Professional Land Surveyors of Ohio

2009 ANNUAL CONFERENCE

GIS Activities and Initiatives In the State of Ohio





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Surveyor's Use of Geographic Information Systems

Dean Ringle, P.E., P.S.

Franklin County Engineer

OGRIP GIS Activities and Initiatives
Stu Davis & Jeff Smith
Ohio Geographically Referenced Information Program

ODOT GIS Data and Use

Dave Blackstone

Ohio Department of Transportation



OSIP Specification, Equipment and Technology
Bob Brinkman, CP, PLS, Project Director
Woolpert, Inc

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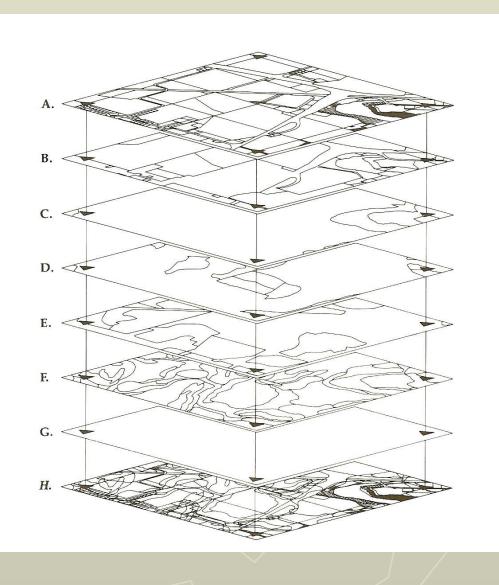


Surveyor's Use of Geographic Information Systems

What Information is Available?

What Accuracy?

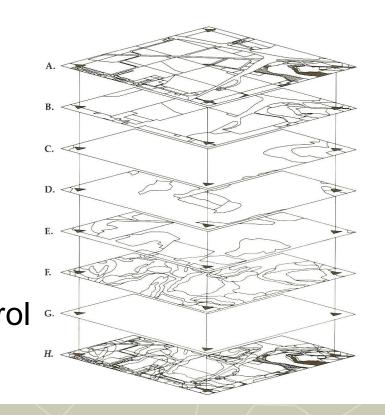
Can it meet your need?



Concept for a Multipurpose Land Information System

Survey Control

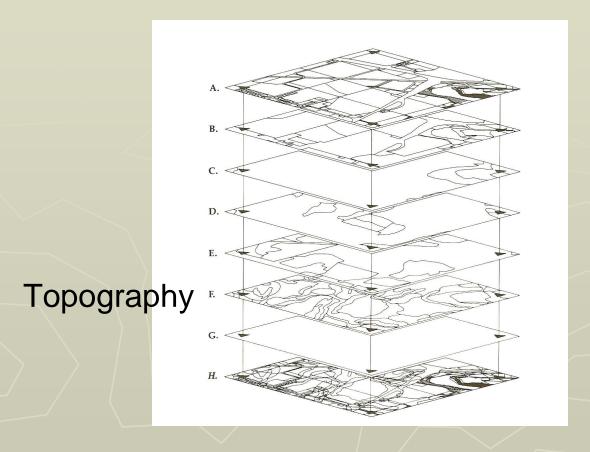
(Horizontal & Vertical Control, PLSS Corners)



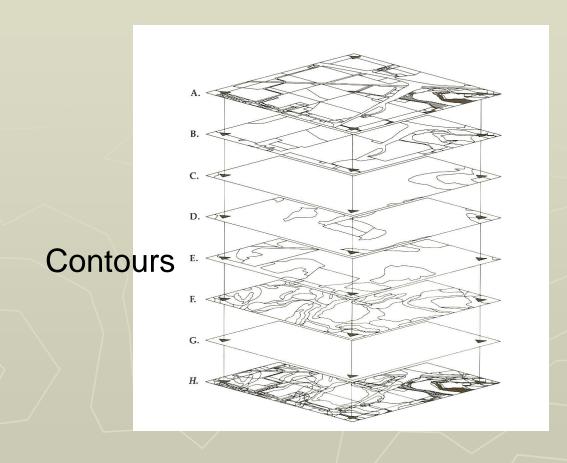
Survey Control

Topography

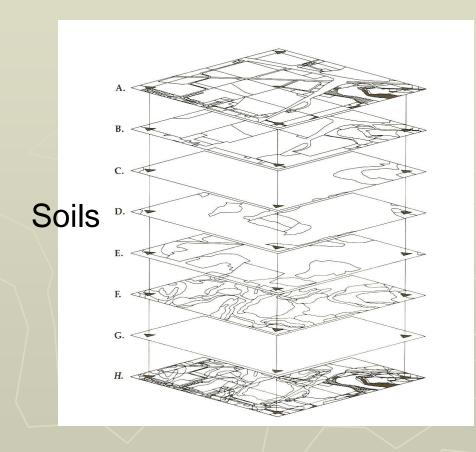
(Land Features, buildings, pavement, driveways, etc)



Contours

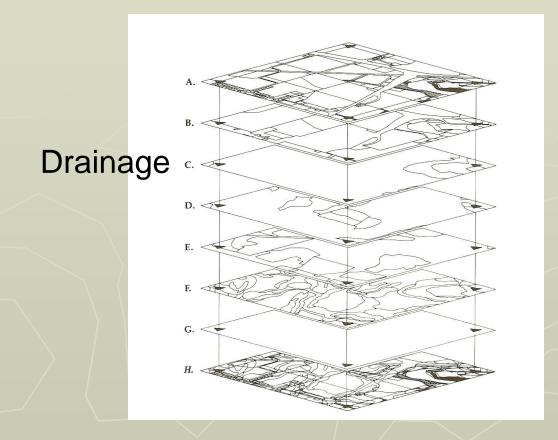


Soils



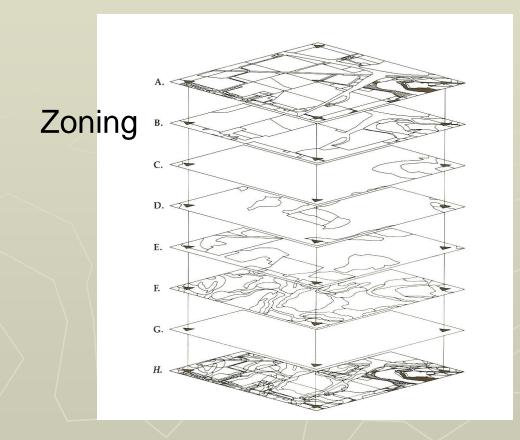
Drainage

(Waterways, Floodplains, Floodways, Wetlands)



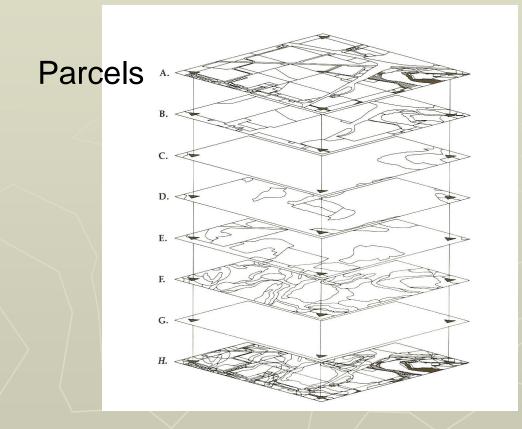
Zoning Overlays

(Zoning, Taxing Districts, School Districts, Annexations)



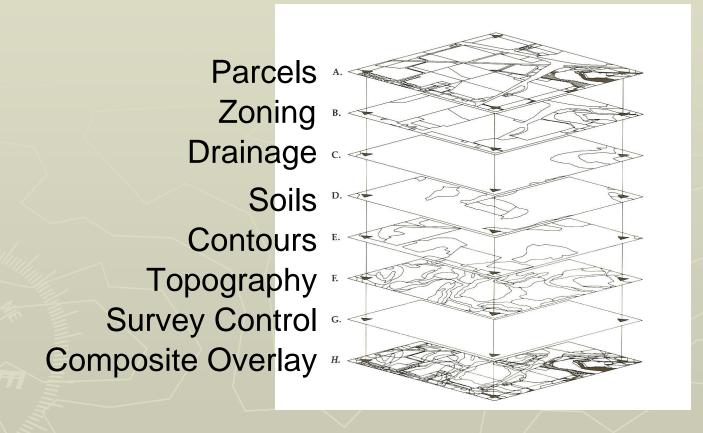
Parcel Information

(Property Lines, Road Centerlines, Easements, Rights-of-Ways)



Composite Overlay

(Combination of Layers)



Other Items

- ▶ Utilities
 - Above and below ground
- ► Aerial Photos
- ▶ Historical Data
- Non-graphical Data
 - Survey Data
 - Tax/Property Data
 - Recorder's Data
 - ▶ Deed records
- ▶ Other Non-graphical Data

Preliminary Planning

Aerial Photo added as Background



Aerial Photos



- Survey Planning
 - Wooded, lay of land, drainage, floodplains
 - Prep for field recon of property corners
- Court Appearances
- ► Property Owners Like Aerial Photos!

Adding Contour Layer

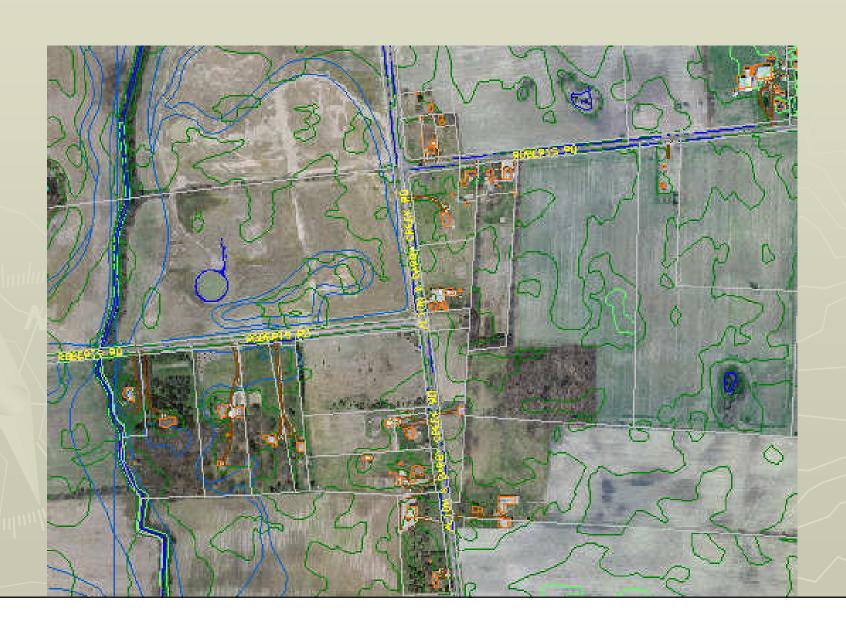
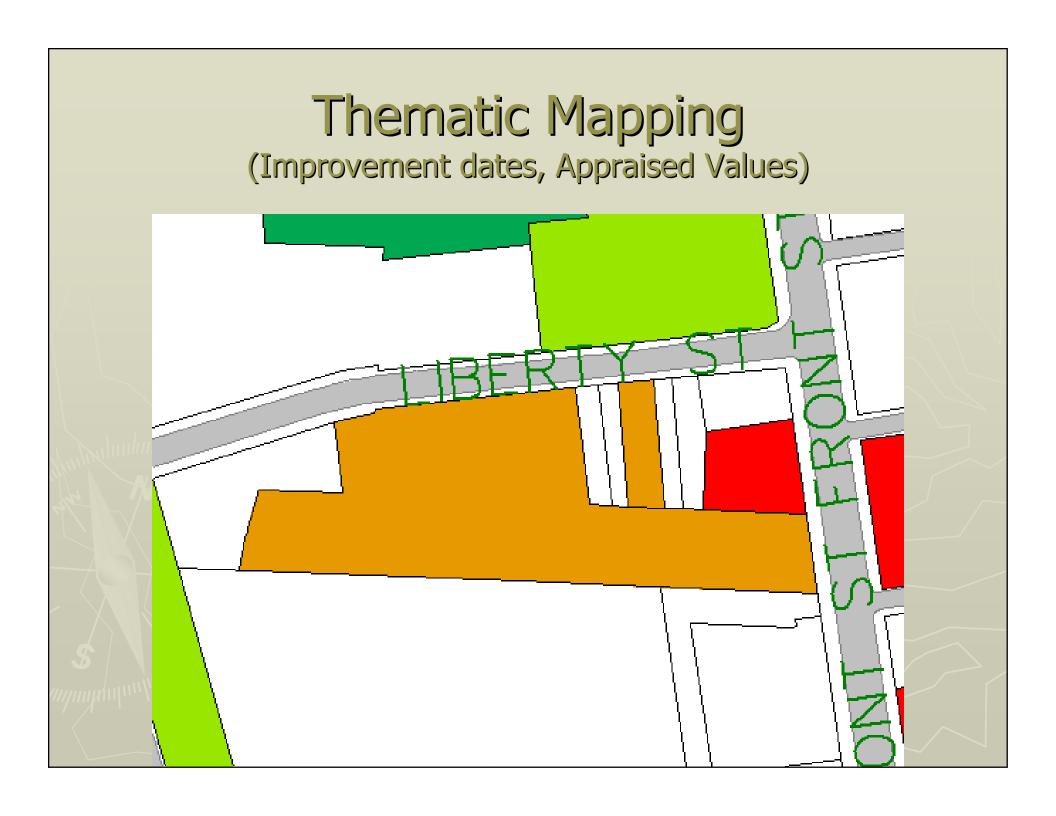


Photo of Structures

(Non-Graphical Data)



Parcel Mapping 5 FRONT LIBERTY 57 HOS 5



Other Uses

- ► Infrastructure Inventory
- ► Forensics/Crime Analysis
- ► FEMA/Elevation Information
- **▶** Jurisdictional Areas
 - Annexations
 - School boundaries



