GIS Basics: Keeping It Simple

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Where Are We?
Introduction to the CATALIS Project

营利 The CATALIS Project
- Clinton County
- Automated
- Topographic
- Aspatial
- Land
- Information
- System
The CATALIS Project

- A consortium of members which include:
  - County engineers office
  - County engineers tax map office
  - County auditors office
  - Regional planning commission
  - Building and zoning department
  - City engineers office
  - Emergency management agency
  - Realtors association
  - Soil and water conservation district
  - Health department
  - County bar association
Steps to Building a Successful GIS Program

- Create an Identity – and KEEP IT!
- Form a GIS Committee Decide on a Logo for the newly formed GIS Department.
- Come up with an ACRONYM to describe your program.
- Understand the difference between a Project and a Program.
Project vs. Program

● Project.
  – Implies a beginning and an ending.
  – It is difficult to get people to equate the word “Project” with something other than a ONE DEPARTMENT activity or task.
  – PROJECT = TASK.

● Program.
  – Beginning with no solid ending.
  – Easier for people to understand that the word program involves the COOPERATION of many.
  – PROGRAM = TASK(S).
GIS Programs & Applications

- ESRI’s
  - ArcView 3.2
  - ArcGIS Suite of Products
  - ArcIMS
  - ArcExplorer

- CAD Products
  - AutoCAD 2000
  - AutoCAD Map
GIS Programs and Applications
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ESRI’s *ArcPad* & Compaq’s *iPaq*
ArcPad In Action…
MrSID Viewer
GIS Is All About…

- Collecting Data
- Using Data
- Sharing Data
- Turning Data into *Information*
Means of Location

- Geocoding
- Address Matching
- Querying
Finding Your Place In The World:

Address Matching.

- Address matching is a process that compares two addresses to determine if they are the same.
Example of Address Matching

- Question:
  Where is Pete’s Bar and Grill on Halpin Road?
Finding Your Place In The World: **Geocoding**

- **Geocoding.**
  - Address geocoding is a process that creates a theme based on address data that can be displayed with other themes in a view.
Example of Geocoding

- Question:

  Where are ALL of the famous Pete’s Bar & Grills?
Querying Data
Where Does The Data Come From?

- The Stork?
- Witchcraft?

Sometimes it just takes Work
Difficulties Inherent With Some Data Sets
TIGER Data: Free to Download

The more rural the area, the less accurate TIGER data seems to be.
GIS Data Consists of Layers Information

The Foundation of GIS Data

Layers on a Cake

Layers of a GIS
Data Types

Two Kinds of Data:

*Graphical & Non-Graphical*

Data Layer LINKED to a Database
Non-graphic to Graphic

County Address Database Extract
Conclusion

Building a GIS does not have to be an extreme effort in futility and frustration. With the proper planning, partnership, and personnel, your effort does not have to be related to placing round pegs into square holes or vice-versa.
Thanks For Your Time!

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