

IGIC Mission Area One: GIS Data Development and Stewardship

A-1 Goal 1: Coordinate the identification of statewide digital geospatial databases

Objective 1: Inventory and catalog current GIS data holdings in the state

STRATEGY: *NSDI Framework Survey (Part II) A**: The FGDC commissioned the creation and completion of a survey of geospatial data of the entire US for the six framework data layers during March-April of 1998. Over 100 Iowa entities participated in this survey. The utilization of the information from this survey has been primarily been informational for Iowans. Currently, the FGDC is strongly considering conducting another survey conducted more directly with state GIS coordinators, thus+B18 allowing Iowa to avoid the costs of a survey. Should this not come to bear within the next six months, the IGIC (possibly in coordination with Iowa's Association of Counties – ISAC) should develop and conduct a comprehensive survey of its own.

STRATEGY: *Inventory non-framework data holdings of GIS users in the state*

Objective 2: Develop a system for the Clearinghouse to store and maintain the holdings inventory

STRATEGY: *Metadata Servng* As a part of the lowAccess Project, the clearinghouse was to be made available for the serving of geospatial data metadata. In addition to the metadata created as part of the FGDC Metadata Grant, active solicitation of other geospatial data metadata (such as for counties/state agencies) will be pursued. Currently, the ITS Clearinghouse Specialist is converting DNR's geospatial metadata into the SMMS (FGDC compliant metadata tool) software.

C-2 Goal 2: Coordinate the development and maintenance of statewide digital databases

Objective 1: Survey GIS users for needed priority data and available resources

Objective 2: Develop plans for creating high-priority data layers

STRATEGY: *Develop a plan for an IOWA GIS DATA FRAMEWORK*. Based on FGDC framework, with Iowa additions.

Geodetic Control: *locations of HARN monuments, county/city parcel mapping monuments, NGS and USGS horizontal and vertical control; designate a state agency or other organization as custodian of this data.*

Orthoimagery: *USGS/NRCS 1 meter DOQQs, higher quality digital orthos if available, medium to high resolution satellite data for state.*

Elevation: *USGS 10 and 30 meter digital elevation models, higher resolution digital terrain models if available.*

Transportation: *100k USGS/IDOT road centerline files, 24k or better eventually with street names and address ranges. Designate data custodian. Includes trails, rails, waterways, airports, bridges and tunnels.*

Hydrography: *100k National Hydrography Dataset; 24k update eventually. Work towards an integrated hydrologic model that includes topography, watershed boundaries, wetlands, floodplains, drainage districts, and other hydrologic features.*

Governmental Units: *state, county and incorporated area boundaries.*

Cadastral Info: *Public Land Survey System boundaries and section corners; parcel boundaries of public land: city, county, state and federal.*

Other data needs: *detailed land use, census data, soils....*

STRATEGY: *NASA Proposal* Working with the Imagery Committee, statewide remote sensing initiatives have been identified. From these initiatives, certain issues need to be addressed in preparation for the upcoming NRA anticipated for FY2001. Those issues should include: resources, budget, timeframe, partnerships, etc.

Objective 3: Develop Iowa geographic data standards and guidelines for use on high-priority data layers

STRATEGY: *Cadastral Mapping Standards* Through the NSDI, the cadastral activities of participating counties were identified. During two separate meetings of cadastral folks, a list of potential issues that need to be addressed either through the IGIC, or through the membership of a separate committee were identified. Several other Midwestern states have worked extensively on modifying the FGDC Cadastral standard for their own state. A similar type of venture based in part from their work, should be attempted by the IGIC.

IGIC Mission Area Two: Coordination of GIS Activities

A-1	<p>Goal 3: Serve as a clearinghouse for exchange of information on GIS activities between federal, state, local, academic and private interests</p> <p>Objective 1: Inventory GIS programmatic activities within the state</p> <p>Objective 2: Develop and maintain mechanisms to exchange information on GIS activities</p> <p>STRATEGY: <u>Maintain IGIC bi-annual GIS users conference</u></p> <p>STRATEGY: <u>Maintain IGIC newsletter</u></p> <p>STRATEGY: <u>State GIS Enterprise "Cookbook"</u> . Through the current Information Technology Services (ITS), create and implement a "cookbook" for state government to utilize in planning or enhancing their GIS activities. The long-range plan would be to provide this information to county and local governments, too.</p> <p>STRATEGY: <u>Regional and National Representation</u> Continue to participate in the MidAmerica GIS Consortium (MAGIC). Currently Ann is a Board member of the National States GIS Council (NSGIC) which allows her to give more direct input to national activities that will benefit Iowans.</p>
C-2	<p>Goal 4: Encourage the coordination of spatial data collection to reduce duplication and increase the usefulness of this resource</p> <p>Objective 3: Identify specific opportunities to coordinate data collection activities</p> <p>STRATEGY: <u>FGDC Coopertor State</u> As a part of lowAccess Project 8, Iowa was to have become a FGDC Cooperative State. In doing so, Iowa would support the use of FGDC's geospatial standards and clearinghouse standards and actively participate in nationwide geospatial activities, such as the survey. In return, Iowa would receive more federal recognition and receive advanced notice of funding opportunities</p> <p>STRATEGY: <u>FGDC Compliant Clearinghouse</u> As a part of Iowa's FGDC Metadata grant, Iowa's Geospatial Clearinghouse will become a Z39.50 compliant clearinghouse.</p> <p>STRATEGY: <u>Intern/externships w private/public business</u> In keeping with Gov. Vilsack's impetus to keep "youth and the workforce" in Iowa, the IGIC would foster the development of a program that would bring private/public sector needs together with what the academic sector is currently providing to the workforce. This program would include an education component specifically for the private sector on the use/value GIS brings to their industry. It could become a component of the GIS Enterprise cookbook in that government entities could identify a need in their plan that could be advertised to the academic sector through the IGIC. Additionally, the IGIC has in the past been asked by community colleges to help identify potential audiences for their courses in GIS and its related technologies.</p> <p>STRATEGY: <u>Cadastral Mapping Standards</u> Through the NSDI, the cadastral activities of participating counties were identified. During two separate meetings of cadastral folks, a list of potential issues that need to be addressed either through the IGIC, or through the membership of a separate committee were identified. Several other Midwestern states have worked extensively on modifying the FGDC Cadastral standard for their own state. A similar type of venture based in part from their work, should be attempted by the IGIC</p>

IGIC Mission Area Three: GIS Education

A-1	<p>Goal 4: Increase the awareness and understanding of GIS for decision makers, GIS professionals and the general public in Iowa</p> <p>Objective 1: Educate government officials and representatives on the benefits of GIS, emphasizing its value as an analytical tool supporting problem solving and decision making in Iowa</p> <p>STRATEGY: <u>State GIS Enterprise "Cookbook"</u> Through the current Information Technology Services (ITS), the create and implement a "cookbook" for state government to utilize in planning or enhancing their GIS activities. The long-range plan would be to provide this information to county and local governments, too.</p>
B-2	<p>Objective 2: Develop and promote professional training and certification opportunities in GIS. This effort will be coordinated with software vendors, independent consultants, and academic institutions.</p> <p>STRATEGY: <u>GIS Software & Related Technical Training</u> As is continually requested, the IGIC through ITS, will support the training of Iowans of various GIS software. Additionally, when requested, IGIC will arrange for training at non-ITS facilities. A "training network" of entities that offer the GIS software training will be identified and included in the GIS enterprise "cookbook" as well as being posted to the clearinghouse. Note: In fulfilling one of Emergency Management Division (EMD)'s grant requirement, training to county Emergency Management Coordinators on the use of Global Positioning Systems (GPS) will be conducted over the course of two years.</p> <p>STRATEGY: <u>Metadata Training</u> FGDC is developing guidelines that states can use in conducting metadata training to ensure compliance with metadata standards. Due to the complexity of these standards, time will need to be spent with each participating county to assist in the development of their metadata. (participating counties are those that request assistance and that are developing NSDI data). GIS service providers will be given the opportunity to utilize the guidelines. An attempt to utilize the ICN for this type of training will also be investigated.</p> <p>STRATEGY: <u>Professional Certification for GIS</u> Although professional certification for various individuals that perform GIS functions already exists, such as engineers, planners, etc., staff on both the county/local and state government level often lack the professional recognition they deserve. Research of existing programs nationally will be identified and posted on the clearinghouse. The development of an Iowa-based GIS certification program will be explored through a committee of professionals from the academic institutions and Iowans that would benefit from such a certification program</p>
	<p>Objective 3: Develop and promote GIS educational opportunities for schools and the general public in Iowa. (I really think this one should be here at all costs)</p> <p>STRATEGY: <u>Partner w/Geographic Alliance</u> The National Geographic Society sponsors an alliance of Geography teachers in each state to promote the use and understanding of geography and its related sciences. In Iowa, the Alliance program has been struggling in the recent years. The IGIC could step in and assist in re-establishing the strength this program has provided to many states</p> <p>STRATEGY: <u>Promote existing academic GIS program</u> Identify existing GIS and related technology programs in all academic venues in Iowa. This could be implemented through a survey created through the IGIC Education Committee. This information would be posted to the clearinghouse and promoted through the AEA's and Geographic Alliance.</p> <p>STRATEGY: <u>Dissemination of K-12 Curriculum</u> Various national and academic institution (such as the National Geographic Society) have developed GIS curriculum along with the products that GIS software vendors market. These resources will be identified and marketed to both elementary and secondary education institutions. A partnership for this work will be formed with Iowa's Area Education Agencies (AEA) and Iowa's Geographic Alliance.</p>