



1998 National Spatial Data Infrastructure Funding Programs

The National Spatial Data Infrastructure (NSDI) Funding Programs were established by the Federal Geographic Data Committee (FGDC) to help form partnerships among organizations that will assist in the evolution of the NSDI. The three programs (Cooperative Agreements Program (CAP), Benefits, and Framework Demonstration Projects Program (FDPP)) provide funding for cooperative agreements to federal, state, and local government agencies, institutions of higher education, private and non-profit 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 703-648-4270; or E-mail gdc@usgs.gov.

The 1999 Program

An explanation of the 1999 NSDI Funding Programs and application materials will be available in the Fall of 1998. 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>.

Alabama

Statewide GIS/Geospatial Symposium to Promote the Development of a Coordinating Agency and the Alabama Spatial Data Infrastructure

This project will support a symposium in Alabama to address the importance of the development of the Alabama Spatial Data Infrastructure. The symposium will bring together all interested groups and organizations in the state to learn about and discuss the challenges in creating a high-quality, accurate public-domain digital geospatial framework for Alabama in a coordinated fashion, and will develop a viable plan of action for GIS coordination and framework development.

CAP--Coordinating Groups

Principal: Berry H. Tew, Geological Survey of Alabama, P.O. Box O; 420 Hackberry Lane, Tuscaloosa, Alabama 35486-9780; (P)205-349-2852; (F)205-349-2861; Email: ntew@sand.gsa.tuscaloosa.al.us; Web: <http://www.gsa.tuscaloosa.al.us>

Partner: State Oil and Gas Board of Alabama

Alaska

Alaska Transportation Mapping Coordination Project Linking State and Local Programs to Build the NSDI

The purpose of this project is to better organize Alaska's state and local mapping authorities to address the transportation framework layer. The participants seek to provide local community input to the United States Geological Survey (USGS) on the development a transportation layer which is now an active project under the national A-16 program. The NSDI project will build relationships among state agencies and boroughs which can address technical issues of incorporating local data to the framework data set, evaluate transportation updates using differential GPS technology, seek technical solutions for creating a standard attribute listing, and to promote technology transfer of technical skills and data sharing between agencies. *FDPP Transportation*

Principal: Richard McMahon, Alaska Department of Natural Resources, Division of Support Services, Land Records Information Section 3601 C Street, Suite 916, Anchorage, Alaska 99503; (P)907-269-8836; (F)907-563-1497; Email: Richard_McMahon@dnr.state.ak; Web: <http://www.dnr.state.ak.us>

Partner: AK-DOT & Public Facilities, Fairbanks North Star Borough, Kenai Peninsula Borough, Kodiak Island Borough, Ketchikan Gateway Borough, Municipality of Anchorage, City & Borough of Juneau

California

Implementation Strategy and Action Plan for the Migration to FGDC-endorsed National Standards for Geospatial Data.

This project develops a plan to migrate the existing Municipality of Anchorage (MoA) Geographic Information System to conform to National Spatial Data Infrastructure and the Spatial Data Transfer Standards. This migration study will identify the impacts on resources, budgeting constraints, and outline the migration path and schedule which will provide a common theme for documenting the terminology and definitions of the MoA GIS program in conformance with a national standard for digital geospatial data. *FDPP Elevation, Hydrography, and Cadastral*

Principal: Aaron J. Ramirez, Municipality of Anchorage, Anchorage Water & Wastewater Utility Engineering Division (GIS Section), 3000 Arctic Boulevard, Anchorage, Alaska 99503; (P)907-564-2765; (F)907-562-0824;

Email: ramirezaj@ci.anchorage.ak.us;

Web: <http://www.ci.anchorage.ak.us>

Partners: Municipality of Anchorage/Management Information Systems Department Geographic Information Systems Division, Municipality of Anchorage/Department of Public Works Building Safety Division, Municipality of Anchorage/Community Planning and Development research and Technical Services, Municipality of Anchorage, Finance Department Property Appraisal Division, GeoNorth Inc.

Arkansas

Development and Implementation of a National Geospatial Data Clearinghouse Node for Arkansas

This project will result in a searchable, FGDC compliant NSDI Clearinghouse node at the University of Arkansas, Fayetteville to support both new and existing users of the geospatial data archive which has been established at the Center for Advanced Spatial Technologies (CAST). As part of this initiative, collaborators will construct metadata for statewide data themes and a number of county-based and local themes for framework data (geodetic control, orthoimagery, elevation, transportation, hydrography, and governmental units). All clearinghouse-related metadata will be maintained in an enterprise-class data warehouse accessible via broad bandwidth connections from around the state. *CAP — Clearinghouse*

Principal: James A. Farley, Center for Advanced Spatial Technologies, University of Arkansas, Ozark Hall, Room 12, Fayetteville, Arkansas 72701; (P)501-575-6159; (F)501-575-5218; Email: jim@cast.uark.edu;

Web: <http://www.cast.uark.edu>

Partner: Arkansas Department of Informational Services

Conduct a California Channel Islands Group GIS Methodologies and Standardized Data Sharing Conference

Project collaborators will organize a conference to be integrated within the 1998 California Channel Islands Symposium. Conference will focus on standardization of datasets, data sharing, data distribution, and interagency cooperation between Federal, State, Local, and private agencies working within the coastal environment of the Southern California Bight. Results will be incorporated into the symposium proceedings, and dataset information will be collected and made available on the World Wide Web. A post-symposium strategy meeting will be held to analyze results and provide a forum for future collaborations, as well as continue work on the long-term goal of a central, standardized dataset accessible to all agencies working within the Southern California Bight. *CAP — Coordinating Groups*

Principal: Ben Waltenberger, Channel Islands National Marine Sanctuary, National Oceanic and Atmospheric Administration, 113 Harbor Way, Santa Barbara, CA 93109; (P)805-966-7107; (F)805-568-1582;

Email: bwaltenberger@cinms.nos.noaa.gov

Web: <http://www.cinms.nos.noaa.gov>

Partners: National Park Service, Minerals Management Service

Acquisition, Coordination, and Dissemination of PLSS Geographic Data for California's Central Valley

This project is designed to greatly enhance the capability of the BLM in the California to generate coordinate data. Once this data is generated it will then be used by all central valley entities as a base layer in geographic information systems that facilitate the resolution of critical environmental and resource-based questions. The BLM will partner with the Geomatics Engineering Program at the California State University, Fresno and local valley based levels of government to implement new innovative mechanisms for generation of coordinate data. These techniques involve conducting an inventory of Public Land Survey corner monument coordinated and associated attribute data available at various private, local, state, and federal agencies. Standardization efforts will use NSDI standards. *FDPP — Cadastral, Geodetic, and Governmental Units*

Principal: Kenneth E. Sullivan Jr., U.S. Dept. of the Interior, Bureau of Land Management, 2135 Butano Dr., Sacramento, California 95825; (P)916-978-4345; (F)916-978-4327; Email: ksulliva@ca.blm.gov; Web: <http://www.ca.blm.gov>

Partners: Geomatics Engineering Program/Dept. of CSEC, Counties of Fresno, Kings, Madera, Mariposa, Merced, and Tulare

Teale Hydrography and EPA River Reach File 3-Alpha Cross-Reference to the NHD

In cooperation with participating federal and state agencies, we propose to demonstrate and evaluate the ability to cross-reference information tied to the existing, official California hydrography data set (Teale Hydrography) to the new National Hydrography Data set (NHD). The goal is to test, verify, and recommend enhancements to these cross-referencing methods and seek, together with our collaborators, to improve the transfer of reach-code information from the California RF3-alpha and Teale hydrography datasets to the NHD. Most researchers and agency programs working on federal, state, and local projects use the Teale Hydrography layer as a base to which to tie their attribute information for rivers, streams, and shorelines. An agency's ability to retain this legacy data and migrate forward to the NHD base with minimal loss of information is essential. Results and recommendations emerging from this project will facilitate local, State, and Federal agencies in other states to migrate to the NHD base. *FDPP —*

Hydrography

Principal: Dr. James F. Quinn, University of California, Teale Data Center, 1 Shields Avenue, 410 Mark Hall, Davis, California 95616; (P)530-752-8027; (F)530-752-3350; Email: jfquinn@ucdavis.edu; Web: <http://ice.ucdavis.edu>

Partners: California Department of Fish and Game, Stephen P. Teale Data Center, California Department of Forestry and Fire Protection, U.S. Environmental Protection Agency, Region IX, U.S. Environmental Protection Agency, U.S. Geological Survey

The MarinMap and MIDAS Spatial Data Warehouse

During the past several years, the Marin Community Foundation (a private, non-profit corporation), in cooperation with Pacific Bell Telephone, Marin County government, private non-profit organizations, local schools, libraries and governments has created an extensive community information system. This system is named MIDAS for "Marin Information and Data Access System". With this NSDI grant, MarinMap agencies and the Marin Community Foundation will; 1) add a spatial data warehouse 2) document the metadata on an established clearinghouse node, and 3) produce the materials for a NSDI education and data sharing program. MarinMap agencies will publish internet accessible data and maps of public information available from local governments and special districts. *FDPP Transportation, Orthoimagery, Hydrography, Governmental Units, Cadastral*

Principal: Linda Christman, County of Marin, 3501 Civic Center Drive, Suite 331, San Rafael, California 94903; (P)415-499-6286; (F)415-507-4104; Email: lchrist@marin.org

Partners: Marin Community Foundation, City of San Rafael, Marin Municipal Water District, City of Larkspur, City of Novato

Colorado and Utah

Southwestern Colorado NSDI Cooperative Partnership Program to Promote Data Sharing

State and federal partners in Utah will work with the Southwestern Colorado Data Center (SDSC) in Western Colorado to increase the awareness of and the implementation of metadata practices. Specifically the project will: 1) bring SCDC's metadata into compliance with the FGDC Metadata Standard, and serve it to the public on our website, 2) create an Internet web browser-based tool, and integrate it with our web browser-based map viewer for point and click access to metadata, 3) work with the State of Utah Automated Geographic Reference Center and the Canyon Country Partnership to train selected local agencies, which currently create spatial data, in metadata specifics, and 4) develop and document a curricula for high school students, currently knowledgeable in geospatial data usage, in introductory metadata concepts. *CAP*

Clearinghouse-Local/Regional

Principal: Bill Ferguson, Southwestern Colorado Data Center, Inc, 4433 County Road 23, Ridgeway, Colorado 81432; (P)970-626-3645; (F)970-626-3613; Email: billf@landuse.com; Web: <http://www.landuse.com>

Partners: State of Utah, Canyon Country Partnership, Grand County Utah, Delta County Colorado, San Miguel County, Ouray County Colorado, City of Montrose Colorado, Mesa County Colorado, BLM Montrose District Office, Manti-LaSal National Forest Utah, Colorado Natural Heritage Program, Valley Land Conservancy

Delaware

Delaware Spatial Data Infrastructure: Implementation Begins

In this project, a National Geospatial Data Clearinghouse node at the University of Delaware, will be advanced through the participation of numerous state and local agencies into a resource that references and assists in the distribution of over 50 framework data sets, and identifies information efforts and data resources throughout the state of Delaware. The project includes several educational outreach efforts to increase community involvement and use of the clearinghouse. Investigations will also be conducted as to how the clearinghouse can support land use policy initiatives in the State. The collaborators will further develop Internet-based documentation tools and research how the emergence of Internet-based GIS relates to and can be supported by the Clearinghouse. *CAP Clearinghouse & Educational*

Principal: David P. Racca, School of Urban Affairs and Public Policy, University of Delaware, Graham Hall, Academy Street, Newark, Delaware 19716-7330; (P)302-831-1698; (F)302-831-3587; Email: dracca@udel.edu

Partners: Office of Information Systems, Delaware Department of Natural Resources and Environmental Control, Division of Soil and Water Conservation, Division of Parks and Recreation, Division of Air and Waste Management, Division of Water Resources, Delaware Department of Transportation, Delaware Economic Development Office, Delaware Emergency Management Agency, Delaware Health and Social Services, State of Delaware Department of Labor, Delaware State Housing Authority, State of Delaware Historic Preservation Office, State of Delaware Department of Agriculture, Delaware Geological Survey, New Castle County Department of Land Use, Kent County Department of Planning, Water Resources Agency for New Castle County, City of Newark, Center for Remote Sensing, Center for Historic Architecture and Design, Geography Department

Iowa

Managing the Mississippi with Spatial Data: You Be the Lockmaster

"You Be the Lockmaster" is a cooperative partnership to increase citizen awareness of the role of hydrologic spatial data to manage the Mississippi River. The public will use geographic data to operate an animated computer model of the river at the Mississippi River Museum and at workshops. This partnership will overcome a significant barrier to management of the river--public awareness. The project will measure increase in access and growth in knowledge about spatial data on the Mississippi, and awareness and attitudes of the public toward the collection and analysis of these data.

Benefits — Education

Principal: Jerry Enzler, Mississippi River Museum, P.O. Box 266, Dubuque, Iowa 52004-0266; (P)319-557-9545; (F)319-583-1241

Partners: Environmental Management Technical Center, USACE, IA Department of Natural Resources, Loras College, Clarke College, University of Dubuque, Minnesota Science Center, Dubuque Community School System, Midwest Area River Coalition, Mississippi River Parkway Commission

Kentucky

The Transportation Framework in Kentucky--Where the NSDI Meets the Road

This project is a collaborative effort among state, local and federal agencies to (1) evaluate applicability of transportation framework standards, (2) resolve technical issues and define the data exchange procedures and protocols involved in utilizing high resolution locally created street centerline data in a more generalized statewide transportation database; (3) make state basemap data available to the NSDI framework in a format which meets accepted standards; and (4) define and

articulate the necessary interagency agreements to ensure ongoing data maintenance and exchange. *FDPP — Transportation*

Principal: Susan Carson Lambert, Kentucky Office of Geographic Information Systems, 1024 Capital Center Drive, Suite 305, Frankfort, Kentucky 40601; (P)502-573-1450; (F)502-573-1458; Email: slambert@msdlouky.org;

Web: <http://www.state.ky.us/agencies/finance/depts/ogis/gisdept.htm>

Partners: Louisville and Jefferson County Information Consortium, Kentucky Transportation Cabinet, U.S. Geological Survey

Louisiana

Illinois, Mississippi, Kentucky, Tennessee, Arkansas, and Missouri

The Mississippi Alluvial Plain Ecoregion Clearinghouse Node of the National Spatial Data Infrastructure

This project will promote sharing of geospatial data by establishing the Mississippi Alluvial Plain Ecoregion NSDI clearinghouse node at the Louisiana Department of Environmental Quality (LDEQ). The Mississippi Alluvial Plain spans 24 million acres in seven states. The online datasets will be biological in emphasis and formatted for consistency with FGDC content standards and be compatible with other GIS programs in the region. This node will provide access to biological geospatial data and FGDC-compliant metadata development by The Nature Conservancy, the LDEQ GIS Center, and partners comprising the Lower Mississippi Valley GIS Steering Committee. The datasets will complement data under development by the Natural Heritage Network and National GAP Analysis Program. *CAP — Clearinghouse Local/Regional*

Principal: Mark Swan, The Nature Conservancy, P.O. Box 4125, Baton Rouge, Louisiana 70821; (P)504-338-1040; (F)504-338-0103; Email: mswan@tnc.org

Partners: Louisiana Department of Environmental Quality, Lower Mississippi Valley GIS

GIS Data Certification: Issues and Implementation Strategies

The primary goal of the project is to provide framework participants a realistic overview of geospatial data certification that will enable them to determine the need, feasibility, and effort required to develop and maintain such a program. Louisiana State University (LSU) and the Louisiana GIS Council (LGISC) will identify and review the issues and implementation strategies associated with the development of a GIS data certification program. Baseline information about existing data certification programs and data producer perceptions and concerns regarding data certification will be collected and organized into a set of key

issue statements. The issues statements will serve as the program requirements for formulation of alternative implementation strategies.

FDPP — All data themes

Principal: Lynda Wayne, Louisiana Geographic Information Center, Center for Coastal, Energy, and Environmental Resources, Louisiana State University, E302 Howe-Russell GeoSciences Building, Baton Rouge, Louisiana 70803; (P)225-388-3479; (F)225-388-5328; Email: lwayne@lsu.edu; Web: <http://atlas.lsu.edu/>

Partners: The Louisiana Geographic Information Systems Council (LGISC)

Maine

Spatial Data Institutions and Community Building in Coastal Maine

This project will explore the needs for geographically referenced data and other related spatial information at the community level in coastal Maine. A series of structured interviews will be conducted with participants from organizations that are current or potential geospatial information users. The core questions in this study address, how are GIS and related technologies now being used toward community problem solving, and how well are local organizations able to cooperate in use of spatial information in realizing their common goals. An assessment of appropriate directions for information sharing across organizations and suggestions for the most appropriate means toward this goal are among the expected outcomes from this project. *CAP Coordinating Groups*

Principal: Prof. Harlan J. Onsrud, Spatial Information Science and Engineering, University of Maine, 5711 Boardman Hall Rm.348, Orono, Maine 04469-5711; (P)207-581-2175; (F)207-581-2206; Email: onsrud@spatial.maine.edu; Web: <http://www.spatial.maine.edu>

Partners: Cobscook Bay Resource Center, College of the Atlantic GIS Lab

Using the NSDI Framework for Rural Economic Development

The project will evaluate the benefits of using NSDI Framework data for rural economic development. Business development models will be created from NSDI framework data by the Piscataquis Economic Development Council, a multi-sector partnership in Piscataquis County, Maine.

Benefits -- Rural Economic Development

Principal: John Holden, Eastern Maine Development Corporation, P.O. Box 2579, Bangor, Maine 04402-2579; (P)207-942-6389; (F)207-942-3548; Email: jholden@emdc.org; Web: <http://www.emdc.org>

Partners: University of Maine, Maine Office of GIS

Michigan

Establishing a National Geospatial Data Clearinghouse Node for Michigan

The Michigan Geographic Data Clearinghouse Node is a project that establishes a searchable metadata database and a NSDI clearinghouse node complying with FGDC-endorsed standards and protocols. This node will provide both metadata and spatial data developed by the Michigan Geographic Framework Program, IMAGIN (an organization comprised of agencies that produce, collect, analyze, and distribute geospatial information in Michigan), and other geospatial data producers in the state. *CAP Clearinghouse*

Principal: Rob Surber, Michigan Information Center, Michigan Department of Management and Budget, 320 S. Walnut St/P.O. Box 30026, Lansing, Michigan 48909; (P)517-373-7910; Email: surberr@state.mi.us; Web: <http://www.state.mi.us/dmb/mic/>

Partner: IMAGIN, Inc.

Minnesota

Evaluation of the Effectiveness of MetroGIS

MetroGIS is a stakeholder governed effort of city, county, and regional governments to share geographically referenced data throughout the Twin Cities metropolitan area for growth management, farmland preservation, and subregional planning for community development. This project will evaluate the effectiveness of data sharing within MetroGIS and identify constraints to effective sharing.

Benefits — Urban Planning

Principal: William J. Craig, University of Minnesota, Center for Urban and Regional Affairs, 330 HHH Center, Minneapolis, Minnesota 55455; (P) 612-625-1551; (F)612-626-0273; Email: wcraig@atlas.socsci.umn.edu; Web: <http://metrogis.org>

Partner: Metropolitan Council, MetroGIS Staff Office, Land Management Information Center

A Sustainable Fair-Share Model for Framework Collaborative

This project seeks to document cooperative financing issues that must be resolved for multi-jurisdictional goals of NSDI framework projects to succeed. This project will 1) adapt the seven NSDI framework functions to clarify appropriate roles for data producers and integrators while addressing priority information needs of MetroGIS stakeholders applicable to NSDI framework data elements, 2) estimate the costs for sustaining data sharing mechanisms consistent with the MetroGIS vision and with the roles and responsibilities needed to support the NSDI framework, 3) develop guidelines for equitably allocating the costs of MetroGIS

among its stakeholders, considering contributions in the form of funding, data, and people and equipment, and 4) document project results. *FDPP — Governmental Units, Cadastral, Transportation*

Principal: Randall Johnson, Metropolitan Council, 230 East 5th Street, St. Paul, Minnesota 55101; (P)612-602-1638; (F)612-602-1404; Email: randy.johnson@metc.state.mn; Web: <http://www.metrogis.org.us>

Partners: Anoka County, Carver County, Dakota County, Hennepin County, Ramsey County, Scott County, Washington County, Association of Metropolitan, Metro Chapter Minnesota, Technology Information Education, MN Land Management Information

Mississippi

A Proposal to Become a National Geospatial Data Clearinghouse Node

In partnership with the Gulf of Mexico Program (GMP), a consortium of organizations dedicated to improving the Gulf ecosystem, the Mississippi State University Center for Air Sea Technology (CAST) will establish an NSDI clearinghouse node to serve the Gulf Coast region. As a representative of the five states bordering the Gulf of Mexico and seventeen Federal Agencies, GMP facilitates the protection and restoration of the coastal marine waters of the Gulf of Mexico and its coastal natural habitats. This proposal will fulfill an urgent need for providing GMP and its partners a source of critical data for the rapid response, status and trend analyses of Gulf ecosystems, and decision making process. *CAP — Clearinghouse*

Principal: Tina Henson, Mississippi State University, Center for Air Sea Technology, P.O. Box 6156, 305 Bowen Hall, Mississippi State, Mississippi 39762; (P)601-325-7404; (F)601-325-3803; Email: tina@spa.msstate.edu; Web Site: <http://www.cast.msstate.edu>

Partner: Gulf of Mexico Program

Missouri

Missouri National Geospatial Data Clearinghouse Node

The Missouri Spatial Data Information Service and project collaborators will develop and maintain a NSDI clearinghouse node on the Internet. This new node will contain FGDC compliant metadata, FTP access to databases, and textual and spatial search tools for query and retrieval of metadata and spatial layers. A series of workshops will be given and a training/education program established to educate agencies and other entities within the state of the importance of metadata and data sharing, as well as foster the development within these agencies of protocols for this documentation. *CAP - Clearinghouse & Educational*

Principal: Timothy L. Haithcoat, The Curators of the University of Missouri, 18 Stewart Hall, The Curators of the University of Missouri, Columbia, Missouri 65211; (P)573-882-2324; (F)573-884-4239; Email: grctlh@showme.missouri.edu; Web: <http://msdis.missouri.edu>

Partners: Missouri GIS Advisory Committee, Missouri Dept. of Economic Development, Missouri Dept. of Transportation, Missouri Office of Administration, State Emergency Management Agency, Missouri State Census Data Center, Missouri Department of Conservation

National/International

Hierarchical Metadata Implementation for Ecosystem Research Datasets

This proposal is to implement a hierarchical metadata concept for shared research (non-framework) datasets with spatial and temporal extent, as typically produced and used in environmental and ecosystem research. Differences in objectives for documentation and publication vs. data search, leading to different hierarchical structures and information storage requirements, will be defined for the purpose of metadata implementation and system linkages. The metadata concept and operable system will be usable for a wide range of multi-disciplinary datasets that are prepared in a research (rather than a standardized mapping) context, and subsequently released for publication. The prototype documentation/metadata format will resolve incompatibilities between hierarchically stored metadata in operable systems and search requirements of the NSDI. The proposed hierarchical metadata format will make access to documentation and metadata easy and presentable to users, and will link to NSDI clearinghouse systems. *CAP - Standards*

Principal: John J. Kineman, National Geophysical Data Center, 325 Broadway, Boulder, Colorado 80303; (P)303-497-6900; (F)303-497-6513; Email: jjk@ngdc.noaa.gov Web: <http://www.ngdc.noaa.gov/>

Partners: Cooperative Institute for Research in Environmental Sciences, NOAA Coastal Services Center, USGS National Mapping Division, International Geosphere Biosphere Program-Data and Information System (IGBP-DIS), International Geosphere Biosphere Program-International Human Dimensions Program/Land Use and Cover Change (LUCC) International Project Office

Implementation of the NASA/LBA-Ecology National Geospatial Data Clearinghouse Node

The NASA Large-Scale Biosphere-Atmosphere Experiment in Amazonia Ecology Project Office (LBA-Ecology) will focus on establishing a NSDI clearinghouse node. The initial implementation will serve as a data management system for LBA-Ecology, for ingesting, tracking, archiving and disseminating a high volume of diverse biophysical and remotely sensed geospatial data. The clearinghouse will also serve as a testbed for prototyping feasible and cost-effective data sharing solutions within an international and interdisciplinary science community. In cooperation with European and Brazilian partners, efforts will include assessing the feasibility of expanding NSDI clearinghouse nodes into international territories by educating collaborators of NSDI concepts, applying a hands-on experiment to test the Z39.50 GEO profile at existing international data centers using I-site software. Project collaborators will also continue to work with the Global Change Master Directory in the development of metadata tools software to assist scientists in describing datasets and translating this information into compliance with the Content Standards for Digital Geospatial Metadata. *CAP - Clearinghouse*

Principal: Marc Nadler, NASA/Goddard Space Flight Center, Code 923, Biospheric Sciences, Greenbelt, Maryland 2077; (P)301-286-2424; (F)301-286-0239; Email: Marc.Nadler@gsc.nasa.gov; Web: <http://www.gsc.nasa.gov/>

Partners: Potsdam Institute for Climate Impact Research, Biospheric Aspects of the Hydrological Cycle Project Office, Center for Weather Forecast and Climate Studies, NASA Global Change Master Directory, Oak Ridge National Laboratory Distributed Active Archive Center

ISO/FGDC Clearinghouse Development and Implementation for UNEP Data

Metadata and geospatial data transfer standards in the scientific, management, and development communities require international standards for the widespread use and implementation of data documentation, dissemination, and exchange. Project collaborators will work to establish and pursue FGDC and ISO complaint clearinghouse nodes. Efforts will be focused on 1) establishment of an National Geospatial Data Clearinghouse node to provide public access to United Nations Environment Program (UNEP) data sets as well as metadata converted from the UNEP metadata standard; 2) enhancement of the PC MetaLite software, screened by UNEP and USGS, to conform and produce ISO compliant metadata; and 3) development of ISO metadata on the UNEP/GRID clearinghouse to prototype the transition of an NSDI clearinghouse node to an ISO compliant clearinghouse node. *CAP - Clearinghouse*

Principal: Michelle Anthony, EROS Data Center, Sioux Falls, South Dakota 57198; (P)605-594-6848; (F)605-594-6529; Email: anthony@edcmail.cr.usgs.gov; Web: <http://grid2.cr.usgs.gov>

Partners: U.S. Geological Survey EROS Data Center, NASA, ESRI, United Nations Environment Program/Caribbean Environmental Programme, University of Kansas Geographical & Environmental Monitoring Lab

National

Historic Black Colleges & Universities GIS Faculty Workshop

The Howard University Urban Environment Institute will conduct a GIS Workshop for faculty members from Historically Black Colleges and Universities (HBCU). The workshop will provide participants with an introduction to the NSDI, GIS, remote sensing, GPS, and spatial data analysis, in order to promote and facilitate the introduction of geospatial information technology into their respective academic programs. *CAP - Educational*

Principal: Cynthia Warrick, Howard University Continuing Education, 1100 Wayne Avenue, Suite 600, Silver Spring, Maryland 20910; (P)301-585-2295; (F)301-585-8911

Partner: US Geological Survey

Proposed National Standards for the Floristic Levels of Vegetation Classification in the United States

A standardized, refereed, and widely used vegetation classification for the United States is urgently needed for effective planning, management, and research of the nation's ecological systems. On October 22, 1997, the Federal Geographic Data Committee, endorsed the National Vegetation Classification System (NVCS). The NVCS is hierarchical using physiognomy and floristic at the lowest levels. Although the NVCS recognizes floristic levels, it does not include an actual classification of floristically defined vegetation types. To identify, describe, and document thousands of floristically based types nationwide will require analysis of regional vegetation and establishment of standards for plot data, nomenclature, and review monographs proposing named units. The goal of this project will be to draft such standards. *CAP Standards*

Principal: Dr. Mary C. Barber and Lori Hindinger, Ecological Society of America, ESA Panel on Vegetation Classification, 2010 Massachusetts Avenue, NW Suite 420, Washington, D.C. 20036; (P)202-833-8748

Partners: U.S. Geological Survey, Wichita State University

Workshop Support and Training for Outreach the K-12 Geospatial Data NSDI Clearinghouse Node

The objective of this proposal is to extend the dissemination of information about the K-12 geospatial data NSDI clearinghouse node established as part of an FGDC 1997 partnership agreement. This information will be disseminated through the development of workshop programs and materials to be presented at nationwide educational conferences and K-12 teacher training programs in the fields of science, environmental, geography and GIS education. *CAP - Educational*

Principal: Susan Lindell Radke, Berkeley Geo-Research Group, 51 Crest View Drive, Orinda, California 94563; (P)925-254-0951; (F)925-254-0955; Email: kiznode@bgrg.com

Partners: Environmental Systems Research Institute, Inc., National Council for Geographic Education

Nevada

Establishing a National Geospatial Data Clearinghouse Node for Nevada

The State Mapping Advisory Committee (SMAC) will establish a National Geospatial Data Clearinghouse node for the state of Nevada. The clearinghouse will provide access to FGDC-compliant metadata from municipal, county, state, and federal agencies, universities, and private industry, and links to spatial data sets located on other individual agency servers throughout the state. An outreach effort to expand the awareness and use of the clearinghouse to other organizations will also be conducted. *CAP - Clearinghouse*

Principal: Gary Johnson, Nevada Bureau of Mines and Geology, The Regents of UCCSN, for UNR, Office of Sponsored Projects Administration, Mail Stop 325, Reno, Nevada 89557; (P)702-784-4040

Partners: Washoe County Planning, U.S. Bureau of Land Management, Southern Nevada Water Authority

New Hampshire

New Hampshire National Geospatial Data Clearinghouse Node

Project collaborators will establish the New Hampshire Node on the National Geospatial Data Clearinghouse at University of New Hampshire by modifying the existing NH GRANIT (Geographically Referenced And Information Transfer - the statewide GIS database) web site as necessary to match FGDC protocols and standards, and develop a long-term maintenance program for the site. The Content Standards for Digital Geospatial Metadata will be used to collect metadata for all framework data (roads and trails, hydrography, elevation, digital ortho-photography, public lands), and selected coastal and other GRANIT data layers. A guidebook will also be prepared for governmental and other interested organizations on the importance of data documentation, with particular reference to the FGDC metadata standard. *CAP — Clearinghouse*

Principal: Fay Rubin, State of New Hampshire, Office of State Planning, University of New Hampshire, Morse Hall, Durham, New Hampshire 03824-3525; (P)603-862-1792; (F)603-862-0188; Email: fay.rubin@unh.edu

Partners: Complex Systems Research Center University of New Hampshire, Research Computing Center University of New Hampshire

New Jersey

Burlington County Road Centerlines Project

The goal of this project is to create complete road coverage for Burlington County, NJ with a high degree of spatial accuracy (+/-3 ft) and quality attributes which will be useful and usable at state, county and local levels. This objective will be accomplished by utilizing Global Positioning Systems (GPS) receivers to compile the coordinate segment of the coverage and by field collection of attribute information such as road name, speed limits, addresses, and direction, etc. All data will be passed down to the township level where it will be evaluated for completeness and attribute accuracy. Attribute corrections will be made by the townships in house, by accessing Burlington County Library's Public GIS Terminals, or by submitting paper revisions back to the county. As new roads are built or the location of existing roads are modified within each township, notification will be sent to the county. Such roads will be collected by GPS and added to the existing data layer on a yearly maintenance basis. *FDPP - Transportation*

Principal: John Pavek, Burlington County Data Processing, GIS Division, 49 Rancocas Road, Room 112, Mt. Holly, New Jersey 08060; (P)609-265-3720; (F)609-265-5022; Email: Jpavek@co.burlington.nj.us

Partners: Burlington County Data Processing/GIS Division, Bass River Township, Beverly City, Burlington City, Chesterfield Township, Mt. Holly Township, Pemberton Township, Southampton Township

North Carolina

Coordinating GIS in Higher Education in North Carolina

This effort will provide coordination between GIS-teaching institutions, their GIS curricula, and the needs of agencies and industries hiring GIS-trained employees in North Carolina. The project collaborators will hold a state-wide meeting between institutions of higher education now teaching curricular in GIS and agencies and private industry and governmental agencies that use GIS-trained students from those institutions. *CAP - Coordinating Groups*

Principal: Professor Art Rex, Appalachian State University, Department of Geography and Planning, Boone, North Carolina 28607; (P)828-262-7057; (F)828-262-3067; Email: rexab@appstate.edu

Partners: Department of Geography and Planning, Department of Geography and Earth Sciences, Department of Geography, North Carolina Geographic Coordination Council, North Carolina Center for Geographic Information and Analysis

Promoting GIS and NSDI to Elected Officials in North Carolina

The collaborators will prepare a suite of briefing materials on geographic information coordination for North Carolina elected officials in federal, state, and local governments. This proposal will apply marketing principles to the creation of a suite of briefing materials that can be used by the Center for Geographic Information and Analysis, and other coordination champions at the state, county and city levels. These materials will succinctly, innovatively and appropriately outline the benefits of using geographic information systems for local problem resolution and promote the value of coordination implicit in the National Spatial Data Infrastructure. *CAP — Educational Outreach*

Principal: Diana Hales, Center for Geographic Information and Analysis, Governor's Office of State Planning, 301 N. Wilmington St., Suite 700, Raleigh, North Carolina 27601; (P)919-733-2090; (F)919-715-0725; Email: diana@cgia.state.nc.us

Partners: North Carolina Association of County Commissioners, North Carolina League of Municipalities, Institute of Government

Metadata Specifications for North Carolina Land Records and Other Local Government Data

The North Carolina Office of the Secretary of State-Land Records Management Division (SOS-LRMD) will collaborate with the North Carolina Center for Geographic Information and Analysis (CGIA), Wake County, and the North Carolina Property Mappers Association to evaluate, adopt, and promulgate geospatial metadata specifications for the state's digital land records mapping program. Results from the 1997 NSDI project "North Carolina Local Government Clearinghouse Implementation Program: Wake County and Municipalities" will be promoted for widespread implementation by land records managers and GIS professionals in local government. The collaborators will organize, plan, and conduct a series of five one-day workshops throughout the state to provide specific training to county representatives on adopted metadata specifications. This project will institutionalize the use of geospatial metadata for land records mapping and advances the development and use of metadata for other themes derived by local government in North Carolina. *CAP - Standards*

Principal: Rex Minneman, North Carolina Secretary of State's Office, Land Records Management Division, 300 North Salisbury Street, Raleigh, North Carolina 27601; (P)919-733-7006; (F)919-715-0789; Email: rminnema@mail.secstate.state.nc.us

Partners: Center for Geographic Information and Analysis, Wake County, NC Property Mappers Association

Using the Community College System to Train and Certify GIS Technicians for Framework Data Production and Integration: A Feasibility Study

The North Carolina Geographic Information Coordinating Council will oversee an effort to assess the feasibility of using the community college system in North Carolina to train and certify GIS Technicians for Framework data production and integration work opportunities. This project will examine the possibility of creating an educational program to provide GIS technicians with the qualifications and proficiencies to work in agencies supporting the role of "data producer" or "area integrator" for the National Geospatial Data Framework. *FDPP - All Themes*

Principal: Dr. Elizabeth Johns, North Carolina Department of Community Colleges, 200 West Jones Street, Raleigh, North Carolina 27603; (P)919-733-7051; (F)919-733-0680; Email: johnse@ncccs.cc.nc.us; Web: <http://www.ncccs.cc.nc.us>

Partners: NC Center for Geographic Information and Analysis, National Center for Geographic Information and Analysis

Ohio

OhioView National Geospatial Clearinghouse Node Development Project

OhioView collaborators will create a Ohio Geospatial Data Clearinghouse node to provide access to high quality, affordable high-resolution, stereo (3-D) multi-spectral land satellite data to public and research users in Ohio. The Clearinghouse will provide unrestricted public access to metadata records, provide linkages to interactive online datasets to support broad public use of geospatial data using user friendly visualization tools, and provide linkages to preprocessed images for use as educational or reference materials. *CAP - Clearinghouse*

Principal: John Millard, Ohio View Research Consortium, Miami University Libraries, Oxford, Ohio 45056; (P)513-529-6789; (F)513-529-1719; Email: millarj@muohio.edu

Partners: US Geological Survey/EROS Data Center, NASA Lewis Research Center

Oklahoma

Integrated Approach of Using Geospatial Data in Logan County, Oklahoma

Logan County Conservation District is initiating a countywide forum to bring geospatial users and creators together to identify where efforts can be made to gain a comprehensive framework of geospatial data for Logan County. The process of identifying needed framework, creating and maintaining it for Logan County will be developed through this forum. The accomplishments made in Logan County will be published in both technical and the conservation planners' circles. The accomplishments will also serve as a guide for the development of five other model sites located throughout the United States. *FDPP - Cadastral and Orthoimagery*

Principal: Clifford Frick, Logan County Conservation District, 2227 Iron Mound Drive, Guthrie, Oklahoma 73044; (P)405-282-1650; (F)405-282-2651

Partners: Natural Resources Conservation Service, Langston University, Logan County Board of Commissioners, Oklahoma Association of Conservation Districts, Farm Service Agency

Oregon

A National Geospatial Clearinghouse for the Oregon Coast

A collaborative effort between university, federal, state, and regional entities, will result in geospatial clearinghouse node disseminating data for the Oregon coast. The clearinghouse node will include coverage of coastal and marine resource thematic data and FGDC-compliant metadata for all of Oregon, as well as embedded URL linkages to data throughout the state of Oregon. Protocols will be established for maintenance and update, and training will be provided to clearinghouse users and cooperators. Data mining efforts in support of the clearinghouse will serve as a testbed for the implementation of the new FGDC Standards for Shoreline Data. The clearinghouse will be designed in such a way as to be easily accessible and understood by coastal managers, scientists, decision-makers and citizens of Oregon desiring to obtain geographic information on coastal resources. *CAP — Clearinghouse-Local/Regional*

Principal: Dawn J. Wright, Department of Geosciences, Oregon State University, 104 Wilkinson Hall, Corvallis, Oregon 97331-5506; (P)541-737-1229; (F)541-737-1200; Email: dawn@dusk.geo.orst.edu/fgdc
Web: <http://dusk.geo.orst.edu>

Partners: Pacific Northwest Coastal Ecosystems Regional Study, State Service Center for GIS, Tillamook Coastal Watershed Resource Center, Interrain Pacific

Pennsylvania

Pennsylvania Interactive Watershed Atlas

The Pennsylvania Interactive Watershed Atlas will provide access to metadata and spatial data related to Pennsylvania's watersheds. The Atlas is a collaborative project developed by the Pennsylvania Mapping and Geographic Information Consortium (PAMAGIC), the Pennsylvania State University, and the Pennsylvania Department of Environmental Protection. The target user group for the Atlas is users who are either unfamiliar with GIS or lack the hardware/software, training, or knowledge to effectively use a GIS. The Atlas' primary function is to act as a clearinghouse, accessible via the Internet, for data and metadata. The Atlas will contain three unique elements. First, an interactive mapping capability that will allow users to select, map, and view data through their web browser. Second, a searchable metadata catalog with links to data and preview maps. Finally, an online educational tool to educate users about Pennsylvania's watersheds, geospatial data, GIS, metadata, and the NSDI. *CAP - Educational*

Principal: Maurie Kelly, Environmental Resources Research Institute, Pennsylvania State University, Land and Water Research Building, University Park, PA 16802; (P)814-863-0104; (F)814-863-3378; Email: mck4@psu.edu; Web: <http://www.pasda.psu.edu>

Partners: The Pennsylvania Department of Environmental Protection, Pennsylvania Mapping and Geographic Information Consortium, Penn State University Libraries

South Carolina

Florida, Georgia, North Carolina

Implementing the Cadastral Data Content Standard for Coastal and Ocean Data

This project brings together primary stakeholders in the region to test a marine component of the Cadastral Data Content Standard. In addition, it provides the technical means to create, document and disseminate the ocean cadastral data layer. The baseline (mean low water line); the National Marine Sanctuary (NMS) boundaries; State seaward boundary; "8 (g) Zone"; territorial sea boundary; and Exclusive Economic Zone (EEZ) will be mapped for the four states of NC, SC, GA, and FL. Deliverables include a report on using the cadastral standard offshore and possible extensions for that standard. In addition, the ocean cadastral layers will be constructed, documented and made available via a National Geospatial Data Clearinghouse node. *CAP - Standards*

Principal: Cindy Fowler, Department of Commerce, NOAA, Coastal Services Center, 2234 South Hobson Avenue, Charleston, South Carolina 29405-2413; (P)843-740-1249; (F)843-740-1224; Email: cfowler@csc.noaa.gov

Partners: DOI/MMS Mapping and Survey Dept., NOAA Office of Coast Survey, Fairview Industries, and SE Ocean GIS Group

Assessing the Benefits of Using a Geographic Information System and the Internet for Integrated Ocean Management

This project will demonstrate that data and tools provided within the National Spatial Data Infrastructure will allow coastal managers to better assess and plan for the use and protection of their ocean resources. A regional GIS will be built to create "geo-regulations"--or spatial data layers that outline the jurisdiction of federal and state statutes--for the southeast Atlantic Ocean. Efficiency, effectiveness and equity benefits of providing access to ocean data within the NSDI will be assessed. *Benefits - Ocean Management*

Principal: Cindy Fowler, National Oceanic and Atmospheric Administration, Coastal Service Center, 2234 South Hobson Ave, Charleston, South Carolina 29405; (P)843-740-1249; (F)843-740-1224; Email: cfowler@csc.noaa.gov

Partners: Oregon State University, SE Ocean GIS Group

Vermont

Promoting a "Shared Information Resource" for Rural Community Economic Development

Assesses the benefit of providing increased access to spatial and economic data in support of rural community development in Vermont. *Benefits - Rural Economic Development*

Principal: Alice Doyle, Vermont Center for Geographic Information, Inc., 206 Morrill Hall, Burlington, Vermont 05405-0106; (P)802-656-4277; (F)802-656-0776; Email: aliced@vcgi.uvm.edu

Partner: University of Vermont, Center for Rural Studies

Vermont Best Surface Waters Project

The Vermont Center for Geographic Information (VCGI) and partners will enhance Vermont's spatial data infrastructure by extending the USGS/USEPA National Hydrography Data set (NHD) standard to locally generated 1:5000 scale surface waters data. The result will be a detailed, locally-generated surface waters data layer, quality-controlled and integrated with adjacent watersheds (horizontal integration) and integrated with other local-scale features such as orthophotos and bridge locations (vertical integration). Use of coding compatible with NHD will enhance data sharing between the local, state, and national levels. *FDPP - Hydrography*

Principal: Eric Pyle, Vermont Center for Geographic Information, Inc, 206 Morrill Hall, Burlington, Vermont 05405-0106; (P)802-656-4277; (F)802-656-0776; Email: ericp@vcgi.uvm.edu; Web: <http://geo-vt.uvm.edu/>

Partners: USDA/NRCS, USGS-NMD, VT Agency of Natural Resources, Associates in Rural Development

Virginia

Implementation of a National Geospatial Data Clearinghouse Node in the RADCO Region of Virginia

The Rappahannock Area Development Commission (RADCO) and its partners will create, develop, implement and maintain a National Geospatial Data clearinghouse for finding and accessing geospatial data in a 1394 square mile area that encompasses the City of Fredericksburg and the counties of Stafford, Spotsylvania, King George, and Caroline. The Clearinghouse will provide both browse and search online of the metadata and its associated geospatial data for 50 geospatial data layers that have been created for the RADCO region. *CAP - Clearinghouse-Local/Regional*

Principal: Mike Tardiff, Rappahannock Area Development Commission, Planning District Commission, P.O. Box 863, 512 Lafayette Blvd., Fredericksburg, Virginia 22404; (P)540-373-2890; (F)540-899-4808; Email: mtardiff@fampo.state.va.us; Web: <http://www.radco.state.va.us>

Partners: Counties of Spotsylvania, Caroline, Stafford, King George, City of Fredericksburg

The Shenandoah Valley National Geospatial Data Clearinghouse Node

The project collaborators will establish and maintain the Shenandoah Valley National Geospatial Clearinghouse node at James Madison University to provide access to metadata and geospatial data relating to the Shenandoah Valley and the State of Virginia. The project is a joint effort between federal and state agencies, and is being coordinated by the Applied Spatial Research Center and the Center for Geographic Information Science at James Madison University. The collaborators will also conduct outreach programs to local and regional governments, as well as the private sector, to encourage them to participate. *CAP - Clearinghouse-Local/Regional*

Principal: James W. Wilson, James Madison University, Center for Geographic Information Science MSC 4006, Harrisonburg, Virginia 22807; (P)540-568-8186; (F)540-568-8741; Email: wilsonjw@jmu.edu; Web: <http://www.gis.jmu.edu>

Partners: National Park Service, Shenandoah National Park, George Washington - Jefferson National Forest, Virginia Economic Development Partnership, Virginia Department of Conservation and Recreation, Virginia Department of Historic Resources

Coordination of Regional Metadata Standards Development in Northern Virginia

Northern Virginia Planning District Commission (NVPDC) will finalize and document work which has been initiated by Northern Virginia GIS agencies in Fairfax, Prince William, and Loudoun Counties, to identify metadata fields (in compliance with the Content Standards for Digital Geospatial Metadata) for implementation of the Northern Virginia Regional Metadata Standard. Collaborators will also coordinate the completion of a user friendly database and graphical user interface system for metadata entry and reporting. *CAP - Coordinating Group*

Principal: Nancy L Michaelson, North Virginia Planning District Commission, Division of Demographic and Economic Analysis, 7535 Little River Turnpike, Suite 100, Annandale, Virginia 22003; (P)703-642-4645; (F)703-642-5077; Email: nmichael@nvpdc.state.va.us
Web: <http://www.nvpdc.state.va.us>

Partners: Most members of Northern Virginia GIS Users Group

Creating a Region-wide Framework Activity

County, state and regional agencies, in addition to private sector companies, will establish agreements that provide a backbone on which the framework can be built. The project will develop methods for establishing partnerships for data creation, distribution, and sharing; identify high resolution data that comply with metadata and spatial data transfer standards; test data integration strategies within and among themes of data; and evaluate institutional capabilities for maintaining and archiving data. The framework data theme that will be addressed at this time is a region wide transportation data layer for the 4 county area and the City of Fredericksburg, VA. *FDPP - Transportation*

Principal: Michael Tardiff, Rappahannock Area Development Commission, P.O. Box 863, 512 Lafayette Blvd., Fredericksburg, Virginia 22404; (P)540-373-2890; (F)540-899-4808; Email: mtardiff@fampo.state.va.us
Web: <http://www.radco.state.va.us>

Partners: County of Spotsylvania, City of Fredericksburg, County of Caroline, King George County, County of Stafford

Washington

A National Geospatial Clearinghouse Node for Geospatial Information on the Olympic Peninsula

This project will build a National Geospatial Data Clearinghouse node for Olympic Peninsula natural resource metadata. This project will significantly add to the amount of metadata for the Olympic Peninsula by providing dedicated resources for outreach and metadata creation, producing educational materials, and convening metadata workshops. Project collaborators will emphasize documentation of biological and coastal/marine data for the Peninsula and its surrounding waters, and will establish cooperative

relationships for the Olympic Natural Resources Center and Olympic Coast National Marine Sanctuary, and with federal, state and local agencies, as well as tribes, researchers, private landowners, and other non-governmental organizations in the region. *CAP - Clearinghouse Local/Regional*

Principal: Dr. David L. Peterson, U.S. Geological Survey, Biological Resources Division, Field Station for Protected Area Research, PO Box 352100, Seattle, Washington 98195-2100; (P)206-543-1587; (F)206-685-0790; Email: wild@u.washington.edu
Web: <http://www.onrc.washington.edu>

Partners: State of Washington GIC, National Oceanic and Atmospheric Administration, Olympic Coast National Marine Sanctuary, Olympic Natural Resources Center, University of Washington, Department of Geography, U.S. Geological Survey, Biological Resources Division

Washington Framework Demonstration Project Phase II

The project represents phase two of the Washington Management Group's cadastral framework project. The project defines, constructs, and delivers an operational database through which cadastral data can be maintained on the Internet. The project verifies a data model the projects partners have identified: a data model that combines two Framework data themes. The project gathers and evaluates user satisfaction with data, metadata, and the user application. It proposes a method for cost recovery. The project capitalizes on past and current investments in Washington State's Cadastral Framework data. *FDPP - Cadastral and Geodetic*

Principal: Greg Tudor, Washington State, Department of Natural Resources, 1111 Washington ST SE, PO Box 47020, Olympia, Washington 98504-7020; (P)360-902-1542; (F)360-902-1790; Email: greg.tudor@wa.dnr.gov
Web: <http://framework.dnr.state.wa.us>

Partners: Clark County/Assessment and GIS, Bureau of Reclamation, Interagency Committee for Outdoor Recreation, Longview Fibre Incorporated, Washington State Department of Revenue, Weyerhaeuser Corporation, Stevens County Partnership, Environmental Systems Research Institute, U.S. Geological Survey/Western Mapping Center, Department of Community Trade and Economic Development, Spokane County/Division of Engineering and Roads, Bureau of Land Management, U.S. Forest Service/Region 6, Yakima County, Puget Sound Regional Council, WA State Department of Transportation

West Virginia

Developing Dynamic Multimedia-base Educational Outreach Software for Presentation of NSDI Concepts

This project will create a multimedia CD-ROM based introduction to the key concepts of NSDI. The package will prompt the user to answer a short list of questions, thereby building a profile the software can use to guide the presentation of NSDI concepts and information. The unique element of this product will be its ability to present the NSDI concepts in a manner most suitable for the individual using the product; a dynamic environment that adjusts itself to match the user's perspective. On startup, the user is prompted to answer a series of questions that when answered will build a profile that will guide the CD-ROM in its presentation of the NSDI material to the user. *CAP - Educational*

Principal: Joe Sewash, WV State GIS Technical Center, West Virginia University, Department of Geology and Geography, 425 White Hall POB 6300, Morgantown, West Virginia 26506-6300; (P)304-293-5603; (F)304-293-6522; Email: jsewash@wvu.edu; Web: <http://wvgis.wvu.edu/>

Partners: Office of the State GIS Coordinator, Davis and Elkins College, University of West Virginia Board of Regents

Building the Foundation for a Fully Operational Framework in West Virginia

This project is led by the West Virginia state GIS Technical Center to coordinate the technology, institutions, and data producers in West Virginia to build the foundation for a fully operational Framework. The Technical Center and the WV State GIS Coordinator will help organize the data user and producer groups for transportation, hydrography, and digital orthoimagery. The Technical Center will work with USGS National Mapping Division to develop the methods to transition the DLG-3 data to DLG-F data model to support many of the framework concepts. The Technical Center will educate the state GIS community about the NSDI Framework and implications for the long-term distributed maintenance of data. The Technical Center will conflate the 1:100,000 scale National Hydro Data set (NHD) with the 1:24,000 scale hydrography data and work with West Virginia Department of Transportation, to integrate the transportation mapping and attribute information from other local data producers. A local/state/federal partnership will leverage the resources to produce statewide DOQ's. *FDPP - Hydrography, Transportation and Orthoimagery*

Principal: Chetan Desai, West Virginia State GIS Technical Center, 425 White Hall, POB 6300, Morgantown, West Virginia 26506-6300; (P)304-293-5603; (F)304-293-6522; Email: cdesai@wvu.edu; Web: <http://wvgis.wvu.edu/>

Partners: USGS/National Mapping Division, Office of the State GIS Coordinator

Wisconsin

Arkansas, Illinois, Indiana, Iowa,
Kansas, Michigan, Minnesota,
Missouri

National Park Service Midwest Region Geospatial Metadata Education Initiative

The Midwest Region GIS Field Technical Support Center of the National Park Service (NPS), in conjunction with the Land Information and Computer Graphics Facility at the University of Wisconsin-Madison, undertake an education initiative to improve compliance with FGDC standards for data and metadata distribution tailored to the needs of NPS GIS staff in the field. It is designed to directly address data documentation in the parks by providing the knowledge, tools, and environment in which park GIS staff can successfully bring their GIS programs into compliance with FGDC standards. *CAP Educational*

Principal: Peter Budde, National Park Service, Midwest Support Office - GIS FTSC, 550 Babcock Drive, Room B102 Steenbock Library, Madison, Wisconsin 53706; (P)608-265-3515; (F)608-262-250;

Email: peter_budde@nps.gov

Partner: University of Wisconsin

Information Access System for Geodetic Control

This project will construct a unified information system for access to geodetic data from distributed sources for federal, state, regional, and local control. A unified system means that the information will be consistent, the development process will be done jointly, the data will be cooperatively maintained, and the results will be repeatable in other locations and extendible to other datasets. By combining all of the available geodetic control from varying sources in one access system, all the control and geodetic data for any geographic area can be displayed, queried, retrieved, and maintained. Control information and geodetic data of varying accuracy will be universally available. The participants will agree on form, format, interface, and metadata requirements so that information from a county can be seamlessly made available with information from the National Geodetic Survey (NGS). This project will achieve this goal by addressing issues related to point feature identification, point metadata requirements, accuracy reporting and certification, and access needs. *FDPP — Geodetic Control and Point Elevation*

Principal: Dr. D. David Moyer, Wisconsin State Geodetic Advisor, National Geodetic Survey, 1007 WARF, 610 Walnut Street, Madison, Wisconsin 53705-2336; (P)608-266-3919; (F)608-267-1859; Email: moyerd@mail.state.wi.us

Partners: Burnett County Surveyor/GIS Office, Columbia County Land Information Office, Jackson County Land Information Coordinator, WI DOT/Information Technology Management, WI Land Information Association, WI Land Information Board, WI County Surveyors Association and WI Society of Land, WI State Cartographer's Office, University of WI-Madison, GeoAnalytics, Fairview Industries