2012 National Spatial Data Infrastructure
FGDC Cap Grant - Category 3
Expanding Use of the GIS Inventory System
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Project Title: "Expanding Louisiana's Use of the GIS Inventory System"

Format: Final Report

Organization: The Louisiana Geographic Information Center (LAGIC)
at Louisiana State University in Baton Rouge, Louisiana

Principal Investigator: Craig Johnson, Director

Collaborating Organizations:

USGS Geospatial Liaison for Louisiana
700 Cajundome Blvd.
Lafayette, La. 70506
Phone (337) 262-1466
cretinic@usgs.gov

Louisiana Geographic Information Systems Council
E-313 Howe Russell Bldg.
Louisiana State University
Baton Rouge, LA. 70803
(225) 578-3479 w
growland@ldaf.state.la.us

Executive Summary:

The Louisiana GIS Council is made up of eighteen state agencies and five local
government organizations. Among the State agencies that contributed geospatial data
to the GIS Inventory are the largest state data creators; including the departments of
Environmental Quality, Natural Resources, Homeland Security, Transportation and
Development and the Department of Health and Hospitals. Among the local
government organizations are members of the Louisiana Assessors' Association,
Municipal Association, Police Jury (county) Association, Planning and Development
(MPO's) Districts and the Louisiana Chapter of NENA. In addition to the state and local

members two federal agencies, USGS and FEMA, are also members of the Louisiana GIS Council. LAGIC collaborated with GIS Council members to collect, maintain and distribute Louisiana geospatial data sets and their associated metadata records through the GIS Inventory System. A process was developed for GIS Council members to send updated data records which were then added to the GIS Inventory by LAGIC staff.

Our greatest success was to add over 120 local government data sets to the approximately 100 existing statewide data layers. Our greatest disappointment was that we taught a dozen local government GIS managers how to add their data sets to the inventory and yet only one parish (county) contributed their data sets. The majority of local data sets were added by LAGIC staff. If we had the funding to input additional data sets for local government, we would have hundreds more data layers in the inventory.

Project Narrative:
LAGIC currently acts as a node on the National Spatial Data Infrastructure for the distribution of Louisiana geospatial data and associated metadata records. LAGIC's also hosts a metadata clearinghouse and helps produce a geospatial data DVD with over 300 statewide data sets, everything from hazardous waste sites to Alligator nesting areas.

LAGIC worked with Louisiana GIS Council members and local governments to collect, maintain and distribute geospatial data sets and their associated metadata records through the GIS Inventory System. A process was developed for local government and state council members to send their data records which were then added to the GIS Inventory by LAGIC staff.

Since 2009 we have been working on a series of three cooperative agreements with our USGS State Partnership Office to collect critical infrastructure data in eight of the dozen parishes (counties) that make up the Louisiana Coastal Zone. Among the data sets that have been created or improved are the locations and associated attribute data for educational institutions, public safety offices, healthcare, governmental facilities and community institutions. These data sets, and their associated metadata records, form the basis of our inventory of local government data sets.

Our greatest success was to add over 120 local government data sets to the approximately 100 existing statewide data layers. Our greatest disappointment was that we taught over two dozen local government GIS managers how to add their data sets to the inventory and yet only one parish GIS Manager contributed his parish data sets. The majority of local data sets were added by LAGIC staff. You will find attached a Summary Report which provides a short description of each of the 220 data layers added to the GIS Inventory that were added by LAGIC using FGDC grant funding.

Next Steps: These project activities will continue as long as LAGIC, state and local governments are creating data layers and adding then to the GIS Inventory. It is unlikely that parishes that have not been trained will add data to the GIS Inventory on their own.

There are informal relationships between LAGIC and local governments as well as LAGIC and state agencies, especially those state agencies that are members of the GIS Council. to collect and distribute data sets. Most state and local agencies will rely on LAGIC to make that data discoverable.

The "Next Phase" depends on our success in negotiating contracts with public and private entities to build spatial data layers. This will require our finding the appropriate grants to fund a data development project. That often requires that we partner with state and local agencies.

Our greatest spatial data needs are to build spatial data sets for local government including address data, cadastral info and local infrastructure data.

Photographics, graphics or illustrations: Unfortunately, as I was the sole instructor for our GIS Inventory workshops, I was usually fairly busy during the workshop and not able to photograph the workshop in progress.

Feedback on the FGDC, CAP Program:

1) This CAP Program provided us with the start-up funds to begin the development of the GIS Inventory for Louisiana. Where parishes adopted the GIS Inventory such as St James Parish, just Northwest of New Orleans, we were very successful in implementing the program and it made a difference to the parish.

2) The assistance we received was sufficient and effective for those government agencies that participated. However, the effort took much longer than anticipated. I would recommend a longer time frame to achieve better results.

3) The only factor missing was online information (Brochure or pamphlet) that we could send to prospective local government agencies.

4) If we were to do this program again. I would spend more time teaching about the Inventory to state and local governments prior to asking for their assistance inputting the spatial data.

Louisiana GIS Inventory
Summary Report

Statewide Data Layers	Status	Last Update	Organization	Scale	Published to the web
EMS Stations	complete	March 2013	LSU	1:12000	Yes
Fire Stations	complete	Sept 2012	LSU	1:12000	Yes
Vegetation Index	complete	July 2012	LSU	1:12000	Yes
Mammal Distribution and Habitat	complete	July 2012	LSU	1:24000	Yes
Mammal Distribution and Habitat	complete	July 2012	LSU	1:24000	Yes
Mammal Distribution and Habitat	complete	July 2012	LSU	1:24000	Yes
Mammal Distribution and Habitat	complete	July 2012	LSU	1:24000	Yes
Mammal Distribution and Habitat	complete	July 2012	LSU	1:24000	Yes
Water Pipelines, Major	complete	July 2012	LSU	1:24000	Yes
Shorelines, Other	complete	July 2012	LSU	1:24000	Yes
Aquaculture, Fresh Water	complete	Dec 2012	LSU	1:24000	Yes
Water Districts	complete	May 2012	LSU	1:24000	Yes
Emergency Operations Centers	complete	May 2012	LSU	1:24000	Yes
Urban Growth Areas	complete	May 2012	LSU	1:24000	Yes
Bathymetric Contours	complete	Dec 2012	LSU	1:24000	Yes
Contours	complete	May 2012	LSU	1:24000	Yes
Aquaculture, Salt and Brackish	complete	Dec 2012	LSU	1:24000	Yes
Salinity Levels	complete	May 2012	LSU	1:24000	Yes
Wetlands & Deepwater Habitats	complete	May 2012	LSU	1:24000	Yes
Submerged Aquatic Vegetation	complete	May 2012	LSU	1:24000	Yes

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Statewide Data Layers	Status	Date of Update	Organization	Scale	Published to the web
Wetlands & Deepwater Habitats	**complete**	May 2012	LSU	1:24000	Yes
Migratory Waterfowl Concentration	**complete**	May 2012	LSU	1:24000	Yes
Empowerment & Enterprise Districts	**complete**	May 2012	LSU	1:24000	Yes
Community Colleges	**complete**	May 2012	LSU	1:24000	Yes
Urgent Care Facilities	**complete**	May 2012	LSU	1:24000	Yes
Child Care Centers	**complete**	July 2012	LSU	1:24000	Yes
Public Land Conveyance Offices	**complete**	May 2012	LSU	1:24000	Yes
Index Grids	**complete**	May 2012	LSU	1:24000	Yes
Flood Zones	**complete**	July 2012	LSU	1:24000	Yes
Cellular Phone Towers	**complete**	May 2012	LSU	1:24000	Yes
Dam inventory	**complete**	July 2012	LSU	1:24000	Yes
Oil Well Bottom Hole Locations	**complete**	July 2012	LSU	1:24000	Yes
Oil fields	**complete**	July 2012	LSU	1:24000	Yes
Hydrography	**complete**	May 2012	LSU	1:24000	Yes
Fire & EMS Districts	**complete**	May 2012	LSU	1:24000	Yes
Metropolitan Development Districts	**complete**	May 2012	LSU	1:24000	Yes
County and Parish Boundaries	**complete**	July 2012	LSU	1:24000	Yes
Police Districts	**complete**	May 2012	LSU	1:24000	Yes
LA. Legislative Districts (House)	**complete**	May 2012	LSU	1:24000	Yes
LA. Legislative Districts (Senate)	**complete**	May 2012	LSU	1:24000	Yes

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Zip Codes	complete	July 2012	LSU	1:24000	Yes
Election Districts and Precincts	complete	July 2012	LSU	1:24000	Yes
Geodetic Control Points	complete	July 2012	LSU	1:24000	Yes
Hydrogeology	complete	July 2012	LSU	1:24000	Yes
Business & Commerce	complete	July 2012	LSU	1:24000	Yes
Business & Commerce	complete	July 2012	LSU	1:24000	Yes
School Districts	complete	May 2012	LSU	1:24000	Yes
Aggregate and Mineral Resources	complete	May 2012	LSU	1:24000	Yes
Geophysical Features	complete	July 2012	LSU	1:24000	Yes
Geology Surficial	complete	July 2012	LSU	1:24000	Yes
Soils	complete	May 2012	LSU	1:24000	Yes
Digital Elevation Model (DEM)	complete	May 2012	LSU	1:24000	Yes
Hospitals	complete	May 2012	LSU	1:24000	Yes
Cadastral Surveys	complete	May 2012	LSU	1:24000	Yes
PLSS, Townships & Sections	complete	July 2012	LSU	1:24000	Yes
Ferry Routes	complete	May 2012	LSU	1:24000	Yes
Roads Bridges & Culverts	complete	May 2012	LSU	1:24000	Yes
Road Routes to Waste Disposal	complete	May 2012	LSU	1:24000	Yes
Traffic Analysis Zones	complete	May 2012	LSU	1:24000	Yes
Airports & Airfields	complete	May 2012	LSU	1:24000	Yes

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Ship Channels	complete	May 2012	LSU	1:24000	Yes
Airports & Airfields	complete	Dec 2012	LSU	1:24000	Yes
Evacuation Routes	complete	July 2012	LSU	1:24000	Yes
Navigable Waters	complete	July 2012	LSU	1:24000	Yes
Light Rail Yard & Repair Facilities	complete	July 2012	LSU	1:24000	Yes
Airports & Airfields	complete	May 2012	LSU	1:24000	Yes
Railroad Bridges & Culverts	complete	July 2012	LSU	1:24000	Yes
Road Tunnels	complete	May 2012	LSU	1:24000	Yes
Railroad Lines	complete	May 2012	LSU	1:24000	Yes
Aerial Photography - Uncorrected	complete	Dec 2012	LSU	1:12000	Yes
Aerial Photography - Ortho Image	complete	Dec 2012	LSU	1:12000	Yes
Land Use and Land Cover	complete	July 2012	LSU	1:24000	Yes
Environmental Monitoring (Water)	complete	July 2012	LSU	1:24000	Yes
Hazardous Material Storage Sites	complete	July 2012	LSU	1:24000	Yes
Environmental Monitoring	complete	May 2012	LSU	1:24000	Yes
Public Lands, Other	complete	July 2012	LSU	1:24000	Yes
Nuclear Waste Disposal Sites	complete	May 2012	LSU	1:24000	Yes
Landfills	complete	July 2012	LSU	1:24000	Yes
Wild Lands	complete	July 2012	LSU	1:24000	Yes
Tire Processing Facilities	complete	July 2012	LSU	1:24000	Yes

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Statewide Data Layers	Status	Date of Update	Organization	Scale	Published to the web
Superfund & Toxic Release Sites	complete	July 2012	LSU	1:24000	Yes
Landfills, Hazardous Waste	complete	May 2012	LSU	1:24000	Yes
Incinerators, Hazardous Waste	complete	May 2012	LSU	1:24000	Yes
Nuclear Waste Storage Facilities	complete	May 2012	LSU	1:24000	Yes
Superfund & Toxic Release Sites	complete	Dec 2012	LSU	1:24000	Yes
Sensitive Species Distribution	complete	Dec 2012	LSU	1:24000	Yes
Moss Distribution and Habitat	complete	May 2012	LSU	1:24000	Yes
Animal Distribution and Habitat	complete	May 2012	LSU	1:24000	Yes
Avian Distribution and Habitat	complete	July 2012	LSU	1:24000	Yes
Wildlife Species	complete	May 2012	LSU	1:24000	Yes
Mammal Distribution and Habitat	complete	July 2012	LSU	1:24000	Yes
Rare, Threatened and Endangered Species	complete	May 2012	LSU	1:24000	Yes
Mollusk Distribution and Habitat	complete	May 2012	LSU	1:24000	Yes
Wildlife Management Areas	complete	July 2012	LSU	1:24000	Yes
Mammal Distribution and Habitat	complete	May 2012	LSU	1:24000	Yes
Digital Elevation Model (DEM)	complete	Oct 2012	LSU		Yes

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County and Parish Boundaries	complete	July 2012	LSU	1:24000	Yes
Cadastral Surveys	complete	Oct 2012	LSU	1:24000	Yes
Aerial Imagery (Ortho Images)	complete	Aug 2013	LSU	1:600	Yes
Local & Regional Data Layers					
Universities	complete	March 2013	LSU	1:24000	Yes
Universities	complete	March 2013	LSU	1:24000	Yes
Universities	complete	March 2013	LSU	1:24000	Yes
Universities	complete	March 2013	LSU	1:24000	Yes
Universities	complete	March 2013	LSU	1:24000	Yes
Universities	complete	March 2013	LSU	1:24000	Yes
Universities	complete	March 2013	LSU	1:24000	Yes
Public Health Dept. Locations	complete	March 2013	LSU	1:24000	Yes
Public Health Dept. Locations	complete	March 2013	LSU	1:24000	Yes
Public Health Dept. Locations	complete	March 2013	LSU	1:24000	Yes
Public Health Dept. Locations	complete	March 2013	LSU	1:24000	Yes
Public Health Dept. Locations	complete	March 2013	LSU	1:24000	Yes
Public Health Dept. Locations	complete	March 2013	LSU	1:24000	Yes
Public Health Dept. Locations	complete	March 2013	LSU	1:24000	Yes
Prisons and Correctional Facilities	complete	March 2013	LSU	1:24000	Yes

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Prisons and Correctional Facilities	complete	March 2013	LSU	1:24000	Yes
Prisons and Correctional Facilities	complete	March 2013	LSU	1:24000	Yes
Prisons and Correctional Facilities	complete	March 2013	LSU	1:24000	Yes
Prisons and Correctional Facilities	complete	March 2013	LSU	1:24000	Yes
Prisons and Correctional Facilities	complete	March 2013	LSU	1:24000	Yes
Post Offices	complete	March 2013	LSU	1:24000	Yes
Post Offices	complete	March 2013	LSU	1:24000	Yes
Post Offices	complete	March 2013	LSU	1:24000	Yes
Post Offices	complete	March 2013	LSU	1:24000	Yes
Post Offices	complete	March 2013	LSU	1:24000	Yes
Post Offices	complete	March 2013	LSU	1:24000	Yes
Post Offices	complete	March 2013	LSU	1:24000	Yes
EMS Stations	complete	March 2013	LSU	1:12000	Yes
EMS Stations	complete	March 2013	LSU	1:12000	Yes

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EMS Stations	complete	March 2013	LSU	1:12000	Yes
EMS Stations	complete	March 2013	LSU	1:12000	Yes
EMS Stations	complete	March 2013	LSU	1:12000	Yes
EMS Stations	complete	March 2013	LSU	1:12000	Yes
EMS Stations	complete	March 2013	LSU	1:12000	Yes
EMS Stations	complete	March 2013	LSU	1:12000	Yes
EMS Stations	complete	March 2013	LSU	1:12000	Yes
Hospitals	complete	March 2013	LSU	1:12000	Yes
Hospitals	complete	March 2013	LSU	1:12000	Yes
Hospitals	complete	March 2013	LSU	1:12000	Yes
Hospitals	complete	March 2013	LSU	1:12000	Yes
Hospitals	complete	March 2013	LSU	1:12000	Yes
Hospitals	complete	March 2013	LSU	1:12000	Yes
Hospitals	complete	March 2013	LSU	1:12000	Yes
Hospitals	complete	March 2013	LSU	1:12000	Yes
Banks and Financial Services	complete	March 2013	LSU	1:12000	Yes
Banks and Financial Services	complete	March 2013	LSU	1:12000	Yes
Banks and Financial Services	complete	March 2013	LSU	1:12000	Yes
Banks and Financial Services	complete	March 2013	LSU	1:12000	Yes
Banks and Financial Services	complete	March 2013	LSU	1:12000	Yes
Banks and Financial Services	complete	March 2013	LSU	1:12000	Yes
Banks and Financial Services	complete	March 2013	LSU	1:12000	Yes
Banks and Financial Services	complete	March 2013	LSU	1:12000	Yes
Pharmacy Locations	complete	Sept. 2012	LSU	1:12000	Yes

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Pharmacy Locations	complete	Sept. 2012	LSU	1:12000	Yes
Pharmacy Locations	complete	Sept. 2012	LSU	1:12000	Yes
Pharmacy Locations	complete	Sept. 2012	LSU	1:12000	Yes
Pharmacy Locations	complete	Sept. 2012	LSU	1:12000	Yes
Pharmacy Locations	complete	Sept. 2012	LSU	1:12000	Yes
Pharmacy Locations	complete	Sept. 2012	LSU	1:12000	Yes
Pharmacy Locations	complete	Sept. 2012	LSU	1:12000	Yes
Pharmacy Locations	complete	Sept. 2012	LSU	1:12000	Yes
Pharmacy Locations	complete	Sept. 2012	LSU	1:12000	Yes
Schools K-12	complete	Sept. 2012	LSU	1:12000	Yes
Schools K-12	complete	Sept. 2012	LSU	1:12000	Yes
Schools K-12	complete	Sept. 2012	LSU	1:12000	Yes
Schools K-12	complete	Sept. 2012	LSU	1:12000	Yes
Schools K-12	complete	Sept. 2012	LSU	1:12000	Yes
Schools K-12	complete	Sept. 2012	LSU	1:12000	Yes
Schools K-12	complete	Sept. 2012	LSU	1:12000	Yes
Schools K-12	complete	Sept. 2012	LSU	1:12000	Yes
Schools K-12	complete	Sept. 2012	LSU	1:12000	Yes
Schools K-12	complete	Sept. 2012	LSU	1:12000	Yes
Libraries	complete	Sept. 2012	LSU	1:12000	Yes
Libraries	complete	Sept. 2012	LSU	1:12000	Yes
Libraries	complete	Sept. 2012	LSU	1:12000	Yes
Libraries	complete	Sept. 2012	LSU	1:12000	Yes

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Libraries	complete	Sept. 2012	LSU	1:12000	Yes
Libraries	complete	Sept. 2012	LSU	1:12000	Yes
Libraries	complete	Sept. 2012	LSU	1:12000	Yes
Libraries	complete	Sept. 2012	LSU	1:12000	Yes
Libraries	complete	Sept. 2013	LSU	1:12000	Yes
Houses of Worship	complete	Sept. 2013	LSU	1:12000	Yes
Houses of Worship	complete	Sept. 2013	LSU	1:12000	Yes
Houses of Worship	complete	Sept. 2013	LSU	1:12000	Yes
Houses of Worship	complete	Sept. 2013	LSU	1:12000	Yes
Houses of Worship	complete	Sept. 2013	LSU	1:12000	Yes
Houses of Worship	complete	Sept. 2013	LSU	1:12000	Yes
Houses of Worship	complete	Sept. 2013	LSU	1:12000	Yes
Houses of Worship	complete	Sept. 2013	LSU	1:12000	Yes
Houses of Worship	complete	Sept. 2013	LSU	1:12000	Yes
Grocery Stores	complete	Sept. 2013	LSU	1:12000	Yes
Grocery Stores	complete	Sept. 2013	LSU	1:12000	Yes
Grocery Stores	complete	Sept. 2013	LSU	1:12000	Yes
Grocery Stores	complete	Sept. 2013	LSU	1:12000	Yes
Grocery Stores	complete	Sept. 2013	LSU	1:12000	Yes
Grocery Stores	complete	Sept. 2013	LSU	1:12000	Yes
Grocery Stores	complete	Sept. 2013	LSU	1:12000	Yes
Grocery Stores	complete	Sept. 2013	LSU	1:12000	Yes

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Fire Stations	complete	Sept. 2013	LSU	1:12000	Yes
Fire Stations	complete	Sept. 2013	LSU	1:12000	Yes
Fire Stations	complete	Sept. 2013	LSU	1:12000	Yes
Fire Stations	complete	Sept. 2013	LSU	1:12000	Yes
Fire Stations	complete	Sept. 2013	LSU	1:12000	Yes
Fire Stations	complete	Sept. 2013	LSU	1:12000	Yes
Fire Stations	complete	Sept. 2013	LSU	1:12000	Yes
Fire Stations	complete	Sept. 2013	LSU	1:12000	Yes
Detention Centers	complete	Sept. 2013	LSU	1:12000	Yes
Detention Centers	complete	Sept. 2013	LSU	1:12000	Yes
Detention Centers	complete	Sept. 2013	LSU	1:12000	Yes
Detention Centers	complete	Sept. 2013	LSU	1:24000	Yes
Detention Centers	complete	Sept. 2013	LSU	1:24000	Yes
Detention Centers	complete	Sept. 2013	LSU	1:24000	Yes
Detention Centers	complete	March 2013	LSU	1:24000	Yes
Court Buildings	complete	Sept. 2013	LSU	1:12000	Yes
Court Buildings	complete	Sept. 2013	LSU	1:12000	Yes
Court Buildings	complete	Sept. 2013	LSU	1:12000	Yes
Court Buildings	complete	Sept. 2013	LSU	1:12000	Yes
Court Buildings	complete	Sept. 2013	LSU	1:12000	Yes
Court Buildings	complete	Sept. 2013	LSU	1:12000	Yes
Court Buildings	complete	Sept. 2013	LSU	1:12000	Yes
Court Buildings	complete	Sept. 2013	LSU	1:12000	Yes