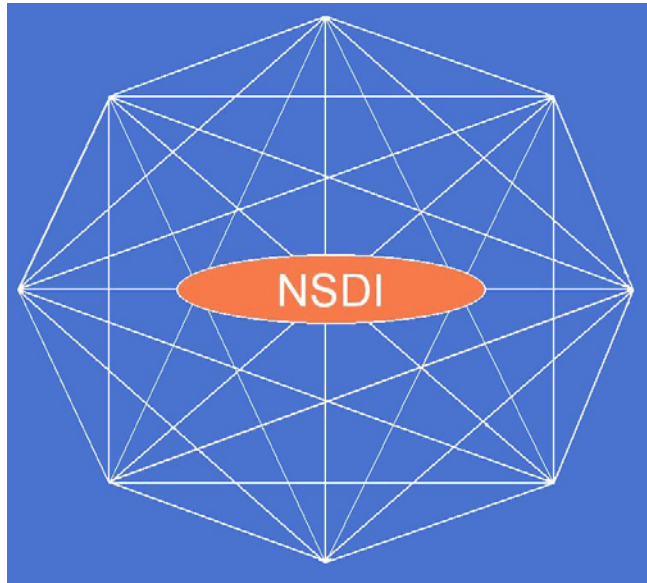


2005 National Spatial Data Infrastructure
Cooperative Agreement Program



Program Announcement Number 05HQPA0007

For Fiscal Year 2005

Issue Date: April 21, 2005

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For all technical questions about applying through Grants.gov, call the Grants.gov Help Desk at: 1-800-518-GRANTS

For questions concerning this Program Announcement, call Ms. Desiree Santa, Grant Specialist, at (703) 648-7382 or via email at dsanta@usgs.gov.

2005 National Spatial Data Infrastructure (NSDI) Cooperative Agreements Program (CAP)

Program Announcement Number 04HQPA0006

Introduction and General Information

I. Description of Funding Opportunity

The purpose of the National Spatial Data Infrastructure (NSDI) Cooperative Agreements Program (CAP) is to fund innovative projects in the geospatial data community to build the infrastructure necessary to effectively discover, access, share, manage, and use digital geographic data.

The NSDI consists of the technologies, policies, organizations, and people necessary to promote cost-effective production, and the ready availability and greater utilization of geospatial data among a variety of sectors, disciplines, and communities. Specific NSDI areas of emphasis include: metadata documentation, clearinghouse establishment, framework development, standards implementation, and geographic information system (GIS) organizational coordination.

Since 1994, the Federal Geographic Data Committee (FGDC) has funded projects that advance the NSDI in partnership with the geospatial data community. The FGDC, now as part of the new National Geospatial Program Office (NGPO), will continue to support these projects.

Metadata (<http://www.fgdc.gov/metadata/metadata.html>) or "data about data" describe the content, quality, condition, and other characteristics of data. The FGDC approved the Content Standard for Digital Geospatial Metadata (FGDC-STD-001-1998) in June 1998. Metadata provide a common set of terminology that includes description of a dataset's basic information; its quality, encoding, structure, and attributes; and organizational contact and distribution information. Metadata provide the foundation for the discovery of data holdings over the Internet.

Geospatial One-Stop (<http://www.geo-one-stop.gov>) is a gateway for discovery. Geospatial One-Stop is a Presidential Management Council initiative – one of the 24 E-government priorities that the Office of Management and Budget oversees. The portal makes it easier, faster, and less expensive for all levels of government and citizens to access geospatial information. Geospatial One-Stop implements the foundation of the NSDI by providing an Internet portal (www.geodata.gov) to facilitate the data sharing to support decisions and by encouraging partnerships across organizations.

The National Map (<http://nationalmap.usgs.gov>) provides integrated base geographic data content in partnership with data producers at all levels. As a synthesis of geospatial information that is current, integrated, and accurate, it provides sufficient consistency to meet applications needs across Federal, State, and regional jurisdictional levels. *The*

National Map provides trusted content for base mapping information, including orthoimagery (including Landsat), elevation, hydrography, boundaries, land cover, and geographic names, transportation, and structures (buildings and select critical infrastructure). It also provides an infrastructure for sharing and contributing to that content.

GIS applications of many different disciplines have a recurring need for a few themes of data. The **framework** is a collaborative community based effort in which commonly needed data themes are developed, maintained, and integrated by public and private organizations within a geographic area. Themes include Elevation, Cadastre, Governmental Units, Geodetic Control, Hydrography (Surface Water), Orthoimagery, Transportation (Roads, Transit, Air, Waterways, and Rail). Local, regional, State and Federal government organizations and private companies see the framework as a way to share resources, improve communications, and increase efficiency. Draft framework standards will be available early 2005.

A. Fiscal Year (FY) 2005 NSDI Cooperative Agreements Program

A total of \$1,300,000 in funds is available for the FY 2005 program. The projects will be funded for one year. Award notification will be made around July 2005. Project work must commence by September 30, 2005 (the end of the 2005 Federal fiscal year). Start dates on or after October 1, 2005 are not authorized under this announcement.

B. Summary of 2005 CAP Funding Categories

Category 1: Metadata Trainer and Outreach Assistance provides assistance to organizations with NSDI expertise, knowledge, and experience in assisting other organizations with the training and implementation of metadata, clearinghouse, or web mapping services.

Category 2: Establishing Framework Data Services using the OpenGIS Web Feature Service Specification provides assistance for establishing methodologies for serving and using Framework data over the Web using the OpenGIS Web Feature Service specification. A project will require formal collaboration between a data provider and a software provider.

Category 3: Geographic Information Coordination provides assistance to consortia of public and non-profit organizations to develop new or to strengthen existing multi-organizational collaboration that supports the development and maintenance of a shared digital geographic resource and to foster the establishment of cross-organizational coordinating councils that develop and advance the NSDI within a specific geographic area.

Category 4: Geographic Information Integration and Analysis category provides assistance to organizations and consortia that maintain, update, and make available data in collaboration with the NGPO and *The National Map*. Funds are provided to help new

participants overcome initial impediments to participation and to help existing participants improve their Web services and provide them through *The National Map*.

II. Award Information

Under the 2005 CAP program, a total of \$1,300,000 is available for funding. Approximately 30 awards are anticipated.

CAP Funding Categories	Award Amount	In-kind Match	Approximate Number of Awards
1. Metadata Training & Outreach	\$30,000	50%	10
2. Web Feature Service & Framework	\$50,000	50%	6
3. Geographic Information Coordination	\$20,000	100%	10
4. Geographic Information Integration and Analysis	\$50,000	100%	10

This assistance is provided through a *cooperative agreement*, which is neither a contract nor a grant. As a cooperative agreement, there will be *substantial involvement* on the part of the FGDC and the NGPO with the project organization to promote the objectives of the program, monitor progress, and agree on milestones and accomplishments for work performed as part of this agreement. The FGDC will manage all queries, technical resources, and assistance requests.

The FGDC will provide, through its website (<http://www.fgdc.gov>), a wide range of information on Geospatial One-Stop, metadata, clearinghouse, and standards, as well as contact information for the FGDC and its participating organizations at the national, State, and local level. On its website, the FGDC provides information on the metadata standard, and metadata trainers, training opportunities, and NSDI news. The FGDC will attempt to address all queries and assistance requests, including referral to suitable software solutions.

III. Applicant Eligibility

A. Eligible Applicants:

- (1) See funding category for specific eligibility information. In general, Federal, State, and local government, academia, private sector, non-profit and tribal organizations, as well as consortia of organizations may apply.
- (2) Organizations may submit proposals for more than one category if the applicant meets eligibility requirements. However, a complete and separate application package is required for each submission.

B. Ineligible Proposals

Applicant organizations may not apply if:

- (1) Category 2: Framework Web Feature Service if applicant was awarded under the same Category 5 in the 2004 CAP.
- (2) Category 3: Geographic Information Coordination if applicant was awarded under the Category 3 in the 2004 CAP.

IV. Project Requirements

A. In-Kind Resource Match

- (1) All categories require an in-kind resource match on the part of the applicant for the long-term sustainability of project outcomes. An in-kind resource match may include salaries, funds, and equipment dedicated to the project and other resources.
- (2) The value of geospatial data holdings is not considered appropriate for in-kind matches for categories 1, 2, and 3.
- (3) Match calculation: For example, with an award of \$5,000 of Federal assistance, a 50% in-kind match contribution by the applicant would be \$2,500 in value for a total of \$7,500 value committed to the project (\$5,000 and \$2,500 Federal and applicant, respectively).
- (4) See funding category for specific in-kind match information.

B. Applicable Geographic Information Standards

A technical key to achieving the goals of the NSDI are based on implementing standard-based approaches. Projects must be in compliance as applicable with geographic information standards developed and endorsed by standard setting bodies including the FGDC, ISO and the OpenGIS Consortium. These standards include:

- (1) FGDC Content Standard for Digital Geospatial Metadata, Version 2 (CSDGM), FGDC-STD-001-1998 or when available the ISO Metadata Standard 19115 using draft ISO Technical Specification 19139.
- (2) Metadata Service Guidelines: Metadata must be posted to one of the following options and harvestable through
 - (a) the Geospatial One-Stop Portal at <http://www.GeoData.gov>.
 - (b) registered Z39.50 Clearinghouse server.
 - (c) Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH) provider software.
 - (d) FGDC Browse-enabled Web Directory, where metadata is in XML.
- (3) OpenGIS Consortium Web Mapping Service Specification Version 1.1.1 or 1.2.
- (4) OGC Web Feature Service specification is version 1.1 (2002-05-17).
- (5) Geography Markup Language (GML) must comply with OpenGIS interoperability specifications.

(6). INCITS Project 1574-D, Geographic Information - Framework Data Content Standard, public review draft version (TBD).

C. Reporting and Presentation

(1) The following reports will be required from all award recipients:

Report	Due Dates
Interim Project Report (see category for specific information)	6 months after the start of the project
Final Project Report (see category for specific information)	On or before 90 working days after the expiration of the agreement
Quarterly SF-272 Federal Cash Transactions Report	On or before 15 working days after the end of each three-month performance period
SF-269 Financial Status Report	On or before 90 working days after the expiration of the agreement

(2) The specific content for the reports can be found in the Report Format attachments:

- Attachment C - Metadata Training & Outreach Project Report Format
- Attachment D - Framework Web Feature Service Project Report Format
- Attachment E - Geographic Information Coordination Project Report Format
- Attachment F - Geographic Information Integration & Analysis Project Report Format.

(3) The award recipient shall submit the SF-272 Federal Cash Transactions Report in order for the USGS Contracting Officer and Project Officer to monitor cash advanced to the award recipient, and to obtain disbursement information about the grant/cooperative agreement. Copies of the SF-269 form can be obtained from the following web site: http://www.whitehouse.gov/omb/grants/grants_forms.html.

(4) Project Presentation: To spread and promote knowledge of the NSDI, CAP participants are requested to make formal presentation of their activities. Presentation can be at a local, state, regional, national conference or meeting. The applicant is requested, if necessary, to budget sufficient funds to travel to the meeting or conference. An alternative is to publish a paper or article in a professional journal or newsletter.

D. Participation in CAP Kickoff Workshop

Applicants are requested to budget sufficient travel funds to attend the CAP kickoff workshop to be held on September 13 and 14, 2005, at the U.S. Geological Survey National Center in Reston, VA. The workshop will provide an overview of NSDI initiatives, metadata training, and focus information on specific project categories.

V. Application and Submission Information

In preparation for using only the www.grants.gov website for future electronic submission of all proposals, the USGS will follow a two-pronged approach for submission of proposals for the FY2005 funding cycle. All applicants are required to

submit hardcopy of their complete proposals in the same way as was done in past years. In addition, the proposals must also be submitted using the Federal Government's www.grants.gov website for electronic submission of the same material. The traditional hard copy method of submission will take precedence over the electronic submission, therefore, all proposals must be received in hard copy form by the due date of June 16, 2005.

Hard copy submissions:

Applicants are required to submit 4 hard copies of the proposal to:
U.S. Geological Survey
Office of Acquisition and Grants
12201 Sunrise Valley Drive, Mail Stop 205-G
Reston, VA 20192
Attn: Desiree Santa, Grant Specialist

Hard copies must include the following:

- Your project narrative.
- completion of form SF-424 (found at: www.grants.gov)
- completion of form SF 424a (found at: www.grants.gov)
- completion of form SF 424b (found at: www.grants.gov)
- completion of DOI certification forms (found at: <http://www.usgs.gov/contracts/grants/certs.pdf>)

Applications delivered by hand:

1. An application that is hand delivered shall be taken to the USGS, Office of Acquisition and Grants – Room 6A333, 12202 Sunrise Valley Drive, Reston, VA 20192.
2. The Office of Acquisition and Grants will accept hand delivered applications between 8:00am and 4:00pm daily, from May 23, 2005, to the closing time of 2:00p.m. EDT, on June 16, 2005, except Saturdays, Sundays, and Federal holidays.
3. An application that is hand delivered will not be accepted by the Office of Acquisition and Grants after 2:00p.m. EDT on the closing date.

Electronic submissions:

Proposals must also be submitted electronically at <http://www.grants.gov> /. Apply, no later than **June 16, 2005 at 2:00 p.m. EDT**. A proposal received after the closing date and time will not be considered for award. If it is determined that an application will not be considered because it was late, the applicant will be so notified immediately.

Please be aware that the electronic submission system is relatively complex for first-time users and involves several preliminary steps to be taken before the proposal information can actually be submitted (go to www.grants.gov, and click on the “Get Started” tab for the steps). Be advised that it is virtually impossible to begin the process of electronic

submission for the first time if you start just a few days before the due date. If you are from a university, contact your Office of Sponsored Programs. They may already have completed the registration process and should work with you to submit the application.

Additional instructions and information for electronic submissions:

1. Electronic applications must be made through the www.grants.gov website.
2. The due date for electronic submission will be the same as that for the hard copy of the proposals, **June 16, 2005**. The requirements for the contents of the material submitted electronically are identical to that required by the hard copy detailed below, except that allowances for total number of pages can be made for figures.
3. Your electronic submission will consist of completion of :
 - Your project narrative
 - form SF-424
 - form SF-424a
 - SF-424bAny information that is not contained in the SF-424 forms will be pasted together as one file and submitted in the Project Narrative Attachment section.
4. It is recommended that the application narrative be converted to PDF format for easiest submission. Also, when completing the SF-424 forms, all blocks in yellow must be filled out or the application submission will be rejected by grants.gov.

Please arrange your application according to the format provided below. Following this format ensures that every proposal contains all essential information and is evaluated equitably.

A. Proposal Forms

Begin by downloading the PureEdge Viewer at <http://www.grants.gov> under the “Get Started” tab in the upper right corner of the screen. The PureEdge Viewer will enable applicants to view and complete the following required forms:

SF-424 Application for Federal Assistance
SF-424a Budget Information
SF-424b Assurances – Non-Construction Programs

(The DI-2010 U.S. Department of the Interior Certifications Regarding Debarment, Suspension and Other Responsibility Matters, Drug-Free Workplace Requirements and Lobbying are required and are available at the following site: <http://www.usgs.gov/contracts/grants/certs.pdf>. Please complete this form and submit it with the hard copy of your proposal).

B. Proposal Narrative

For more information see specific category for narrative requirements.

C. Budget Sheets

This information will provide more details than are required under the SF 424A form. Please include the following information:

- (1) Salaries and Wages. List names, positions, and rate of compensation. If contract employees are hired, include their total time, rate of compensation, job titles, and roles.
- (2) Field Expenses. Briefly itemize the estimated travel costs (i.e., destination, number of people, number of travel days, transportation costs, and other travel costs).
- (3) Other Direct Cost Line Items. (This is not an inclusive list; add other categories as appropriate.)
 - Supplies. Itemize costs for office and laboratory supplies.
 - Equipment.
 - Other contract services.
- (4) Total Direct Charges. Totals for items a - d.
- (5) Indirect Charges (Overhead). Show proposed rate and amount.

VI. Application Review

A. Criteria

- (1) Applicants to all categories of funding are encouraged to support and participate with state or regional GIS coordination entities. This can be demonstrated through attached letters of support, agreement, Memoranda of Understanding, or other documentation.
- (2) Category specific evaluation factors are identified in the proposal's *project narrative*. These are scored according to specific point values. See specific category for category criteria and narrative information.

B. Review and Selection Process

Applications are considered based on the completeness of documentation, meeting of stated basic eligibility, and in-kind match and partnership requirements. Specific evaluation factors are identified in the proposal narrative. Budget information is evaluated for reasonableness and appropriateness to the CAP program as well as to applicant project goals.

In addition to the above criteria, the factors of geographic and organizational diversity, as well as reaching new organizations and new geographic regions, will be taken into consideration in selecting awards.

Proposals are reviewed by a peer group of professionals that are knowledgeable in the GIS discipline and in the NSDI. Individual proposals are evaluated and scored. Through peer consensus process, proposals are ranked for meriting award. The slate of selected proposals will be submitted to the senior leadership of NGPO and FGDC for final

approval. The senior leadership will consult with the FGDC Coordination Group in approving and advertising final selections.

VII. Award Administration Information

Award recipients are responsible for managing the day-to-day operations of the grant/cooperative agreements and sub-award supported activities to assure compliance with applicable Federal requirements and that performance goals are being achieved. Recipient monitoring must cover each program, function, or activity.

VIII. Agency Contacts

A. Grants.gov

Technical questions concerning the application process at Grants.gov:

Grants.gov Help Desk at:

Phone: 1-800-518-GRANTS

Email: support@grants.gov

B. Program Announcement

Applicants are strongly urged to submit questions via email to:

Ms. Desiree Santa, Grant Specialist
U.S. Geological Survey
Grants Branch
12201 Sunrise Valley Drive, MS 205G
Reston, VA 20192
Phone: (703) 648-7382
Email: dsanta@usgs.gov

C. CAP Program

For technical questions concerning the content, goals, and objectives of the CAP program categories, please contact:

David Painter, CAP Coordinator
Federal Geographic Data Committee Secretariat
MS 590 USGS National Center
12201 Sunrise Valley Drive
Reston, VA 20192
Phone (703) 648-5513
Email: dpainter@fgdc.gov

IX. CAP Category Information

This section contains information specific to the four funding categories, including specifics on category goals, results, anticipated tasks, matching requirements, applicable standards, and the application narrative.

X. Category 1: Metadata Trainer and Outreach Assistance

A. Background

Geospatial information applications have become commonplace in the management, planning, and use of land resources. Good data management practices allow datasets created for one project to be used by another through documentation of critical information of a dataset allowing one to confidently reuse exiting data. However, due to unawareness or other limitations, many organizations often do not record the dataset characteristics, developmental processes, or simply the data's repository. Dataset characteristics, documented in a structured form to allow effective information search and discovery, is metadata. Implementing metadata as a program enables organizations to effectively manage data resources and to experience cost savings by eliminating repetitive data creation.

The FGDC calls upon the metadata community, through this CAP, to reach out to organizations without established metadata programs and share their expertise in metadata implementation. The FGDC encourages assistance proposals to support rural, local, regional, and state level metadata training, metadata publishing, and metadata program implementation.

This category encourages metadata-enabled organizations to extend their programs to assist other organizations to implement metadata as internal data resource management instruments and ultimately share data resources in support of the NSDI.

B. Goals

This category provides funding to organizations skilled in metadata implementation and willing to assist other organizations by providing metadata training, metadata creation assistance, and metadata program implementation and support. Outcomes from this category focus on establishing a sustained resource as metadata creators: to inventory and document data (metadata), facilitate data sharing, and ultimately participate in the NSDI, and for those managing data resources, to implement metadata programs in their respective organizations or agencies.

Recipients in this category are asked to extend their training services outside of proposal partners at the recipient's regularly scheduled and located workshops. Trainers in this category are requested to register on the FGDC Metadata Trainer Registry and contribute to the FGDC's distributed training network.

Training under this program will contain the FGDC Metadata Core Curriculum found at: <http://www.fgdc.gov/metadata/education.html>. The Core Curriculum provides general topic areas. However, the learning objectives for the core content are requirements for metadata creator and manager workshops supported under this program.

C. Project Results

Projects results and outcomes sought under this category include:

- (1) Individuals and organizations trained and competent in creating compliant metadata.
- (2) Metadata files created for other organizations.
- (3) Resulting metadata can be discovered and harvestable through
 - (a) The Geospatial One-Stop Portal at <http://www.GeoData.gov>.
 - (b) Registered Z39.50 Clearinghouse server.
 - (c) Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH) provider software.
 - (d) FGDC Browse-enabled Web Directory, where metadata is in XML.
- (4) Establishment of data warehousing for Web mapping service in GOS Portal.
- (5) Establishment of formal or informal organizational relationships to sustain metadata activities beyond performance period.
- (6) Trainers are registered at the FGDC Metadata Trainer Registry to provide for greater metadata training opportunities.
- (7) All workshops are posted to the FGDC Calendar: <http://fgdc.gov/calendar>

See Attachment C "Metadata Training and Outreach Project Report Format" for additional project documentation.

D. Applicant Eligibility

Federal, State and local government, academia, private sector, non-profit, and tribal organizations, as well as consortia of organizations, may apply.

Proposals sought under this category are by organizations skilled and resourceful in implementing applicable standards.

E. Funded Activities

- (1) Funded tasks and items providing training and outreach to other organizations include:
 - (a) Training sessions (travel, facilities, reproduction costs, equipment, etc)
 - (b) Clearinghouse service for resulting metadata
 - (c) Labor costs to create and serve metadata for other organizations
 - (d) Travel to provide metadata training and outreach
 - (2) Participation in CAP Kickoff Workshop
- Applicants are requested to budget sufficient travel funds (approximately \$1,000) for the participation of one individual at the NSDI orientation, metadata training and kickoff

workshop to be held on September 13 and 14, 2005, at the U.S. Geological Survey National Center in Reston, VA.

(3) Project Presentation to spread and promote knowledge of the NSDI, 2005 CAP participants are requested to make formal presentations of their activities. Presentation can be at a local, state, regional, national conference or meeting. The applicant is requested, if necessary, to budget sufficient funds to travel to the meeting or conference. An alternative is to publish a paper or article in a professional journal or newsletter.

F. Funding and In-Kind Match

(1) Federal assistance

Up to \$30,000 is available for funding under this category.

(2) In-Kind Resource Match

A minimum 50% match is required. This may include salaries, funds, and equipment dedicated to the project as well as other resources. See Section IV. A. (3) for in-match calculation.

G. Partnership and Collaboration Requirement

Partnerships with other organizations to leverage resources are encouraged but not required under this category. Partnerships, both formal and informal among organizations to leverage limited geospatial data resources, are seen as primary building blocks for the NSDI.

Those proposals demonstrating support and/or collaboration with state or regional spatial data strategic plans or councils are sought under this announcement.

H. Applicable Standards

Projects must be in compliance, as applicable, with geographic information standards developed and endorsed by standard-setting bodies including the FGDC, ISO, and the OpenGIS Consortium. These standards include:

- (1) FGDC Content Standard for Digital Geospatial Metadata, Version 2 (CSDGM), FGDC-STD-001-1998 or when available the ISO Metadata Standard 19115 using draft ISO Technical Specification 19139.
- (2) Metadata Service Guidelines: Metadata must be posted to one of the following options and harvestable through
 - (a) the Geospatial One-Stop Portal at <http://www.GeoData.gov>.
 - (b) registered Z39.50 Clearinghouse server.
 - (c) Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH) provider software.
 - (d) FGDC Browse-enabled Web Directory, where metadata is in XML.

I. Project Resources

The FGDC Metadata website (<http://www.fgdc.gov/metadata/metadata.html>) provides links to resources assisting workshop development at various content levels and durations. Using the FGDC Metadata Core Curriculum enables course development that meets FGDC training standards. The FGDC will provide initial tutorial and referral assistance as well as training at the FGDC CAP kick-off workshop.

The FGDC will assist in matching training requests and trainer provider geographically and by data theme.

J. Reporting

- (1) An interim and final project report is required
 - (a) See Section IV. C for report submission schedule
 - (b) See Attachment C: Metadata Training and Outreach Project Report Format for content
- (2) Financial report (see Section IV.C.).

K. Application Narrative

The project narrative is the primary document that will be evaluated and scored by the review panel. Proposal Summary for each awarded proposal will be linked from the FGDC website. Total point value of 100 points possible. Please limit to 5 pages (not including letters of support, tables, maps, and diagrams):

- (1) Proposal Summary: Please list the following items if appropriate
 - (a) Applicant organization (name, office/branch, street address, city, state, zip)
 - (b) Collaborating organizations (organization, address)
 - (c) Name of trainer or trainer's organization.
 - (d) Organization Internet address
 - (e) Registered Clearinghouse node or Web folder IP address
 - (f) Key project contact (name, telephone, fax, email)
 - (g) Other contact personnel (name, telephone, fax, email)
 - (h) Geographic scope or area
 - (i) Previous CAP participation (awarded or submitted but not awarded).
- (2) Project Scope – Project Description (25 points)
Describe project, its steps, and partners/participants. Describe how the project contributes to the NSDI, and conforms to appropriate standards. List organizations or target organizations/communities served in this project.
- (3) Technical approach (25 points)
Outline the steps, methodologies and resources to be utilized in implementing the project.

This includes facility type, equipment and supplies supporting the training. Applications will be evaluated on the degree to which comprehend the tasks and procedures necessary to accomplish project objectives. Indicate the training approach: lecture, lecture with exercises, or lecture with metadata creation tool. Indicate all pre and post-workshop activities performed to measure learning, if any. Indicate if course and instructor evaluations are conducted. Include statement regarding adoption of FGDC Metadata Core Curriculum.

(4) Project Experience (25 points)

Describe experience, special qualifications and skills possessed necessary for performance of the project. If applicant is a previous NSDI CAP participant please provide information describing previous effort and accomplishments. Identify metadata trainer resource.

(5) Commitment to Effort (25 points)

Describe the extent to which project results will continue or be sustained after the performance period. Applicants are sought that demonstrate the project is participating in or supporting state or regional geospatial infrastructure strategies and plans. Memoranda of Understanding and/or letters of commitment should be attached.

XI. Category 2: Establishing Framework Data Services using the OpenGeospatial Consortium (OGC) Web Feature Service Specification

A. Background

The FGDC and the GOS Initiative have been facilitating the development of standards that define the minimum content and encoding rules for information exchange for Framework themes. These themes include Elevation, Cadastre, Governmental Units, Geodetic Control, Hydrography (Surface Water), Orthoimagery, and Transportation (Roads, Transit, Air, Waterways, and Rail); see <http://www.Geo-One-Stop.Gov/Standards>. The draft standards will be available for public review during 2004, with anticipated publication in late 2004 or early 2005.

It is the goal of these CAP projects to underwrite the deployment of Web services that support the on-line exchange of data based on encoding rules described in the draft Framework data standards. Geographic information will be encoded using the Geography Markup Language (GML) – an implementation of the Extensible Markup Language (XML) for vector and raster data streaming over the Web.

The establishment of Framework Web Feature Services (WFS) for vector themes must be done in collaboration with the other stewards and theme lead agencies to develop an appropriate network for data publication and exchange. Services resulting from this award will provide Framework data for a given theme for a given geography to populate the fabric of Framework data for the nation.

This CAP initiative for establishing Framework data services using WFS will provide funding to a small number of partnership projects to set up standards-based services in front of existing collections of Framework-like thematic data. This may be done a variety of ways, but may require the formal collaboration of the data provider with a software provider to establish and optimize the service. A list of software solutions known to support the OGC WFS are identified at the OpenGIS website:
<http://www.opengis.org/resources/?page=products> Select “Implementing or Compliant.”

B. Goal

The goal for projects in this category is to deploy OGC WFS (and optionally, client) interfaces to respond to Web “POST” requests for Framework data, and to return the data that conforms to the draft ANSI/INCITS L1 Standard for each identified theme in the format given by OGC Geography Markup Language (GML) Version 3.0 or higher.

C. Project Results

- (1) Operational capability of an OGC WFS is established for each project participant’s Clearinghouse node.
- (2) OGC WFS is registered with the FGDC/GOS Portal.
- (3) Feature services will reflect the final INCITS-L1 multi-part standard for Framework data content, when published.

D. Applicant Eligibility

- (1) Federal, State and local government, academia, private sector, non-profit, and tribal organizations, as well as consortia of organizations, may apply.
- (2) The applicant’s proposed feature services shall be described in the proposal in sufficient detail to indicate an understanding of the work required, and the existence of an FGDC-compliant metadata catalog (Clearinghouse) shall be registered (a) in the FGDC Registry (<http://registry.fgdc.gov>) as an operational service or (b) as a metadata resource within the GOS Portal (<http://geodata.gov>) at the time of proposal submission.

Applicants already operating GIS data or mapping service software that can be extended to support OGC Web Service interfaces are preferred.

- (3) Applications from multi-organizational, multi-jurisdictional projects with broad geographic area coverage will be preferred.
- (4) Applications by lead organizations awarded for this category under the 2004 CAP will not be allowed.

E. Funding and In-kind Match

Funds provided under this category are considered to be sufficient to enable the project to be completed with significant in-kind collaboration between the provider and vendor partners, and that it will be maintained by the parties as a sustainable service even after initial funding is exhausted

(1) Federal Assistance

Up to \$50,000 will be obligated to individual projects under this category.

(2) Applicant In-Kind Resource Match

A minimum 50% match is required. This may include salaries, funds, and equipment dedicated to the project as well as other resources (the value of actual geospatial data holdings are not considered appropriate for in-kind matches). See Section IV. A. (3) for in-match calculation.

F. Funded Activities

(1) Consultant or software integrator time may be expected as an incidental expense.

(2) Software and data schema configuration time is anticipated by the provider.

(3) Reasonable expense for hardware and software may be funded dependent on available funds.

(4) In addition, applicants are requested to budget sufficient travel funds (approximately \$2,000) for the participation of two individuals (1 data provider and 1 software vendor) at the NSDI orientation, training and kickoff workshop to be held in Reston, Virginia from September 13-14, 2005.

(5) Project Presentation: In order to spread and promote knowledge of the NSDI, 2005 CAP participants are requested to formally present on their activities. Presentation can be at local, state, regional, national conference or meeting. The applicant is requested, if necessary, to budget sufficient funds to travel to the meeting or conference. An alternative is to publish a paper or article in a professional journal or newsletter.

G. Partnership and Collaboration Requirements

Applicants are required to establish partnerships between data and software provider organizations that yield the permanent establishment of an operational Web Feature Service at the data host organization's site.

Those proposals demonstrating support and/or collaboration with state or regional spatial data strategic plans or councils are sought under this announcement.

H. Applicable Standards

Projects must be in conformance with the standards, specifications, and guidelines below:

- (1) OGC WFS. The current published version of the OGC Web Feature Service specification is version 1.1 (2002-05-17). The document number is OGC PENDING. The specification is downloadable at <http://www.opengis.org/docs/PENDING>
- (2) OGC Geography Markup Language (GML) Version 3.1 (2003-01-29) (<http://www.opengis.org/docs/PENDING>) baseline for ISO 19136
- (3) INCITS Project 1574-D, Geographic information - Framework Data Content Standard, public review draft version (TBD). See <http://www.geo-one-stop.gov/Standards/index.html> for more information.

I. Project Resources

The FGDC will provide architectural guidance on how OGC Web Services and Framework data should be served and validated. The FGDC will supply revised UML and a GML Application Schema as XML Schema to the project teams. The FGDC will provide initial tutorial and referral assistance.

J. Reporting

- (1) An interim and final project report is required.
 - (a) See Section IV. C for report submission schedule.
 - (b) See Attachment D: Establishing Framework Data Services using the OGC WFS Report Format for content. Brief documentation of the data and server configuration approach taken is required in a form, with graphics, that can be followed by others for adoption.
- (2) Financial reports (see Section IV.C.).

K. Application Narrative

The project narrative is the primary document that will be evaluated and scored by the review panel. Proposal Summary for each awarded proposal will be linked from the FGDC website. Total point value of 100 points possible. Please limit to 5 pages (not including letters of support, tables, maps, and diagrams).

- (1) Proposal Summary: Please list the following items if appropriate:
 - (a) Applicant organization (name, office/branch, street address, city, state, zip)
 - (b) Collaborating organizations (organization, address)
 - (c) Organization Internet address
 - (d) Identity of Registered Clearinghouse metadata collection
 - (e) Key project contact (name, telephone, fax, email)
 - (f) Other contact personnel (name, telephone, fax, email)
 - (g) Geographic scope or area
 - (h) Framework themes
 - (i) Previous CAP participation (awarded or submitted but not awarded).

Project Narrative

(2) Project Scope (20 points) Describe intended application and Framework theme data that will be served and the organizations involved, including vendor partner(s). Describe the plan for project implementation. Describe the participants' roles and commitments to the project. Please describe the extent of standards-based Web services to be established by the project. Each project must propose one or more Framework themes that will be made available using the draft Framework Standard proposed encoding. Information is requested on the geographic coverage, proposed themes, and the scope of community benefits for having this provider's data in a standards-based Web service.

(3) NSDI/GOS Related Experience (20 Points)

Describe current level of activities and involvement on any NSDI-related work. This includes the NSDI areas of standards, metadata, clearinghouse, framework, or organizational coordination. Optionally, indicate if the proposal supports state or regional GIS infrastructure objectives or coordination with state or regional GIS coordination groups, such as I-Teams, and their implementation plans. Identify any member participation in the development or review of the INCITS Framework Data Content Standards.

(4) Installed GIS and Data Service Capability (40 points)

Describe your GIS data and mapping capabilities for interactive display of Framework data with the name and version of the software being used. Identify current numbers of users that access your GIS data and mapping services, and the volume of information being made available. Identify project expertise in establishing and modifying GIS web services. In addition, if hardware and software are to be acquired under this cooperative agreement, please describe it and justify its function to the project. Provide the name and credentials of the GIS software developer/integrator to be used in this project. Identify the software products to be used/enhanced by name and version.

(5) GIS Infrastructure Support (20 Points)

How does your project support state or regional GIS infrastructure objectives and/or in coordination with state or regional GIS coordination groups or plans? Please provide attached letters of agreement, Memorandums of Understanding, and other documents demonstrating this support.

XII. Category 3: Geographic Information Coordination

Geographic Information Coordination: Bringing People Together

A. Background

While the value of geospatial information for analysis and decision-making is widely recognized, many barriers exist to its use across organizational and political boundaries. For the past two decades in many regions, organizations and councils have formed to overcome these barriers.

These organizations have had varying degrees of success and are at different stages of development. It is recognized that working across organizational boundaries can be challenging and often takes additional resources. Effective programs for developing, maintaining, and taking advantage of geospatial information require coordination among agencies and organizations within a region. This category supports activities that promote cooperation and coordination among different sectors and levels of government, and will fund a wide range of “next step” coordination activities.

B. Goal

The goal for projects in this category is to enhance organizational and institutional capacity to share digital geographic resources. Multi-jurisdictional consortia, such as the 50 States Initiative and I-Teams (Implementation Teams), are self-organizing groups that seek to collaborate and strategically align geographic data collection and management efforts. Sharing geographic information across organizations and jurisdictional boundaries requires reaching agreement on a wide-range of technical, political, and financial factors. Adoption of national standards lowers cost and facilitates participation in national programs such as Geospatial One-stop and *The National Map*. Activities that promote compliance with geographic information standards developed and endorsed by standard setting bodies, including the FGDC, ISO and OpenGeospatial Consortium, are encouraged. Funds are provided to help new consortia form and to strengthen existing consortia.

C. Project Results:

These include, but are not limited to the following:

- Creating of regional consortia
- Advancing the development of existing consortia and “next steps” planning
- Increasing consortia membership
- Gaining support and membership from data user organizations
- Gaining recognition from governmental and legislative entities
- Using geographic information and GIS technology to develop regional solutions to regional challenges
- Improving of data discovery, access, and use
- Increase participation in national geospatial data programs

D. Applicant Eligibility

Consortia of public, non-profit organizations or incorporators of proposed consortia may apply for award in this category. In addition to geographic data specific consortia, other consortia such as metropolitan planning offices, watershed councils, economic development boards, chambers of commerce, emergency responders, regional councils of government, school districts and state agencies are encouraged to apply.

Applications by lead organizations awarded under the 2004 CAP for Institution Building and Coordination will not be allowed.

E. Funding Amount and In-Kind Match

(1) Federal Assistance

Up to \$20,000 will be obligated to individual projects under this category.

(2) Applicant In-Kind Resource Match

A minimum 100% match is required. This may include salaries, funds, and equipment dedicated to the project as well as other resources (the value of actual geospatial data holdings are not considered appropriate for in-kind matches). See Section IV. A. (3) for in-kind match calculation.

F. Funded Activities

These including but are not limited to, the following:

- Convene regional events to learn from others about such things as user groups, Special Interest groups, *The National Map*, Geospatial One-stop, the National Digital Geographic Framework, and national geographic information standards.
- Establish initial Web site that might include discovery of existing standards & protocols, links to helpful websites, or on-line tutorials.
- Discover “who has what” by holding a Data Day event or workshop.
- Learn more about the most appropriate governance model (i.e., decision making model) to formalize agreements.
- Gain political recognition for council/group such as drafting an executive order.
- Acquire assistance in developing an appropriate financial model.
- Develop a geographic information strategic, business and data development plan.
- Implement an action from an existing plan.
- Provide outreach to other regional organizations, such as a metropolitan planning office, watershed councils, economic development boards, chambers of commerce, emergency responders, councils of government, school districts, Federal agencies, and others that can benefit from geospatial solutions to community challenges.
- In addition, applicants are requested to budget sufficient travel funds (approximately \$1,000) for the participation of one individual at the NSDI orientation, metadata training and kickoff meeting to be held in Reston, Virginia on September 13-14, 2005.

G. Reporting

(1) An interim and final project report is required.

- (a). See Section IV. C for report submission schedule.
 - (b). For content see Attachment E: Geographic Information Coordination Project Report Format.
- (2) Financial reporting (see Section IV. C.).

H. Application Narrative

The project narrative is the primary document that will be evaluated and scored by the review panel. Proposal Summary for each awarded proposal will be linked from the FGDC website. Total point value of 100 points possible. Please limit narrative to 5 pages (not including letters of support, tables, maps, and diagrams).

(1) Proposal summary. Please list the following items, as appropriate:

- (a) Applicant organization
- (b) Collaborating organizations (or potential)
- (c) Organization internet address
- (d) Relevant National Digital Geospatial Clearinghouse node address (if any)
- (e) Key project contact (name, telephone, email)
- (f) Other key contact personnel (name, telephone, email)
- (g) Geographic/regional scope
- (i) Previous CAP participation (awarded or submitted but not awarded)

(2) Project scope (40 points)

Briefly describe the project. Address the capacity of the applicants to work together effectively to address common concerns. Consortia representing both organizations with geographic information processing expertise and organizations committed to address and improve important societal issues are encouraged to apply. Why do the organizations propose to work together (in other words, what are the interdependencies between the organizations)? What is the level of support? Attach letters of support from a senior manager or "champion" in each organization.

(3) Skills and capabilities (20 points)

Briefly describe your experience convening stakeholders in a consensus process, or indicate recognition the skill that is needed and will be acquired.

(4) Understanding the State of Regional Coordination: (20 points)

Briefly describe the current state of regional coordination, including all relevant factors (environmental, social, political, and economic). How does your project support state or regional GIS infrastructure objectives and/or in coordination with state or regional GIS coordination groups or plans? Please provide attached letters of agreement, Memoranda of Understanding, and other documents demonstrating this support.

(5) Relevancy (20 points)

Briefly describe the social, environmental, and economic issues of most concern to the residents of the region. How does your proposal improve the situation? How does your proposal fit with existing "next steps" in your regional development? How will your project improve regional solutions through the discovery, access, and better utilization of geospatial data?

XIII. CATEGORY 4: Geographic Information Integration and Analysis

A. Background

Through activities of the NGPO, the U.S. Geological Survey (USGS) is working with Federal, State, regional, and local government agencies, the private sector, and others to provide current and accurate geographic data to support the NSDI. The goal of this funding area is to develop sustainable partnerships to maintain and update current geographic data of known quality over a geographic area, and to work with organizations to develop the infrastructure needed to integrate these data and make them available.

Projects funded shall have an outcome of providing sustained operational capabilities to maintain and update data over an organization's (or consortia) geographic area of interest and to provide access to them through *The National Map*. Related data, web services, and plans for data maintenance and backup procedures will be documented in a partnership agreement with the NGPO.

B. Goal

The goal of this category is to assist organizations and consortia to work with the NGPO to develop and implement the NSDI. Participation is sought from those organizations that maintain, update, and serve geospatial data. Of special interest are organizations or consortia whose geographic area of interest covers a "large area" (for example, a state, group of states, ecoregion, or metropolitan area). Funds may help new participants overcome initial impediments to participation and current participants improve their services as part of the NSDI.

C. Measurable Results

- Data provided through *The National Map*. The data provided should be available in the public domain¹ for unlimited viewing, downloads (limited by data volume restrictions), and unrestricted use and redistribution. A consequence of participation is the registration of map services and metadata in Geospatial One-Stop.

¹ Public domain refers to works that are not protected under U.S. copyright law and are publicly available. Public domain materials may be used by anyone, anywhere in the U.S., anytime without permission, license, or royalty payment.

- Operational capability to maintain and update data evidenced through periodic updates of data made available through *The National Map*.
- Written agreement with NGPO to serve as an NSDI steward.

D. Deliverables

In addition to the data, services, and agreement, interim and final reports documenting activities and outcomes are required. See Section IV.C for report schedule.

Documentation will describe approaches used for integrating, maintaining, and updating data, encouraging participation, managing operations and plans for keeping data current, and other best practices that can be followed by others for adoption. See Attachment F - Geographic Information Integration & Analysis Project Report Format for content.

E. Applicant Eligibility

- 1) Organizations (State and local government, regional consortia, academia, private sector, non-profit and tribal organizations) or consortia of organizations may apply for this category.
- 2) Potential applicants are encouraged to contact the USGS liaison early in the application development process to clarify questions about participation. A letter of support from a state or regional GIS council or equivalent coordination group is encouraged. Letters of support must be submitted with the proposal.
- 3) The applicant must demonstrate the capability to develop, maintain, update, and make available data in support of the NSDI.
- 4) Applicants must have geographic information system or mapping software that can be extended to support OGC Web Mapping Service (WMS) version 1.1.1 (or later) interfaces.

F. Funded Tasks

(1) Activities such as organizing and integrating data and metadata, providing incentives for participation, implementing procedures for data integration and maintenance, and providing access to data through *The National Map*.

(2) Reasonable expense for hardware and software may be funded dependent on available funds. Data collection will NOT be funded through this announcement.

(3) In addition, applicants are requested to budget sufficient travel funds (approximately \$1,000) for the participation of an individual at the NSDI orientation, training and kickoff workshop to be held in Reston, Virginia from September 13-14, 2005.

(4) Project Presentation: In order to spread and promote knowledge of the NSDI, 2005 CAP participants are requested to formally present on their activities. Presentation can be at local, state, regional, national conference or meeting. The applicant is requested, if necessary, to budget sufficient funds to travel to the meeting or conference. An alternative is to publish a paper or article in a professional journal or newsletter.

G. Funding Amount

Up to \$50,000 will be obligated to individual projects under this category.

H. In-kind Resource Match and Partnerships Requirements

A minimum 100% match is required; these resources may include salaries, funds, and software dedicated to the project. Up to 15 percent of an in-kind match can be in the form of the value of geospatial data holdings to be offered. (USGS understands that the value of data provided is likely to be much higher.)

For the maximum award of \$50,000, the required 100% in-kind match is \$50,000.

I. Applicable Standards

Projects must be in conformance with the standards, specifications, and guidelines below:

- 1) Open GIS Consortium- (OGC-) compliant Web Mapping Service (WMS) (version 1.1.1 or later)
- 2) ISO/FGDC metadata standard
- 3) Geospatial Positioning Accuracy Standard, Part 3, National Standard for Spatial Data Accuracy (FGDC-STD-007.3-1998)
- 4) For hydrography, elevation, and geographic names, specifications and procedures for the National Hydrography Dataset (see <http://nhd.usgs.gov>), the National Elevation Dataset, and the Geographic Names Information System (see <http://geonames.usgs.gov>) respectively.

If the applicant anticipates offering additional web services, consult with USGS liaisons to discuss relevant standards to be used.

J. USGS Project Resources:

The USGS will provide through its website (<http://nationalmap.usgs.gov>) information on *The National Map*, as well as contact information for USGS personnel at the local (geography liaisons are listed at <http://geography.usgs.gov/www/partners/crreps.html>) and national (listed at <http://geography.usgs.gov/ctm.html>) levels.

The USGS will provide technical advice on how OGC Web Services and data for *The National Map* should be served and validated.

K. USGS Involvement Statement:

The USGS will collaborate closely with the awarded projects. Through the local geography liaison, USGS will monitor the milestones and accomplishments on work performed as part of this agreement.

L. Application Review and Award Criteria

Applications are considered based on the completeness of documentation, and meeting of stated basic eligibility and in-kind match and partnership requirements. Specific evaluation factors are identified in the proposal narrative and summary worksheet. Budget information is evaluated for reasonableness and appropriateness to the goals of the NSDI and the applicant's project goals. In addition to the above criteria, proposals maybe selected for award based on geographic areas of interest, organizational sectors, data themes, or geographic dispersion.

Proposals are reviewed by a peer group of professionals knowledgeable in the GIS discipline, the NGPO programs, and the NSDI. Individual proposals will be evaluated and ranked for meriting award. The slate of proposals proposed for award will be submitted to NGPO management for final approval.

M. Project Narrative:

The project narrative is the primary document that will be evaluated by the review panel. Total point value of 100 points possible. Please limit to 5 pages (not including letters of support, tables, maps, and diagrams):

Project Narrative: Please address each of the following factors in the sequence as they are listed. The maximum possible score is 100 points.

Please list the name of the Project Leader and that person's Organization.

(1) Project Scope: (25 points)

Provide a project plan, to include the scope of project, a description and measured area of the geographic area of interest, the intended activities, and the data themes to be viewable and/or downloadable. Describe the characteristics of these data. Discuss the anticipated update or refresh cycle for the data. Identify the extent to which data will be degraded or restricted for any reason. Identify the organizations involved and their roles and commitments to the project. State that the data in the project are in the public domain. Identify any other applications or services anticipated to be developed through the project. Clearly identify the intended outcomes of the project.

(2) Related Experience of Project Team (25 Points)

Describe the team's current level of activities and involvement in data maintenance and update activities, and services currently provided, for the data. Identify staff expertise in establishing and modifying GIS web services. Describe experience with USGS

topographic mapping and partnership activities, especially digital data activities that contribute to the NSDI such as programs and databases for imagery, elevation, hydrography, geographic names, and land cover, or other statewide activities similar in scope. Describe experience with NSDI activities, including, but is not limited to, any experience with NSDI areas of standards, metadata, clearinghouse, framework, organizational coordination, and activities related to Geospatial One-Stop. Indicate if the proposal supports state or regional GIS infrastructure objectives, coordination with state or regional GIS coordination groups or their equivalents, and their implementation plans.

(3) Data Service Function and Capacity (25 points)

Describe your GIS data and mapping capabilities for data maintenance and update, and web-based display and other services for the data that will be used in the project. Indicate the capacity of your data servers to support anticipated user demand (e.g. expressed as design goals for maps rendered, volume of data to be downloaded per time interval, internet bandwidth requirements, number of simultaneous users). Describe plans for continuity of operations, backup, mirror sites, and/or offsite archive. Provide the name and version of the software being used or developed for this project. Identify users and collaborators that access your GIS data and mapping services and the volume of information being made available. Describe design goals, both short term and long term, of how this project will improve your current baseline. In addition, if hardware and software are to be acquired under this announcement please describe it and justify its function to the project.

(4) Organizational and Managerial Capacity (25 points)

Describe the management plan for the activity, including the nature of the applicant's organization (e.g. single organization or consortium) and its formally documented relationships with other participants in the project. Describe the applicant's ability and experience in managing key aspects of projects such as the one proposed, including the functions of geospatial data maintenance and integration, access, and management; coordination, executive guidance; financial and other resource management; and monitoring and responding to users (for more information, see the first half of <http://www.fgdc.gov/framework/frameworkintroguide/chapter4.html>). Identify the portion of the organization's budget that is represented by the amount requested. Briefly describe the organization's or consortium's outlook for sustained operation in the next three years, and identify how the outcomes of the project fit the business plans and benefits anticipated by the partners or customers of the applicant.

N. Data Themes and Goals for Data Characteristics

The following information provides a better sense of the data themes and related data characteristics in *The National Map*. Characteristics of data currentness and positional accuracy are provided as goals. Data offered must improve (be more current, accurate, etc.) on those already available in *The National Map*.

Generally, the data provided must feature one or more of the following data themes: raster color or black-and-white orthoimagery; raster ground-surface elevation; vector

feature data for the themes of hydrography, transportation centerlines (especially roads, but also including railroads, pipelines, powerlines, and other features), structures, and boundaries of governmental units and administrative boundaries of publicly-owned lands; geographic names; and land cover. For the vector data categories the minimum information content is descriptive information such as feature type or classification information and a geographic name. For road data, street name and address range information is desired. Other commonly-used unique feature identifiers also are of interest. Specific information content requirements for hydrography and geographic names are available in documentation for the National Hydrography Dataset (<http://nhd.usgs.gov>) and Geographic Names Information System (<http://geonames.usgs.gov>) respectively.

Two types of geographic areas are of special interest. For urban areas (see section O), the data should have the currentness and positional accuracy qualities typically sought by local governments. For large areas (for example, states or groups of states), the data should have the positional accuracy qualities of USGS primary topographic map series (typically 1:24,000-scale; 1:63,360-scale in Alaska). The following table provides minimum (that is, data should be no worse than these measures) goals for these two classes of data:

Minimum (“no worse than”) Goals for Resolution, Accuracy, and Currentness				
	Urban Areas (see Section O)		Large Areas	
Data Theme	Minimum Resolution or Accuracy ²	Minimum Currentness ³	Minimum Resolution or Accuracy ⁴	Minimum Currentness ⁵
Orthoimagery	1 foot resolution; 3 meters horizontal accuracy	Two years	1 meter resolution; 11.70 meters horizontal accuracy	Five years
Elevation	1/9 arcsecond (~3 meters) resolution; 0.73 meter vertical accuracy	Two years	1/3 arcsecond (~10 meters) (2 arcsecond in Alaska) resolution; vertical accuracy commensurate with contour interval of USGS primary topographic map for area	Five years
Hydrography	4.68 meters horizontal accuracy	Two years	13.90 meters horizontal accuracy; 36.69 meters horizontal accuracy for Alaska	Five years
Transportation	4.68 meters horizontal accuracy	Two years	13.90 meters horizontal accuracy; 36.69 meters horizontal accuracy for Alaska	Five years
Boundaries	4.68 meters horizontal accuracy	Two years	13.90 meters horizontal accuracy; 36.69 meters horizontal accuracy for Alaska	Five years
Structures	4.68 meters horizontal accuracy	Two years	13.90 meters horizontal accuracy; 36.69 meters horizontal accuracy for Alaska	Five years
Land Cover	Should align with base maps that have the accuracies listed above.	Two years	Should align with base maps that have the accuracies listed above.	Five years
Geographic Names	Same as the associated feature		Same as the associated feature	

^{2,4} Accuracy statement based on Geospatial Positioning Accuracy Standard, Part 3, National Standard for Spatial Data Accuracy (FGDC-STD-007.3-1998). http://www.fgdc.gov/standards/status/sub1_3.html. For horizontal accuracies (95% confidence level), 3 meters is commensurate with 1:3,075-scale maps under the National Map Accuracy Standard, 4.68 meters with 1:4,800-scale maps, 13.90 meters with 1:24,000-scale maps, and 36.69 meters with 1:63,360-scale maps. For vertical accuracy (95% confidence level), 0.73 meter is commensurate with a four-foot contour interval under the National Map Accuracy Standard.

^{3,5} Estimated currentness of the data at the date of service initiation; that is, the data served reflects the ground condition sometime during the two (or five) years prior to the start of service through *The National Map*. (Note that, for themes in which the ground changes rarely, older data might meet this condition.)

Data should be in the North American Datum of 1983; elevation data in the North American Vertical Datum of 1988.

Other sought data characteristics are reviewed in “*The National Map: Topographic Mapping for the 21st Century*” (http://nationalmap.usgs.gov/report/national_map_report_final.pdf, starting on page 10).

Other requirements:

- 1) The data provided should be available in the public domain.
- 2) The data provided will be available for unlimited viewing, limited downloads (limited by data volume restrictions), and unrestricted use and redistribution.
- 3) USGS may incorporate data provided in *The National Map* into its national databases; in particular:
 - a. Activities that include hydrography data must result in the data being incorporated into the National Hydrography Dataset.
 - b. Activities that include elevation data must result in the data being incorporated into the National Elevation Dataset.
 - c. Activities that include geographic names must result in data being incorporated into the Geographic Names Information System.

O. Urban Areas

“Urban areas” of interest are the geographic area for the urbanized area⁶ or urban cluster⁷ as delineated by the Bureau of the Census from the 2000 Census for the places listed below. Coverage for an area larger than that delineated by the Bureau of the Census may be proposed by the applicant.

⁶ The Bureau of the Census defines an urbanized area as consisting of a central place(s) and adjacent territory with a general population density of at least 1,000 people per square mile of land area that together have a minimum residential population of at least 50,000 people.

⁷ The Bureau of the Census defines an urban cluster as a densely settled territory that has at least 2,500 people but fewer than 50,000.

Albany, NY
Albuquerque, NM
Allentown – Bethlehem, PA
Amarillo, TX
Anchorage, AK
Atlanta, GA
Augusta, GA
Augusta, ME
Austin, TX
Bakersfield, CA
Baltimore – Annapolis, MD
Barre – Montpelier, VT
Baton Rouge, LA
Birmingham, AL
Bismarck, ND
Boise, ID
Boston, MA
Bridgeport – Stamford, CT
Buffalo, NY
Cape Coral, FL
Carson City, NV
Charleston – North Charleston, SC
Charleston, WV
Charlotte, NC
Chattanooga, TN
Cheyenne, WY
Chicago, IL
Cincinnati, OH
Cleveland – Akron, OH
Colorado Springs, CO
Columbia, SC
Columbus, GA
Columbus, OH
Concord, NH
Corpus Christi, TX
Dallas – FT. Worth – Arlington – Garland – Irving, TX
Dayton, OH
Denver – Aurora, CO
Des Moines, IA
Detroit – Warren, MI
Dover, DE
El Paso, TX
Flint, MI
Frankfort, KY
Fresno, CA
Ft. Wayne, IN
Grand Rapids, MI
Greensboro – Winston Salem, NC
Harrisburg, PA
Hartford, CT
Helena, MT
Honolulu, HI
Houston, TX
Huntsville, AL
Indianapolis, IN
Jackson, MS
Jacksonville, FL
Jefferson City, MO
Juneau, AK
Kansas City, MO-KS
Knoxville, TN
Lancaster, PA
Lansing, MI
Las Vegas, NV

Lexington, KY
Lincoln, NE
Little Rock, AR
Los Angeles – Glendale – Long Beach – Huntington Beach – Santa Ana – Anaheim, CA
Louisville, KY
Lubbock, TX
Madison, WI
McAllen, TX
Memphis, TN
Miami – Ft. Lauderdale, FL
Milwaukee, WI
Minneapolis – St. Paul, MN
Mission Viejo, CA
Mobile, AL
Modesto, CA
Montgomery, AL
Nashville, TN
New Haven, CT
New Orleans – Metairie, LA
New York – Newark, NY
Norfolk – Chesapeake – Newport News – Virginia Beach, VA
Oklahoma City, OK
Olympia, WA
Omaha, NE
Orlando, FL
Oxnard, CA
Palm Bay – Melbourne, FL
Pensacola, FL
Philadelphia, PA
Phoenix – Glendale – Mesa, AZ
Pierre, SD
Pittsburgh, PA
Portland, OR
Poughkeepsie – Newburgh, NY
Providence, RI
Raleigh – Durham, NC
Reno, NV
Richmond, VA
Riverside – San Bernardino, CA
Rochester, NY
Sacramento, CA
Salem, OR
Salt Lake City – Ogden, UT
San Antonio, TX
San Diego, CA
San Francisco – Oakland – San Jose – Fremont, CA
San Juan, PR

Santa Fe, NM
Sarasota – Bradenton, FL
Savannah, GA
Scranton, PA
Seattle – Tacoma, WA
Shreveport, LA
Spokane, WA
Springfield, IL
Springfield, MA
St. Louis, MO

Attachment A

Terms and Conditions

1. Method of Payment

The U.S. Geological Survey (USGS) is using the Health and Human Services (HHS) Payment Management System (PMS) to provide electronic invoicing and payment for assistance award recipients. The Recipient has established or will establish an account with PMS. With the award of each grant/cooperative agreement, a sub account will be set up from which the Recipient can draw down funds. The sub account number will be shown in block 4 of the face page of each award or modification.

Payments will be made available through the PMS. The PMS is administered by the Department of Health and Human Services (DHHS), Division of Payment Management of the Financial Management Service, Program Support Center. The DHHS will forward instructions for obtaining payments to the recipients. Inquiries regarding payment should be directed to:

Division of Payment Management
Department of Health and Human Services
P.O. Box 6021
Rockville, MD 20852

The Division of Payment Management web address is www.dpm.psc.gov. Problems or questions with electronic draw down procedures should be directed to Fran Odgers (301) 443-2090.

Payments may be drawn in advance only as needed to meet immediate cash disbursement needs.

2. Cooperative Agreement

A cooperative agreement is the legal instrument reflecting a relationship between the Federal Government and a State or local government or other recipient whenever:

- (1) the principal purpose of the relationship is the transfer of money, property, services, or anything of value to the State or local government or other recipient to accomplish a public purpose of support, or stimulation authorized by Federal statute, rather than acquisition, by purchase, lease, or barter, of property or services for the direct benefit or use of the Federal Government; and
- (2) substantial involvement is anticipated between the executive agency, acting for the Federal Government, and State or local government or other recipient during performance of the activity.

3. Principal Investigator

The Principal Investigator is the individual designated by the Recipient (and approved by the USGS) who is responsible for the technical direction of the research project. The Principal Investigator cannot be changed or become substantially less involved than was indicated in the Recipient's proposal, without the prior written approval of the Administrative Contracting Officer.

Attachment A

4. Project Officer

The USGS Project Officer will work with the recipient to ensure that technical requirements, as detailed in the awardee's proposal, are being met. The Project Officer's responsibilities include, but are not limited to, providing technical guidance on the project, resolving Recipient questions about USGS technical standards, and coordinating schedules, deliveries and exchange of materials.

5. Contracting Officer (CO)

Contracting officers are individuals who have been delegated in writing by the USGS Office of Acquisition and Grants as the sole authority designated to obligate Federal funds and create terms and conditions of awards. They are the only individuals who have authority to negotiate, enter into, and administer awards resulting for this program. Contracting officers have responsibility to ensure the effective use of Federal funds.

6. Rights in Technical Data

The U.S. Government may publish, reproduce, and use all data obtained from this Cooperative Agreement project in any manner and for any purpose, without limitation, and may authorize others to do the same.

7. Public Domain

All data submitted to the U.S. Geological Survey (USGS) under this Cooperative Agreement will become part of the public domain, and will be available in a non-proprietary format, at the cost of reproduction, to any requesting organization or individual.

8. Dissemination of Results and Reporting Requirements

The Principal Investigator is strongly encouraged to disseminate research results promptly to the scientific community and appropriate professional organizations; local, state, regional and federal agencies; and the general public. The U. S. Geological Survey (USGS) encourages the Recipient to publish project reports in scientific and technical journals. The Government may publish, reproduce, and use all technical data developed as a result of this award in any manner and for any purpose, without limitation, and may authorize others to do the same.

Data generated as a part of work funded under this program is not subject to proprietary period of exclusive data access. Any data generated must be made available to the USGS as soon as it is available. The USGS reserves a royalty-free, nonexclusive and irrevocable license to reproduce, publish, or otherwise use, and to authorize others to use the data for Government purposes. Any project funded in whole or part with funds obtained under this program shall fall under this clause. The USGS Contracting Officer is the sole person to decide which data falls in this category should any question arise.

Attachment A

A. **Required reports/documents.** The Principal Investigator or Director, Sponsored Research Office are required to submit the following reports or documents:

Report/ Document	No. of Copies and Method of Transmittal	Submit To	When Due
Interim Report	Submitted by email attachment	CAP Program Contact	6 months after project start date
Final Technical Report	Submitted by email attachment	CAP Program Contact	90 days after completion of project
SF 272 Federal Cash Transactions Report	Original + 1	Contracting Officer	Required quarterly of each PMS sub-account. Quarterly reports are due 15 working days after the end of each fiscal quarter.
Final SF 269 Financial Status Report	Original + 1	Contracting Officer	Submit a final SF 269 no later than 90 calendar days after the grant agreement completion date and the Recipient will liquidate all obligations incurred under the award. The Recipient will promptly return any unused federal advances or will complete a final draw from PMS to obtain any remaining amounts due.

Attachment A

B. **Report preparation instructions.** The Recipient shall prepare the reports/documents in accordance with the following instructions:

- (1) **Interim Project Report.** The Recipient is required to submit an Interim Project Report six months after the start of the project date. Interim report should be submitted as an attachment by email to the CAP Coordinator. See the CAP Administration webpage for the suggested report content at: (<http://www.fgdc.gov/funding/admin.html>).
- (2) **Annual and/or Final Technical Report.** Interim report should be submitted as an attachment by email to the CAP Coordinator. See the CAP Administration webpage for the suggested report content at: (<http://www.fgdc.gov/funding/admin.html>).
- (1) **SF 272, Federal Cost Transactions Report** is required quarterly for each PMS sub-account. Quarterly reports are due 15 working days after the end of each fiscal quarter and will be submitted to the contracting officer, unless otherwise instructed.
- (2) **Final SF 269, Financial Status Report.** Submit a final SF 269 no later than 90 calendar days after the grant agreement completion date and the Recipient will liquidate all obligations incurred under the award. The Recipient will promptly return any unused federal advances or will complete a final draw from PMS to obtain any remaining amounts due. This report is subject to audit.

C. **Adherence to reporting requirements.** A Recipient's failure to submit the required reports/documents, in a timely manner, may result in the withholding of payment, in termination of the award, or in delay or non-issuance of a new award.

9. Adherence to Original Project Objective and Budget Estimate

A. Any commitments or expenditures incurred by the Recipient in excess of the funds provided by this award shall be the responsibility of the Recipient. Expenditures incurred prior to the effective date of this award cannot be charged against award funds unless provided for in this award.

B. **The following requests for change require advance written approval by the Contracting Officer shown on your award. Your request must be submitted directly to the Contracting Officer at least 30 calendar days prior to the requested effective date of the change:**

- (1) Changes in the scope, objective, or key personnel referenced in the Recipient's proposal.
- (2) Request for supplemental funds.

Attachment A

- (3) Transfer of funds between direct cost categories when the cumulative amount of transfers during the project period exceeds 10 percent of the total award.
 - (4) Foreign travel not approved at time of award.
 - (5) Acquisition of nonexpendable personal property (equipment) not approved at time of award.
 - (6) No-cost Extensions to the Project Period. **No-cost extensions are discouraged.** Applicants should consider their time commitments at the time of application for a grant. Requests for no-cost extensions will be considered on a case-by-case basis. The USGS reserves the right to limit the length of time and number of no-cost extensions. Applicants must supply documentation supporting their request for an extension. The Recipient shall include in the request the cause of the needed extension, a description of the remaining work to be completed, the proposed date of completion, the amount of funds remaining, and a revised budget for the remaining funds. If all funds have been disbursed to the Recipient, this must be indicated in the request. A request for an extension that is received by the Administrative Contracting Officer after the expiration date shall not be honored.
 - (7) Creation of any direct cost line item not approved at time of award.
 - (8) Any other significant change to the award.
- C. The Contracting Officer will notify the Recipient in writing within 30 calendar days after receipt of the request for revision or adjustment whether the request has been approved.

10. Nonexpendable Personal Property

Title to nonexpendable personal property acquired wholly or in part with Federal funds shall be vested in the Recipient unless otherwise specified in the award document. The Recipient shall retain control and maintain a property inventory of such property as long as there is a need for such property to accomplish the purpose of the project, whether or not the project continues to be supported by Federal funds. When there is no longer a need for such property to accomplish the purpose of the project, the Recipient shall use the property in connection with other Federal awards the Recipient has received. Under no circumstances shall title to such property be vested in a sub-tier recipient. Disposal of nonexpendable personal property shall be in accordance with the applicable OMB circular.

11. Record Retention Period

Unless a longer period is requested by the award, a Recipient shall retain all records for 3 years after the end of the project period for which it uses USGS award funds.

Attachment A

12. Pre-agreement Costs

Pre-agreement costs are not authorized under this program. Costs must be obligated during the project period.

13. Metric Conversion Requirements

All progress and final reports, other reports, or publications produced under this award shall employ the metric system of measurements to the maximum extent practicable. Both metric and inch-pound units dual units may be used if necessary during any transition period(s).

However, the recipient may use non-metric measurements to the extent the recipient has supporting documentation that the use of metric measurements is impracticable or is likely to cause significant inefficiencies or loss of markets to the recipient, such as when foreign competitors are producing competing products in non-metric units.

14. Violation of Award Terms

If a Recipient materially fails to comply with the terms of the award, the Contracting Officer may suspend, terminate, or take such other remedies as may be legally available and appropriate in the circumstances.

15. Award Closeout

Awards will be closed out once all requirements have been met. Technical and financial reports must be submitted on time as specified in Item 2 of these Special Terms and Conditions. Failure to adhere to the reporting requirements may result in the non-payment of your final award invoice or in other adverse action.

16. Partnership with Grantees/Cooperators

The U.S. Geological Survey, through its federal grant/cooperative agreement awards, will collaborate with universities, federal state, local and tribal governments, and private organizations and businesses to provide relevant, timely, objective knowledge and information on natural resources, hazards and the environment.

17. Buy American Act Requirements

Notice: Pursuant to Section 307(b) of the Department of the Interior (DOI) and Related Agencies Appropriations Act, FY 2000, Public Law 106-113, please be advised on the following:

In the case of any equipment or product that may be authorized to be purchased with financial assistance provided using funds made available in FY 2000 and thereafter, it is the sense of the Congress that entities receiving the assistance should, in expending the assistance, purchase only American-made equipment and products.

Attachment A

18. Anti-Lobbying Requirements

The Recipient shall not use any part of the Department of Interior provided hereunder for any activity or the publication or distribution of literature that in any way tends to promote public or opposition to any legislative proposal on which Congressional action is not complete.

19. Seat Belt Provision

Recipient of grants/cooperative agreements and/or sub-awards are encouraged to adopt and enforce on-the-job seat belt use policies and programs for their employees when operating company-owned, rented, or personally owned vehicles. These measures include, but are not limited to, conducting education, awareness, and other appropriated programs for their employees about the importance of wearing seat belts and the consequences of not wearing them.

20. Endorsement Provision

Recipient shall not publicize or otherwise circulate, promotional material (such as advertisements, sales brochures, press releases, speeches, still and motion pictures, articles, manuscripts or other publications) which states or implies governmental, Departmental, bureau, or government employee endorsement of product, services, or position which the recipient represents. No release of information relating to this award may state or imply that the Government approves of the recipient's work products, or considers the recipient's work product to be superior to other products or services.

--End of Special Terms and Conditions--

Attachment B

GENERAL PROVISIONS

The Recipient shall be subject to the following OMB circulars/regulations, as amended, which are incorporated herein by reference:

1. Educational Institutions

- A. OMB Circular A-21, Cost Principles for Educational Institutions.
- B. OMB Circular A-110, Uniform Administrative Requirements for Grants and other Agreements with Institutions of Higher Education, Hospitals and Other Non-Profit Organizations (Being replaced by 2 CFR Part 215.)
- C. OMB Circular A-133, Audits of States, Local Governments, and Non-Profit Organizations.

2. State and Local Governments

- A. OMB Circular A-87, Cost Principles for State, Local and Indian Tribal Governments.
- B. OMB Circular A-102, Grants and Cooperative Agreements With State and Local Governments.
- C. OMB Circular A-133, Audits of States, Local Governments, and Non-Profit Organizations.

3. Nonprofit Organizations

- A. OMB Circular A-110, Uniform Administrative Requirements for Grants and other Agreements with Institutions of Higher Education, Hospitals and Other Non-Profit Organizations.
- B. OMB Circular A-122, Cost Principles for Nonprofit Organizations.
- C. OMB Circular A-133, Audits of States, Local Governments, and Non-Profit Organizations.

4. Profit-Making Organizations

- A. General administrative requirements will be in accordance with the OMB Circular A-10 and the Cost Principles in Federal Acquisition Regulation (FAR) Part 31.

Attachment B

- B. Principles for determining the allowability of cost will be in accordance with the FAR, subchapter E, part 31.2.

5. Patents--Small Businesses and Nonprofit Organizations

Subject to the provisions set forth in 37 CFR 401 and 35 U.S.C. 203, a Recipient may retain the entire right, title, and interest throughout the world to each subject invention. With respect to any subject invention in which the Recipient retains title, the Federal Government will have a nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States the subject invention throughout the world.

6. Code of Federal Regulations (CFR)

- a. 43 CFR Part 12, Subpart A: Admin, Audit and Cost Principles
- b. 43 CFR Part 12, Subpart D: Government Debarment and Suspension (nonprocurement) and Government wide requirements for Drug Free Workplace
- c. 43 CFR Part 12, Subpart E: Buy American Requirements for Assistance Programs
- d. 43 CFR Part 12, Subpart F: Admin – Higher Education Hospitals, and Other Non Profit Organizations
- e. 43 CFR Part 17, Subpart A: Nondiscrimination of the Basis of Race, Color, or National Origin
- f. 43 CFR Part 17, Subpart B: Nondiscrimination of the Basis of Handicap
- . 43 CFR Part 17, Subpart C: Nondiscrimination of the Basis of Age
- . 43 CFR Part 18, Lobbying
- . 2 CFR Part 215, (new location for OMB Circular A-110 Uniform Administrative Requirements for Grants and other Agreements with Institutions of Higher Education, Hospitals, and other Non-Profit Organizations.)

--End of General Provisions--

Attachment C

NSDI Cooperative Agreements Program Metadata Training & Outreach Project Interim and Final Project Summary Format

Indicate Agreement Number

Indicate whether **Interim** or **Final Report**

List:

Organization: Name, address, web address.

Project Leader: Name, telephone, email

In writing the report keep in mind the objective of this category for organizations skilled in metadata implementation, and clearinghouse service to assist other organizations by providing training, metadata creation assistance, and clearinghouse or web mapping services. Ideally, sustained on-going processes for data documentation will be established for organizations for documenting (metadata) their geospatial holdings, serving this documentation.

Project Narrative

Summarize the project activities. Include its accomplishments, successes strengths and weaknesses, further challenges, and collaboration activities as appropriate. What are the organizational practices that have developed to support metadata creation and maintenance for the future?

Metadata training and outreach assistance

- List organizations, organizational type and number of individuals receiving metadata training, and outreach assistance as appropriate.
- Indicate the competency of individuals and organizations competent in creating me
- At what level of proficiency or competency are the trainees or training?
- Indicate the number, duration and venue of workshops conducted as appropriate
- Character of workshop and participants e.g. managers, data producers etc.

Status of Metadata Service

- Site names where metadata is served; clearinghouse node or Geospatial One-Stop harvestable web folder.
- Approximately how many metadata entries have resulted from this project?
- Do you need assistance in providing for metadata service to organizations you have assisted?

Next Steps

- Will this project's activities continue in the future?

- What formal or informal organizational relationships established to sustain activities beyond performance period?
- Describe the next phase in your project
- Are there issues in metadata management and service
- Requirements (more technical assistance, software, other?)
- What areas need work?
- What do you anticipate will be the activities of metadata training, outreach, creation and posting (to clearinghouse or other locations) after the project performance period ends?

Feedback on Cooperative Agreements Program

- What are the program strengths and weaknesses?
- Where does the program make a difference?
- Was the assistance you received sufficient or effective?
- What would you recommend doing differently?
- Are there factors that are missing or need to consider that were missed?
- Are there program management concerns that need to be addressed? Time frame?
- If you were to do this again, what would you do differently?

Attachment D

NSDI Cooperative Agreements Program
Implementing Web Services for Framework Data Project
Interim and Final Project Summary Format

Brief documentation of the data and server configuration approach taken is required in a form, with graphics, that can be followed by others for adoption.

Indicate **Agreement Number**

Indicate whether **Interim** or **Final report**

List:

Organization: Name, address, web address

Project Leader: Name, telephone, email
is the geographic extent of the data being served by this project?

Collaborating Organizations: Name, point of contact, address, web address
In writing the report keep in mind the goals of your project under this category: to establish, register, and maintain an operational Web Feature Service for Framework data.

Project Narrative

Summarize the project activities. Include its accomplishments, successes strengths and weaknesses, further challenges, and collaboration activities, as appropriate.

Status of your data management activities

What Framework data theme(s) are being managed for service under this project?
What is the data volume of Framework data being managed for service (number of features, megabytes)?
What Who are the primary organizations providing data for this project?
What hardware and software are being deployed for data management, configuration and WFS service?

Status of Framework Web Feature Service

Has the service been registered with geodata.gov?
Describe your experience and purpose in accessing the data through geodata.gov or dedicated application clients.
Describe any internal or external users and applications that are using this WFS.

Project management

Will this project's activities continue in the future

Describe the next phase in your project

Requirements (more technical assistance, software, other?)

What areas need work?

Feedback on Cooperative Agreements Program

What are the program strengths and weaknesses?

Where does the program make a difference?

Was the assistance you received sufficient or effective?

What would you recommend doing differently?

Are there factors that are missing or need to consider that were missed?

Are there program management concerns that need to be addressed? Time frame?

If you were to do this again, what would you do differently?

Attachment E

NSDI Cooperative Agreements Program Geographic Information Coordination Interim and Final Project Summary Format

Indicate Agreement Number

Indicate whether **Interim** or **Final report**

List:

Organization: Name, address, web address

Project Leader: Name, telephone, email

Collaborating Organizations: Name, point of contact, address, web address

In writing the report keep in mind the goals of your project under this category: the development of new or strengthening of existing multi-organizational collaboration that supports the development and maintenance of shared digital geographic resources, and to foster the establishment of cross-organizational coordinating councils that develop and advance the NSDI within a specific geographic area.

Project Narrative

Summarize the project activities. Include its accomplishments, successes strengths and weaknesses, further challenges, and collaboration activities.

Also describe

- the state of regional coordination, how has it changed as a result of this project
- the regional scope, the types and applications of data covered by this project
- what are the best practices that lead to success and practices you have found that do not
- describe how the collaboration is governing

Next Steps

- Will this project's activities continue in the future
- Describe the next phase in your project
- Requirements (more technical assistance, software, other?)
- What areas need work?

Feedback on Cooperative Agreements Program

- What are the program strengths and weaknesses?
- Where does the program make a difference?
- Was the assistance you received sufficient or effective?
- What would you recommend doing differently?
- Are there factors that are missing or need to consider that were missed?
- Are there program management concerns that need to be addressed? Time frame?
- If you were to do this again, what would you do differently?

Attachment F

NSDI Cooperative Agreements Program Geographic Information Integration and Analysis Technical Report

The goal of this category is to assist organizations and consortia to work with the USGS to develop *The National Map*. Please use this format to develop a brief and succinct interim or final project report, as appropriate.

List:

Cooperative Agreement Number:
Project title:
Project start and end dates:
Lead project organization:
Project Lead:
USGS Mapping State Liaison:
Collaborating organizations (list):
Data themes: (list)

Project Summary

- a. Describe the project; its tasks, highlights, challenges, and accomplishments. What are your approaches to overcoming impediments to participation in *The National Map*? Based on your experience what would you recommend for implementation and development for project success (technical, institutional and organizational)?
- b. Describe the data themes provided through *The National Map*. Are there any use restrictions? Are your map services and data documentation (metadata) registered in The National Map and Geospatial One-Stop? What is the status of maintaining, updating and serving themes of data that are included in *The National Map*? Based on your perspective and project experience describe user requirements for a national level spatial data infrastructure.
- c. Describe the operational capability to maintain and update data through periodic updates of data made available through *The National Map*.
- d. Discuss the issues, difficulties, and challenges (both technical, institutional and organizational) that were encountered. How can the CAP program be improved.
- e. Describe your relationship and issues with the USGS. Has a formal ongoing agreement been established to provide data and web services through *The National Map*? Describe

your plans for follow-on activities. What are the terms and mutual commitment of resources? Please attach copy of written agreement if available.