Online Empowerment:
Using LGIM Solutions to Enable City Staff

City of Fredericksburg, TX

Lea Feuge, Public Information Officer
Dawn Siegel, Regional Account Manager GISinc
• Founded May 1846 by German immigrants

• County seat & center of Gillespie County, TX

• Population: 11,000

• 8.6 Square Miles

• Peach capital of Texas
Evolution of Online Enablement

- Leaving paper maps behind
- Eliminating information silos
- “Quick Wins”
- GIS as the System of Record
- Return on Investment
Evolution of Online Enablement: 2017-2018

- Evaluate organizations workflows
  - Field workflows
  - Workflows associated with location
- Identify disparate datasets
  - Tabular data
- Investigate ArcGIS Solutions for inspiration
- Consider entire workflow from tip to tail

### The Platform
- ArcGIS Online
- ArcGIS Enterprise 10.5.1

### The Apps
- Collector for ArcGIS
- ArcGIS Solutions
- Operations Dashboard

### Solution Templates
- Hydrant Inspections & Valve Exercising
- Sign Collection
- Waste Cans
- Public Notification
Waste Can Tracking

• Replacement of spreadsheet & paper process to Web Application
• Geocode tabular data
• Realtime Data Sharing
• Streamlines Updates & Tracking Details
  • Resident
  • Count
  • Size
  • Quantity
Waste Can Web Application: Identify, issue & plan collection
Asset Inventory: Street Signs

- Replacement to spreadsheet and paper process
- Field Data Collection with Collector for ArcGIS
- Inventory of 1,100+ Signs
1. Geocode signage to address database (general location)
2. Using Collector for ArcGIS position the sign
3. Inspect & attach image
Hydrant Maintenance Inspection

- **ArcGIS for Water Solutions Template**
- Collector for ArcGIS
- Field tool to view hydrants and record inspections
Hydrant Maintenance Inspections: Quickly view if a hydrant is not in service
Valve Exercising

- ArcGIS for Water Solutions Template
- Collector for ArcGIS
- Basic Viewer

Overview

The Valve Exercising solution modernizes the paper report for valve inspection and exercising information by using a map and exercising layer on a smartphone or tablet device. By using a map view of system valves, field crews are able to record valve exercising activities using the valve exercising schema.

Valve Exercising is a configuration of ArcGIS. Once configured, field crews can access the Valve Exercising map using the Collector for ArcGIS application. This allows field crews to collect information regardless of connectivity to the office network assuming cellular coverage is available.
Valve Exercising Viewer
Status Dashboards: Inspection & Edit

Utilities Dashboard

Hydrant Inspections in the Last 30 Days

Hydrant Inspections 0

Valve Inspections in the Last 30 Days

Valve Inspections 0

Poles Edited in the Last 30 Days

Poles Edited 0
1,182 Total Poles

Signs Edited in the Last 30 Days

Signs Edited 0
1,182 Total Signs
Public Notification

- Spatially select properties
- Generate mailing labels/CSV of owners & occupants
- ArcGIS for Local Government Solution Template
- Updating parcels using an ETL Script to publish data into LGIM
Next Steps

• Custom Imagery Basemap
• Short Term Rental Ordinance Tracking
  • New ordinance April 1, 2018
  • Rented < 30 days (Airbnb like rentals)
• Fire/EMS Solutions
Results

• Replaced inefficient processes
• Better sharing of information across departments
• Digital field inspections
• Tracking and visibility
• “Quick Wins”
• Return on Investment