Using GIS to Deliver Local Government Solutions

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Objective

- Deliver GIS apps using enterprise GIS and integrated back office apps
- Local Government templates and other ESRI tools
- Improve productivity; saving time and money

Tools

- ArcGIS Server
- Local Government Templates
- ArcGIS Online
- ESRI App
- Collector App
- Other County Applications

Maps and Downloads

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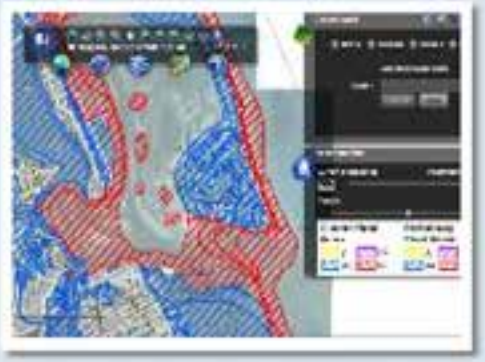
- **All Categories**
- Districts & Boundaries
- Elections & Voting
- Transportation
- Imagery & Elevation
- Planning & Development
- Utilities

FEMA Flood Map...



Martin County Flood Insurance Rate Map Modernization

Read more...

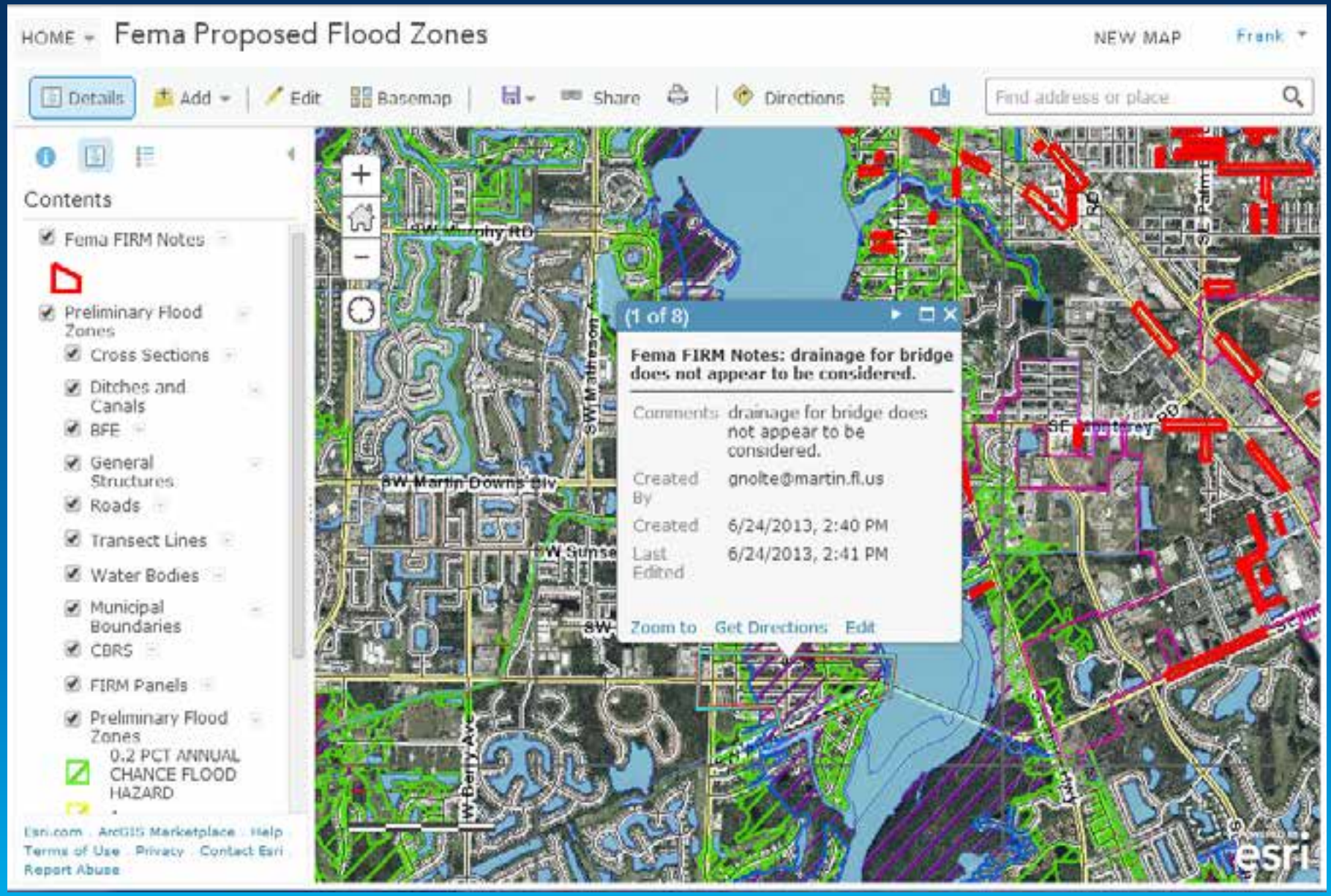
FEMA Flood Zone Maps...

FEMA Flood Zone Maps Index

Read more...

FEMA Flood Zone Comments

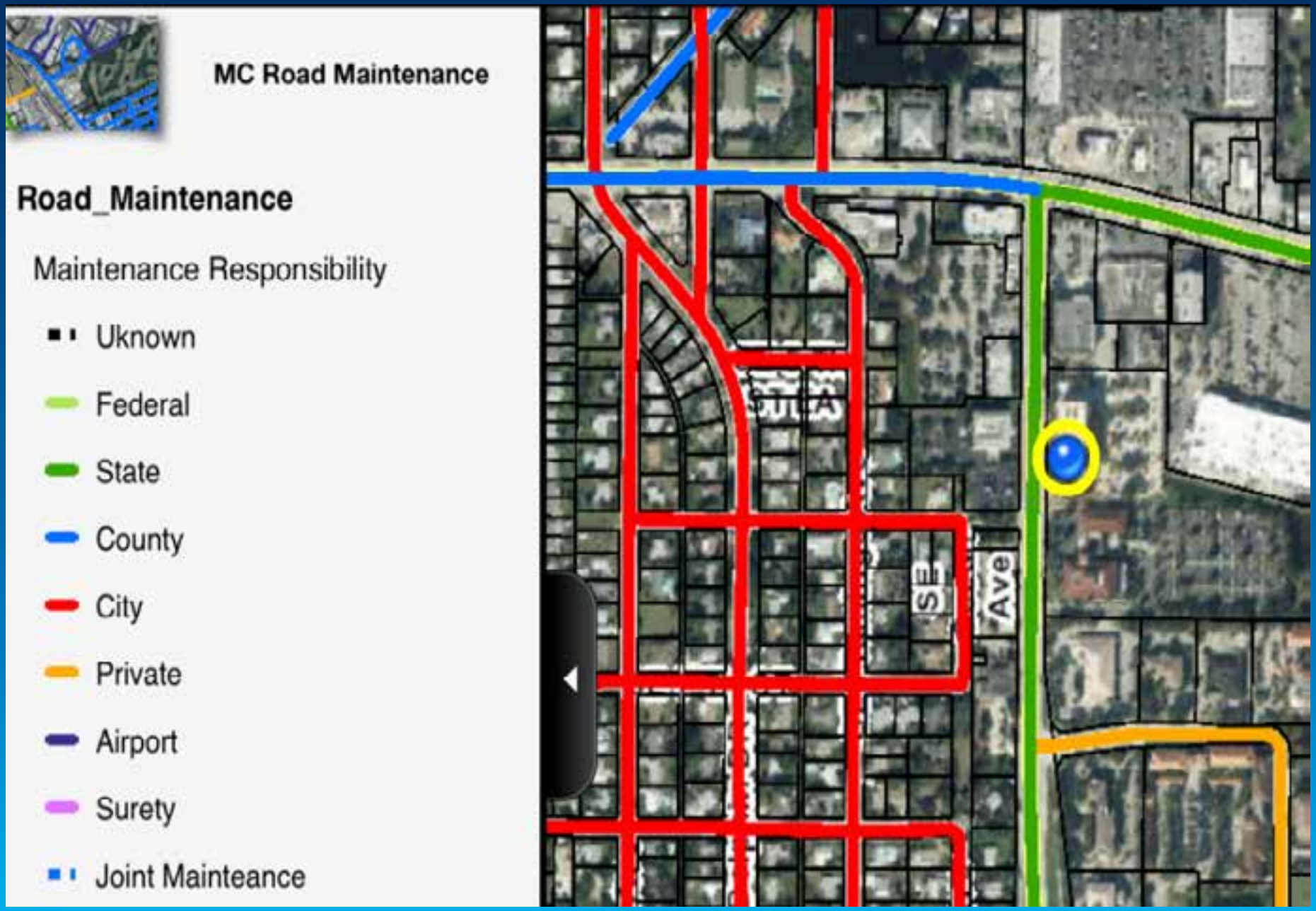
- ArcGIS Online ‘public’ Map
- Collaboration and sharing between government agencies
- Shared with FEMA as the county’s official comments.
- Developed and deployed in a few hours
- Solution functioned for a specified time period and then turned off.


HOME
Fema Proposed Flood Zones
NEW MAP
Frank
Details
Add
Edit
Basemap
Share
Directions
Find address or place
Contents
Fema FIRM Notes
Preliminary Flood Zones
Cross Sections
Ditches and Canals
BFE
General Structures
Roads
Transect Lines
Water Bodies
Municipal Boundaries
CBRS
FIRM Panels
Preliminary Flood Zones
0.2 PCT ANNUAL CHANCE FLOOD HAZARD
Esri.com · ArcGIS Marketplace · Help
Terms of Use · Privacy · Contact Esri
Report Abuse
(1 of 8)
Fema FIRM Notes: drainage for bridge does not appear to be considered.
Comments: drainage for bridge does not appear to be considered.
Created By: gnolte@martin.fl.us
Created: 6/24/2013, 2:40 PM
Last Edited: 6/24/2013, 2:41 PM
Zoom to
Get Directions
Edit
SW Murphy RD
SW Mathison
SW Martin Downs Blv
SW Sunset
W Berry Ave
SE Monterey
esri

Mobile – ArcGIS Online

Road Maintenance

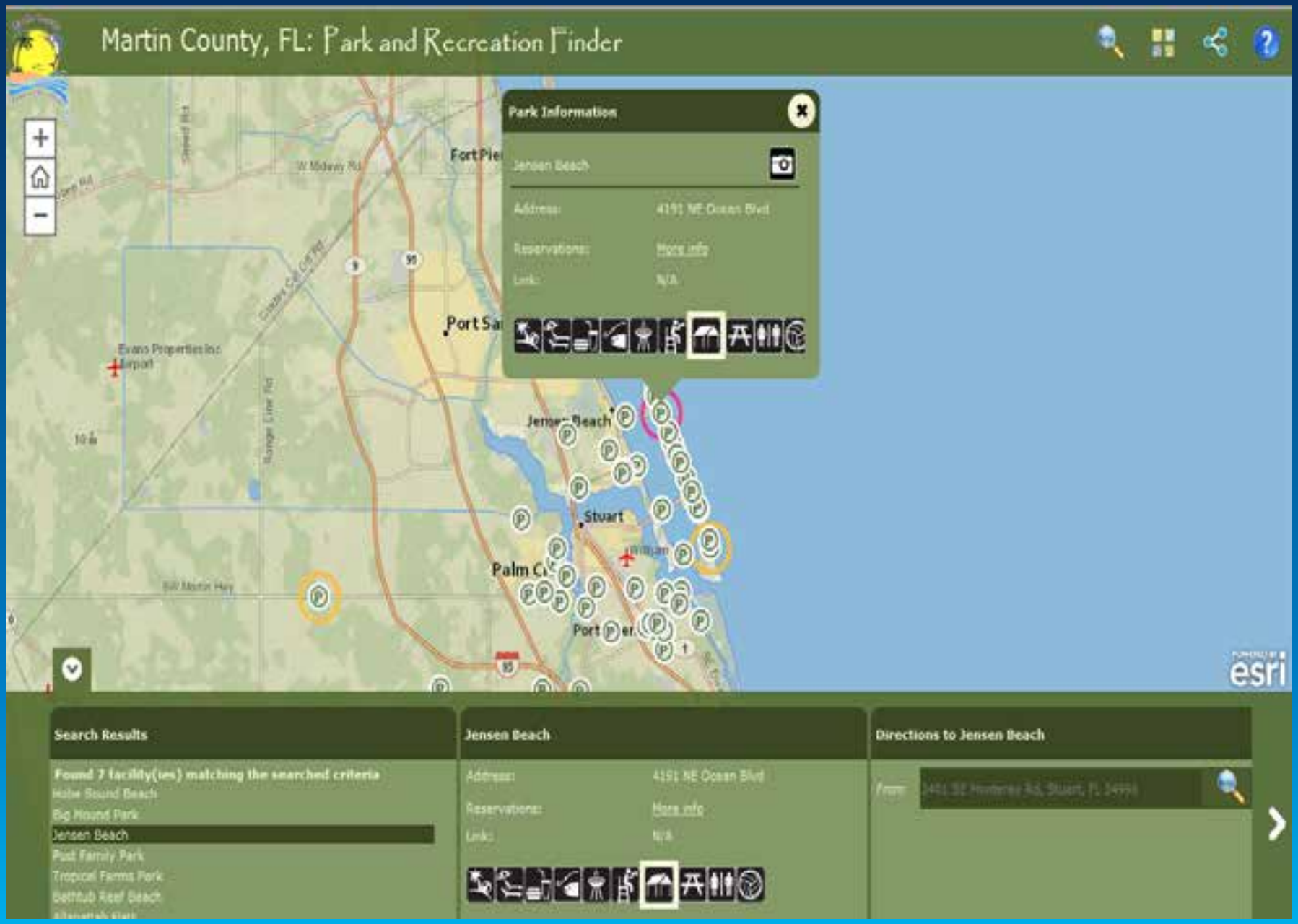
- ArcGIS Server Map Service
- Event mapped from our asset management system
- Deployed using ArcGIS Online and ESRI app
- Field crews use GPS enabled iOS devices
- Ensures that road assets they are about to repair are County maintained.


MC Road Maintenance
Road_Maintenance
Maintenance Responsibility
Uknown
Federal
State
County
City
Private
Airport
Surety
Joint Mainteance
SE
Ave

Mobile

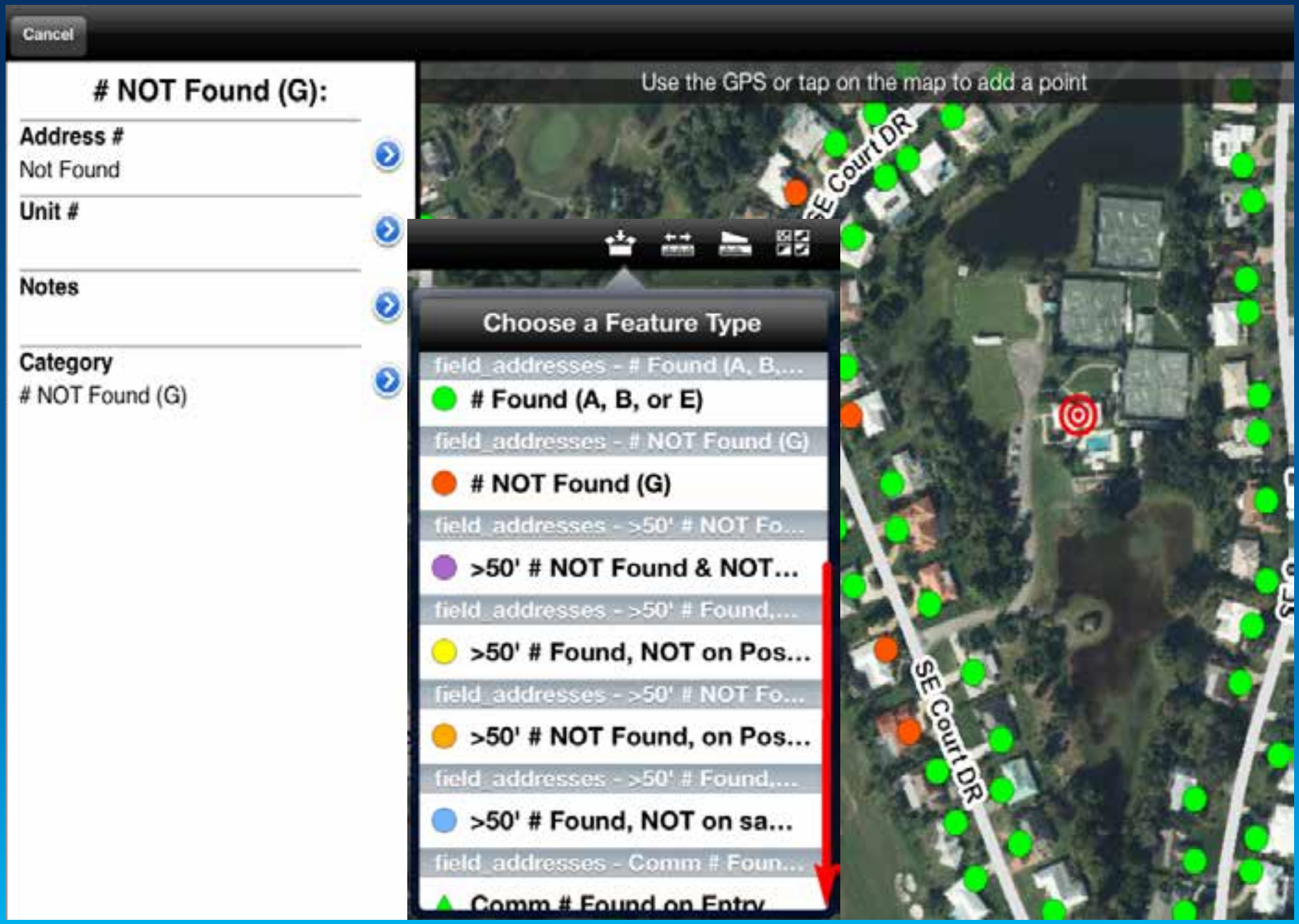
Park and Recreation Finder

- Provides residents and visitors with an easy way to find:
  - **Parks near them,**
  - **Park by its name, or**
  - **Recreation opportunities offered in parks**
  - **Links to Reservation system, Flickr photo gallery and websites**
- No GIS editing is required
- Maintenance of park attributes performed in a backend system updates this application


Martin County, FL: Park and Recreation Finder
Park Information
Jensen Beach
Address:
4191 NE Ocean Blvd
Reservations:
More info
Link:
N/A
Stuart
Search Results
Found 7 facility(ies) matching the searched criteria
Hobe Sound Beach
Big Mound Park
Jensen Beach
Pual Family Park
Tropical Farms Park
Bathtub Reef Beach
Jensen Beach
Address:
4191 NE Ocean Blvd
Reservations:
More info
Link:
N/A
Directions to Jensen Beach
From
esri

Address Collection

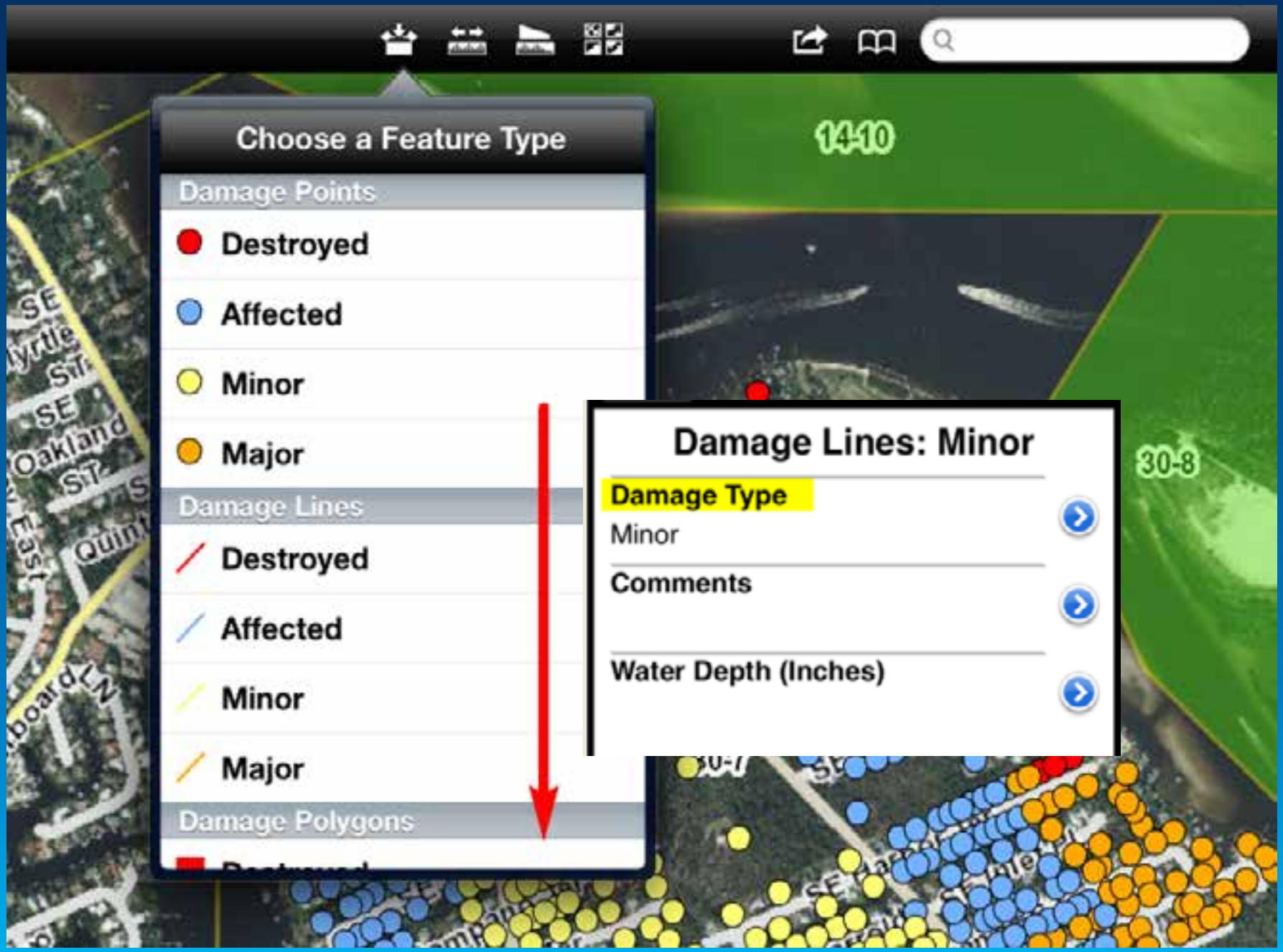
- Field collection of all addresses in the County to ensure compliance addressing code
- Used staff already in the field; multiple departments
- Follow up by sending inspectors out to ensure compliance.
- Collected via ESRI app; via iOS devices


Cancel
NOT Found (G):
Address #
Not Found
Unit #
Notes
Category
NOT Found (G)
Use the GPS or tap on the map to add a point
Choose a Feature Type
field_addresses - # Found (A, B,...
Found (A, B, or E)
field_addresses - # NOT Found (G)
NOT Found (G)
field_addresses - >50' # NOT Fo...
>50' # NOT Found & NOT...
field_addresses - >50' # Found,...
>50' # Found, NOT on Pos...
field_addresses - >50' # NOT Fo...
>50' # NOT Found, on Pos...
field_addresses - >50' # Found,...
>50' # Found, NOT on sa...
field_addresses - Comm # Foun...
Comm # Found on Entry
SE Court DR
SE Court DR

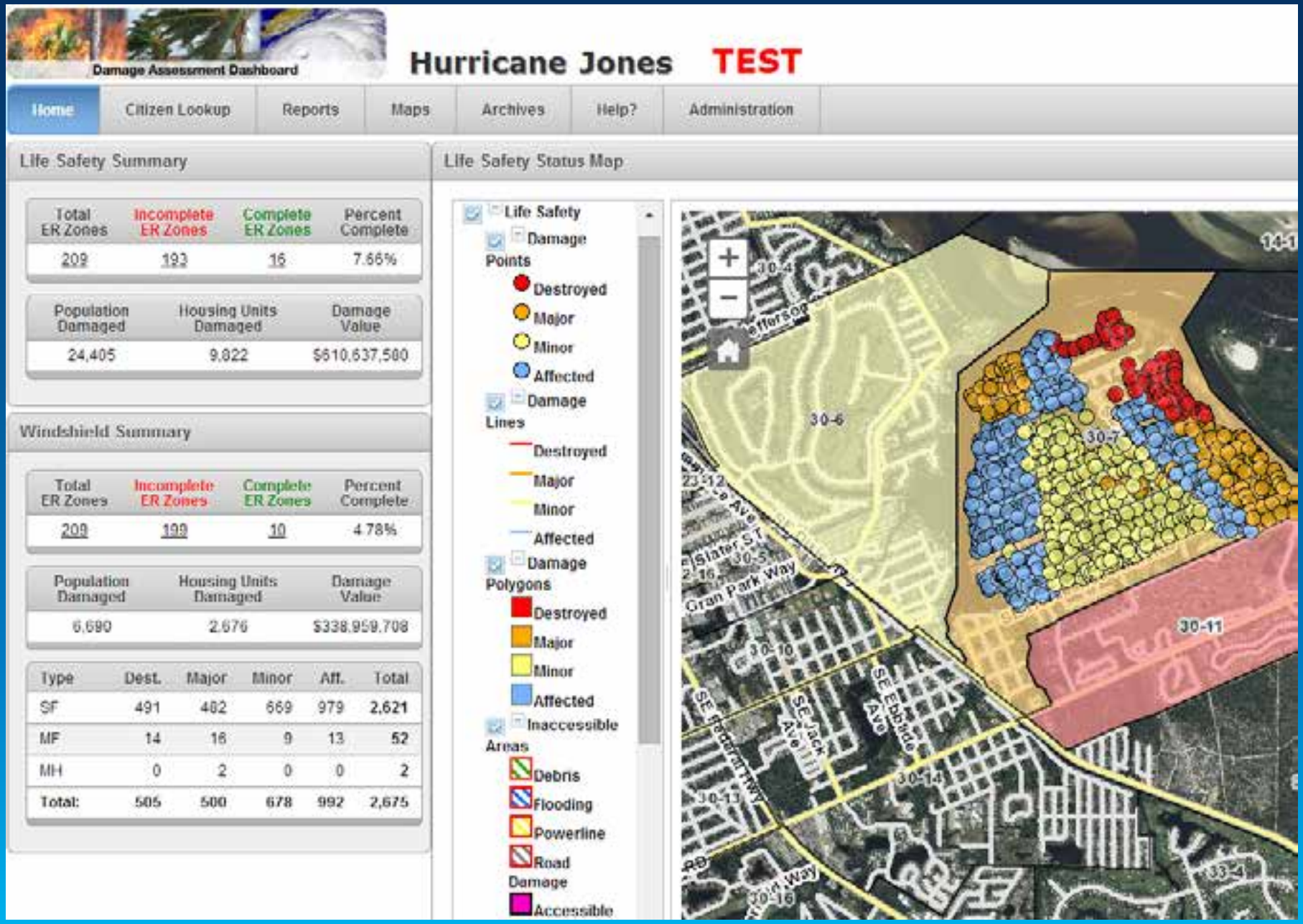
Mobile

Damage Assessment

- Collects structural damage assessment during emergency response activities
- Provides Situational and Operational Awareness
- Involves multiple agencies
- Citizen assistance

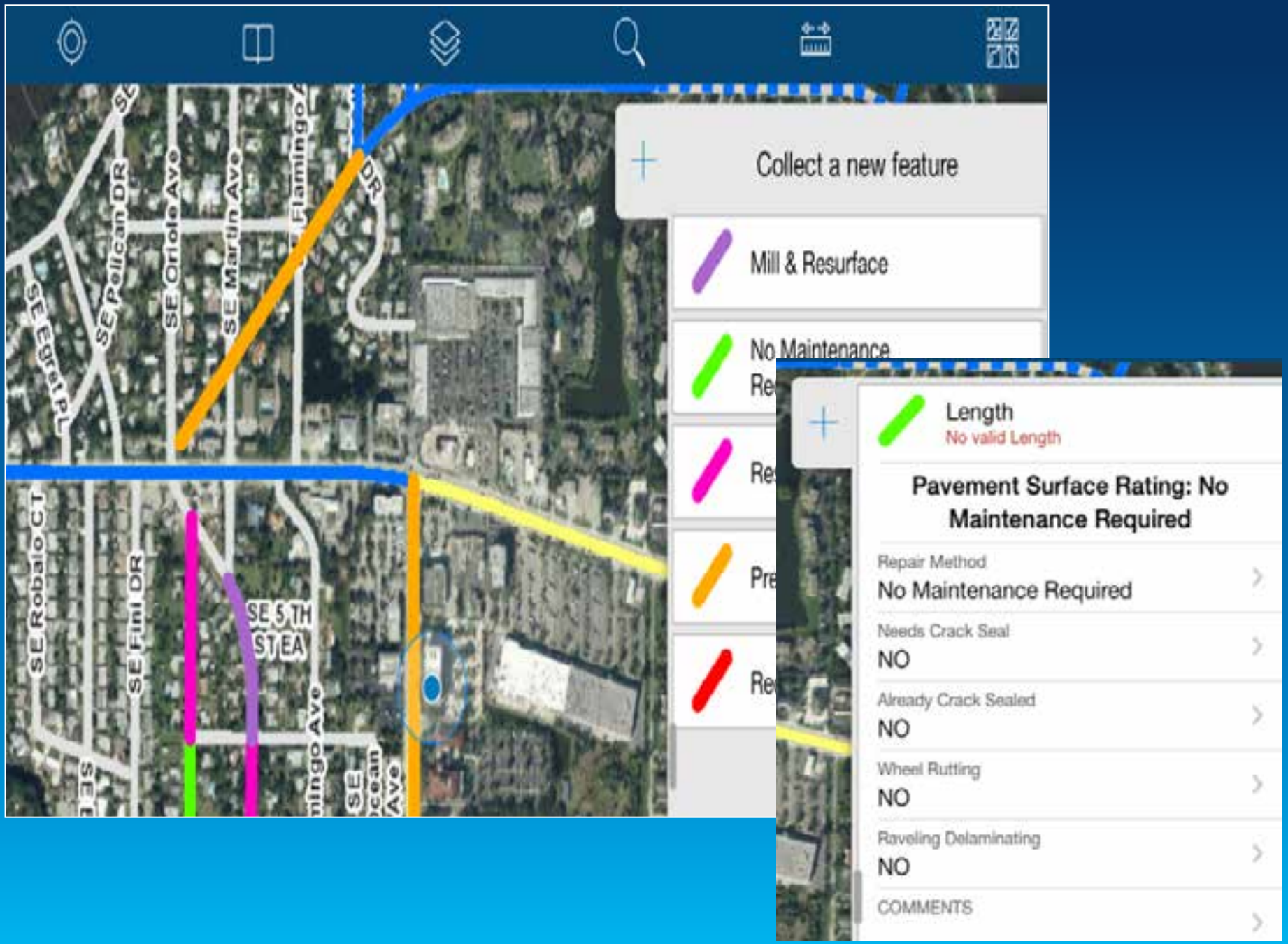

Choose a Feature Type
Damage Points
Destroyed
Affected
Minor
Major
Damage Lines
Destroyed
Affected
Minor
Major
Damage Polygons
Damage Lines: Minor
Damage Type
Minor
Comments
Water Depth (Inches)
14-10
30-8
30-7
SE
Oakland
ST
East

Damage Assessment Dashboard - DAD



Road Rating

- Assists with determining projects costs and priority
- Use of the ESRI Collector App
- Streaming
- Rapid collection of road repair methods to be used in analysis
- Integrates with asset management system for other road attributes needed to assist with prioritization


Collect a new feature
Mill & Resurface
No Maintenance
Length
No valid Length
Pavement Surface Rating: No Maintenance Required
Repair Method
No Maintenance Required
Needs Crack Seal
NO
Already Crack Sealed
NO
Wheel Rutting
NO
Raveling Delaminating
NO
COMMENTS
SE Pelican DR
SE Oriole Ave
SE Martin Ave
SE Egret PL
SE Robalo CT
SE Fimi DR
SE 5 TH ST EA

What's Next?

Pre-Incident Planning

- Fire Rescue staff are working to identify requirements
- Customizing attributes selection for each inspection
- View any history of that data
- Fire Rescue is currently outfitting their vehicles with laptops and mobile wifi hotspots

Mosquito Control

- Currently in the requirements gathering phase
- 3rd party solution was being evaluated
- ArcGIS toolset can deliver a solution