Visualizing GIS data in times of limited network connectivity

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Plant City, FL

- Incorporated in 1850
- Named after Henry B. Plant (railroad magnate)
- Winter strawberry capital of the U.S.
- 28 sq. mi.
- ~36,000 residents
- Home of the International Softball Federation
What do we want?

- Robust offline map solution for City employees

- Users include:
  - Engineering Inspectors
  - Code Enforcement Officers
  - Utility Maintenance
  - Utility Locators
  - Emergency Response Teams
  - Streets and Traffic Maintenance Division
  - Stormwater Maintenance Division
Why an offline solution?

- City employees and residents already have access to a WebGIS, with 100+ data layers
- For mobile users, problem is inconsistent or general lack of data signal
Random sampling around the City…

Need I say more?
Any other reason?

- Unlike network signals, hurricanes are quite consistent...

Source: National Oceanic and Atmospheric Administration, Office for Coastal Management
Needed features...

- Quick deployment
- Easy-to-use interface
- Multiple platform compatibility (Android, Apple IOS, and Windows)
- Street, address, and other asset information
- GPS support
- Hyperlink support
- Basic measurement tools
- Affordability!
Usage examples…

• Helping utility locators in the field (i.e. heavily vegetated areas)

• Helping current and new employees view City’s assets in the field

• Quickly create map packages for emergency personnel not familiar with the City

• Parks and trails maps for residents
Intuitive design
DEMO
Thank you!

Questions?

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For more information about CarryMap: