Real Estate Inventory and GIS Database
Louisiana Department of Transportation and Development
In 2001, the State of Louisiana acquired SAP software to manage its statewide payroll system. Since then, Louisiana has invested in a suite of SAP software, known collectively as LaGov, to manage many other business processes.

The Louisiana Department of Transportation (LDOTD) was selected as the first agency in the State to implement the use of SAP’s Enterprise Resource Planning (ERP) software. A key component of the SAP suite of software which works in concert with the ERP software provides for lifecycle management of real estate assets. Louisiana is currently customizing the SAP product, which we know as the RE Module, to meet the needs of LDOTD in managing our real estate activities.

When implemented, the RE Module will replace our current real estate management software known as AARS.
Legacy real estate data is currently stored in various locations.
Our ROW database from 2002 (AARS) is now stand-alone.
LaGov currently has a limited RE module with parcel data for properties acquired since 2010.
Goals for Real Estate Data Environment

• Have complete records of all real estate purchased by DOTD and its predecessors
• Ability to query data by many different criteria
• Ability to query the data through a GIS application
• Map, as a polygon, every piece of real estate owned by the Department
Benefits of Mapping Polygons

– The display of the polygons on a map will enhance research.

– Missing sections of real estate along a section of highway will highlight the need for additional records research.

– Color coding the polygons by nature of ownership or status will enhance our ability to identify property management activities needing attention.
Current Initiatives to Address Data Needs

• Completion of the RE Module of LaGov – The amount of customization achieved will determine how much property management can be done in LaGov.

• Completion of a collection and mapping of DOTD’s real estate holdings – This will be the hub of our non-LaGov management tools.
The original plan was to replace AARS with the LaGov RE module.

Although the RE module is highly configurable, we are not a priority project and may not get enough customization to perform all of our property management activities in LaGov.

We expect to be able to report all of our real estate revenue and expenses from LaGov.

At this time we expect to have a data gap that will need to be filled with a new resource outside LaGov.

The new resource will be a new Inventory/GIS database.
Pilot Project to Map ROW Inventory

• We engaged a consultant on a fixed fee contract, with a maximum $50,000 to inventory two parishes.

• They were to obtain scans of instruments at the courthouses and map the instruments in relation to our highway control sections.
Clicking on a highway brings up a pop-up that leads to related data.
Pilot Project to Map ROW Inventory

- The list of records for a highway control section contains data and a link to the scan which opens in Adobe.
## Pilot Project – Lessons Learned

<table>
<thead>
<tr>
<th>Problem or Need</th>
<th>Mitigating Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copy charges were higher than anticipated</td>
<td>• Increase budget accordingly</td>
</tr>
<tr>
<td></td>
<td>• Have DOTD staff review records before paying for copies</td>
</tr>
<tr>
<td></td>
<td>(eliminate unnecessary records)</td>
</tr>
</tbody>
</table>
## Pilot Project – Lessons Learned

<table>
<thead>
<tr>
<th>Problem or Need</th>
<th>Mitigating Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consultant did not retrieve all records for the area</td>
<td>• Provide improved department name lists</td>
</tr>
<tr>
<td></td>
<td>• Have staff review courthouse index listings for completeness</td>
</tr>
<tr>
<td></td>
<td>• Have staff review records for reasonableness – if they know a</td>
</tr>
<tr>
<td></td>
<td>section of road is missing, dig deeper</td>
</tr>
<tr>
<td>Problem or Need</td>
<td>Mitigating Activities</td>
</tr>
<tr>
<td>----------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>We have been approved for $3 million to inventory the entire state. – How to stay within budget?</td>
<td>• Control copy costs as shown above</td>
</tr>
<tr>
<td></td>
<td>• Control labor costs by combining DOTD staff supervision with contract labor</td>
</tr>
<tr>
<td></td>
<td>• Divide the project into two components - data gathering and mapping – we obtain a complete inventory before beginning to map</td>
</tr>
</tbody>
</table>
Proposed New GIS ROW Inventory Databases

- We are storing the data and scans in two separate places
  - The data resides in a “Sequel” SQL database
    - SQL is versatile enough to work well with various other software
  - The scans will be in Content Manager
  - There will be a field in the data that identifies the scan and will eventually be linked
Proposed New GIS ROW Inventory Databases

- Our Location and Survey section has individual parcel maps in a GIS database for the past 6 years of projects.
- We may link to their data or have to build a new GIS database that will meet our needs.
We plan to enhance our research by having as much query capability as possible to allow us to query all of our sources of data and combine the data for any needed reports.

Having Open Data Base Connectivity (ODBC) means that we are more likely to be able to use various off-the-shelf software with limited need for sophisticated IT support.
Benefits of Our New Databases

• With a complete inventory, we will have greatly enhanced processes for researching all property management questions.

• With good data, we can be much more proactive in our property management activities.

• As we work in the new databases, opportunities will continue to arise for us to identify apparently missing records or data inaccuracies. The data quality will likely improve over time.
Contact Information / Questions?

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QUESTIONS?