National Spatial Data Infrastructure
1997 Cooperative Agreements Program

The National Spatial Data Infrastructure (NSDI) Cooperative Agreements Program was established by the Federal Geographic Data Committee (FGDC) to help form partnerships with the non-Federal sector that will assist in the evolution of the NSDI. This program provides funding for cooperative agreements to State and local government agencies, institutions of higher education, and private organizations. The goal is to encourage resource-sharing projects through the use of technology, networking, and more efficient interagency coordination.

For further information, contact the FGDC Secretariat, c/o U.S. Geological Survey, 590 National Center, Reston, Virginia 20192; telephone 703-648-5514; facsimile 703-648-5755; or Internet gdc@usgs.gov.

The 1997 Program

In September 1997, the FGDC completed issuing awards for the fourth year of the program. The thirty-seven cooperative agreements totaled $1,255,000. These awards support the development and implementation of the National Geospatial Data Clearinghouse (NGDC) for finding and accessing geospatial data, the development and promulgation of FGDC-endorsed standards in data collection, documentation, transfer, search and query, the development and creation of a National Geospatial Data Framework, the development and implementation of educational outreach programs to increase awareness and understanding of the NSDI, and the formation of statewide or regional geographic information coordination mechanisms. A brief program summary follows which includes the list of participating agencies and contact information for the project director.

Clearinghouse Statewide Geographic Extent

Colorado Geographic Information Coordinating Committee Metadata Clearinghouse

The Colorado Geographic Information Coordinating Committee and it's collaborators will establish a National Geospatial Data Clearinghouse node on the Internet. This node will provide access to GIS metadata for Colorado municipalities, county, state and federal agencies, universities and citizens.

Collaborating Organizations: *Colorado Geographic Information Coordinating Committee (GICC)* Bureau of Land Management; U.S. EPA, Region 8; Natural Resources Conservation Service; Douglas County Government

Principal Contact: Michael Whatley, GIS Coordinator, Colorado Department of Natural Resources, 1313 Sherman, Room 423, Denver, Colorado 80203; telephone 303-866-2237; fax 303-866-3415; mike.whatley@state.co.us

Cornell University Geospatial Data Clearinghouse Node

The Mann Library and its partners will design, implement, and maintain a National Geospatial Data Clearinghouse node. The clearinghouse will provide enhanced access to metadata and data generated by the collaborating agencies, as well as to resources already available in the Mann Library collection.

Collaborating Organizations: *Cornell University, Mann Library*, USDA-NRCS, Cornell University Agriculture Experiment Station; New York State Department of Environmental Conservation

Principal Contact: Katherine Chiang, Head, Public Services, Mann Library, Cornell University, Ithaca, New York 14853-4301; telephone 607-255-7957; facsimile 607-255-0381; ksc3@cornell.edu

New York State GIS Clearinghouse and Geospatial Metadata Repository

The New York State GIS Clearinghouse project is a public, private, and academic collaborative effort to design, develop, and implement a GIS clearinghouse for New York State. The clearinghouse will include a geospatial metadata repository as well as serve as an overall GIS information resource center. Workshops and training sessions will also be conducted to educate GIS users and data developers in New York State about the NSDI.

Collaborating Organizations: *New York State Office for Technology*; New York State Library; NYS Archives and Records Administration; NYS Dept of Environmental Conservation; NYS Department of Transportation; NYS Office of Real Property Services; Center for Technology in Government, University at Albany

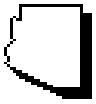
Principal Contact: Bruce Oswald, New York State Office for Technology, State Capitol, Albany, NY 12224; telephone 518-473-5622; fax 518-473-3389; oswaldb@emi.com

Improved Tools for Utilizing Digital Orthophoto Metadata

This project enhances the 1995 clearinghouse effort by, (a) providing a web-based interface for browsing and downloading 1 meter color digital orthophotos (and metadata) developed by the Massachusetts Coastal Zone Management, (b) developing a more general form of the browser and metadata management tools, and (c) providing educational materials and workshops that help a wide audience of state, local and community groups and citizens to use the clearinghouse node. The enhanced ortho browsing and metadata tools will enable (a) appropriate handling of metadata and image browsing for multiple sets of orthos that cover overlapping areas at different times, (b) standardization of URLs and other protocols for handling metadata and imagery when orthos are spread across multiple servers, © dynamic generation of metadata for ortho snippets downloaded during the browsing process, and (d) use of the same basic approach for orthos having different scale and bit depth (e.g., 24-bit interleaved color with 1 meter pixels instead of the 8-bit ½ meter pixels used for the earlier Boston metro ortho project).

Collaborating Organizations: *Massachusetts Institute of Technology*; MA Executive Office of Environmental Affairs, EOEA Data Center and Coastal Zone Management

Principal Contact: Joseph Ferreira, Jr., MIT, Urban Studies and Planning Department, Planning Support Systems Group, Room 9-514, 77 Massachusetts Avenue, Cambridge, MA 02139; telephone 617-253-7410; fax 617-253-3625; jf@mit.edu



Establishing an Arizona Node on the National Geospatial Data Clearinghouse

The project collaborators will create an Arizona Clearinghouse node that will serve metadata and will serve as a model for other organizations to create their own clearinghouse nodes within the State. Training will be conducted, and hands-on assistance provided for agencies to document metadata, and to implement compatible distributed NSDI clearinghouse nodes.

Collaborating Organizations: *Arizona State Land Department*; Arizona Geographic Information Council, Arizona Land Resource Information System, Arizona State University Information Technology Center for Environmental Studies; University of Arizona Advanced Resource Technology Program; AZ Game and Fish Department; Pima County Dept of Transportation Technical Services

Principal Contact: Eugene Trobia, State Cartographer, Arizona State Land Department; Arizona State Cartographer's Office; 1616 West Adams Street, Phoenix, AZ 85007; telephone 602-542-4060; fax 602-542-2600; gtrobia@lnd.state.az.us

Establishing a National Spatial Data Infrastructure Clearinghouse Node for Connecticut

This project will create metadata for the 14,000+ geodata files on the University of Connecticut's Map and Geographic Information Center's (MAGIC) server, and create a process for the continued population of geospatial metadata. This includes hydrographic, wetlands inventory, soils and coastline data, as well as bathymetric and other coastal geodata that will be acquired from the Long Island Sound Archives. This project will be cooperating with the National Undersea Research Center at Avery Point for the documentation of their data holdings. Also, this project will develop an on-line hypertexted tutorial that focuses on using spatial metadata, and helping users understand the utility and quality aspects of a geographic data base by making full use of the descriptive value of metadata.

Collaborating Organizations: *The University of Connecticut*; State of CT Department of Environmental Protection; U.S. Fish and Wildlife Service

Principal Contact: Sandy Schulte, The University of CT, Research Foundation, U-133, 483 Whitney Road Extension, Storrs, CT 06269-1133; telephone 860-486-3337; fax 860-486-5381; sschulte@gris.grad.uconn.edu

Alaska State Geospatial Clearinghouse

This project will establish a National Geospatial Data Clearinghouse node at the Alaska Department of Natural Resources that complements the NSDI clearinghouse site established at the Alaska Field Office of the U.S. Geological Survey. This new node will focus on the documentation and distribution of state and local data. A training program will be established with workshops held to facilitate metadata documentation and data sharing.

Collaborating Organizations: *Alaska Department of Natural Resources*; Alaska Department of Environmental Conservation, Alaska Department of Fish and Game

Principal Contact: Richard McMahon, DNR Land Record Information Section, AK DNR, 3601 C Street, Suite 916, Anchorage, AK 99503; telephone 907-269-8836; fax 907-563-1497; richm@dnr.state.ak.us

Clearinghouse Local/Regional Geographic Extent

Central Coast Joint Data Committee Metadata and Clearinghouse Project

This project will use the Central Coast of California as a testbed for extending the FGDC metadata and clearinghouse models as adapted by the California Geographic Information Association down to the regional and local level. Member agencies of the Central Coast Joint Data Committee and the Association and Monterey Bay Governments will document their legacy data sets and establish an NSDI clearinghouse node at the California State University at Monterey Bay to provide public access to both metadata and the public domain data sets that are available for the region. Additional Internet tools and training sessions will be added to allow on-line analysis and map creation to facilitate access by participating agencies and the public.

Collaborating Organizations: *Association of Monterey Bay Area Governments*; California Coastal commission; California State University at Monterey Bay; the Monterey County Water Resources Agency, the County of Santa Cruz, the Monterey Bay National Marine Sanctuary/NOAA; the California Geographic Information Association; Central Coast Joint Data Committee

Principal Contact: Jim Werle, GIS Analyst, Association of Monterey Bay Area Governments, Regional Association of Governments/Municipal Planning Organization, P.O. Box 809, Marina, CA 93933; telephone 408-883-3750; fax 408-883-3755; ambag@mbay.net

North Carolina Local Government Clearinghouse Implementation Program: Wake County & Municipalities

This project will implement a process at the Center for Geographic Information and Analysis (CGIA) for training and assisting local governments in metadata documentation using the Content Standards for Digital Geospatial Metadata. The resultant data will be served on the World Wide Web through the (CGIA) clearinghouse node or a local government node. Wake County metadata will serve as an example to other counties and municipalities with similar data sets pertaining to land parcels, street centerlines, infrastructure, election districts and land use, among others. A website 'how-to' will be constructed to assist local governments in metadata creation and clearinghouse participation.

Collaborating Organizations: *Center for Geographic Information and Analysis, NC Office of State Planning*; Wake County Geographic Information Services; City of Raleigh GIS; Town of Cary, MIS Department

Principal Contact: Zsolt Nagy, Center for Geographic Information and Analysis, North Carolina Office of State Planning, 115 Hillsborough Street, Raleigh, NC 27603-1721; telephone 919-722-3090; fax 919-715-0725; zsolt@cgia.state.nc.us

San Luis Obispo Geographic Information Consortium Metadata Clearinghouse

The San Luis Obispo Geographic Information Consortium (SLOGIC) will establish a National Geospatial Data Clearinghouse node at the California Polytechnic State University to support collaborative efforts among SLOGIC's 85 member organizations and agencies and other GIS users in San Luis Obispo County, California. Project efforts will also emphasize outreach to GIS users and policy makers by holding three types of formal workshops: (1) workshops to train users on the creation and use of metadata; (2) workshops to train the 'trainers' who will return to their place of work to train end-users; and, (3) workshops for agency and library staff who will be interfacing with the general public.

Collaborating Organizations: *County of San Luis Obispo, Information Services Division;* California Polytechnic State University; Members of the San Luis Obispo Geographic Information Consortium

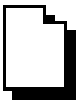
Principal Contact: John M. Wade, Director, Information Services Division, County of San Luis Obispo, County Govt Ctr, Room 400, San Luis Obispo, CA 93408; telephone 805-781-5050; fax 805-781-1222; jwade@co.slo.ca.us

Development of a Multi-organizational Regional Clearinghouse Node for Northeastern Illinois

The objective of this project is to establish a National Geospatial Data Clearinghouse node for the Chicago metropolitan region and to implement the collection of compliant metadata to support this activity. To insure the success and sustainability of the clearinghouse, an educational outreach program will be designed and implemented to educate Chicago area agencies in the Metadata Standard and to assist agencies in developing metadata and making it available on the new clearinghouse node.

Collaborating Organizations: *Northeastern Illinois Planning Commission*, University of Illinois at Chicago

Principal Contact: Nina L. Savar, GIS Manager, Northeastern Illinois Planning Commission, Research Services Department, 222 South Riverside Plaza, Suite 1800, Chicago, IL 60606; telephone 312-454-0400



; fax 312-454-0411; nsavar@nipc.org

Wasatch Front Growth Planning Data Clearinghouse and Education Project

This project encompasses three major objectives based within the 7-County Wasatch Front Region: (a) expanding the Utah National Geospatial Data Clearinghouse node to include existing land use/land cover, zoning, population & demographic and traffic analysis zone data; (b) developing standards and metadata for comprehensive, integrated data layers for inclusion in the clearinghouse to support regional growth modeling efforts; and, (c) implementing an educational outreach program to explain the growth planning information available through the Clearinghouse and the importance of GIS technology, data sharing, and data documentation to support integrated regional planning.

Collaborating Organizations: *State of Utah, Governor's Office of Planning and Budget*; Utah Division of Information Technology Services; Utah Department of Environmental Quality, Utah Department of Natural Resources; Utah Department of Workforce Services; Mountainland Association of Governments; Wasatch Front Regional Council; Davis County, Morgan County, Saltlake County, Summit county, Tooele County, Utah County Public Works, Wasatch County, Weber County; Coalition for Utah's Future; State GIS Advisory Committee; QGET GIS Working Group

Principal Contact: Natalie Gochnour, State of Utah, Governor's Office of Planning and Budget, 116 State Capital, Salt Lake City, UT 84114; telephone 801-538-1544; fax 801-538-1547; ngochnou@state.ut.us

Eastern Sierra Geospatial Data Clearinghouse and Metadata Outreach Program

This project will establish a National Geospatial Data Clearinghouse node at the University of California's White Mountain Research Station and provide training workshops to local agency representatives to assist in the development of compliant metadata. To encourage consistent data set development for the entire region, participating agencies will be provided the opportunity to serve their GIS datasets and associated metadata through the Clearinghouse.

Collaborating Organizations: *University of California White Mountain Research Station*; Eastern Sierra Land Information Systems Network; Environmental Systems Research Institute, Inc.

Principal Contact: Susan Szewczak, University of California, White Mountain Research Station, 3000 East Line Street, Bishop, CA 93514; telephone 760-872-4214; fax 760-873-7830; susan@wmrs.edu

Clearinghouse
Biological and/or Coastal Emphasis

Establishing a National Geospatial Clearinghouse Node at the Florida Marine Research Institute

This effort will build upon ongoing Florida Spatial Digital Library System (FSDLS) software development to meet the Florida Marine Research Institute's (FMRI) need to document metadata for biological, chemical, and physical databases. The enhanced FSDLS software tools will be used to systematically catalog all of FMRI's relevant data sets and create metadata in accordance with the Content Standards for Digital Geospatial Metadata. This project will result in institutionalizing the process of creating and maintaining metadata for all of the Institute's data holdings, and establishing FMRI as a operational node of the National Geospatial Data Clearinghouse.

Collaborating Organizations: *Florida Department of Environmental Protection, Florida Marine Research Institute*; Florida Department of Environmental Protection, Bureau of Information Systems; Florida Geographic Information Board; The Florida State University; U.S. EPA

Principal Contact: Michelle Piazza, Florida Department of Environmental Protection, Florida Marine Research Institute, Coastal and Marine Resource Assessment, 100 8th Avenue SE, St. Petersburg, Florida 33709; telephone 813-896-8626; fax 813-893-1679; mpiazza@fmri.usf.edu

A National Geospatial Data Clearinghouse of Biodiversity Data and Policy Information of the Southwest

The Institute of Public Law's Center for Wildlife Law (CWL), at the University of New Mexico's School of Law will establish a National Geospatial Data Clearinghouse of state biodiversity laws and policies and the systematics, ecology, and life history of mammals of the Southwest. Project collaborators will adapt the existing data collections of the CWL and the Museum of Southwestern Biology to the NBII standards for biological data, and provide on-line search and retrieval of metadata and datasets of these collections. This will enable users to access, for the first time ever, not only the biological information of a species of interest within a specific location, but also the laws and policies that have an impact on that species.

Collaborating Organizations: *University of New Mexico Institute of Public Law;* University of New Mexico Department of Biology; Defenders of Wildlife; U.S. Fish and Wildlife Service, Region 2; Geraldine R. Dodge Foundation

Principal Contact: Ruth Musgrave, Project Director, University of New Mexico, Institute of Public Law, Center for Wildlife Law, 1117 Stanford NE, Albuquerque, NM 87131-1446; telephone 505-277-5006; fax 505-277-7064; musgrave@unm.edu

Washington State Fish and Wildlife Geographic Data Clearinghouse

This project will create a fish and wildlife data clearinghouse node for the State of Washington. Two basic data types will be included in the clearinghouse: fish and wildlife species occurrence data, and GAP statewide vegetation mapping. Metadata will be developed to conform to the Digital Geospatial Metadata Content Standard and will be merged into the existing Washington State Geospatial Metadata Clearinghouse.

Collaborating Organizations: *Washington Department of Fish and Wildlife*; USGS, Biological Resources Division; University of Washington

Principal Contact: James R. Eby, Washington Department of Fish and Wildlife, Wildlife Management Program, Wildlife Resource Data Systems, 600 Capitol Way North, Olympia, WA 98501-1091; telephone 360-902-2512; fax 360-902-2162; ebyjre@dfw.wa.gov

Enhancement of a National Geospatial Data Clearinghouse Node for Biological Resource Geospatial Data

This collaborative effort will develop further the University of Kansas GEMLab/KEIL's National Geospatial Data Clearinghouse node as part of the prototype Inter-American Geospatial Data Network. Biological resource metadata will be collected for two Mesoamerican regions: the Oaxaca region of southern Mexico, and the Brunca Region of Costa Rica. To expand clearinghouse participation and metadata preparation, a series of workshops will be held to provide detailed hands-on training to representatives of institutions holding additional geospatial data resources for the two focal geographic regions, and for both Costa Rica and Mexico at large.

Collaborating Organizations: University of Kansas Center for Research, Inc.; USGS EROS Data Center; Organization for Tropical Studies

Principal Contact: Paul M. Rich, GEMLab, University of Kansas, Center for Research, Inc., Kansas Biological Survey, Nichols Hall, 2291 Irving Hall Road, Lawrence, KS 66045; telephone 913-864-7769; fax 913-864-7789; prich@oz.kbs.ukans.edu

Educational Outreach

Integrated K-12 GIS: The Development of a Prototype Application for Building an Educational GIS

This project will develop a prototypical approach for K-12 students to build a GIS of their local community through the integration of various geospatial data sources. Students will (1) acquire existing geospatial data of their local region through the use of the NSDI network-based clearinghouse; (2) build their own locally-generated environmental geospatial datasets within the context of a widely used environmental curriculum and according to the NSDI standards for data collection, documentation, access and transfer; (3) integrate the existing data with the new data to form a fully comprehensive GIS of their region to be used to enhance the analysis of critical environmental systems in their communities; and, (4) facilitate the creation of an environmental geospatial data NSDI clearinghouse node for other students to share worldwide. The project deliverables will be a modified GIS software environment for students to build their GIS projects, and a curriculum extension workbook designed to facilitate the development of an environmental studies project-based GIS for K-12 students.

Collaborating Organizations: *Berkeley Geo-Research Group*; Aquatic Outreach Institute; San Mateo County Coastside Schools Creek Monitoring/Education Project; University of California, Berkeley

Principal Contact: Susan Lindell Radke, Berkeley Geo-Research Group, 51 Crest View Drive, Orinda, CA 94563; telephone 510-254-0951; fax 510-254-0955; slradke@bgrg.com

A Guide to the Use of NSDI Resources for Geography Teachers

The "Guide to NSDI Resources" for geography teachers will provide information to help social studies and earth science instructors, and others, be more productive in exploiting Internet accessible resources for particular teaching objectives. Targeted to a specific audience, the guide will demonstrate how teachers can search for, acquire, and prepare geospatial data for a specific curriculum need. It will do this through five examples, covering different geographic scales from nation to school neighborhood, a great thematic range of data, and varied media and levels of government sources of geospatial data and metadata. The guidebook will be available via the WWW, CD-ROM, and in printed form.

Collaborating Organizations: *University of Maryland, Department of Geography*; The National Council for Geographic Education

Principal Contact: Dr. Derek Thompson, Department of Geography, University of Maryland, College Park, Maryland 29742; telephone 301-405-4063; fax 301-314-9299; dt11@umail.umd.edu

Educational Outreach to Introduce and Promote the Use of the Alabama Node of the National Geospatial Data Clearinghouse

The collaborators will develop an educational outreach program directed at several specific groups of potential users of the Alabama National Geospatial Data Clearinghouse node. A series of six workshops will be held to (a) either introduce or elaborate on, as appropriate to the audience, the concepts of GIS and geospatial data, (b) present the concept of FGDC-compliant metadata documentation and promote its development, © acquaint participants with the NSDI and Clearinghouse concepts, (d) provide training in using the Alabama clearinghouse node to search for and retrieve metadata records, and, (e) instruct in the retrieval of geospatial data sets through the Clearinghouse and use of these data in GIS applications.

Collaborating Organizations: *Geological Survey of Alabama*; State Oil and Gas Board of Alabama

Principal Contact: Berry H. Tew, Jr., Geological Survey of Alabama, 420 Hackberry Lane, P.O. Box O, Tuscaloosa, AL 35486-9780; telephone 205-349-2852; fax 205-349-2861; nick@sand.gsa.tuscaloosa.al.us

An Education and Outreach Initiative for Illinois: Local Ecosystem Partnerships Meet the NSDI

The Illinois Department of Natural Resources, in collaboration with 15 Local Ecosystem Partnerships, will embark on the development and implementation of a GIS component within a new, innovative Ecosystems Partnership Program. This project will result in education, implementation and training materials; ten workshops; and seminars at the Second Annual Ecosystems Partnership conference on NSDI concepts (metadata, clearinghouse and framework). Emphasis will be placed on the documentation of all new data generated by the Partnerships, to be in compliance with the Content Standards for Geospatial Metadata. The development of NSDI materials designed to provide the broad perspective, and tailored to a very large untapped audience (public citizens, landowners, and non-governmental organizations, local and regional organizations, students, and educators), will promote the growth of the NSDI in the coordination and collection of bio-ecological information.

Collaborating Organizations: *Illinois Department of Natural Resources*; there are 15 Ecosystem Partnerships involving over 26 organizations/agencies affiliates, and hundreds of participants

Principal Contact: Sheryl Oliver, Illinois Department of Natural Resources, Office of Realty and Environmental Planning, 524 South Second, Springfield, IL 64704; telephone 217-785-8586; fax 217-785-8575

Training and Technical Assistance for Creating and Cataloging Metadata

The project will provide hands-on technical assistance to Oklahoma-based public and private organizations for the development and use of metadata compliant with the Content Standards for Digital Geospatial Metadata. Ensuring a thorough understanding of metadata will be accomplished through convening a hands-on workshop at which participants will create metadata with the Instructor's guidance. Follow-up, on-site sessions will be conducted in agencies to provide professional/technical personnel any additional technical assistance they need to inventory and document their geospatial data sets and to share that information through the Oklahoma National Geospatial Data Clearinghouse node. The long-term goal is to create a larger pool of trained metadata experts that can help other organizations in Oklahoma, thereby ensuring the continued growth and use of the Oklahoma clearinghouse.

Collaborating Organizations: *Oklahoma State University*; The Office of the State Geographer, State GIS Council and its 14 state agency members, USGS Oklahoma District

Principal Contact: Jayne Salisbury, Oklahoma State University, 003 Life Sciences East, Stillwater, OK 74078; telephone 405-744-8443; fax 405-744-7673; jsalis@seic.lse.okstate.edu

An Educational Outreach Program for Populating the National Geospatial Clearinghouse Node for the State of Texas

This project promotes the broad adoption and use of existing metadata builder tools to document the geospatial data holdings of the major data custodians in the state of Texas to be in compliance with the Content Standards for Digital Geospatial Metadata, and encourages the State data holders to set up clearinghouse server nodes linked to the Clearinghouse node at the Texas Natural Resources Information System. It provides hands-on instruction and technical assistance for agencies in the use of the metadata tools and installing the necessary Z-Server software to enable them to connect to the already established Clearinghouse node at the Texas Natural Resources Information System. This project will result in a standardized mechanism for Texas government agencies to report their data through the Clearinghouse, and establishes a state NSDI certification program that offers incentives and recognition to agencies that participate in the program.

Collaborating Organizations: *Texas Water Development Board*; Texas Natural Resources Information System; Texas Geographic Information Council

Principal Contact: Scott Grant, The Texas Water Development Board, The Texas Natural Resources Information System, P.O. Box 13231, Austin, Texas 78711; telephone 512-463-7957; fax 512-463-7274; sgrant@tnris.state.tx.us

Extending NSDI Metadata, Clearinghouse, and Framework Objective in the Four Corners Region

This project will serve as an educational aide to extend and promote awareness and adoption of the NSDI metadata, clearinghouse, and framework concepts in Arizona, Colorado, and New Mexico. A series of six customized workshops, and follow-on technical briefings will be held by the collaborators and presented to GIS communities throughout the region. The goal of the project is to extend FGDC's 'presence' in the region and to accelerate adoption of these NSDI elements.

Collaborating Organizations: *University of New Mexico, Earth Data Analysis Center* Colorado Department of Natural Resources; Arizona Geographic Information Council; NM Geographic Information Council, Inc.

Principal Contact: Amelia Budge, Earth

Data Analysis Center, University of New Mexico, Bandelier West Room 111, Albuquerque, NM 87131-6031; telephone 505-277-3622 ext 231; fax 505-277-3614; abudge@spock.unm.edu

Framework

Adams County, Illinois GIS Cadastral Database Development

This project focuses on the development of high-quality, low-cost cadastral base information. Project collaborators will design and build a user-friendly cadastral standard-compliant database system that will enable Adams County and City of Quincy personnel to begin the task of building the County's parcel base map in accordance with the NSDI Cadastral Standard.

Collaborating Organizations: *Adams County Illinois Highway Department*; City of Quincy Public Works and Planning Departments; Central Illinois Public Service; Ameritech; Adams Telephone Co-op; USDA Natural Resource Conservation Service; Media One; Adams Electrical Co-op

Principal Contact: Dick Klusmeyer, Adams County, Illinois, Adams County Highway Department, 5200 East Broadway, Quincy, IL 62301; telephone 217-223-0614; fax 217-223-9418; wgallahe@showboat.adams.net

Chester County Address Data Metadata Standards Project

This project will develop and implement metadata standards for county parcel address data developed by municipalities within the county. It will explore the FGDC data standards as they pertain to address metadata; derive an address data metadata standard and define the basic elements of this standard that must be maintained in conjunction with address data. The collaborators will establish methodologies for the creation of address metadata that adheres to the FGDC standards.

Collaborating Organizations: *Chester County Assessment Office*; The Township of West Bradford

Principal Contact: Jim Walsh, GIS Data Manager, Chester County Assessment Office, Bureau of Land Records, 235 West Market Street, Suite 200, West Chester, PA 19382-2914; telephone 610-344-6486; fax 610-344-5211; l_walsh@mail.co.chester.pa.us

Transportation Framework Data Maintenance and Standardization in Guildford County, NC

The Guilford County GIS Consortium will use its existing countywide digital street centerline dataset to implement Geospatial Data Framework principles for the transportation data theme. FGDC Framework concepts will be assessed for their technical, operational and business feasibility as applied to real-world multi-departmental application needs.

Collaborating Organizations: *Guilford County, North Carolina*; City of Greensboro; City of High Point

Principal Contact: Derrick D. Davis, Guilford County, NC, Geographic Information Systems Department, 201 South Eugene Street, Greensboro, NC 27402; telephone 910-373-7583; fax 910-333-6988

Refining and Promulgating Spatial Transportation Data Standards to Enhance Data Sharing in the Central Puget Sound Region

This project will help to identify appropriate standards and procedures to evolve existing disparate spatial transportation databases into a distributed integrated database for the central Puget Sound region. Outcomes will include: regional agreement on transportation standards; procedures for evolving from existing databases to a standard approach; personnel trained in use of agreed upon standards; workbook of procedures; and, an integrated regional transportation database.

Collaborating Organizations: *Puget Sound Regional Council*; King County; Pierce County; City of Seattle; Snohomish County; Washington Department of Transportation Association of Washington Cities and Counties; Washington State Department of Transportation

Principal Contact: Greg Cioc, Puget Sound Regional Council, Regional Planning Agency/Metropolitan Planning Organization, 1011 Western Avenue, Suite 500, Seattle, WA 98104; telephone 206-464-6179; fax 206-587-4825; gcioc@psrc.wa.com

The Confusion of Public Land Ownership: A Study of the Cadastral Framework in Fremont and Sublette Counties, WY

This project will investigate the accuracy of land ownership records for data base exchange using the cadastral data content framework. Eight Federal, state and local government agencies have public lands in northwestern Wyoming. Each agency will produce their records of ownership in the study area and use the cadastral data content framework to exchange files for land ownership verification. Framework concepts will be evaluated for their technical, operational and business feasibility as applied to multi-level agency needs for exchanging and using ownership data.

Collaborating Organizations: *University of Wyoming*; Shoshone National Forest; Bridger-Teton National Forest; Wind River BIA Agency; Wyoming BLM State Office; Wyoming Game and Fish Department; Wyoming State Land Office; Sublette County Assessor; Fremont County GIS Coordinator; Wyoming Geographic Information Advisory Council

Principal Contact: William J. Gribb, University of Wyoming, Spatial Data and Visualization Center, Department of Geography and Recreation, Box 3371, 207 A&S Building, Laramie, WY 82071; telephone 307-766-3311; fax 307-766-2697; planning@uwyo.edu

Standards Development and Implementation

Establishing a Digital Library of Geographic Information Standards and Practices

This project combines the efforts of NSGIC, the Southeastern Library Network, and the Florida State University to establish digital library of conventions, practices, procedures, guidelines and standards relevant to users of geospatial data by designing and implementing a digital library containing a catalog of standards that will compliment the FGDC National Geospatial Data Clearinghouse. It will also establish a distributed network of information providers to keep the content of the catalog current.

Collaborating Organizations: *National States Geographic Information Council (NSGIC)*; FL Geographic Information Board, Florida State University, GA GIS Advisory Council, KY Office of GIS MN Office of Strategic and Long Range Planning, MS Automated Resource Information System, NC Office of State Planning, OR State Service Center for GIS, Southeastern Library Network, VA Council for Information Management, WVA Office of the State GIS

Principal Contact: David Stage, National States Geographic Information Council, 45 Lyme Road, Suite 304, Hanover, NH 03755; telephone 904-488-7986; fax 904-488-9837; staged@dms.state.fl.us

Rural Water System GIS Standards

This project will result in the development of GIS metadata elements that addresses the needs of rural water utilities. Using as-built drawings and facility records, system attributes (ex. pipelines, reservoirs, pump stations) will be labeled and integrated into a GIS platform, which conforms to Content Standards for Digital Geospatial Metadata. Effort will also demonstrate the integration of the rural water system data elements with other geospatial data sets, including the DOT road track files; and, include the preparation of a GIS implementation guide for rural water utilities.

Collaborating Organizations: *Planning and Development District III (regional council of local governments), South Dakota*; B-Y Water District, South Dakota Department of Transportation.

Principal Contact: Scott Henderson, Planner III, and Jason Morrison, GIS Analyst, Planning and Development District III, Yankton County Courthouse, P.O. 687, 3rd and Broadway, Yankton, SD 57078; telephone 605-665-4408; fax 605-665-0303; distiii@willinet.net

Creating a Cultural Resources Metadata Standard for the Western United States

Eight western states are collaborating in an effort to create a metadata standard for cultural resources spatial information associated with the Content Standard for Digital Geospatial Metadata. Cultural resources refers to the broad categories of properties, places, and things that pertain to historical and prehistoric events.

Collaborating Organizations: *Wyoming State Historic Preservation Office*; Earth Data Analysis Center, University of NM; Santa Fe Office of Cultural Affairs Historic Preservation Division; CO Historical Society; The University of Montana, Department of Anthropology; The University of Arizona, Department of Archaeology Division; Department of Museums, Library and Arts, NV State Museum; ID State Historical Society; UT Division of State History

Principal Contact: Mary Hopkins, Wyoming State Historic Preservation Office, Wyoming Cultural Records Office, P.O. Box 3431, University Station, Laramie, WY 82071; telephone 307-776-5324; fax 307-766-4262; hopkins@uwyo.edu

Coordinating Groups

Regional Data Sharing Forum

The scope of the effort is to identify barriers that exist to region wide collaborative GIS data sharing in the Denver region, so that the 49 member governments of the Denver Regional Council of Governments can pursue NSDI goals that includes the creation of a region-wide data clearinghouse.

Collaborating Organizations: *Denver Regional Council of Governments*; Colorado State Department of Local Affairs

Principal Contact: William Broderick, Denver Regional Council of Governments, Regional Agency, 2480 West 26th Avenue, Suite 200B, Denver, CO 80211-5580; telephone 303-480-6785; fax 303-480-6790; drcog@iex.net

Establishment of a Geographic Information Coordinating Body in Hawaii

This effort is aimed at the formal establishment and recognition of a Hawaii Geographic Information Coordinating Committee.

Collaborating Organizations: *State of Hawaii Office of Planning*; U.S. Fish and Wildlife Service, Pacific Islands Ecoregion; National Park Service, Pacific Island System Support Office

Principal Contact: Craig Tasaka, Hawaii Office of Planning, Planning and Geographic Information System Program, P.O. Box 2359, Honolulu, HI 96804; telephone 808-587-2894; fax 808-587-2824; ctasaka@dbedt.hawaii.gov

Nevada Geographic Information Council Development Project

The end goal of this project is the implementation of a permanent digital geographic data coordination body for Nevada.

Collaborating Organizations: *Nevada State Mapping Advisory Committee*; Washoe County Planning; USGS Water Resources Division; U.S. Bureau of Land Management; Natural Resources Conservation Service

Principal Contact: Jon Price, Director/State Geologist, Nevada Bureau of Mines and Geology, University of Nevada - Reno, MS 178, Reno, NV 89557-0088; telephone 702-784-6691 ext 126; fax 702-784-1709; jprice@nbmg.unr.edu

Formation and Development of the Allegheny GIS Consortium

The project goal is the development of an identified source for GIS information and an effective forum for GIS communication in western Pennsylvania.

Collaborating Organizations: *W.E.C. Engineers, Inc.*; Aerial Data Reduction Associates, Inc.; Duquesne Light Company; University of Pittsburgh; Carnegie Mellon University

Principal Contact: Dr. Robert D. Regan, W.E.C. Engineers, Inc., 1370 Washington Pike, Suite 304, Bridgeville, PA 15017; telephone 412-257-8774; fax 412-257-8815; wecgis@usaor.com

Conducting Activities to Strengthen Statewide Geographic Information Coordination Mechanisms in Iowa

The goal of this effort is to formalize the Iowa Geographic Information Council within state government, and establish an effective data sharing environment among participating organizations that fosters long term commitment to and growth of the Council.

Collaborating Organizations: *Iowa Geographic Information Council*; Inter-governmental Information Technology and Telecommunications Committee; Iowa Department of Information Technology Services

Principal Contact: Kevin Kane, Iowa Geographic Information Council, Iowa State University, 215 Durham, Ames, IA 50010; telephone 515-294-0526; fax 515-294-1717; kkane@iastate.edu

The 1998 Program

An explanation of the 1998 NSDI Cooperative Agreements Program and application materials will be available this fall. The open period for proposals will be 90 days. As with the previous programs, proposals must involve two or more organizations with participants providing matching funds or resources. Formal announcement of the program will be published in the Commerce Business Daily and the Federal Register, and also will be available through the FGDC homepage at http://www.fgdc.gov.