Leading Louisiana...Baton Rouge G.I.S.

Louisiana Remote Sensing and G.I.S. Workshop
Lindy C. Boggs Conference Center
New Orleans, Louisiana

Baton Rouge

April 8, 2008
Warren L. Kron, Jr.
Justin Priola
Presentation Outline

- Introduction (Warren Kron)
- History (Warren Kron)
- East Baton Rouge Parish G.I.S. (Justin Priola)
- Conclusion (Warren Kron)
- Questions and Comments
City of Baton Rouge and Parish of East Baton Rouge

- Until 1949 a loose and uncoordinated form of government, known in Louisiana as a police jury, struggled with the affairs of parish government.

- On January 1, 1949 the current Plan of Government went into effect and abolished the police jury and the city commission council.

- The Plan of Government created a consolidated system of a single unified government for city and parish.
Baton Rouge created its City Planning Commission in 1941 under the provisions of State Act No. 204, written in 1926, and Section 33 of the Louisiana Revised Statutes.

In 1949, after the consolidated government came into being, the name changed to City-Parish Planning Commission.

There are four divisions within the Planning Commission:

- Administration
- Advance Planning and Research
- Current Planning
- Geographic Information System
Planning Commission Staff

Administration Division
- Director
- Assistant Director
  - Senior Administrative Assistant
    - Sr. Clerical Specialist III

Current Division
- PLANNER IV
  - Administrative Specialist I
  - Sr. Clerical Specialist III
  - Sr. Clerical Specialist III
  - Zoning
    - PLANNER III
    - PLANNER II
  - Subdivision
    - PLANNER III
    - PLANNER II
  - Resource
    - PLANNER III
    - PLANNER II

Advance Division
- PLANNER IV
  - Administrative Specialist I
  - Sr. Clerical Specialist III
  - Land Use and Special Studies
    - PLANNER III
    - PLANNER II
  - Economic and Demographic Research
    - PLANNER III
    - PLANNER II

GIS Division
- PLANNER IV
  - Project Development
    - PLANNER III
    - PLANNER II
  - Mapping and Analysis
    - PLANNER III
    - INTERNS
Introduction

Advance Planning

- Horizon Plan
  - Land Use
  - Transportation
  - Environment and Conservation
  - Recreation and Open Space
  - Housing
  - Public Facilities and Services
  - Wastewater and Drainage
- Economics, Demographics, and Environment
  - Brownfields
  - Grants
  - Census
  - Best Management Practices

Current Planning

- Unified Development Code (U.D.C.)
- Planning
  - Subdivisions
  - Revocations
  - Waivers
  - Historic Designations
- Zoning
  - Zoning and Land Use Amendments
  - SPUD, PUD, TND
  - Site Plans
- Resource Center
  - Land Development Applications
  - Zoning Verification
  - Public Information
G.I.S. Program Development

- April 2, 1992, the Comprehensive Plan for Growth and Development known as the “Horizon Plan” is adopted.
  
  Horizon Plan Action Item LU2.D states “develop a parish-wide Geographic Information System”

- Fall of 1993, the Mayor’s Chief Administrative Officer appoints a G.I.S. Committee
  
  Initial G.I.S. Committee representatives
  - D.P.W.
  - E.M.S.
  - M.I.S.
  - Planning Commission
  - Police and Fire Departments
Partnering with the U.S.A.C.E.

- In 1995, East Baton Rouge Parish entered into an agreement with the United States Army Corps of Engineers (U.S.A.C.E.) to provide digital aerial photography.

- In 1996, a second agreement with the U.S.A.C.E. was made to conduct a Needs Analysis of 12 City-Parish Departments with respect to implementing an Enterprise G.I.S.

- After a second City-Parish Departmental study in 2001, a Memorandum of Understanding was made between the City-Parish and U.S.A.C.E. to improve accuracy of existing layers while also allowing the creation of new layers for the Enterprise G.I.S.
1996 Needs Analysis

City-Parish G.I.S. Evaluation Process
  A. Needs analysis
  B. Conceptual database design
  C. Preliminary feasibility study
  D. Logical database design

Study Costs
  • $200,000 split between Federal and Non-Federal funds

Completed in July 1997
2001 City-Parish Departmental Study

- Office of the Planning Commission
- Department of Public Works
- Information Services
- Office of Emergency Preparedness
- 911
- Fire and HAZMAT

- Police Department
- School Board
- BREC
- Landscape and Forestry
- Downtown Development District
- Office of Community Development
City-Parish Recommended Data Layers

- **Aerial Photos** - As previously collected from City-Parish - U.S.A.C.E. Project
- **Hydrology** - Rivers and stream networks
- **Transportation** - Roads and railroads
- **Street Centerlines** - Including address ranges
- **Subdivision** - Lot and parcel boundaries with zoning and land use attributes
- **Building Footprints** - Including precise municipal addresses
- **Political Boundaries** - City limits, metro council, voting precincts, wards
- **E.B.R.P. Departmental Layers** - Census, sewer system, and traffic data
- **Land Use and Land Cover** - Agriculture, industry, and vegetation
- **Digital Elevation Model (D.E.M.)** - Produce contours for flood modeling
Implementation and Budget

• Provide five (5) new staff positions at Office of the Planning Commission to collect and “feed” data to the consultants
• Purchase hardware and software
• Staff Training
• Install a centralized G.I.S. server for data storage and retrieval
• Create a City-Parish G.I.S. Manager position
• Sub-contract the work associated with creating an E.B.R.P. G.I.S. base map

- Budget for Document Management System (D.M.S.) ± $314,000
- Budget for GIS Implementation ± $4,800,000
- Total Budget for Two-Year Period ± $5,100,000
- U.S.A.C.E. Contributions (FY 02 - FY08) $2,439,000
History

Milestones

1992
- Horizon Plan adopted
- 1st GIS Committee appointed

1993
- EBRP GIS Needs Analysis initiated

1995
- 1st digital photography taken

1996
- EBRP GIS Needs Analysis complete

1997
- FY 08 Federal Funding received

2001
- GIS Public Website launched
- Access data migrated to Oracle

2004
- Contract GIS work with USACE

2005
- USACE work delivered

2007

2008

FY 08 Federal Funding received
G.I.S. Committees

- **Core**
  Mayor and Department Heads

- **Technical**
  Inter-departmental G.I.S. Staff

- **Educational**
  Managers, Inter-departmental G.I.S. Staff, and Consultants
G.I.S. Core Committee

- Office of the Mayor-President
- Office of the Planning Commission
- Department of Public Works
- Information Services Department
- Office of Emergency Preparedness
East Baton Rouge Parish G.I.S.

Base Map and Attribute Data

- ± 180,000 lots
- 30+ attributes per lot
- 50+ graphic layers
- Four agencies maintain and update data
- All data stored in Oracle Spatial
- GeoMedia Professional 6.0 software
Attributes Collected for Lots

- Planning District
- Subarea
- Lot and Block Map
- Lot Number
- Subdivision
- Block Number
- Property Name
- Address Number
- Street Name
- Traffic Analysis Zone
- Business Name
- N.A.I.C.S.
- Existing Land Use
- Horizon Land Use
- Zoning
- Flood Zone
- City Limits
- Council District
Graphic Layers

- Aerial Photography
- Building Footprints
- Census Tracts and Block Groups
- City Limits
- Conservation Areas
- Council Districts
- Enterprise Zones
- Fire Districts
- Flood Zones
- Growth Centers
- Hydrology
- Industrial Areas
- Infrastructure

- Lots
- Parcels
- Planning Districts and Subareas
- Police Districts
- Railroads
- Recycling and Garbage Districts
- School Districts
- Soils
- Street Centerlines
- Subdivision Boundaries
- Voting Districts
- Watersheds and Wetlands
- Zip Codes
- Zoning
East Baton Rouge Parish G.I.S.

http://gis.brgov.com/maps
Display Aerial Photography
East Baton Rouge Parish G.I.S.

Display Lots and Street Right-of-Way
Property Details for: 433 GOVERNMENT ST

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<tr>
<th>Property Information</th>
<th>Lot ID: 020140742</th>
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<tbody>
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<td>Address:</td>
<td>433 GOVERNMENT ST</td>
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<tr>
<td>Lot Number:</td>
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<tr>
<td>Business Name:</td>
<td>BATON ROUGE CITY-PARISH EMPLOYEES FCU</td>
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<td>Planning District:</td>
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<td>Sub Area:</td>
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<td>Lot &amp; Block:</td>
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<td>Subdivision:</td>
<td>BEAUREGARD TOWN (N. OF GOVT ST)</td>
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<td>Zoning:</td>
<td>C2 Yard Requirements</td>
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<td>DOTD Number:</td>
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<td>Existing Land Use:</td>
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<td>Census Tract:</td>
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<td>Census Block:</td>
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<th>Jurisdiction Information</th>
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<td>City Limits:</td>
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<td>Baton Rouge</td>
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<tr>
<td>Zip Code:</td>
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<tr>
<td>Police District:</td>
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<td>North Baton Rouge #1</td>
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<td>Enterprise Zone:</td>
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<td>Industrial Area:</td>
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<td>LA House of Representatives:</td>
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<td>LA Senate:</td>
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<tr>
<td>CEPW Maintenance Lot:</td>
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<tr>
<td>South Service Lot:</td>
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<td>Garbage Service:</td>
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<td>Trash Service:</td>
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<td>Recycle Service:</td>
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<td>Mosquito Control: CS4 Zone</td>
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Print Close
Planning Maps

Planning
Zoning Thematic

Major Street Plan
C.P.P.C. G.I.S. Applications

- Application Tracking System
  Manages Land Development Applications

- Document Management System
  Links official maps and documents to the G.I.S.

- Economic Development Website
  Online G.I.S. tool for public use

- Planning Advisor
  Web application for Staff, Planning Commission, and Metro Council
Leadership

- January 2004 - Launch 1st G.I.S. Website in Louisiana
  - GeoSpatial Award from Intergraph Corporation
  - Outstanding Planning Award from LA-American Planning Association
  - Merit Award from LA-American Society of Landscape Architects
- August 2005 - Migrate Data from Access to Oracle
- 2005 - Launch Historic Land Development Website
  - Public Education Award from LA-American Planning Association
- 2006 - Initiate Development of Planning Advisor
- December 2007 - Launch Application Tracking System
- January 2008 - Reorganize G.I.S. Division
  - Project Development
  - Mapping and Analysis