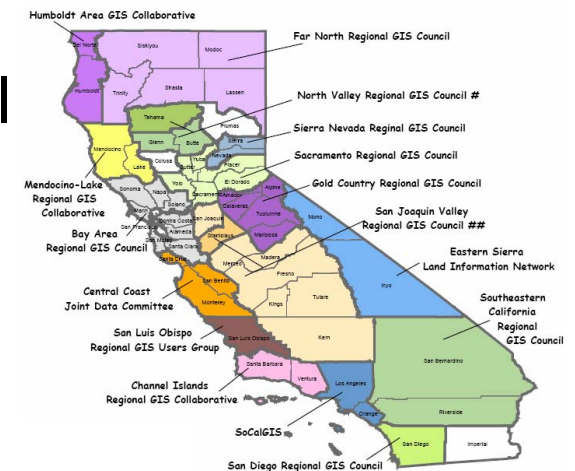


Generic All Workshops CA



Collaboratives Represented Today?

- ☐ Bay Area Regional GIS Council
- ☐ Central Coast Joint Data Committee
- ☐ Channel Islands Regional GIS Collaborative
- ☐ Eastern Sierra GIS Network
- ☐ Far North Regional GIS Council
- ☐ Gold Country Regional GIS Collaborative
- ☐ Humboldt Area GIS Collaborative
- ☐ Mendocino-Lake Regional Collaborative
- ☐ North Valley Regional GIS Council
- ☐ Sacramento Regional GIS Council
- ☐ San Diego Regional GIS Council
- ☐ San Joaquin Valley Regional GIS Council
- ☐ San Luis Obispo Regional Council
- ☐ Sierra Nevada Regional GIS Council
- ☐ SoCal GIS
- ☐ Southeastern California GIS Council



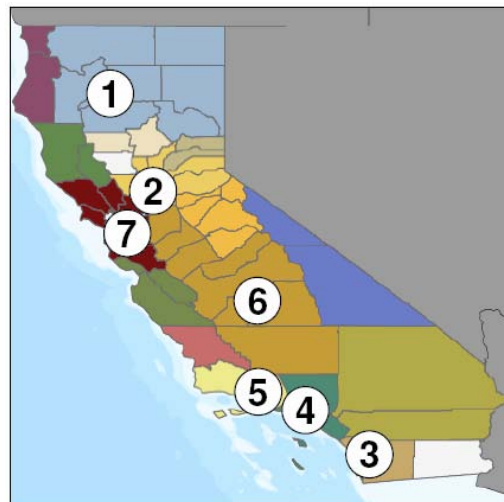
What is this project all about?

The vision guiding the CA-SDI Draft Strategic Planning process is for California to create and maintain a robust and efficient spatial data infrastructure that provides quality geospatial information in the service of improving quality of life for all Californians.

Work with the California GIS Council
Lead representative to **solicit, identify, summarize, and integrate regional perspectives** into a draft Strategic Plan work product that contributes to development of a California Spatial Data Infrastructure (CA-SDI).

Project Elements

| | Aug 07 | Sept 07 | Oct 07 | Nov 07 | Dec 07 | Jan 08 | Feb 08 | Mar 08 | Apr 08 |
|--|--------|---------|--------|--------|--------|--------|--------|--------|--------|
| Kickoff Meeting | | | | | | | | | |
| Workshop Presentation Development | | | | | | | | | |
| Workshop Locations Selected | | | | | | | | | |
| Establish Dates/Venues with Collaboratives | | | | | | | | | |
| Develop Outreach Flyer | | | | | | | | | |
| Notify Geospatial Community | | | | | | | | | |
| Survey Development | | | | | | | | | |
| Administer Survey | | | | | | | | | |
| Compile Survey Results | | | | | | | | | |
| Identify Ph 2 Plan Content Outline | | | | | | | | | |
| Conduct Workshops | | | | | | | | | |
| Develop Draft Ph 2 Plan | | | | | | | | | |
| CA Geospatial Community Feedback | | | | | | | | | |
| Finalize Plan | | | | | | | | | |
| Publish Phase 2 Strategic Plan | | | | | | | | | |
| Present Project Results at CalGIS 2008 | | | | | | | | | |



248. Have you applied/used the California Environmental Information Catalog at a regional or local level?

| | | |
|--------------|-----------|-------------|
| Yes | 5 | 50% |
| No | 5 | 50% |
| Total | 10 | 100% |

249. Do you view the establishment of a state government GIO as important?

| | | |
|--------------|-----------|-------------|
| Yes | 8 | 80% |
| No | 2 | 20% |
| Total | 10 | 100% |

250. Phase 1 of the Strategic Plan identified the following principal responsibilities of a GIO. What roles and responsibilities do you (the Region) envision for a state GIO?

| | | |
|--|---|-----|
| Select all that apply... | | |
| Provide leadership in the development and sharing of geospatial data | 9 | 90% |
| Provide leadership in the development and sharing of geospatial web services and tool | 6 | 60% |
| Provide leadership in the establishment of GIS technology and data standards | 5 | 50% |
| Promote best practices for methods and procedures related to the use and development of geospatial data and geographic information systems | 7 | 70% |

Project Sponsors

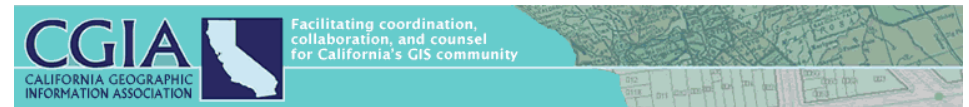
California GIS Council (CGC)



US Geological Survey (USGS)

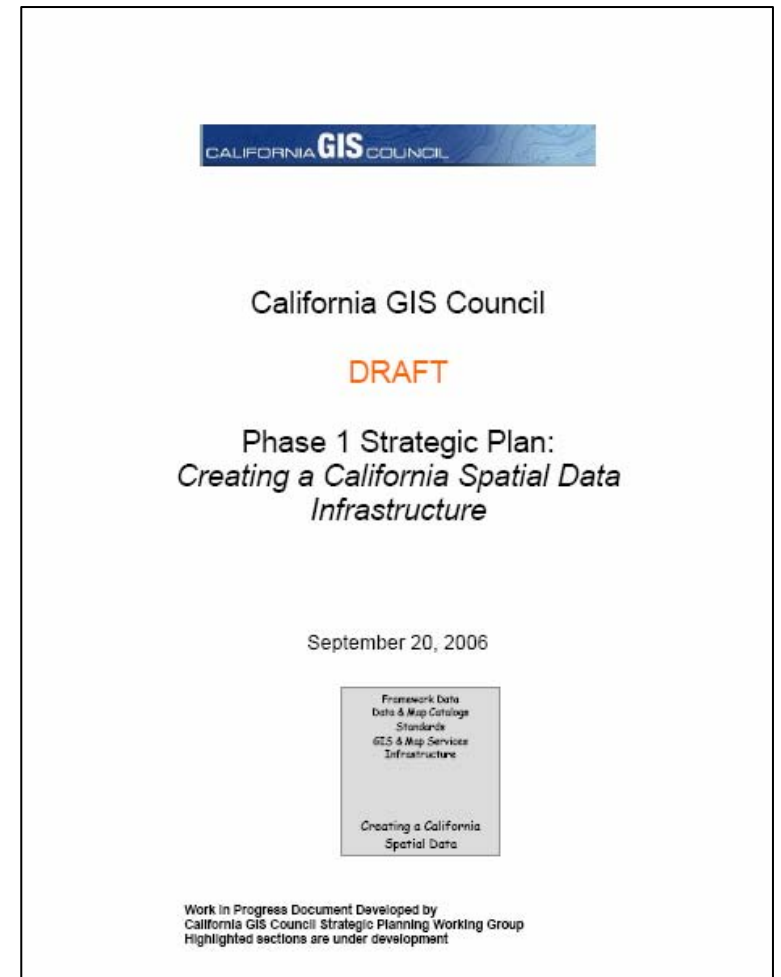
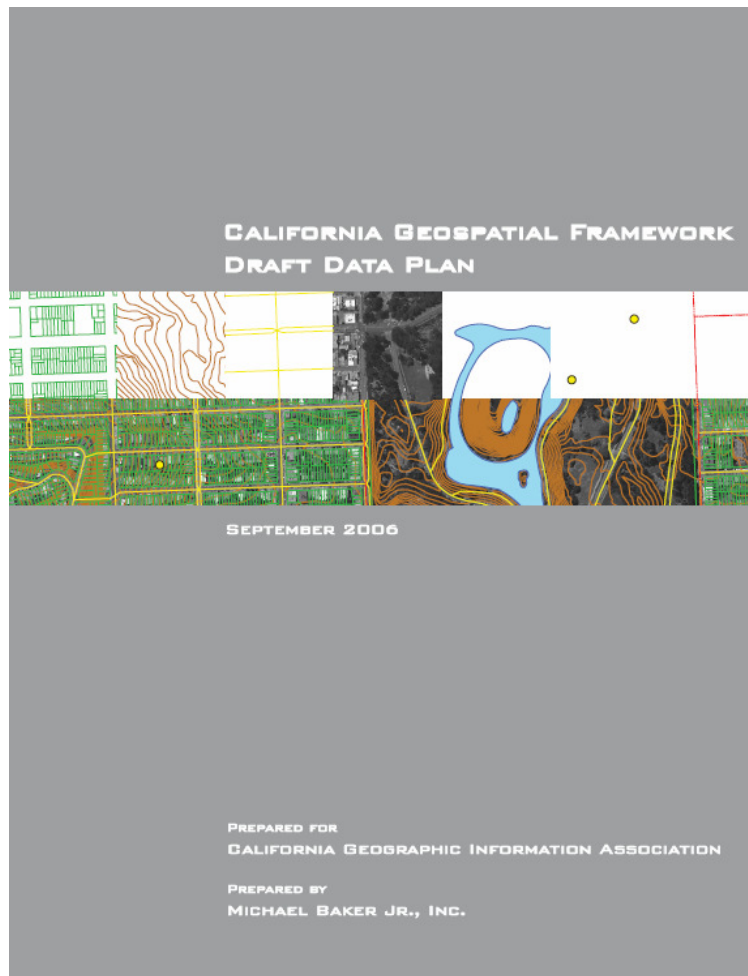


California Geographic Information Association (CGIA)



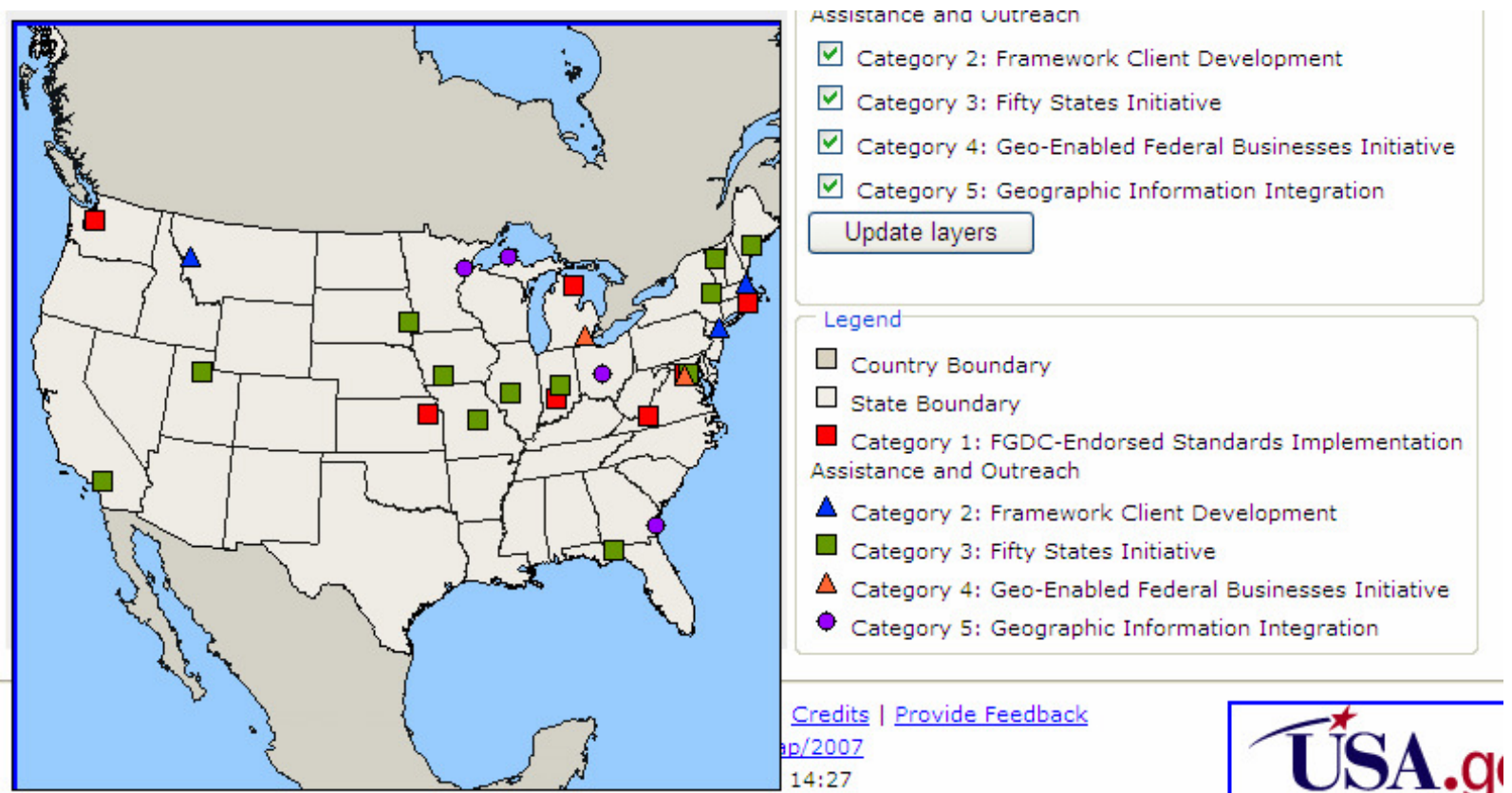
Project Contractor

Michael Baker Jr., Inc. **Baker**



Project Funding

- National Spatial Data Infrastructure (NSDI) Cooperative Agreements Program (CAP)
- CAP grants provide seed funds to assist in implementing the components of the NSDI



CA GIS Council

- Representatives from local, tribal, state and federal government agencies and the private sector...
- Formed to collaborate on the planning, implementation and maintenance of a California GIS infrastructure
- Infrastructure in a holistic sense to encompass systems, organizational programs, policy, standards, procedures, and any other factors that...
- Affect the ability of member organizations to jointly develop or acquire, share and maintain spatial data adequate to their needs.

CA Geographic Information Association

Providing a “*unified*” statewide voice for promoting the intelligent use of GIS in California:

- **Advocacy** for California’s geospatial community in policy and legislative matters concerning GIS and California Spatial Data Infrastructure
- **Facilitate grants** that enhance California geospatial initiatives
- Facilitate the development of **education sessions** that supports resolving important, relevant **public policy** issues
- **Partnering** with organizations in support of CGIA’s mission

Here is what the
Workshop is going to look like...

Workshop Agenda

- National Background
 - FGDC & NSDI
 - Fifty States Initiative
- California Background
 - Legacy Strategic Planning Initiatives
 - Web-based Data Needs Survey
 - GIS Strategic Plan Phase 1
 - CA Geospatial Framework Draft Data Plan
- Phase 2 Regional Participation
 - Pre-Workshop Survey
 - Regional Workshops
 - Web Forum Feedback
 - Published Phase 2 Strategic Plan

A backgrounder to get Workshop attendees to the same place...

National Background

- Federal Geographic Data Committee
- National Spatial Data Infrastructure (NSDI)
- Geospatial One-Stop (GOS II)
- NDEP & NDOP
- Imagery for the Nation
- Fifty States Initiative

Federal Geographic Data Committee (FGDC)

An interagency committee that promotes the coordinated development, use, sharing, and dissemination of geospatial data on a national basis.



The screenshot shows the homepage of the Federal Geographic Data Committee (FGDC) website. The header features the FGDC logo on the left, the URL www.fgdc.gov in the center, and links for Site Map, Accessibility, and Contact on the right. Below the header is a navigation bar with links to Home, Library, Calendar, Forums, and Contact Us. A search bar is located on the right side of the header. The main content area includes a sidebar on the left with links to Participation, Data & Services, Standards, Metadata, Framework, Policy & Planning, and Training. The main content area displays the title "The Federal Geographic Data Committee" and a paragraph describing the committee's mission and the National Spatial Data Infrastructure (NSDI). A "you are here: home" breadcrumb is visible. On the right side of the main content area, there is a "News" section with two items: "2006 CAP Grants Awarded" dated March 15, 2006, and "Clearinghouse Search Gateway Status" dated March 02, 2006. A "Final Geospatial" link is also present at the bottom of the news section.

fgdc
Federal Geographic Data Committee

www.fgdc.gov

Site Map Accessibility Contact

In entire website Search

Home Library Calendar Forums Contact Us

log in join

you are here: home

The Federal Geographic Data Committee

The Federal Geographic Data Committee (FGDC) is an interagency committee that promotes the coordinated development, use, sharing, and dissemination of geospatial data on a national basis. This nationwide data publishing effort is known as the [National Spatial Data Infrastructure \(NSDI\)](#). The NSDI is a physical, organizational, and virtual network designed to enable the development and sharing of this nation's digital geographic information resources. FGDC activities are administered through the FGDC Secretariat, hosted by the [National Geospatial Programs Office \(NGPO\)](#) of the U.S. Geological Survey. The NGPO oversees other geospatial programs of national importance including The National Map and the Geospatial One-Stop activity.

News

- [2006 CAP Grants Awarded](#)
March 15, 2006
- [Clearinghouse Search Gateway Status](#)
March 02, 2006
- [Final Geospatial](#)

National Spatial Data Infrastructure (NSDI)

- The technology, policies, criteria, standards and people necessary to promote geospatial data sharing throughout all levels of government, the private and non-profit sectors, and academia.

The National Spatial Data Infrastructure

February 2005

WHY DO WE NEED GEOSPATIAL DATA?

Government agencies and other organizations are frequently asked for quick responses to natural disasters, industrial accidents, environmental crises, and homeland security alerts. Much of the information needed to make sound decisions in such cases is based on geography. There is constant pressure to make wise decisions in a more cost effective and efficient manner. Accurate and current geospatial data are critical to these decisions.

HOW ARE GEOSPATIAL DATA MANAGED?

Geographic information systems (GIS) that facilitate spatial analysis play an increasing role in decision making at all levels of government and in private industry. GIS analyses, in turn, depend on the availability, quality, and compatibility of digital geographic data. Development of these data is normally the highest cost factor in the use of technology to address today's problems. Billions of dollars are invested annually in producing geospatial data. Many of these data collection activities are redundant—data already exist but they are hard to find, frequently undocumented, and in incompatible formats.

HOW CAN WE BENEFIT FROM WORKING TOGETHER?

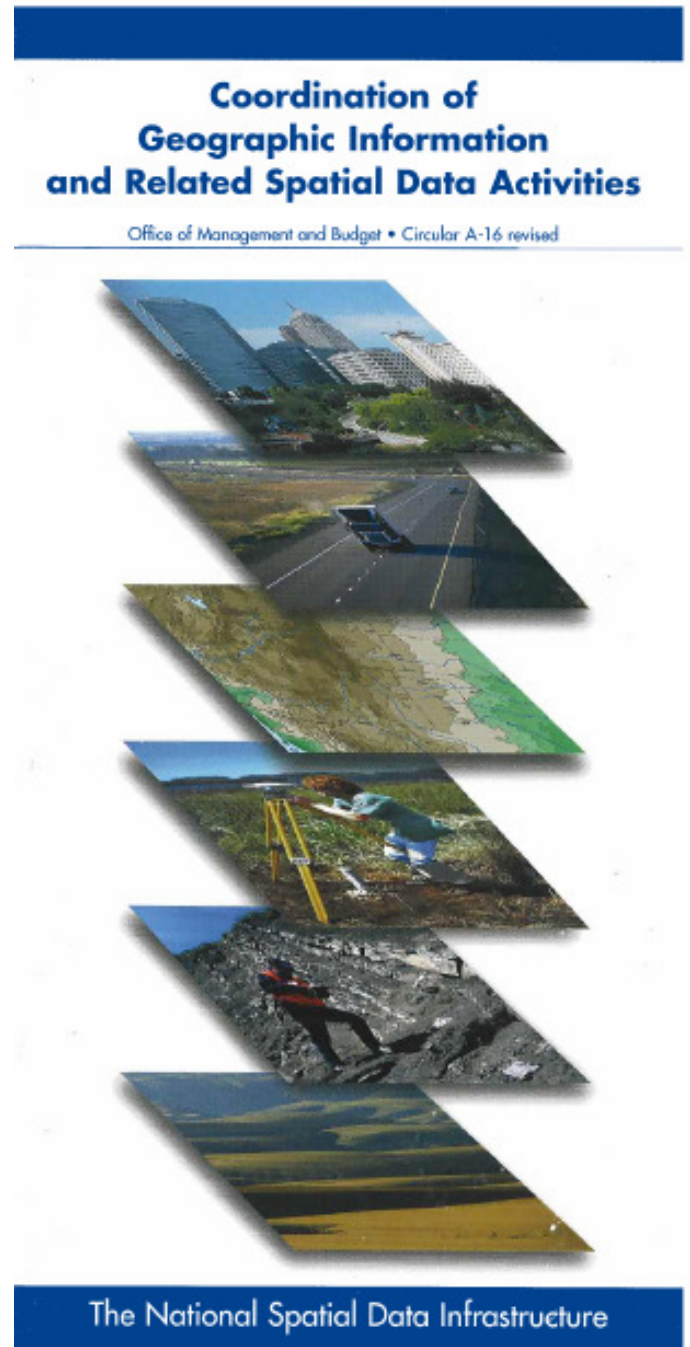
Consistent, reliable means to share geospatial data among all users could result in significant savings for data collection, enhanced use of data, and better decision-making. In April 1994 President Clinton signed Executive Order 12906, calling for the establishment of the National Spatial Data Infrastructure (NSDI). The NSDI is seen as the technology, policies, and people necessary to promote geospatial data sharing throughout all levels of government, the private and non-profit sectors, and academia. In August 2002, the President's Office of Management and Budget issued revised Circular A-16, reaffirming the government's commitment to building the NSDI. The dictionary definition of the word infrastructure describes the major concepts around which the NSDI is designed.

infrastructure n. 1. An underlying base or supporting structure. 2. The basic facilities, equipment, services, and installations needed for the growth and functioning of a country, community, or organization. 3. A governmental or administrative apparatus.

Background

What is the
Geospatial Framework?

- An initiative to develop a readily available set of basic geographic data for the State of California




http://www.whitehouse.gov/omb/circulars/a016/a016_rev.html

Geospatial One-Stop (GOS II)

- Primary Use
 - Discovery and access to geospatial resources (data, applications, web sites)
- Primary Goal
 - Reduce redundant investments and facilitate cost sharing



Geospatial One-Stop (GOS II)



U.S. MAPS & DATA

Your One Stop for Federal, State & Local Geographic Data

Home Search Maps Marketplace Communities Statistics Help Center

Log in Sign up

Search geodata.gov

Help -

Your Search Criteria

What: land cover

Where: Santa Barbara, California, United States

Time Frame: Anytime

Content Types: Live Data & Maps

Data Categories: All Categories

Sorted by: Relevance

[Selected Types](#) [Live Data and Maps](#) [Downloadable](#) [New Search](#) [Refine Search](#)

[Offline Documents](#) [Applications](#) [Geographic Services](#) [Clearinghouses](#) [Geographic Activities](#)

Metadata Results Results 1-10 of about 17 Metadata Records (0.541 seconds)

Content Title: U.S.G.S. National Land Cover Dataset (NLCD)

Abstract: The USGS, in cooperation with the USEPA, has produced a land cover dataset for the conterminous US, based on Landsat Thematic Mapper imagery (circa 1992) and supplemental data. The National Land Cover Dataset (NLCD) contains 21 categories of land cover information.

Content Type: Live data & maps (Map Service)

[View Summary](#) [Full Metadata](#) [Add to Map](#) [Go to website](#)

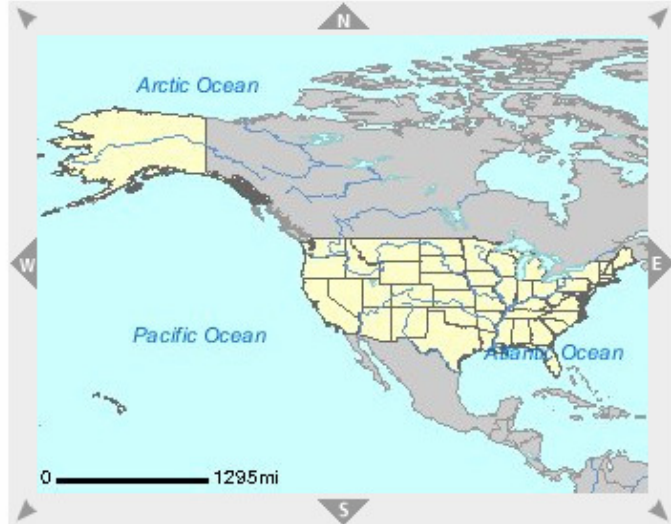
Content Title: Fedorova, Volkova, and Varlyguin World Vegetation Cover

Abstract: This dataset characterizes natural primary vegetation cover which is an indicator of long-term stable climatic and ecological conditions. Three hierarchical classifications (Code, Type, and Group) are provided in both Vector and Raster form based on the structural and floristic characteristics of vegetation as well as on ecological-geographic criteria. These maps reveal the characteristic features of zonal subdivision of the vegetation on the plains and altitudinal differentiation in the mountains as well as regional vegetation types. The dataset consists of six thematic layers, one raster and one vector for:

My Geography - Define Spatial Search Area

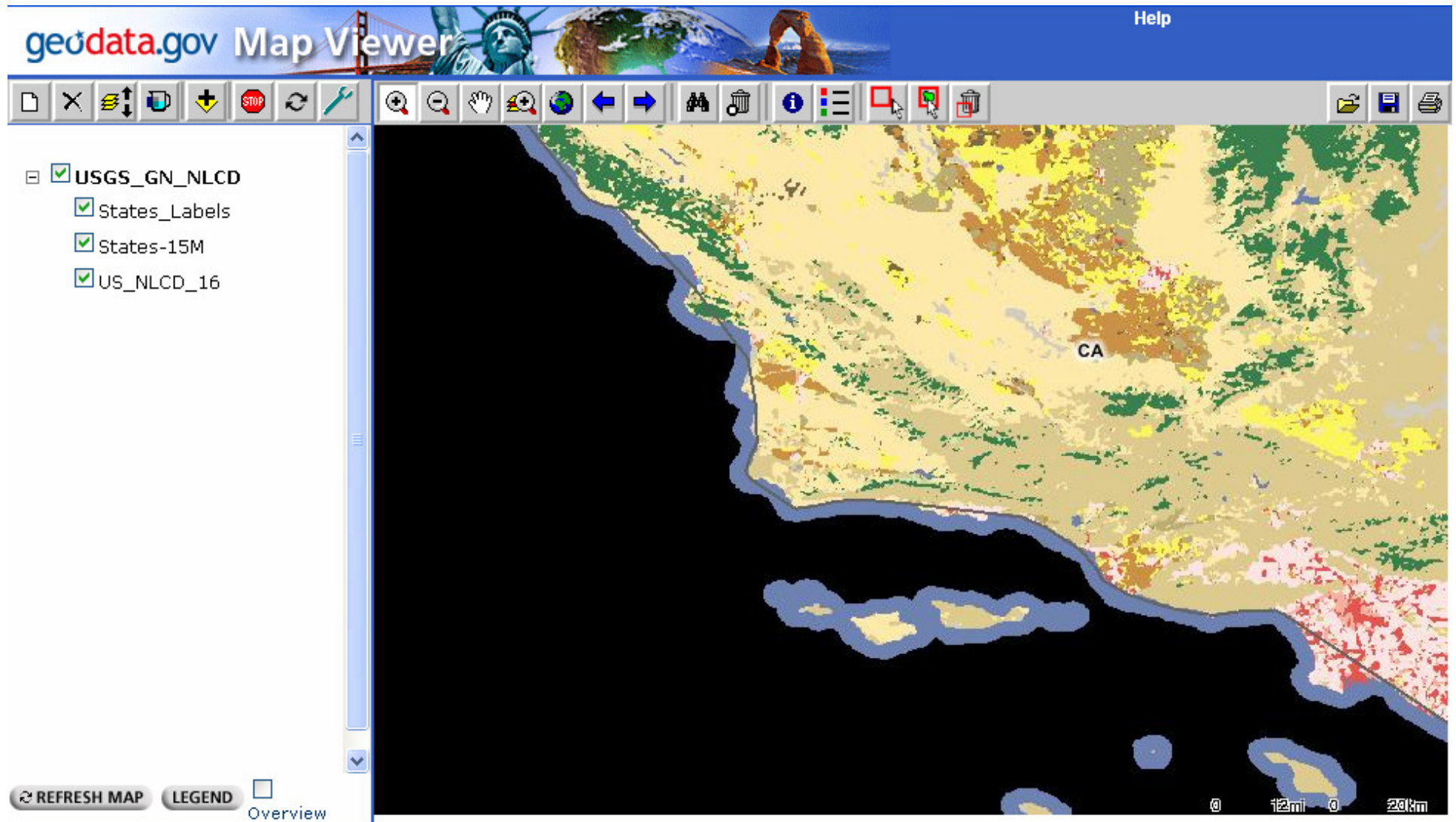
Help -

[Find](#)




[Clear](#) [Refresh](#)

Geospatial One-Stop (GOS II)





National Digital Elevation Program (NDEP)

Mapping
Information Platform

 FEMA

Home

NDEP Project Tracking System



National Digital Elevation Program

Welcome to the NDEP Project Tracking System.

On this site, you can choose any of three options:

- 1) **Upload Metadata** to load projects by uploading XML files directly to the Project Tracking System
- 2) **Enter Metadata** to enter project information in the Project Tracking System through online forms
- 3) **Search Metadata** to query the Project Tracking System for existing projects

The online forms are used to generate an FGDC-compliant metadata record. A copy will be emailed to you for your use.

For help on how to use the NDEP Project Tracking System, see the quick User Reference ([Adobe PDF](#)), User Guide ([Adobe PDF](#)), and [FAQ](#). Adobe PDF documents require the [Adobe Reader](#).

If you experience technical difficulties using the system, please send us an email (MIPHelp@mapmodteam.com). You will receive a response promptly.

If you have questions about the National Digital Elevation Program project coordination activities, please see the [NDEP Project Coordination Subcommittee](#) web page.

Most of the metadata terms can be found in this [glossary](#).

There are several tools and explanations of how metadata is used at the [USGS's geology metadata page](#).

Another good source for researching metadata terminology and definitions is at the [Image Map of the Content Standard for Digital Geospatial Metadata](#).

And, of course, there is the [FGDC website](#).

Upload Metadata

Enter Metadata

Search Metadata

hazards.fema.gov/metadata/ndep

National Digital Elevation Program (NDEP)

Mapping
Information Platform



Home

NDEP Project Tracking System - Search



National Digital Elevation Program

Please enter one or more search criteria. Search by location by zooming in on the map interface or by entering bounding coordinates in the text boxes below the map. You may also search by content status, agency involved, time period, or elevation project-specific information such as surface mapped and vertical accuracy range. For more information, please see the quick User Reference ([Adobe PDF](#)) and User Guide ([Adobe PDF](#)). Adobe PDF documents require the [Adobe Reader](#).

Search by Location



Bounding box:

Max Y:

Search by Content Status

Progress:

Search by Agency

Lead Agency:

Participating Agency:

NRCS
FS
USGS

Search by Time Period

Fiscal Year:

Fiscal Year Range:

From To

Search by Elevation Details

Surface Mapped:

Bare Earth Surface
Reflective Surface
Constant Elevation

National Digital Orthophoto Program (NDOP)

Mapping
Information Platform



Home

NDOP Project Tracking System



National Digital Orthophoto Program

Welcome to the NDOP Project Tracking System.

On this site, you can choose any of three options:

- 1) **Upload Metadata** to load projects by uploading XML files directly to the Project Tracking System
- 2) **Enter Metadata** to enter project information in the Project Tracking System through online forms
- 3) **Search Metadata** to query the Project Tracking System for existing projects

The online forms are used to generate an FGDC-compliant metadata record. A copy will be emailed to you for your use.

For help on how to use the NDOP Project Tracking System, see the quick User Reference ([Adobe PDF](#)) and User Guide ([Adobe PDF](#)). Adobe PDF documents require the [Adobe Reader](#).

If you experience technical difficulties using the system, please send us an email (MIPHelp@mapmodteam.com). You will receive a response promptly.

If you have questions about the National Digital Orthophoto Program project coordination activities, please see the [NDOP Project Coordination Subcommittee](#) web page.

Most of the metadata terms can be found in this [glossary](#).

There are several tools and explanations of how metadata is used at the [USGS's geology metadata page](#).

Another good source for researching metadata terminology and definitions is at the [Image Map of the Content Standard for Digital Geospatial Metadata](#).

And, of course, there is the [FGDC website](#).

Upload Metadata

Enter Metadata

Search Metadata

hazards.fema.gov/metadata/ndop

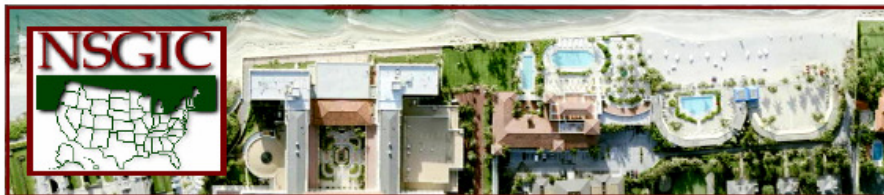
Imagery for the Nation

- NSGIC initiative
- Federally funded imagery for entire U.S.
- 1-meter imagery, 1-foot, and 6-inch
- Buy up options from 1-meter
- Avoid redundant data sets



Imagery for the Nation

www.NSGIC.org



NATIONAL STATES GEOGRAPHIC INFORMATION COUNCIL

DIGITAL AERIAL Imagery for the Nation

NSGIC's Vision

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

Federal funding should support nationwide production of standardized multi-resolution products every three years. Local, state, regional, tribal, and private partners could pay to enhance those products in specific areas based on their needs. Aerial imagery should remain in the public domain and be archived to secure its availability for future scientific, legal, and historical purposes.

In spite of the need for these products and their proven value for scores of applications, our nation currently has no strategy or program to sufficiently fund, collect, manage, archive or distribute aerial imagery.

Aerial imagery, in the form of digital orthophotos, is the foundation for most public and private GIS (Geographic Information Systems) operations, yet it is being developed by hundreds of different entities across this country in an uncoordinated fashion. There are holes in the coverage, and we are plagued by duplication of effort; higher costs; varying quality, accuracy and currency; and restrictions on its access and use.

As a nation, we must effectively coordinate the imagery requirements for the National Spatial Data Infrastructure (NSDI). This will assure that our investment in all aerial imagery is wise and efficient.

Proposal Details

- Each statewide coordination council will specify its digital orthorectified imagery requirements in its business plan (resolution, frequency and image type).
- Ground pixel resolutions will include 6-inch, 1-foot, and 1-meter.
- Image types will include black & white, natural color, and false color infrared.
- Nationally, a 3-year acquisition cycle is required.
- The Federal government will fund 100% of the production costs for the following products:
 - 1-meter resolution in counties with population densities less than 25 people per square mile
 - 1-foot resolution in counties with population densities greater than 25 people per square mile
 - 6-inch resolution for defined urban areas
- Image acquisition will be accomplished during "leaf-off" conditions unless otherwise agreed to by statewide coordination councils and federal program managers.
- Appropriate national standards will be applied to all products.
- Participants can "buy-up" to acquire imagery at higher resolutions or faster intervals.
- States with statewide coordination councils will have the first option for management of their programs. Otherwise, program management will be performed by the federal government.
- Contract incentives will be used to assure timely delivery.
- All imagery will remain freely available on the Internet.
- A consistent national approach

will be used to address security concerns over identified facilities and sites.

- The federal government will provide expert technical support, permanent archives, and product distribution.

Cost of the Proposal

NSGIC estimates the cost of this program at approximately \$255 million per three-year cycle or \$85 million per year. Nationally, this program will save over \$60 million per 3-year cycle by taking advantage of the cost efficiencies realized when contracting for very large areas and even more by eliminating duplicate programs.

Cost variations will occur due to the difficulty and risk associated with imagery acquisition such as climatic conditions, terrain variations, and air traffic control restrictions over urban and other areas. Therefore, an additional \$10 million per year is included in the above cost estimates to pay for these contingencies and to help fund the imagery requirements for national emergencies such as September 11, 2001 and Hurricane Katrina.

What Can You Do?

Organizations interested in the availability and use of up-to-date and accurate aerial imagery can help NSGIC make this program a reality by:

- Endorsing the concept and offering advice to strengthen the proposal, and
- Joining efforts with NSGIC to present the merits of this proposal to the federal government and Congress.

Page 4

DIGITAL AERIAL IMAGERY FOR THE NATION

Examples of DIGITAL AERIAL Imagery and its Uses



AT RIGHT: This 1-foot resolution image was taken shortly after an F4 Tornado struck Charles County in Southern Maryland. It was used to document damage and help emergency managers during recovery operations. During this event, the water tower (top left) was removed prior to the arrival of the insurance adjuster. The adjuster was hesitant to settle the claim until presented with this image (shown at reduced resolution), that clearly showed the type of construction and damage sustained by the water tower.

AT LEFT: This is a 1-meter resolution false color infrared image of the type that is often used to identify natural features (e.g. forests & wetlands).

AT RIGHT AND BELOW: This false color infrared digital imagery demonstrates the effect that pixel resolution has on the usefulness of imagery. The image below was sampled to a 6-inch resolution while the image at right was produced with a 3-inch pixel resolution. Both images are of the same area. A minimum of 6-inch resolution is required for detailed mapping in urban areas.



National States Geographic Information Council

2105 Laurel Beth Road
Bel Air, Maryland 21015
443-646-1075 x110
443-646-1031 FAX
Fred@nsgic.org
http://www.nsgic.org



ABOUT NSGIC — The National States Geographic Information Council (NSGIC) is an organization of States committed to efficient and effective government through the prudent adoption of geospatial information technologies. Members of NSGIC include delegations of state GIS coordinators and senior state GIS managers from across the United States. Other members include representatives from federal agencies, local government, the private sector, academia and other professional organizations. A rich and diverse group, the NSGIC membership includes nationally and internationally recognized experts in GIS, geospatial data production and management, and information technology policy.

Fifty States Initiative



- The Fifty States Initiative is a partnership between the National States Geographic Information Council (NSGIC) and the Federal Geographic Data Committee (FGDC). It is **designed to bring all public and private stakeholders together in statewide GIS coordination bodies that help to form effective partnerships and lasting relationships.**
- There is a critical need to coordinate GIS activities on a statewide basis to eliminate waste and improve efficiency in government. Agencies at all levels of government need to coordinate with other stakeholders to keep from duplicating geographic data and systems at taxpayers' expense. ... The "right" solutions will vary state-by-state and they are **created through the development of effective strategic and business plans.**

Coordination Criteria

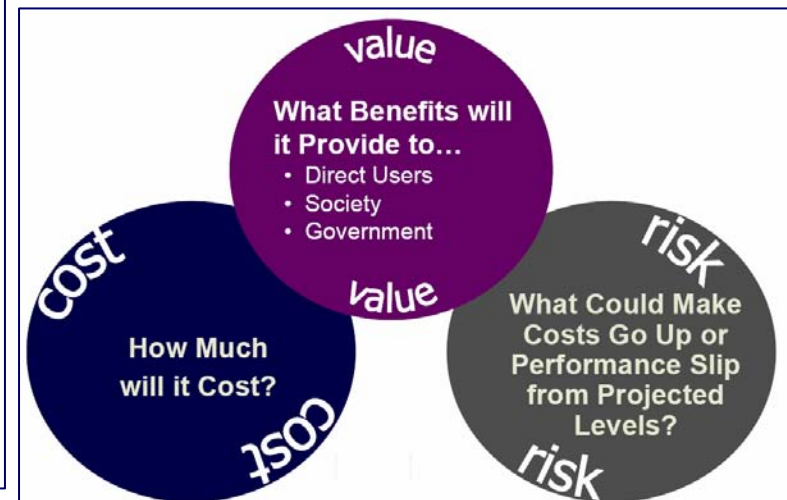
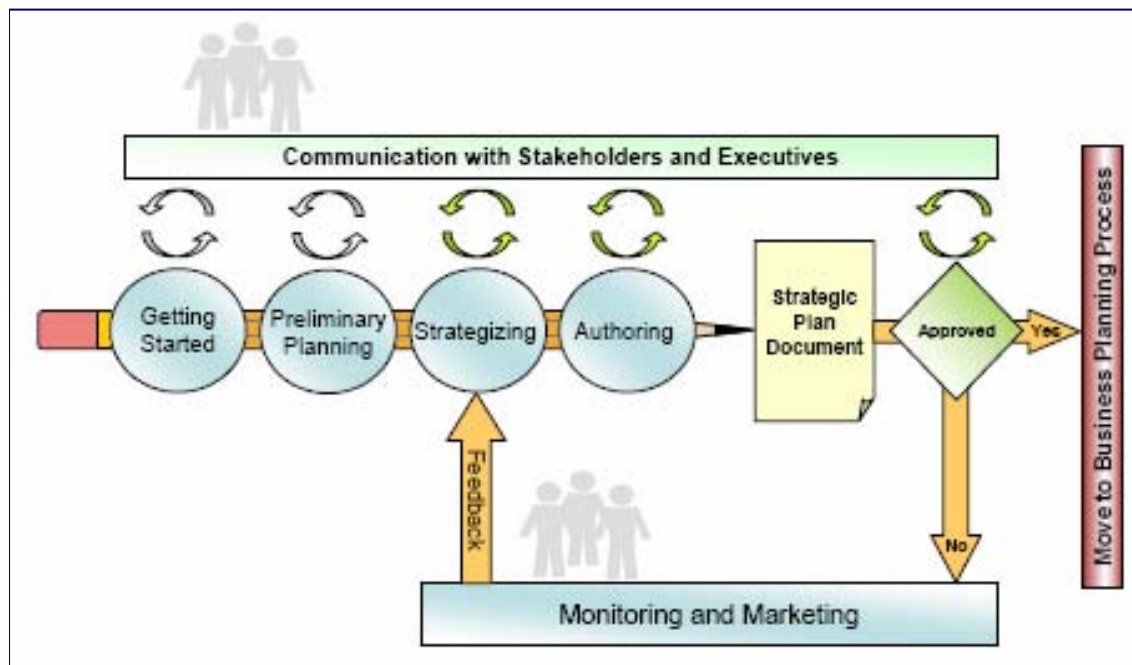


NSGIC believes that the following Coordination Criteria are essential to fully enable statewide geospatial coordination activities:

1. **Strategic and business plans**
2. A full-time paid **GIS coordinator** and staff
3. **Clearly defined authority** and responsibility for coordination
4. A relationship with the **chief information officer**
5. A **political or executive champion** is involved in coordination
6. A **tie into national programs**
7. An **inter-governmental working environment** free of "turf wars"
8. **Sustainable funding** mechanisms
9. **Contracting authority** and cost sharing mechanisms
10. Statewide coordination efforts that can be a **conduit for federal initiatives**

Strategic Plan & Business Case

A new program emphasizing strategic and business planning with specifically targeted implementation grants



Federal Enterprise Architecture

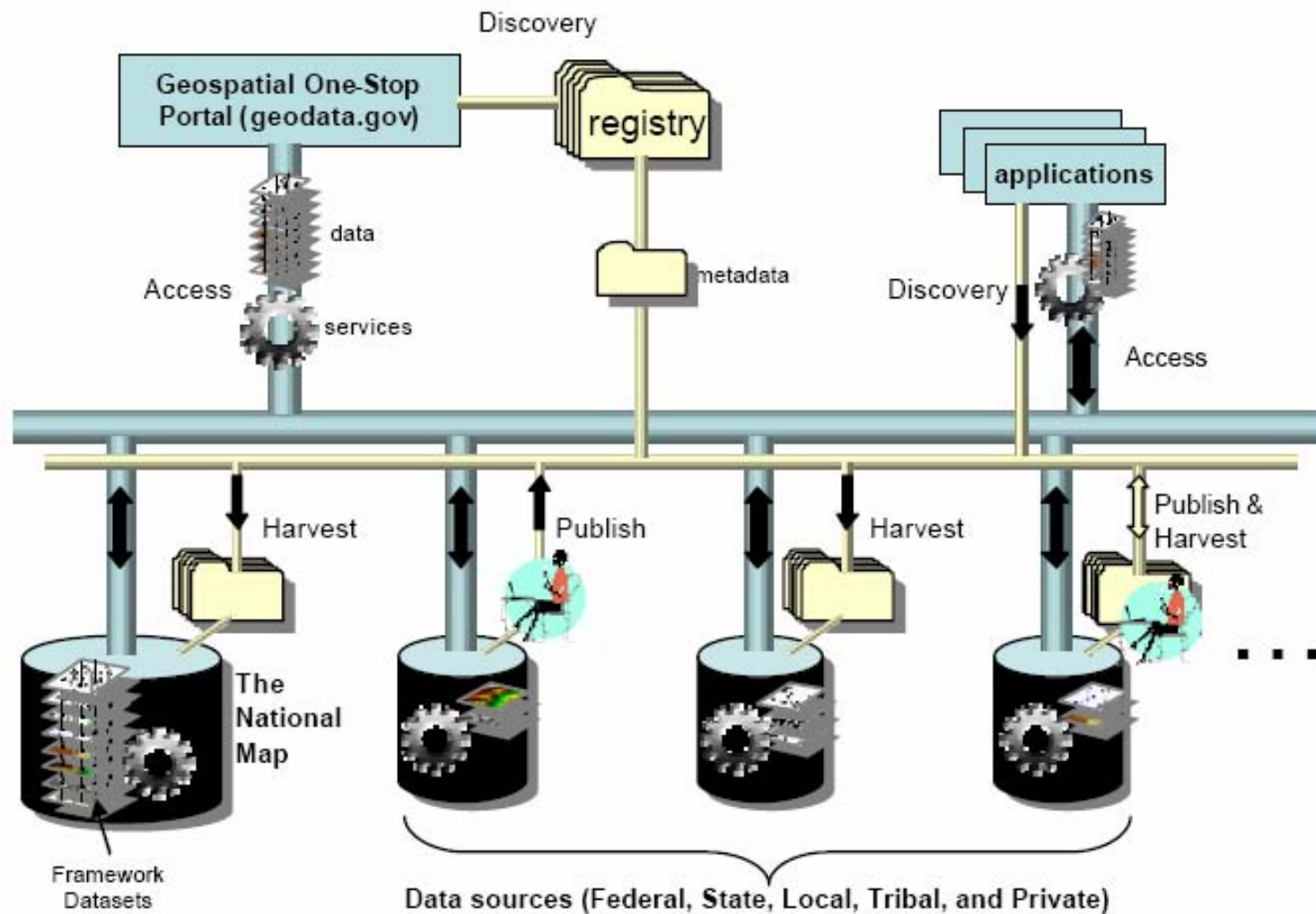


Figure 2: Key technology components of the National Spatial Data Infrastructure

California Backgrounder

California Background

- Legacy Strategic Planning Initiatives
- California Environmental Resource Evaluation System (CERES)
 - California Spatial Information Library (CaSIL)
 - California Environmental Information Catalog (CEIC)
- Web-based Data Needs Survey
- GIS Strategic Plan Phase 1 : CA-SDI
- CA Geospatial Framework Draft D
- GIS Strategic Plan Phase 2: Regional Collaboratives



2006 Survey

gis.ca.gov/council/survey.epl

[California Home](#)Thursday, October 27, 2005

Welcome to *California*

[GIS Council Home](#)
[Council Members](#)
[Meetings & Events](#)
[Documents](#)
[Regional GIS Councils](#)

Related Links
[California Spatial Information Library](#)
[CERES](#)
[USGS](#)
[FGDC](#)
[Environmental Information Catalog](#)
[State GIO](#)

News
[GIS Data Needs Survey](#)
[GIS Use Survey](#)

CALIFORNIA GIS COUNCIL

☐ My CA ☒ This Site

GIS Data Needs Survey

Your input is needed to help determine the collective needs of California's GIS community for framework geospatial data. This information will be used to develop a geospatial data plan by the California GIS Council.

This survey should take no more than 10 minutes to complete. Each program within an agency, organization, company or institution that uses or has a need for geospatial information should respond if possible. Survey results will be made available on this web site.

The term framework is taken to mean foundational data used to develop other data and of general purpose supporting many program or business processes. Framework data often requires collaboration for purchase, development and maintenance. The listing of framework data used here is based on the work of the Federal Geographic Data Committee and the experiences of the [California Mapping Coordinating Committee](#) and the Federal Geographic California Coordinating Committee.

Thank you in advance for your time and support.

[Take the survey now.](#)

[Back to Top of Page](#)

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2006 Survey

[illegible]

California Environmental Resource Evaluation System (CERES)

- CA Spatial Information Library (CaSIL)
 - Physical and cultural geospatial data
 - Distributed to the public via CERES servers

gis.ca.gov



The screenshot displays the CaSIL website. At the top is a banner with the text "Welcome to California" and a collage of California landmarks including the Golden Gate Bridge, a sunset, a canyon, yellow flowers, and the state seal. Below the banner is a navigation menu on the left with links: [CaSIL Home](#), [Data Collections](#), [Interactive Mapping](#), [Imagery Acquisition Coordination](#), [Frequently Asked Questions](#), [California Mapping Coordinating Committee](#), [Disclaimer](#), [Partners & Links](#), and [CaSIL Help](#). The main content area features a large yellow graphic with a map of California and the text "CaSIL The California Spatial Information Library". Below this is a welcome message: "Welcome to the California Geographic Information Systems (GIS) web portal. The California Mapping Coordinating Committee (CMCC) is in the process of developing a series of GIS-related web pages to provide information on State government GIS activities, access to statewide GIS data, and links to the larger California GIS community. *This website and the Spatial Information Library are works in progress.*" On the right, there is a search bar with a "go" button, radio buttons for "My CA" and "This Site", a profile picture of Governor Schwarzenegger with the text "GOVERNOR Schwarzenegger Click To Visit His Home Page", and an "Information" section containing the address "CaSIL 900 H St. Sacramento, Ca. 95814 (916) 653-1369".

CA GIS Strategic Plan Phase 1: CA-SDI



California GIS Council

DRAFT

Phase 1 Strategic Plan:
*Creating a California Spatial Data
Infrastructure*

September 20, 2006

Framework Data
Data & Map Catalogs
Standards
GIS & Map Services
Infrastructure

Creating a California
Spatial Data

Work in Progress Document Developed by
California GIS Council Strategic Planning Working Group
Highlighted sections are under development

Participants & Next Steps

| | |
|--------------------------|--|
| Team Title: | Strategic Planning Subcommittee |
| Objective(s): | Develop draft strategic plan based on NSGIC strategic planning template and previous work by the Council. Determine strategies to implement a statewide spatial data infrastructure that will improve (1) accessibility and integration of geospatial information (2) interoperability of the private sector, academia and local, state, and Federal government in California to share GIS resources and (3) business functions of these sectors. |
| Project Background: | The California GIS Council has identified the 50 States Initiative developed by NSGIC as the framework for GIS strategic planning in the State. |
| Team Members: | Malcolm Adkins – Michael Baker Corp Karen Beardsley – UC Davis Mike Behen – City of Palmdale Michael Byrne – Office of Statewide Health Planning & Development Scott Christman – Office of Statewide Health Planning & Development Mary Cook-Hurley – Air Photo, USA John Ellison – Resources Agency Brian Fulfrust – UC Santa Cruz Jayne Handley – US Forest Service Oscar Jarquin – Caltrans Bruce Joffe – GIS Consultants Huasha Lui/Liz Wojdak – Southern California Association of Governments Anne Millington – Dept of Health Services Claudina Nevis – Governor's Office Carol Ostergren – US Geological Survey Nadeem Shaukat – San Francisco Water Paul Veisze – Office of Emergency Services Dennis Wuthrich – Farallon Geographics Robert Yoha – Dept of Conservation Linette Scott – Department of Health Services |
| Team Sponsor Commitment: | To provide guidance, support and clarification if needed. CGC Executive Committee |
| Level of Authority: | The team is empowered develop strategies and document them in a draft strategic plan for operations of the California GIS Council. The draft plan will be commented on by Council. The Council must take action on the results of the Committee. |

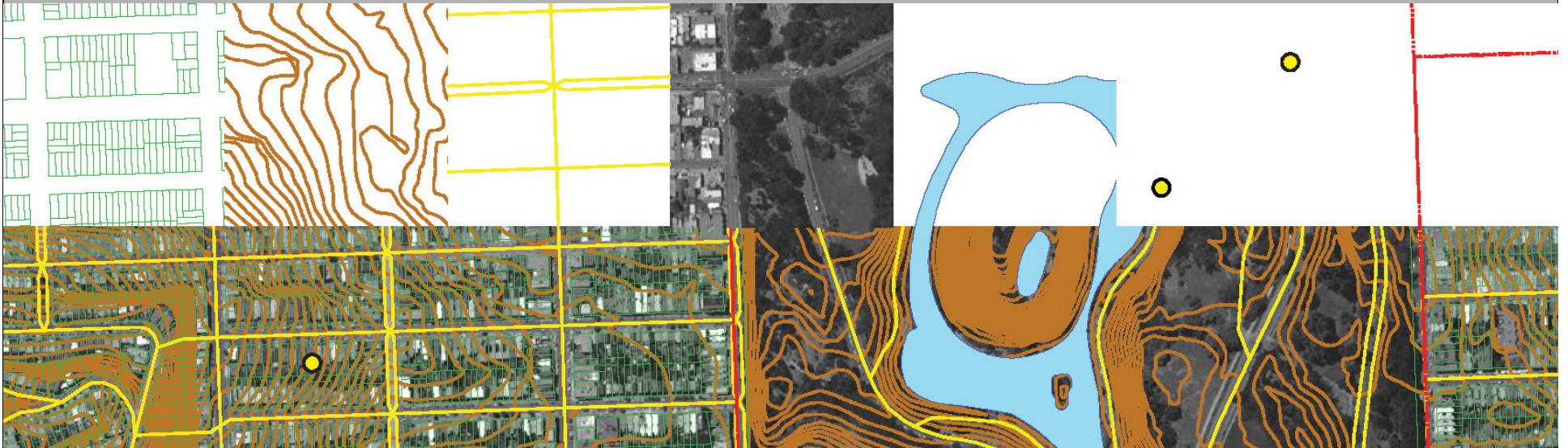


Strategic Goal: Data availability to serve California

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California Geospatial Framework Draft Data Plan

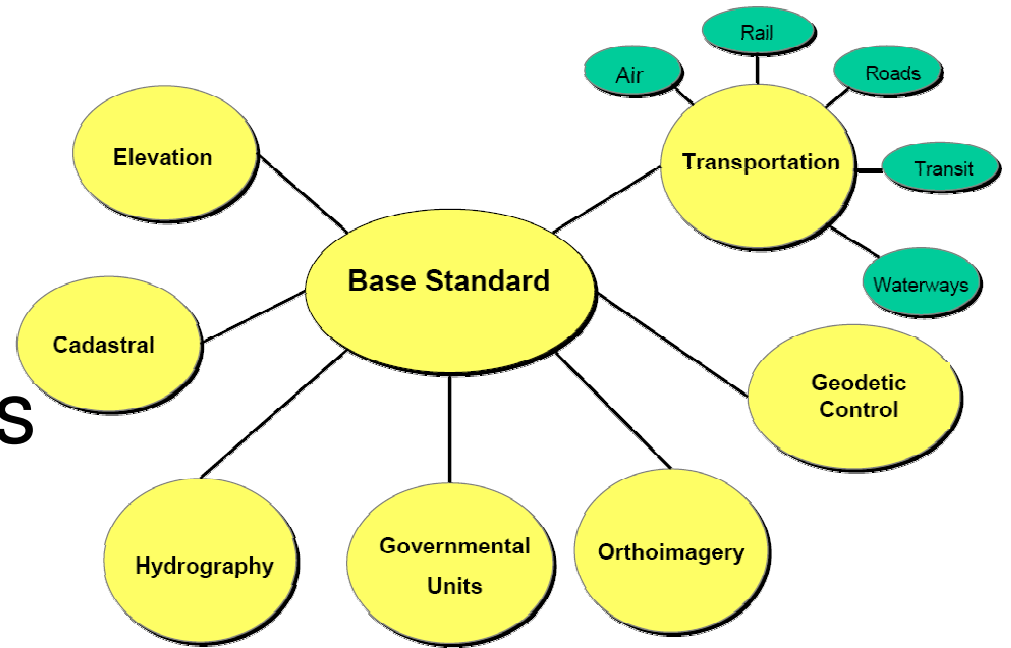


Summary Presentation
CalGIS 2007

George White : CGIA Chair
Malcolm Adkins : Michael Baker Jr., Inc

Core Framework Data Themes

- Elevation
- Cadastral
- Hydrography
- Governmental Units
- Orthoimagery
- Geodetic Control
- Transportation



Source: FGDC

Supplemental NSDI Data Themes

Baseline (Maritime)

Biological Resources

Buildings and Facilities

Cadastral (Offshore)

Climate

Cultural and
Demographic
Statistics

Cultural Resources

Earth Cover

Elevation Bathymetric

Federal Land Ownership
Status

Flood Hazards

Geographic Names

Geologic

Housing

International Boundaries

Law Enforcement Statistics

Marine Boundaries

Offshore Minerals

Outer Continental Shelf
Submerged Lands

Public Health

Public Land Conveyance
(patent) Records

Shoreline

Soils

Transportation (Marine)

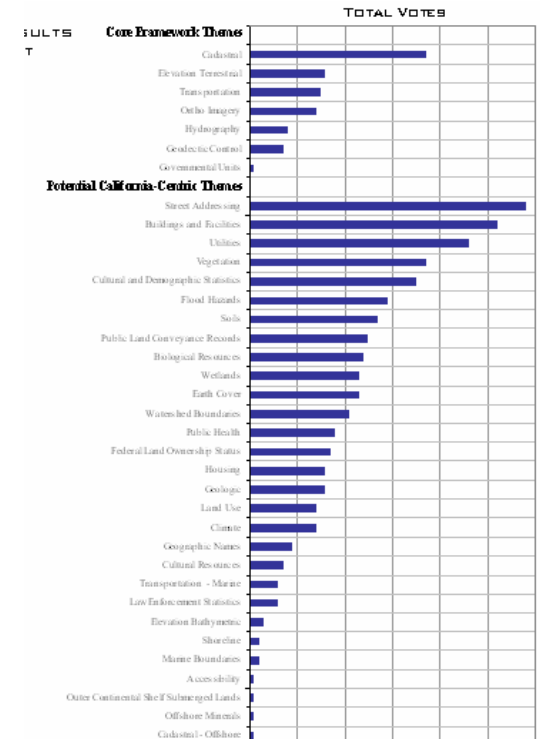
Vegetation

Watershed Boundaries

Wetlands

Workshop Filtered California-centric Themes*

- Biological Resources
- Buildings and Facilities
- Cultural and Demographic Statistics
- Earth Cover
- Flood Hazards
- Public Land Conveyance Records
- Soils
- Street Addressing (New Theme for Emergency Response)
- Utilities (New Theme Added for Critical Infrastructure)
- Vegetation
- Wetlands



* 27 NSDI themes filtered to the California 11 (presented alphabetically)

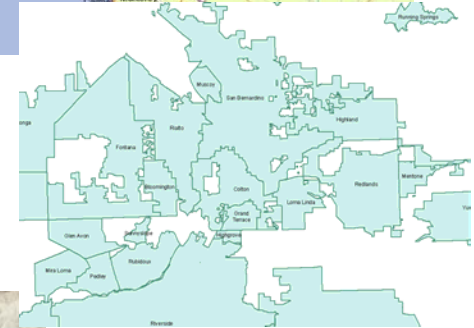
- The core 7 and 11 California-centric themes selected through the workshop process are then prioritized by an on-line survey

[illegible]

Prioritized Core Framework Data Themes

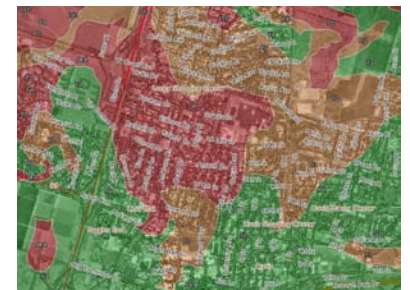
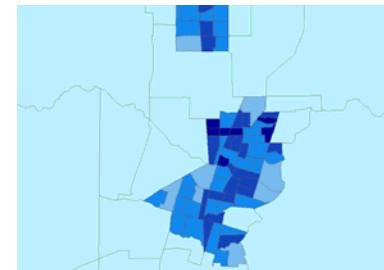
1. Cadastral
2. Ortho Imagery
3. Transportation
4. Elevation
5. Hydrography
6. Geodetic Control
7. Governmental Units

| | | | | |
|------------|------------|------------|------------|------------|
| 526-251-28 | | | 526-301-01 | 526-201-25 |
| 526-251-27 | 526-251-10 | 526-251-09 | 526-301-02 | 526-201-24 |
| 526-251-26 | | 526-251-08 | 526-301-03 | |
| 526-251-25 | 526-251-12 | 526-251-07 | 526-301-04 | 526-303-11 |
| 526-251-24 | 526-251-13 | 526-251-06 | 526-301-05 | |
| 526-251-23 | 526-251-14 | 526-251-05 | 526-301-06 | |
| 526-251-22 | 526-251-15 | 526-251-04 | 526-301-07 | |
| 526-251-21 | | | | 526-303-10 |
| 526-251-20 | | | | 526-303-09 |



Prioritized California-Centric Framework Data Themes

1. Street Addressing (Added to cover Critical Infrastructure)
2. Utilities (Added to cover Critical Infrastructure)
3. Public Land Conveyance Records
4. Buildings and Facilities
5. Flood Hazards
6. Vegetation
7. Biological Resources
8. Cultural and Demographic Statistics
9. Soils
10. Wetlands
11. Earth Cover



Now to you for
Regional Participation...

Pre-Workshop Survey Questions: Regional Organizational Capacity

- Is your technology suited to meet your regional geospatial business needs?
- How would you rank the adequacy of your program funding?
- What funding mechanisms are in place to support regional GIS efforts?
- How many and what type of personnel do you have available?
- How often do you enjoy strong executive support for your GIS efforts and initiative?
- Do you have a formal process for project oversight?
- Does your agency have policies that need to be put in place, updated, or changed in order to better facilitate your work and the sharing of data?

Pre-Workshop Survey Questions: Core Seven & Supplemental 11 Spatial Data Infrastructure (SDI)

- Is there a consolidated regional GIS dataset available?
- Are there federal or organizational standards?
- What is the horizontal accuracy, currency, and data source?
- Do you have data sharing agreements?
- How frequently are you coordinating?
- Would you be willing to share these datasets? If not, why?
- Regionally, what are the top five datasets you would develop next?

Pre-Workshop Survey Questions: SDI Implementation

- Have you used the 50 States Initiative, Imagery for the Nation, California Spatial Information Library, or the California Environmental Information Catalog at the regional or local level?
- Do you view the establishment of a state government GIO as important?
- What roles and responsibilities do you envision for a state GIO?
- What placement is most appropriate for a GIO?

CAP Grant Language and Workshop Objectives

Consequently, local and regional support in creating a “**situation analysis**” is needed to provide the background for identifying current and future policy challenges associated with creating a comprehensive and integrated spatial data infrastructure. Some of the challenges may require legislative action to legitimize GIS programs and provide sustainable resources and funding.

Strategic Plan Outline

TOC Table of Contents

1 Executive Summary

2 Strategic Planning Methodology

3 Current Situation

4 Vision and Goals

5 Requirements

6 Implementation Program

7 Appendices

- Strengths
- Existing skills
- Weaknesses
- Opportunities
- Threat (to implementation)
- Threat (if not implemented)

| | |
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| CALIFORNIA GIS COUNCIL | |
| Strategic Goal: Data availability to serve California | |
| Strategic Planning Workgroup | |
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Current Situation Outline from Strategic Plan

3. Current Situation

3.1 Who are we?

Who is involved, who is a stakeholder?

Interests of Stakeholders

Organizational Structure and Relationship to stakeholders

3.2 Where are we now?

Current Organizational Structure

Relationship between State and Local Governments

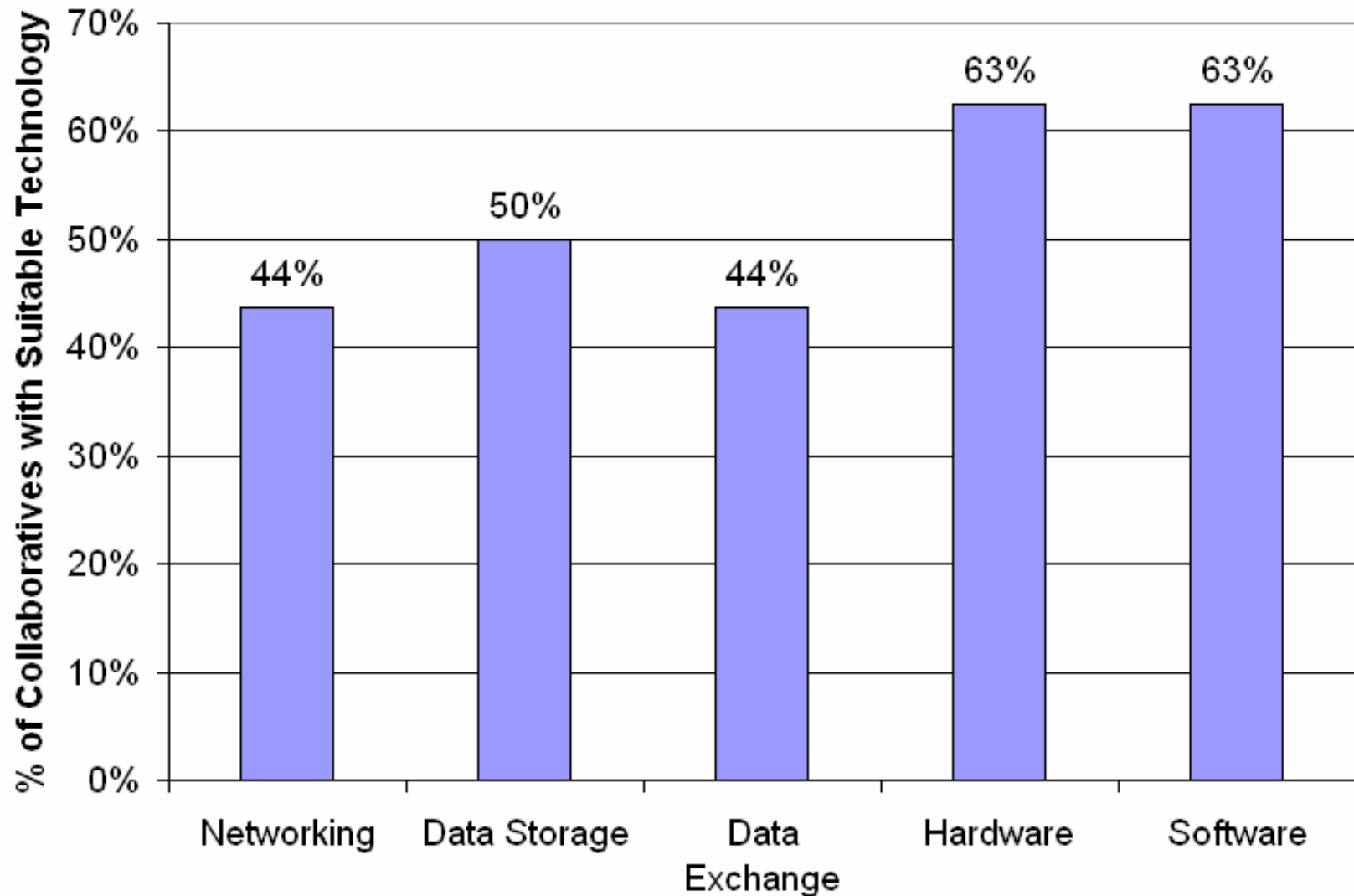
Current Data Content and Standards

3.3 Strengths and Weaknesses

3.4 Opportunities and Threats

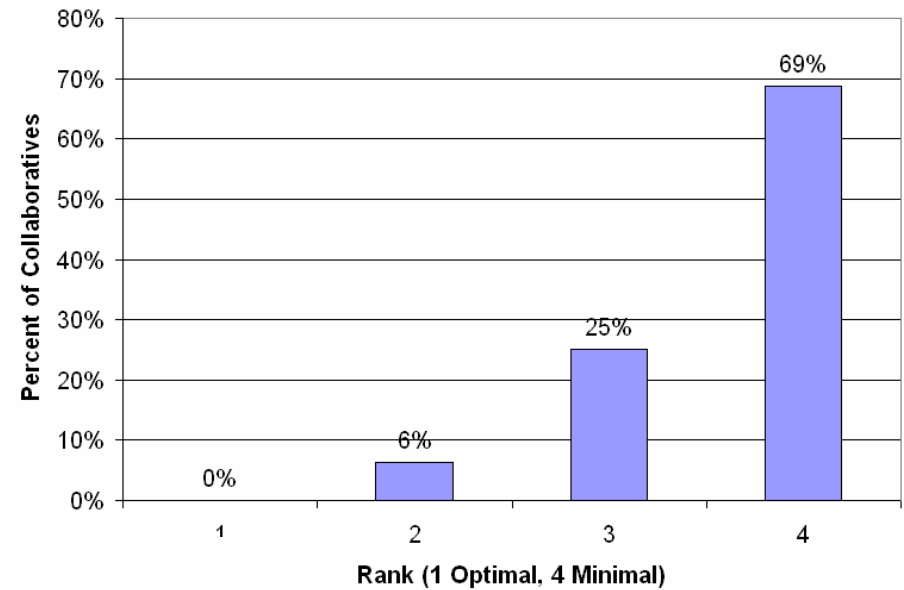
| | |
|--|----|
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Current Situation: Technology Suitability

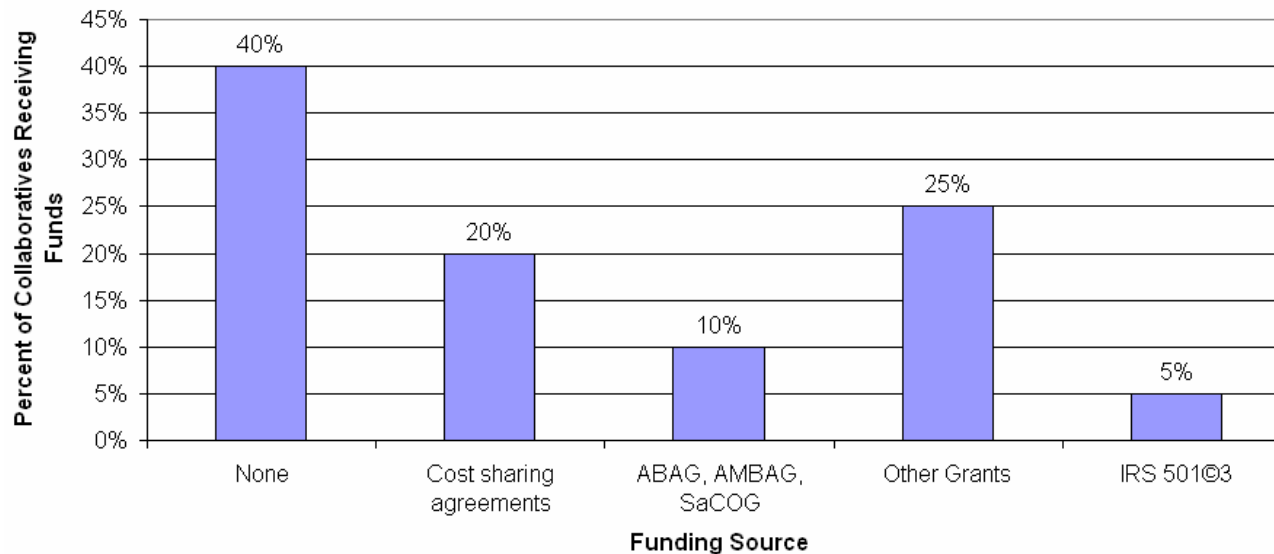


Current Situation: Funding

Funding Adequacy

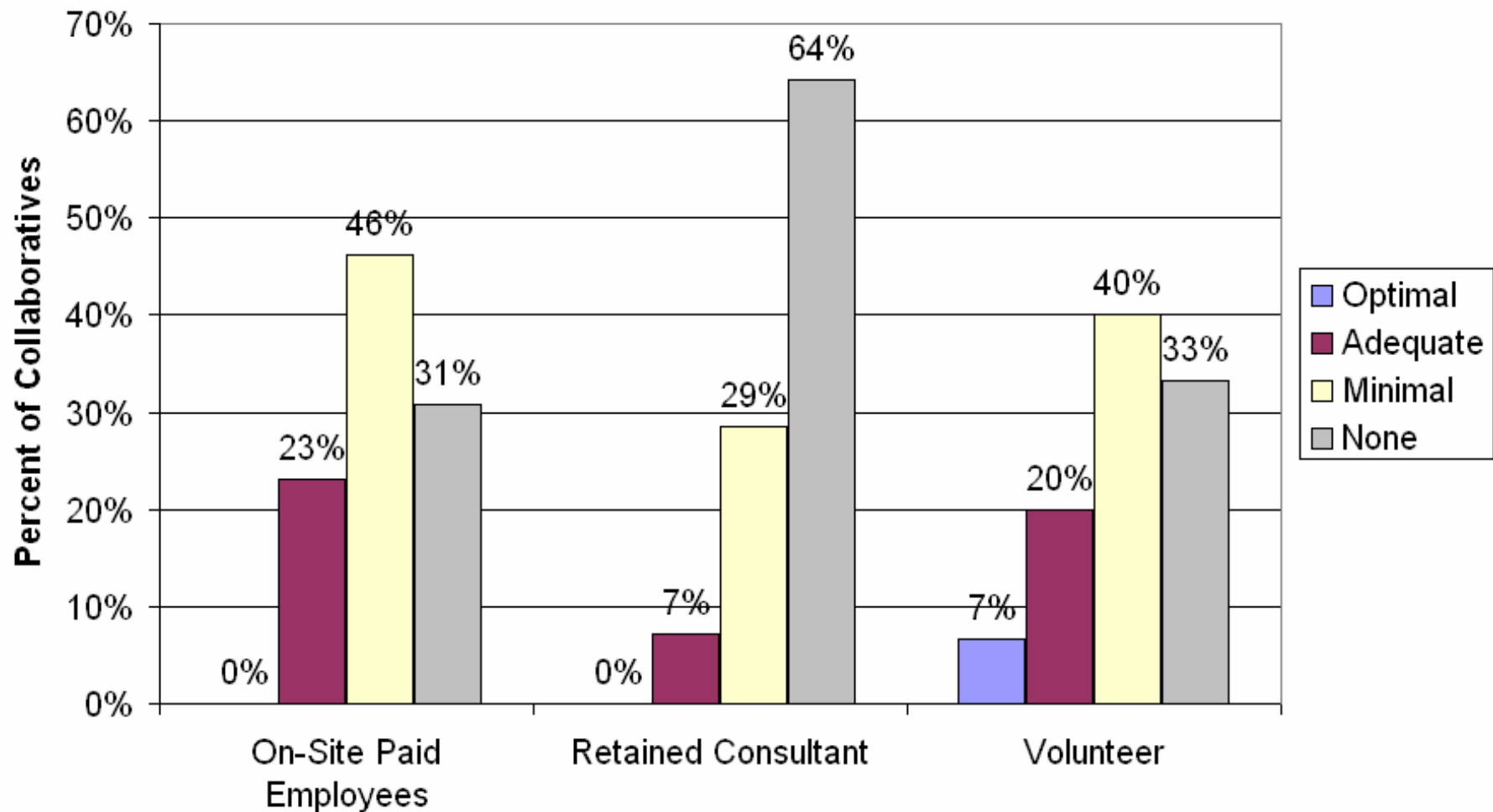


Funding Mechanisms



Current Situation: Staffing

Availability of Personnel



- 50% of Regional Collaboratives have no staff available to support regional efforts.

Current Situation Workshop Interaction

| | |
|--|---|
| Strength Data Sharing Arrangements | Weakness Lack of authority to create formal data sharing agreements |
| Opportunity Promote awareness of value of GIS for decision making to elected officials | Threat (Barrier/Constraint) Limitation of funds to build regional data sets |

Requirements Outline from Strategic Plan

5. Requirements

5.1 Inventory of Existing Infrastructure and Suitability Assessment

Current state of technology infrastructure, architecture, standards and content

5.2 Data Requirements

What content needed, and at what level of accuracy and completeness

Who owns data and what type of sharing agreements

5.3 Technology Requirements

Necessary requirements to exchange, store, and process geospatial data

What applications and required


5.4 Resource Requirements

What expertise and staff is needed and already available

Will these resources be consultants, fulltime, volunteers, etc.

5.5 Standards

What are the relevant national and organizational standards



Strategic Goal: Data availability to serve California

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Requirements Outline from Strategic Plan

5. Requirements (continued...)

5.6 Organizational Needs

5.6.1 Executive Support

What support will you need and how will you get it

5.6.2 Coordination and Oversight Procedures

What is the current relationship and how will you work with various levels of government in this process

5.6.3 Policy

What mandates are in place and what needs to be addressed

5.6.4 Staffing

Who is needed and how will they be supported

5.6.5 Budget Requirements

What funding is needed


What mechanisms are in place for cost sharing or cooperative funding

5.6.6 Outreach and Community Development

Who are we coordinating with and how

5.6.7 Assessing Risk














































What are possible risks and how might they affect the process



Strategic Goal: Data availability to serve California

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Requirements: Regional SDI

| | Bay Area Regional | Central Coast | Channel Islands | Eastern Sierra | Far North Regional | Gold Country Regional | Humboldt Area | Mendocino-Lake Regional | North Valley Regional | Sacramento Regional | San Diego Regional | San Joaquin Valley Regional | San Luis Obispo Regional | Sierra Nevada Regional | SoCalGIS | SE California | |
|-------------------------------------|---|---|--|----------------|--------------------|---|---|-------------------------|---|---|---|---|---|---|----------|---|-----|
| Cadastral |  | |  | | | |  | | |  |  | | | | | | 25% |
| Ortho Imagery |  |  |  | | | | | | |  |  | |  |  | |  | 44% |
| Transportation | | |  | | | |  | | |  |  | | | | | | 25% |
| Elevation | | | | | | | | |  | |  |  |  |  | | | 31% |
| Hydrography | | | | | | | | | |  |  | | | | | | |
| Geodetic Control | | | | | | | | | | |  | | | | | | |
| Governmental Units | | |  | | |  |  | | |  |  | | |  | | | 38% |
| Street Addressing | | |  | | | |  | | |  |  | | | | | | 25% |
| Utilities | | | | | | | | | | | | | | | | | |
| Public Land Conveyance Records | | | | | | | | | | | | | | | | | |
| Buildings and Facilities | | |  | | | | | | | | | | | | | | |
| Flood Hazards | | | | | | |  | | | |  | | |  | | | 19% |
| Vegetation | | | | | | | | | | |  | | | | | | |
| Biological Resources | | | | | | | | | | | | | | | | | |
| Cultural and Demographic Statistics | | | | | | | | | | |  | | |  | | | |
| Soils | | | | | | | | | | |  | | | | | | |
| Wetlands | | | | | | | | | | |  | | | | | | |
| Earth Cover | | | | | | | | | | |  | | | | | | |

Requirements: Regional SDI Standards

| | Bay Area Regional | Central Coast | Channel Islands | Eastern Sierra | Far North Regional | Gold Country Regional | Humboldt Area | Mendocino-Lake Regional | North Valley Regional | Sacramento Regional | San Diego Regional | San Joaquin Valley Regional | San Luis Obispo Regional | Sierra Nevada Regional | SoCalGIS | SE California |
|-------------------------------------|-------------------|---------------|-----------------|----------------|--------------------|-----------------------|---------------|-------------------------|-----------------------|---------------------|--------------------|-----------------------------|--------------------------|------------------------|----------|---------------|
| Cadastral | | | | | | | | | | | | | | | | |
| Ortho Imagery | | | | | | | | | | | | | | | | |
| Transportation | | | | | | | | | | | | | | | | |
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| Wetlands | | | | | | | | | | | | | | | | |
| Earth Cover | | | | | | | | | | | | | | | | |

Adopted Standards

No Adopted Standards

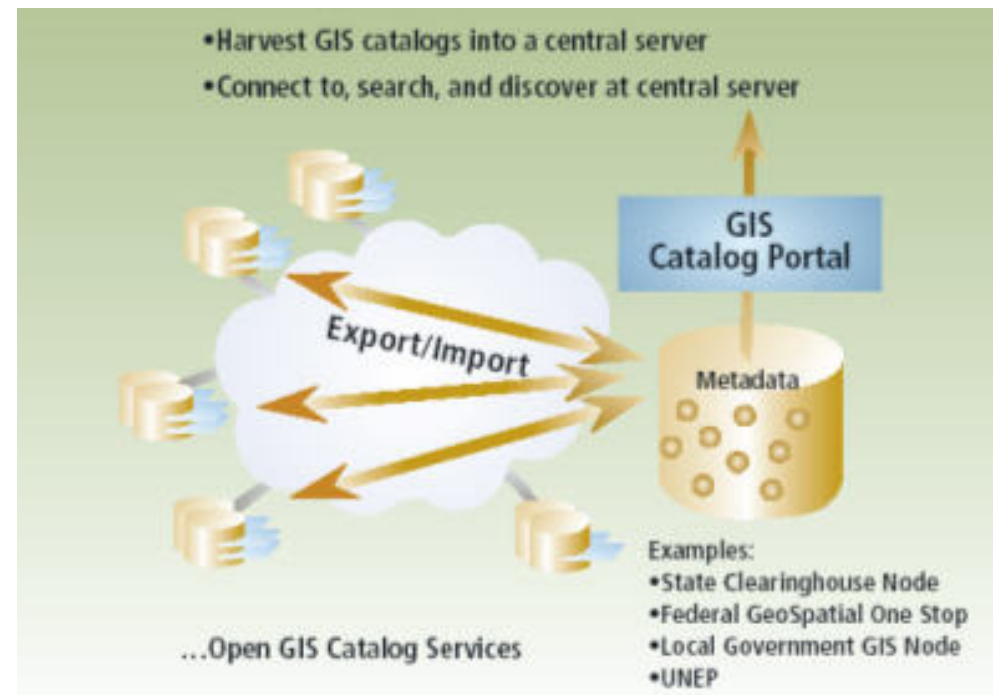
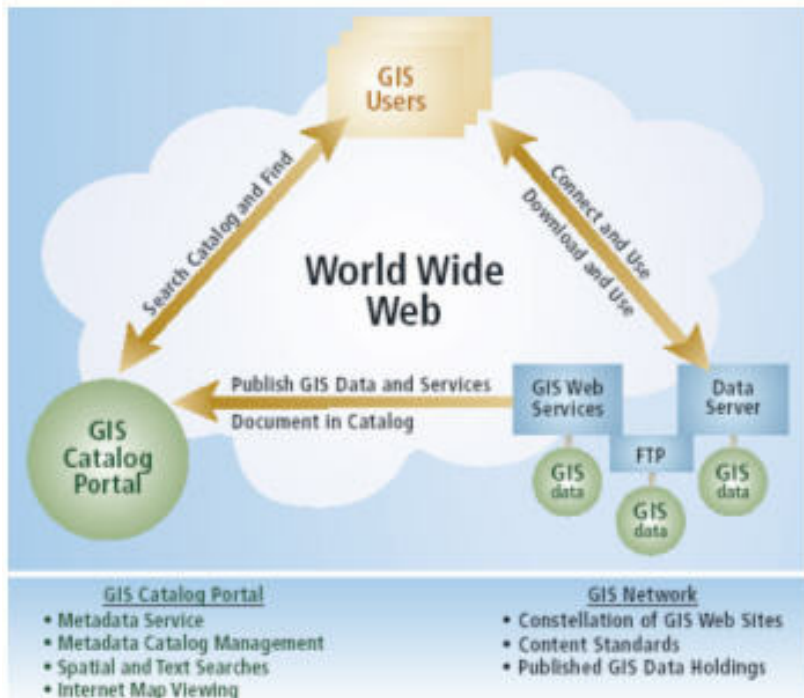
Requirements Workshop Interaction: Regional Support for Statewide Data Development

1. Would your region be willing to adopt or follow statewide minimum standards?
2. What business or program processes at the regional and local levels depend on data aggregation and sharing with state and federal government agencies?

Requirements Workshop Interaction: Regional Support for Statewide Data Development

3. Do you see federated data efforts as feasible and desirable?
What incentives do you need to participate in such efforts?

<http://www.gisuser.com/content/view/2432/28/>



Implementation Outline from Strategic Plan

6. Implementation Program

6.1 Lessons Learned

What case studies are available

6.2 Implementation of Sub-Projects

How will sub-projects be defined and who will be responsible

6.3 Phasing and Milestones

Timeline

What will be completed in each phase

6.4 Budget Plan

What is the necessary budget

How will it be funded

How will it be allocated

6.5 Marketing the Program

How is the word spread


Who is the target audience

6.6 Measuring Success and Recalibration

What factors will be used in measuring success

How do we capture cost-benefit data

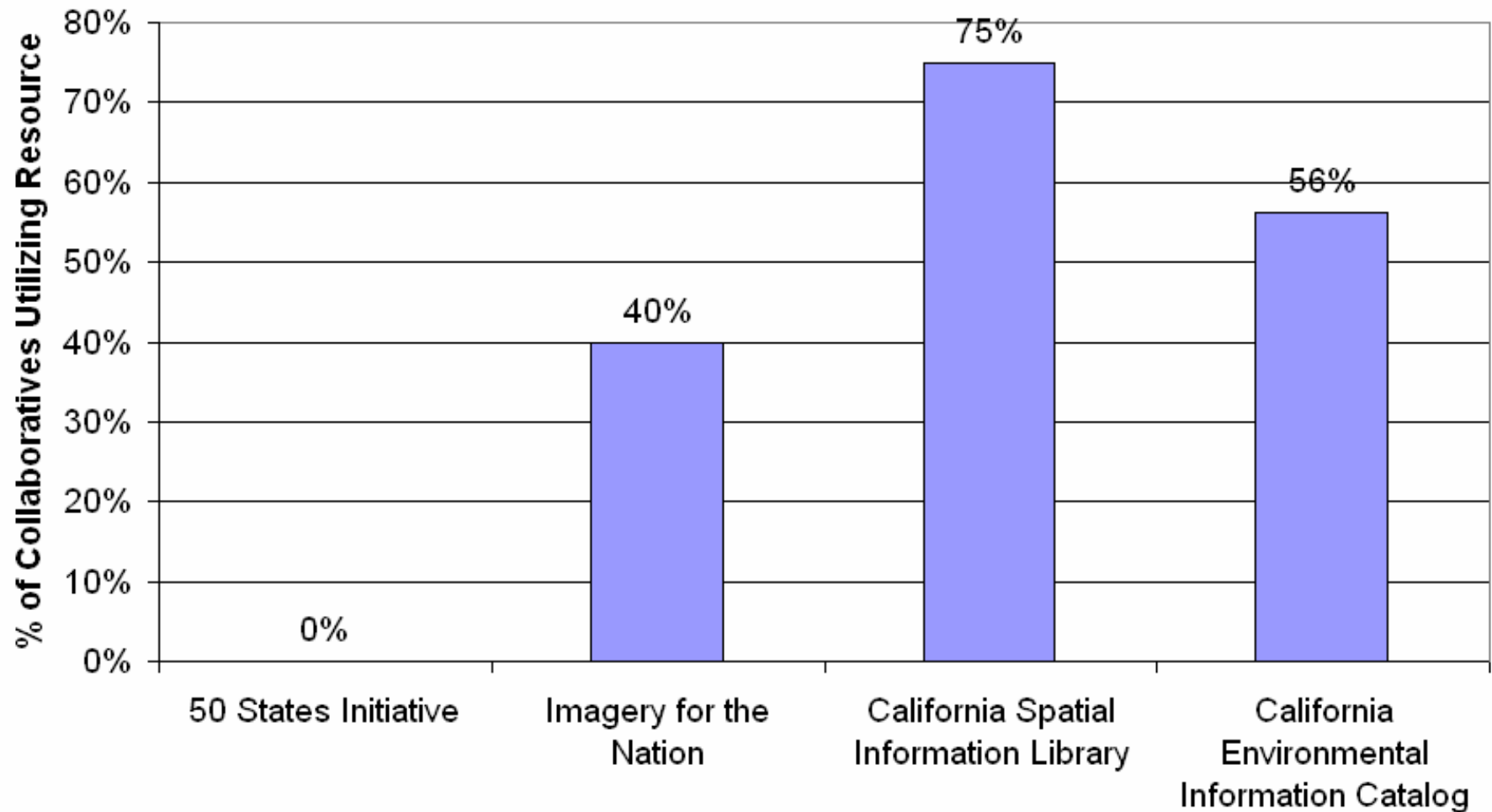
Do we assess progress to determine if recalibration is needed



CALIFORNIA GIS COUNCIL
Strategic Goal: Data availability to serve California
Strategic Plan Workbook

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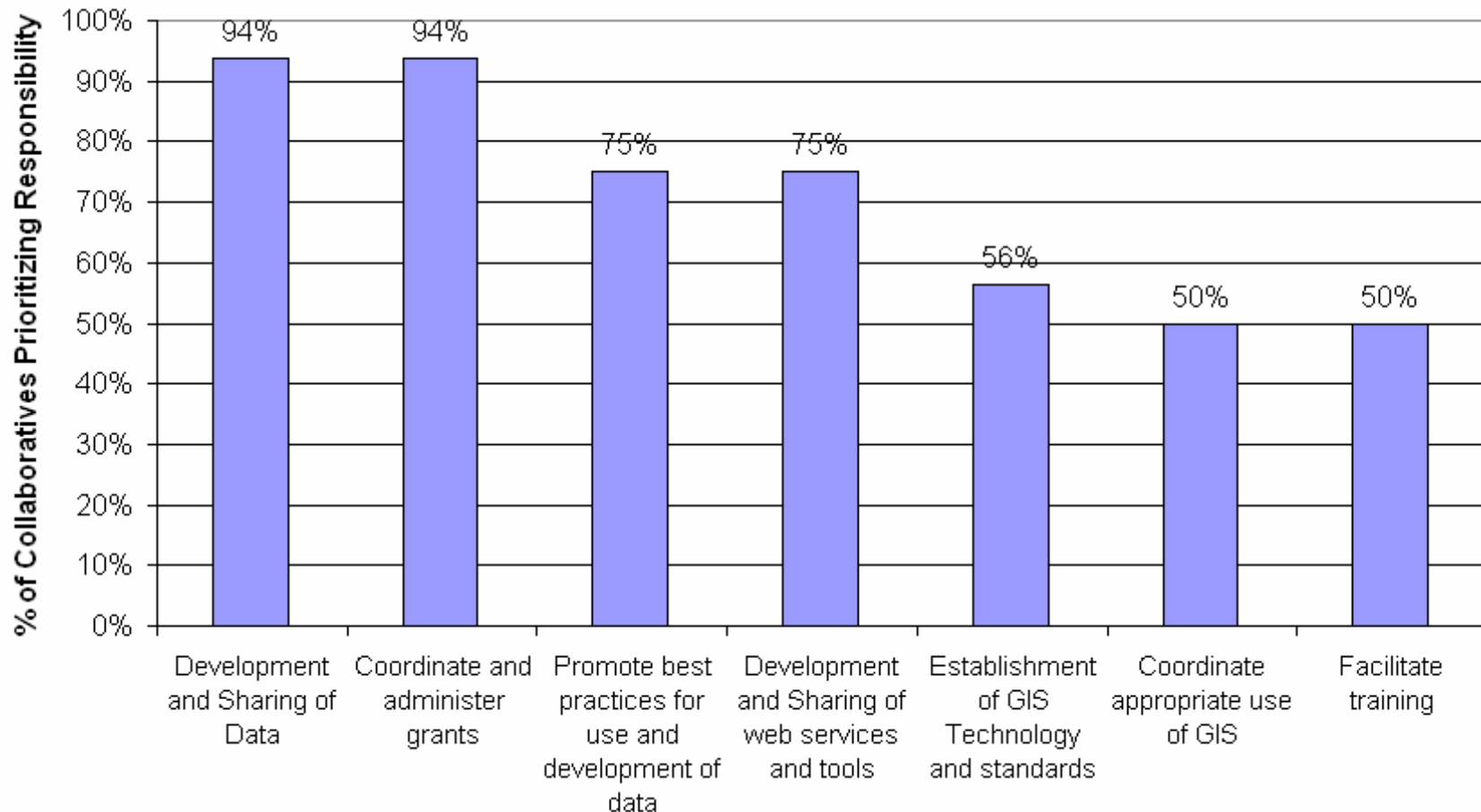
Implementation: Utilization of Available Resources



Implementation Workshop Interaction: State Support for a CA-SDI

- What do you want from state government to further regional GIS efforts?
 - What data or services would help facilitate consideration of statewide values in local land use planning decisions?
 - What roles do you see for state and federal government agencies with regard to GIS data and services?

Implementation: GIS Roles & Responsibilities



- 60% of the Regional Collaboratives believe the GIO should be in the new office of the State's CIO.

Implementation Workshop Interaction: Governance

1. How might the California GIS community succeed absent a state coordinating entity like a GIO?
2. What do you need/want from the California GIS Council to further regional GIS efforts?
3. What improvements can be made to the existing California GIS Council governance structure? What's working? What's not?
4. What suggestions do you have for top priority strategies, goals and objectives for the California GIS Council that would help regional and local GIS efforts?

Implementation Workshop Interaction: Data & Technology

1. What value do you see in the CA-SDI for regional and local government?


What happens after the
Workshop series?

Post-Workshop Steps


| | Aug 07 | Sept 07 | Oct 07 | Nov 07 | Dec 07 | Jan 08 | Feb 08 | Mar 08 | Apr 08 |
|--|--------|---------|--------|--------|--------|--------|--------|--------|--------|
| Kickoff Meeting | ■ | | | | | | | | |
| Workshop Presentation Development | ■ | ■ | ■ | | | | | | |
| Workshop Locations Selected | ■ | ■ | | | | | | | |
| Establish Dates/Venues with Collaboratives | ■ | ■ | | | | | | | |
| Develop Outreach Flyer | ■ | ■ | | | | | | | |
| Notify Geospatial Community | ■ | ■ | ■ | | | | | | |
| Survey Development | | ■ | ■ | | | | | | |
| Administer Survey | | ■ | ■ | | | | | | |
| Compile Survey Results | | ■ | ■ | | | | | | |
| Identify Ph 2 Plan Content Outline | | ■ | ■ | ■ | | | | | |
| Conduct Workshops | | ■ | ■ | ■ | | | | | |
| Develop Draft Ph 2 Plan | | | | ■ | ■ | ■ | | | |
| CA Geospatial Community Feedback | | | | ■ | ■ | ■ | ■ | ■ | |
| Finalize Plan | | | | | | | ■ | ■ | |
| Publish Phase 2 Strategic Plan | | | | | | | | ■ | |
| Present Project Results at CalGIS 2008 | | | | | | | | | ■ |



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Facilitating coordination,
collaboration, and counsel
for California's GIS community

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GIS Data Sharing

[Policy](#)
[Metadata](#)
[Partnerships](#)
[State GIS Library](#)

[California Geospatial Framework Data Draft Plan](#)

Phase II Strategic Planning Project

CA GIS Strategic Plan Phase 2: Regional Participation

The California geospatial community, continuing the work of Phase 1 strategic planning, is soliciting, identifying, summarizing, and integrating regional perspectives into a Phase 2 GIS Strategic Plan. The product will contribute to the development of a California Spatial Data Infrastructure (CA-SDI), for improving the quality of life within California. Initial outreach began in September with an online survey, followed by a series of seven workshops across California in October and November. CGIA selected Michael Baker Jr., Inc. as the contractor for this FGDC Fifty States Grant-funded project. The Strategic Planning Project implementation is proceeding according to our [work plan](#).

Pre-Workshop Survey

The pre-Workshop survey has been completed. The aggregated survey results can be found here: [California Phase II Strategic Plan Pre-workshop Survey Analysis](#).

The 16 individual Regional Collaborative raw survey results can be found by clicking on the links below:

| | |
|--|---|
| Bay Area Regional GIS Council | North Valley Regional GIS Council |
| Central Coast Joint Data Committee | Sacramento Regional GIS Council |
| Channel Islands Regional GIS Collaborative | San Diego Regional GIS Council |
| Eastern Sierra GIS Network | San Joaquin Valley Regional GIS Council |
| Far North Regional GIS Council | San Luis Obispo Regional Council |
| Gold Country Regional GIS Collaborative | Sierra Nevada Regional GIS Council |
| Humboldt Area GIS Collaborative | SoCalGIS |
| Mendocino-Lake Regional Collaborative | Southeastern California GIS Council |

Workshop Summary Results

Seven Workshops will be conducted and completed before Thanksgiving, consistent with the Workshop flyer [revised final schedule](#). Several workshop summary reports are now available for your review, with the remaining reports to be completed by the end of November. Links to these summary reports can be found on the left-hand side of this page.

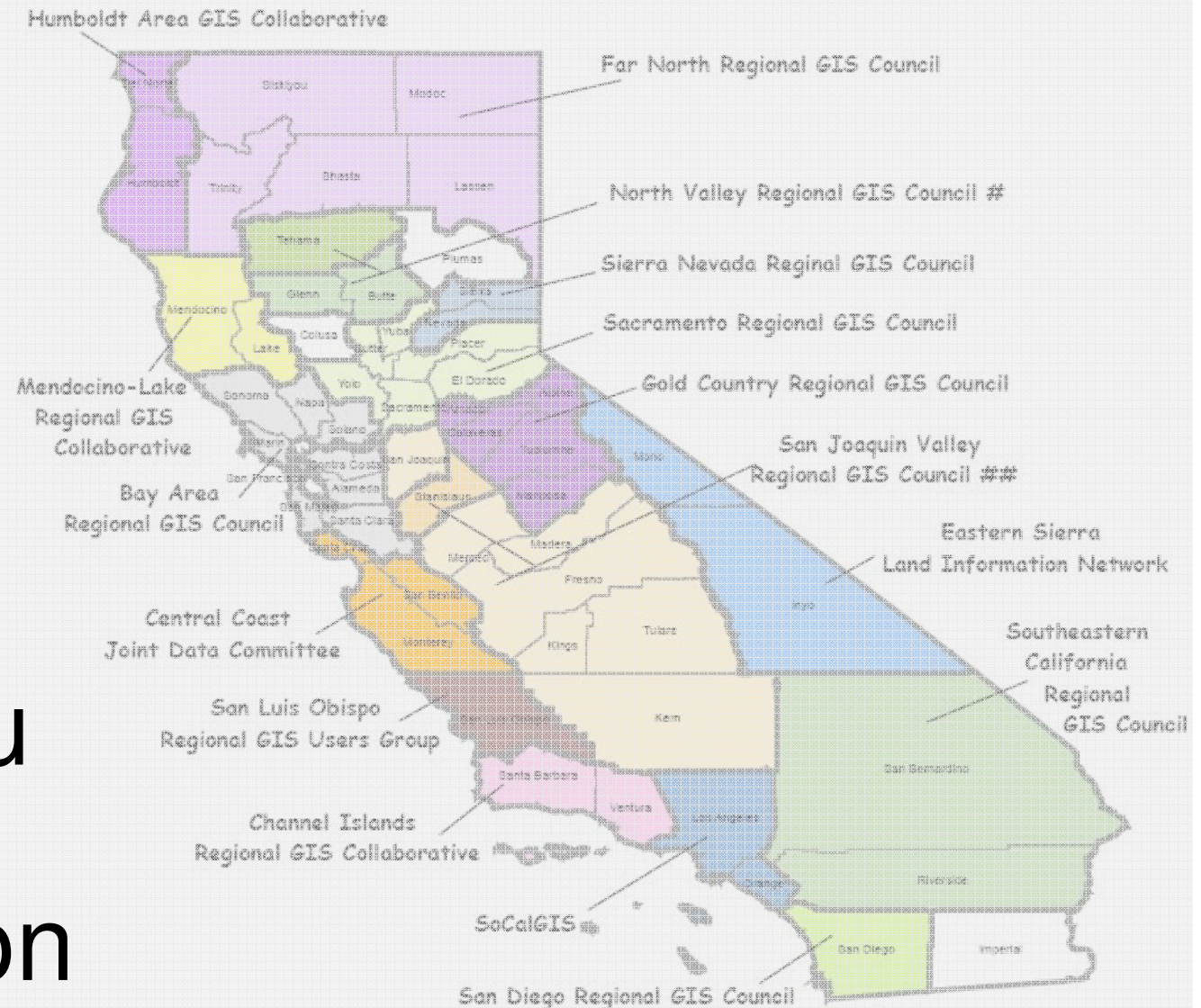
Web Forum

A web forum will be conducted in December 2007 and January 2008. A link will be provided when the web forum becomes available.

Monthly Report

The monthly project progress report can be reviewed [here](#).

California GIS Strategic Plan Phase 2: Regional Participation



Thank you
for your
Participation