GIS as a Management Tool: City Perspective

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City of Indianapolis/Marion County
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Presentation to Purdue Road School

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Dave Mockert, GIS Administrator
Gary Vandegriff, DPW Administrator
John Burkhardt, DPW Administrator
Agenda

- Geographic Information System (GIS) Overview
- History of GIS in Indianapolis
- Current activities at Indy GIS
- GIS in Permitting - Digital Plan Submissions
Geographic Information Systems (GIS) Overview

- Spatial location of information
- Hardware, software, and system
- Data
- Applications
- People
Enterprise Solution

- 30 City departments and County agencies supported
- 160 Layers of information
- 503 City/County GIS Desktop Users
- Making it easy
- Goal is to improve business processes
- Web interface
Technical Advantage

- Decrease cost of sharing information within enterprise
  - Data Viewer

- Tools for reducing time for inventory of data
  - ADA Ramp Inventory
ADA Ramp Inventory

Select the name of the street the ramp faces from the street and cross street
Operations Applications

- Interface with Hansen IMS
- Create and manage work orders
- Assist in data collection and field crew operations
- Increased efficiencies of work crews
Chuckhole Manager
Chuckhole Manager

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Solid Waste Route Balancer

Collection Routes
- Collection Points
- Disposal Sites
  - Landfill
  - Recycling
  - Transfer

Selected Route ID's
- Solid Waste Routes

Calculations
- Collection Points: 1674
- Collection Units: 1904
- Tonnage: 31.5549
- Average Volume per Collection Point: 37.7
- Estimated Centerline Miles: 7.85998
SnowFighter

Snow Fighter
City of Indianapolis
SnowFighter

City Employee

Workorder No: 568350
Pay Type: Regular

Driver ID: 106
Truck No: 860005

Start Time

Clock In

Date: 10/06/1999
Time: 04:00 PM

Snow Route

Area: 12
Route: 2
Properties

Comments

Advanced...
Delete

New Dispatch Complete Close
Permitting Process Issues

Indianapolis Objectives

- Improve service to public
- Attract investment
- Build better neighborhoods
- Leverage technology to solve business problems
GIS in Permitting Process

- Move to a digital permitting environment
- Integrated database on compatible platforms
- Integration of GIS into permitting process
- GIS as address data source
Digital Plan Submissions

- Digital As-Builts Provided by Contractors and Engineers
Serving it up to the Public -
Web Applications

- Web Data Viewer
- Property Viewer
- Polling Place Locator
- Government Profile
- IndyGo Bus Routes
Web Viewer

WWW.indygov.org/gis/
Future of GIS

- Web-based GIS
- Interactive and integrated solutions
- Data sharing, satellites, and mobile operations
- Object oriented/Open environment
Concluding Statements

- GIS is more than a mapping tool
- Interfacing with existing data
- Reduction of paper
- More efficient workflows
- Solving business problems