

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

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Agenda

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

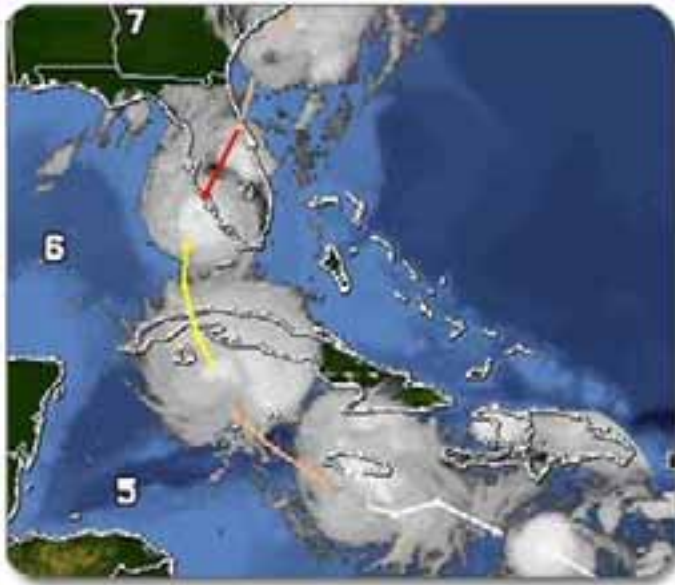


- Population: 150,000+
- Size: 859 Sq Miles
 - 694 square miles is land
 - 166 square miles is water

Comprehensive plan for County includes the mission to guide and control future development while protecting environmental and economic resources

OVERVIEW

Charlotte Co, FL



- 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

THE CHALLENGE

Charlotte Co, FL



- 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

THE SOLUTION

Charlotte Co, FL

Technology

- ArcGIS Server
- ArcGIS Engine
- Network Extension



- Accela Automation
- Accela Mobile Office
- Accela GIS

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)

THE SOLUTION

Charlotte Co, FL

The screenshot displays the Accele Mobile Office application interface. At the top, there is a navigation bar with 'HOME', 'JOB LIST', and 'RECORDS' tabs. Below this, a job list on the left side shows several entries, with the first one selected: '28 VILLAGE EAST CT'. The main area features a map with a pink routing path and numbered callouts (1, 2, 3). A detailed routing panel on the right provides step-by-step directions for the selected job.

Job List - Accele Mobile Office

HOME JOB LIST RECORDS SYNC MESSAGES SETTINGS HELP

1 28 VILLAGE EAST CT
CE07-012
Active
2007-05-31
Site Contact
Begin Job

2 1420 N MCDOWELL BLV...

3 126 HILL BLVD

4 2445 PETALUMA BLVD N
Building/Building/Commercial/Tenan...

5 300 BODEGA AVE
Building/Building/Commercial/Tenan...

6 300 BODEGA AVE
Building/Building/Commercial/Tenan...

Contents >> Routing Hide All Directions

1 Accele Records:CE07-012
Parcel:017270043
Start at Accele Records:CE07-012
Parcel:017270043
Arrive at Accele Records:CE07-012
Parcel:017270043

2 Accele Records:CE07-023
Parcel:047360024
Depart Accele Records:CE07-023
Parcel:047360024
Go back southeast on N MCDOWELL BLVD 7558.29 Feet
Continue on TRACKS 7469 Feet
Turn right on W PAYRAN ST 676.73 Feet
Turn right on PETALUMA BLVD N 4219.84 Feet
Turn left to stay on PETALUMA BLVD N 682.53 Feet
Arrive at Accele Records:COM-0900231

Actions Contents

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

OVERVIEW

Westminster, CO



- 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

THE SOLUTION

Westminster, CO

Technology

- ArcGIS Server



- Accela Automation
 - Asset Management
 - Land Management
- Accela Mobile Office
- Accela GIS

- Accela Automation supports all City departments within a consolidated single database solution
- Leveraging GIS as the Asset system of record (for those assets in GIS)

THE SOLUTION

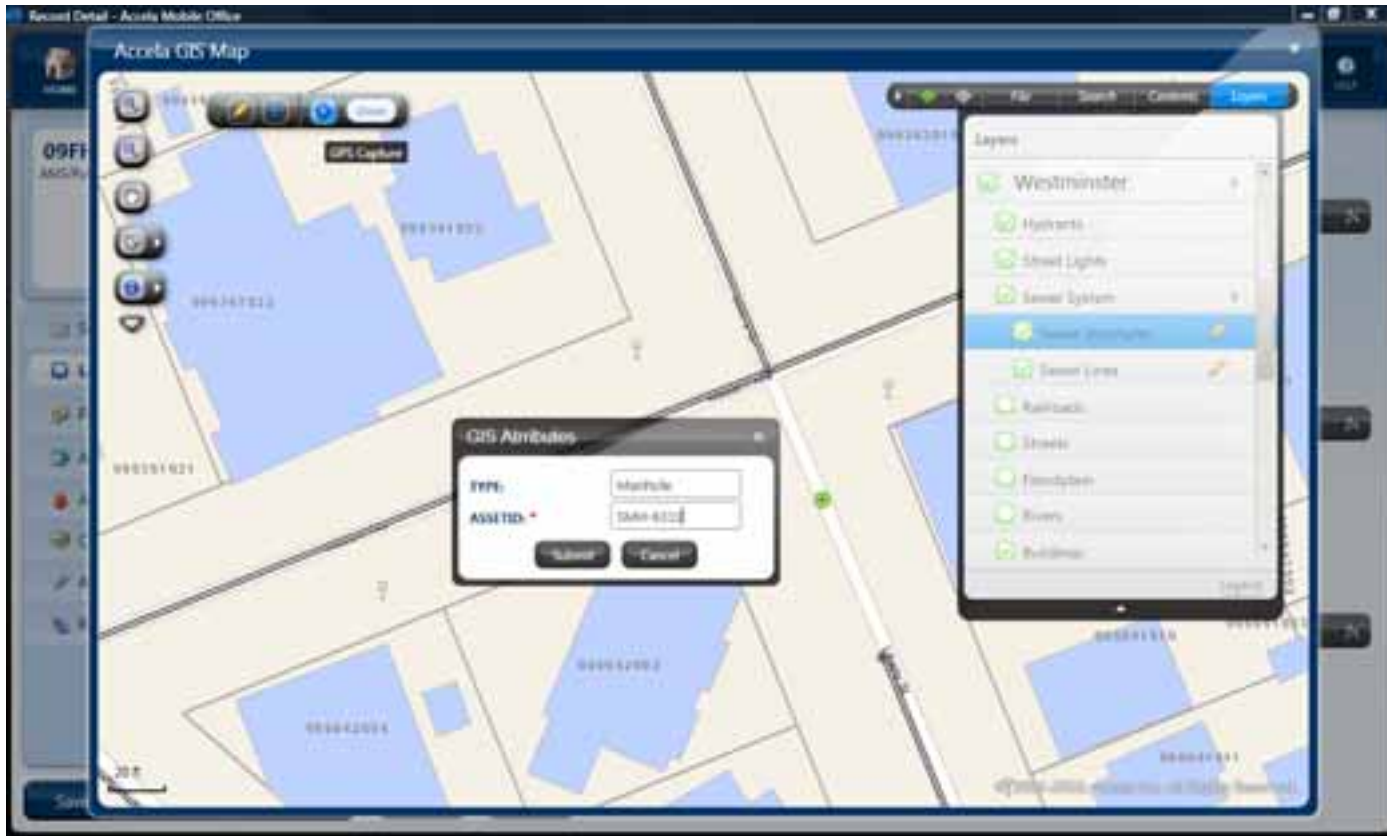
Westminster, CO



Location aware field solution allows for
efficient management of assets

THE SOLUTION

Westminster, CO



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

THE SOLUTION

McAllen, TX

Technology

- ArcGIS Server Mobile ADF



- Accela Automation
- Accela Wireless
- Accela GIS

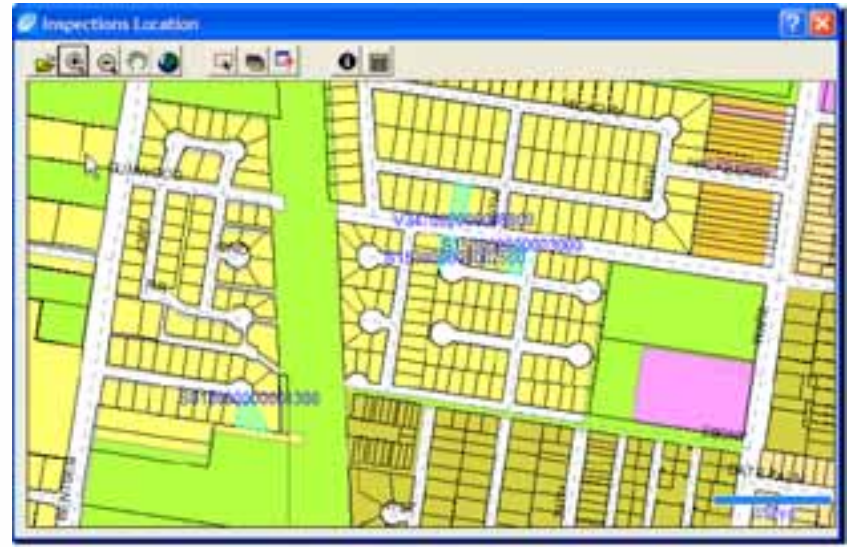
- Implemented an automated system
- Allows field staff to display geographic information from the field
- Allows field staff to inspect, capture and update cases in real-time

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