



## **IGIC 2009 – 2010 Advocacy Agenda**

The Indiana Geographic Information Council (IGIC) is a 501(c)(3) nonprofit membership organization of GIS users, professionals and educators (<http://www.IGIC.org>). Administered by an elected board of directors, IGIC is recognized as the official statewide coordinating body for Indiana geographic information. In this role, one of IGIC's missions is to be an advocate for State and National geospatial programs, policy and legislation.

In support of geospatial programs for the State of Indiana, IGIC's Legislative Committee is actively working on a number of initiatives to support the IndianaMap. The IndianaMap is IGIC's Cornerstone Project. It is a single statewide map for Indiana. It includes over 200 layers of the geospatial information people need most in a format that is accessible to both expert GIS users and the general public. The IndianaMap currently has no permanent funding, yet IGIC's 2008 return on investment report showed that the IndianaMap 2005 orthophotography project supported over \$1.7 billion in Indiana projects and government operations. To date, the IndianaMap is the product of a portfolio of ongoing projects and in-kind contributions. These projects have focused on gaining consensus on what is needed, building the map layers, educating people on its use, and making it widely available (<http://www.IndianaMap.org>).

In support of national geospatial initiatives, IGIC is an active member and supporter of the Advocacy Agenda of the National States Geographic Information Council (NSGIC). NSGIC is a nonpartisan organization committed to efficient and effective government through prudent adoption of geospatial technology (<http://www.NSGIC.org>). NSGIC voting members include senior state geographic information officers, GIS coordinators, managers, and councils.

The primary focus of NSGIC's Advocacy Agenda are "For the Nation" geospatial initiatives. These initiatives consist of programs for Imagery, Elevation, Parcel Mapping, Transportation, and Broadband Mapping. IGIC strives to keep Indiana's statewide projects integrated with these national goals, allowing Indiana to benefit from any federal program funds that may become available.

The following IGIC advocacy initiatives address key geospatial projects to build out the IndianaMap with several important statewide geospatial data layers. Implementing these initiatives will reduce existing duplication of effort, reduce Indiana taxpayers' burden, increase the efficiency and effectiveness of government, and help stimulate Indiana's economy for the benefit of all of our citizens.

### **IndianaMap Modernization Program**

**Need:** The purpose of the project is to modernize and secure the existing IndianaMap assets and archive and distribute to the public new data acquired in the next four years. Currently comprised of 18 terabytes of data, the IndianaMap supports hundreds of local, regional, state, and federal projects.

The collaboration between the Indiana Geological Survey (IGS) and University Information Technology Services at Indiana University (UITS) is a decisive success. It capitalizes on the strengths of both organizations to provide award-winning services to Indiana's taxpayers. However, more work is needed to create enhanced, faster, and more reliable services.

**Request:** \$3,3 million over 4 years, or \$825,000 per year. Approximately \$400,000 per year is currently expended to maintain the status quo.

## IndianaMap Statewide Orthophotography Program

**Need:** This program is designed to acquire new 1-foot pixel resolution 4-band orthophotography covering the state (counties will have the option to "buy-up" to get 6-inch pixel resolution). This program will optimally start in late winter/early spring 2010. This program is also designed to be directly integrated with the federal "Imagery for the Nation" program should it be funded. As an ongoing program, the state would be broken into three one-year increments in which one third of the state (about 31 counties) would be delivered each year.

The high-quality orthophotography which will result from this project will be made available to the public via existing delivery channels that include web portals ([www.indianamap.org](http://www.indianamap.org)) and fixed media from the State Data Center.

This orthophotography supports a wide range of projects around the state, benefiting economic development, transportation, natural resource management, and public safety. A recent cost/benefit study showed that the 2005 orthophotography supported over \$1.7 billion worth of projects in these and other areas.

**Request:** Statewide - 1/3 State @ \$1.5 million per year on a 3-year rotation cycle.

## IndianaMap Statewide Digital Elevation Data Program

**Need:** Accurate elevation data is required for engineering, flood control, planning, and many other activities at all levels of government. The departments of Natural Resources, Transportation, Environmental Management and Homeland Security, in particular, have great need for the accuracy and detail that a statewide digital elevation project would deliver. The plan and specifications are for DSM/DEM Elevation products and a DTM/2-foot Contour product to be generated from a digital LiDAR elevation data. This project is also designed to be directly integrated with a federal "Elevation for the Nation" program, should it be funded.

**Request:** \$8 million for the statewide LiDAR elevation products over 1 year, and \$15 million for statewide DTM & 2-foot contour products produced over 2 years. 3 years total.

## Indiana Height Modernization Project

**Need:** This project has been developed in collaboration with the Indiana Society of Professional Land Surveyors, and the Indiana Department of Transportation. It is designed to execute the first two phases of height modernization for Indiana. Accurate geodetic positioning information is critical to support public and private GPS surveying technology used in conjunction with traditional surveying, civil engineering and mapping activities across Indiana. Accurate heights play critical

roles in the areas of farming (water drainage), transportation, commerce, and hazard planning and mitigation (flood level determination and mapping).

In 1998, Congress directed the National Geodetic Survey (NGS) to conduct a National Height Modernization study. NGS has been subsequently directed by Congress to implement Height Modernization throughout the nation. Because NGS does not have the resources to do this, each state responsible for creating a height modernization plan and acquiring the funding to implement it. This project implements the first two (critical) phases of Height Modernization in order to establish accurate, reliable, geodetic positioning information across Indiana.

**Request:** \$1.5 million over 2 years, or \$750,000 per year.

### **IndianaMap National Hydrography Dataset (NHD) Updating and Maintenance Project**

**Need:** This project will maintain, update, and improve the National Hydrography Dataset (NHD) data for the watersheds coincident with the state of Indiana. The project partners represent Federal and State agencies with an interest in providing current, accurate, and consistent surface water data to meet NHD local-resolution requirements. Specifically, it will update Indiana's existing statewide high-resolution 1:24,000 (1"=2000' Scale) NHD data with local-resolution hydrography data. This project will produce a new statewide 1:2,400 (1"=200') NHD data set, and define state and local data stewards for ongoing maintenance of the data. NHD modernization in Indiana will support both local government projects and statewide INDOT, IDEM, INDNR, IDHS (FEMA) projects for years to come.

**Request:** \$1.5 million over 2 years, or \$750,000 per year.

### **IndianaMap Data Sharing Initiative (parcels, address points, street centerlines, jurisdictional boundaries)**

**Need:** The State of Indiana Geographic Information Officer (GIO), the Indiana Department of Homeland Security (IDHS), the Department of Local Government Finance (DLGF), and IGIC are implementing a statewide Data Sharing Initiative by partnering with Indiana's counties (50/92 counties to date). This project will harvest and publish local county and city government GIS road centerlines, jurisdictional boundaries, parcels and address points data as OGC Web Feature Services onto the IndianaMap. IGIC has already tested and proven the technology through a separate Address Integration Pilot Project that was funded in 2008 through a USGS Partnership Grant. We will begin harvesting and publishing this data over the next several months. The IDHS is providing the initial grant funding of \$1.37 million to the counties (~\$15k each) to cover the first two years, but additional funding is needed to maintain and expand the project scope on the State side and to turn it into a sustained program (<http://www.in.gov/igic/projects/indianamap/datasharegrants.html>). This program may be directly integrated with the federal "Parcel for the Nation" and "Transportation for the Nation" programs should they be funded.

**Request:** \$3 million over 2 years, or \$1.5 million per year.