



National Spatial Data Infrastructure

National Spatial Data Infrastructure 1996 Framework Demonstration Project Program (FDPP)

The Framework Demonstration Projects Program (FDPP) was established by the Federal Geographic Data Committee (FGDC) to support cooperative projects that test the means by which the geospatial data community can work together to build and maintain the data framework for the National Spatial Data Infrastructure. The framework consists of commonly needed themes of data (including the themes geodetic control, digital orthoimagery, elevation and bathymetry, transportation, hydrography, governmental units, and cadastral) needed for national, statewide, regional, and local analyses. Funding is provided for implementations of multi-organization, multi-sector partnerships to coordinate data collection, maintenance, use and access in local and regional areas. Program participants will identify a basic information content for the framework data and will develop technical, operational, and business contexts by which a distributed, collaborative data collection and maintenance effort will operate.

For more information about this program contact the FGDC Secretariat, c/o U.S. Geological Survey, 590 National Center, Reston, VA 20192; telephone 703.648.5514; fax 703.648.5755; Internet gdc@usgs.gov. Information is also available via the World Wide Web at <URL:http://www.fgdc.gov/Fram>.

The 1996 Program

In August 1996, the FGDC issued awards for the first year of the program. Seven awards were made, totaling approximately \$800,000. The goals, participants, and contact information of each program are summarized below.



A Statewide Framework of Public Lands Data Using Locally Derived Cadastres

This project will create a viable technical process for the maintenance of the framework cadastral theme in North Carolina by improving statewide data sets of federally and State-owned property. On behalf of the North Carolina Geographic Information Coordinating Council (GICC), the Center for Geographic Information and Analysis (CGIA) will guide a consortium of local, State, and Federal government agencies and professional organizations in the integration of cadastral data from county land records offices into statewide data sets of publicly administered

parcels. The project will be based on an operational model developed by the CGIA.

Collaborating Organizations: NC Center for Geographic Information and Analysis (lead), NC Geographic Information Coordinating Council (including the Federal Interagency Committee, the Affiliated GIS Users Committee, and the State Government GIS Users Group), NC Association of County Commissioners, Office of the Secretary of State (Land Records Management Program), and the NC State Property Office.

Principal Contact: Zsolt Nagy, Center for Geographic Information and Analysis, NC Office of State Planning, 115 Hillsborough Street, Raleigh, NC 27603-1721; telephone 919.733.2090; fax 919.715.0725; Internet zsolt@cgia.state.nc.us



Creating a Federally Compliant State and Local Delivery System for High Resolution Framework Data

Collaborators will strengthen abilities of agencies for sharing and integrating high-resolution framework data in New Mexico and along the U.S.-Mexico border. The participants will assess administrative requirements for integrating data from municipal authorities with those of county and state organizations, establish agreements that provide a backbone on which the framework can be built, identify and evaluate integration models used by local authorities, and test data integration procedures. The project will develop methods for establishing partnerships for data distribution and sharing, identify high resolution data that comply with metadata and spatial data transfer standards, test data integration within and among themes of data, and evaluate institutional capabilities for maintaining and archiving framework data. Framework data themes that will be addressed are geodetic control, digital orthoimagery, and cadastral.

Collaborating Organizations: University of NM - Earth Data Analysis Center (lead), City of Santa Fe, Doña Ana County, and the NM State Land Office.

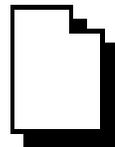
Principal Contact: Amelia Budge, Earth Data Analysis Center, Univ of NM, 2500 Yale SE, #100, Albuquerque, NM 87131-6031; telephone 505.277.3622; fax 505.277.3614; Internet abudge@spock.unm.edu



Assessing the Framework Model Within a Collaborative Multi-Jurisdictional Local, Regional, and State Setting

This multi-participant, multi-jurisdictional project provides an empirical assessment of critical aspects of the premise that local, regional and state needs can be adequately aligned with the framework data concept. This project leverages ongoing local, regional and state cooperative arrangements for providing digital geospatial data, and will refine the conceptual model of data production and integration roles for those organizations. Procedures will be established to achieve consensus for geospatial data needs, and resolve data integration and generalization issues as data are assembled for increasingly large areas. The local, regional, and state acceptance and support of framework will be evaluated, and issues identified that require resolution for local, regional and state needs to align with the framework. This project will conduct case studies that will adapt local, regional and state data development efforts to framework and develop and test data certification policies. Data certification policies, and metadata documentation and methodology will be developed and tested for this metropolitan and statewide effort. Collaborating Organizations: MN Office of Strategic and Long Range Planning (lead), Metropolitan Council of the Twin Cities, and the Governor's Council on Geographic Information.

Principal Contact: David Arbeit, Office of Strategic and Long Range Planning, Land Management Information Center, 658 Cedar St. St. Paul, MN 55155; telephone 612.296.1209; fax 612.296.1212; Internet david.arbeit@mnplan.state.mn.us



Utah Cadastral Integration Project

This project is a collaborative effort between Federal, State, and local government agencies to meet the critical need throughout the State of Utah for cadastral data at a scale of 1:24,000 or larger. The project will integrate existing cadastral data to produce a statewide cadastral framework, establish a data

management infrastructure, and make framework data available through an enhanced NSDI Clearinghouse. The cadastral data for the project consist of the U.S. Public Land Survey System (PLSS), ownership (agency jurisdictions and parcels), and government unit boundaries (where coincident with PLSS boundaries). The metadata supporting the cadastral themes will accommodate the consistent descriptive elements necessary for continued integration and use by various data contributors. Technical investigations will address permanent feature identifiers and develop and test data integration processes.

Collaborating Organizations: Utah Automated Geographic Reference Center (lead), Bureau of Land Management (Geographic Sciences Team and Utah State Office), U.S. Forest Service (Region 4 Headquarters, Dixie National Forest, and Geometrics Service Center), U.S. Geological Survey, Utah state agencies (Forestry, Fire, and State Lands, and the School and Institutional Trust Lands Administration), participating Utah counties (Beaver, Box Elder, Cache, Carbon, Davis, Emery, Iron, Juab, Kane, Millard, Piute, Rich, Salt Lake, Sanpete, Summit, Uintah, Utah, Washington, Wayne, and Weber), Canyon Country Partnership, Southwest Utah Planning Authorities Council, Utah Council of Land Surveyors, and the State GIS Advisory Committee.

Principal Contact: Bob Nagel, UT Automated Geographic Reference Center, 5130 State Office Building, Salt Lake City, UT 84114; telephone 801.538.3291; fax 801.538.3550; Internet bnagel@dpagr7.it.as.ex.state.ut.us



Vermont Spatial Data Partnership Project

The Vermont Spatial Data Partnership Project will enhance Vermont's spatial data development and distribution system to include long-term cooperative agreements among Federal, State, regional, and local government agencies, and commercial spatial data providers and users, to promote the development and maintenance of statewide transportation framework data. The project will create a framework for long-term cooperation in the development and use of common data bases; establish institutional processes for resolving issues related to data needs, evaluating the needs for new data sets, and maintaining and distributing framework data; encourage the use of framework data; and assure that the interests of the partners will be served in the long term maintenance of statewide transportation data. In particular, the institutional issues related to data standards, certification, and integration will be addressed by the establishment of a transportation theme expert group to identify

needs and trends. Technical implementations will address transportation linear referencing systems.

Collaborating Organizations: VT Center for Geographic Information, Inc. (lead), Vermont's 12 Regional Planning Commissions, VT Agency of Transportation, VT Enhanced 911 Board, Bureau of the Census, and the U.S. Geological Survey.

Principal Contact: Bruce Westcott, VT Center for Geographic Information, Inc., 206 Morrill Hall, Burlington, VT 05405-0106; telephone 802.656.4277; fax 802.656.0776; Internet brucew@vcgi.uvm.edu



The Baltimore-Washington Regional Digital Spatial Data Framework Demonstration Project for the Gwynns Falls Subwatershed

This project will explore the administrative and technical issues of linking local and regional data sets for the framework themes of geodetic control, digital orthoimagery, elevation, transportation, hydrography, governmental units, and cadastral data. The first phase of this project will bring together many organizations to study the benefits of data sharing for solving local and regional land management problems. In the second phase of the project, issues of standards for data archiving and documentation, data certification, and protocols for sharing and community access will be formalized. Local and regional data sets for the Gwynns Falls watershed and subwatersheds will be made available to public, private, and government organizations at no cost through the Internet.

Collaborating Organizations: University of MD, Baltimore County - Dept of Geography and Joint Center for Earth Systems Technology (lead), MD Department of the Environment (Technical and Regulatory Services Administration), U.S. Geological Survey, Baltimore County Department of Environmental Protection and Resource Management, Urban Resources Initiative, and the Chesapeake Bay Program.

Principal Contact: Dr. Timothy Foresman, University of MD, Baltimore County, Department of Geography and Joint Center for Earth Systems Technology, 1000 Hilltop Road, Baltimore, MD 21250; telephone 410.455.3149; fax 410.455.1056; Internet foresman@umbc.edu



The North Texas GIS Consortium Spatial Data Warehouse

The Bruton Center for Development Studies at Dallas has facilitated the formation of the North Texas GIS Consortium consisting of a group of over thirty local governments and

utilities in the Dallas-Fort Worth metropolitan area for the development and sharing of data for many framework data themes. The consortium will develop a business plan for the framework activity. It also will link the consortium members through the initiation of an online spatial data warehouse that will assimilate data maintained by its members and provide efficient access to these data. These two activities will be well documented as a result of this project, will serve as a model for adoption by other metropolitan area consortia. This project aims to reduce participant costs of GIS development through cost savings on hardware, software, services, training, and data, and to facilitate data development, maintenance and sharing between members through telecommunications links, area data standards, distributed data maintenance, and a central library database.

Collaborating Organizations: University of TX - Bruton Center for Development Studies (lead); Tarrant Appraisal District; Dallas County Public Works Department; the Cities of Arlington, Cedar Hill, Colleyville, Dallas, Flower Mound, Fort Worth, and North Richland Hills; Lone Star Gas Company; Tarrant County 911 District; and Dallas Area Rapid Transit.

Principal Contact: Paul Waddell, University of TX at Dallas, Bruton Center for Development Studies, PO Box 830688, Richardson, Texas 75083-0688; telephone 214.883.2088; fax 214.883.2735; Internet waddell@utdallas.edu