executive Federal committee appointed to look at funding alternatives
 - Trying to get into '08 Budget – Now '09
- NSGIC pulling together a coalition to advocate for program in Congress
 - “Kick-off” March 22
- IFTN information can be found on the NSGIC website <http://nsgic.org/hottopics/index.cfm> and click on the Imagery for the Nation icon



Additional Information about NSGIC Initiatives

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Communication is a Key – stay engaged and in touch!

- Several Listservers
 - State Representatives
 - NSGIC Members
 - NSGIC Board and Officers
- Newsletter
- Website www.nsgic.org



Get with you State Coordinator!

- Coordinators can assist in several ways:
 - Communicate about other initiatives that may impact your state
 - Connect and Contact other GIS Professionals
 - Coordinate Data Resources and initiatives
- Coordinators need your Participation and Expertise
 - Get involved with your coordinator
 - Work with organizations to define statewide program components

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QUESTIONS

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NSGIC

National States Geographic Information Council



Question #	Questions	Positive Results
1	Has your state designated a full-time, paid coordinator position that has the authority to implement the state's business and strategic plans?	29
2	Does a clearly defined authority exist for statewide coordination of geospatial information technologies and data production?	40
3	Does your statewide coordination of offices have a formal relationship with the state's Chief Information Officer (or similar office)?	36
4	Do you have a champion (politician or executive decision-maker) that is aware and involved in the process of coordination?	36
5	Does your state have assigned responsibilities for developing the National Spatial Data Infrastructure and a State Clearinghouse?	39
6	Does your state have mechanisms to work and coordinate with local governments, academia, and the private sector?	43
7	Does a sustainable funding source exist to meet projected needs?	13
8	Does your state GIS Coordinator have the authority to enter into contracts, and receive or expend funds?	29
9	Does the Federal government work through your statewide coordinating authority?	40



What is Ramona?

- Internet Accessible GIS Inventory Tool
 - Users
 - Organizations
 - Systems
 - Policies
 - Data
- Customized for each state
- Central System
- Creates Metadata
- Works in concert with GOS Portal
- Management tool (future use in business plans)

