How GIS-Infused Mobile Solutions Help Local Governments Meet Tough Challenges

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I. GIS-Infused Solutions Overview

II. Case Studies
   A. Charlotte Co, FL
   B. Westminster, CO
   C. McAllen, TX

III. Q&A
GIS Infused Mobility

Allows organizations to leverage their investment in GIS from any location – behind the desk, through the Web, and out in the field
Technology

I. Accela Automation Web-based App
   • Microsoft Silverlight control
   • ArcGIS Server
   • ArcGIS Server Network Extension

II. Accela Mobile Office
   • WPF application
   • ArcGIS Server
   • ArcGIS Engine for Offline Mapping
   • Network Extension for ArcGIS Engine*
Case Studies
OVERVIEW

Charlotte Co, FL

- Population: 150,000+
- Size: 859 Sq Miles
  - 694 square miles is land
  - 166 square miles is water

Comprehensive plan for County includes the mission to guide and control future development while protecting environmental and economic resources
In 2004 Charlotte County was devastated by Hurricane Charley.

Rebuilding was necessary in many locations in the county.

As Economy Weakened:
- Less building
- Fewer permits
- Budget cuts
Building Department: Suspend hiring seasonal inspection staff

Existing staff has to cover 859 sq miles and provide the same level of service to the community.
Optimized Routing

- Assign inspections based on geographic areas & discipline
- Route jobs based on appointment times, shortest distance, shortest time, etc.
- Turn by turn directions useful for staff new to region
- Complete mobile office in the field (maps, reports, photos)

Technology

- ArcGIS Server
- ArcGIS Engine
- Network Extension
- Accela Automation
- Accela Mobile Office
- Accela GIS
THE SOLUTION

Charlotte Co, FL
Westminster, CO

- Population: 100,000+
- NW suburb of Denver

City’s overall mission:
Continue to improve the quality of life, transportation system and employment opportunities for Westminster citizens
Westminster is an award-winning community with an international reputation for livability.

- A tradition of excellence in parks and recreation.
- A leadership role in technology.
THE CHALLENGE

Westminster, CO

- Consolidate City software solutions into a MAP-CENTRIC solution leveraging a single GIS environment
- Eliminate need for dual entry of asset data
- Empower field and office staff with easy to use maps
- Develop links from GIS to CMMS for the production of thematic maps based on live data
Accela Automation supports all City departments within a consolidated single database solution.

**Technology**
- ArcGIS Server
- Accela Automation
  - Asset Management
  - Land Management
- Accela Mobile Office
- Accela GIS

Leveraging GIS as the Asset system of record (for those assets in GIS)
THE SOLUTION

Westminster, CO

Location aware field solution allows for efficient management of assets
Next steps: Create and edit GIS features in the field using Accela Mobile Office
**OVERVIEW**

**McAllen, TX**

- Population: 130,000+
- Size: 46.7 sq. miles
- 1,700 employees
- Located in southern tip of Texas in the Rio Grande Valley

Dedicated to consistently providing high quality services and quality of life to all who live, work and visit the City of McAllen
THE CHALLENGE

McAllen, TX

- Existing code enforcement system was antiquated and prone to error
- Growing case load, reduced revenues
- Time wasted in the office researching using many different systems
- No GIS data in the field to support case management or analysis
• Implemented an automated system

• Allows field staff to display geographic information from the field

• Allows field staff to inspect, capture and update cases in real-time

Technology

- ArcGIS Server Mobile ADF
- Accela Automation
- Accela Wireless
- Accela GIS
THE RESULTS

McAllen, TX

- Cases completed nearly doubled after implementing

- “We wouldn’t be able to keep up without the ArcGIS Mobile capability in the Accela mobile solution”

-- Jose Pena
  McAllen Project Mgr.
The Results

Increased number of cases processed

- 2007 = 5,000+
- 2008 = 9,000+
- 2009 = 8,400+
Thank You