

Mobile GIS makes SD1 more efficient

2017 ESRI UC

Jerry Biedenbender, GIS Manager

SD1



Background

- SD1
 - Service area
 - Boone, Kenton, & Campbell Counties
 - These counties boarder the Ohio river
 - Sewer
 - 1,600 +/- miles of pipe
 - 46,000 +/- Structures
 - 121 pump Stations
 - 15 flood Stations
 - 3 Regional Treatment Plants
 - 8 Small Package Plants
 - Storm
 - 440 +/- Miles of Pipe
 - 32,000 +/- Structures





Background Continued

- ESRI and Lucity users since the late 90's
- February 2015 Deployed Lucity mobile Android

SD1's Workforce



Tablet



 Lucity Mobile - Login



User

Password

Login





Tablet

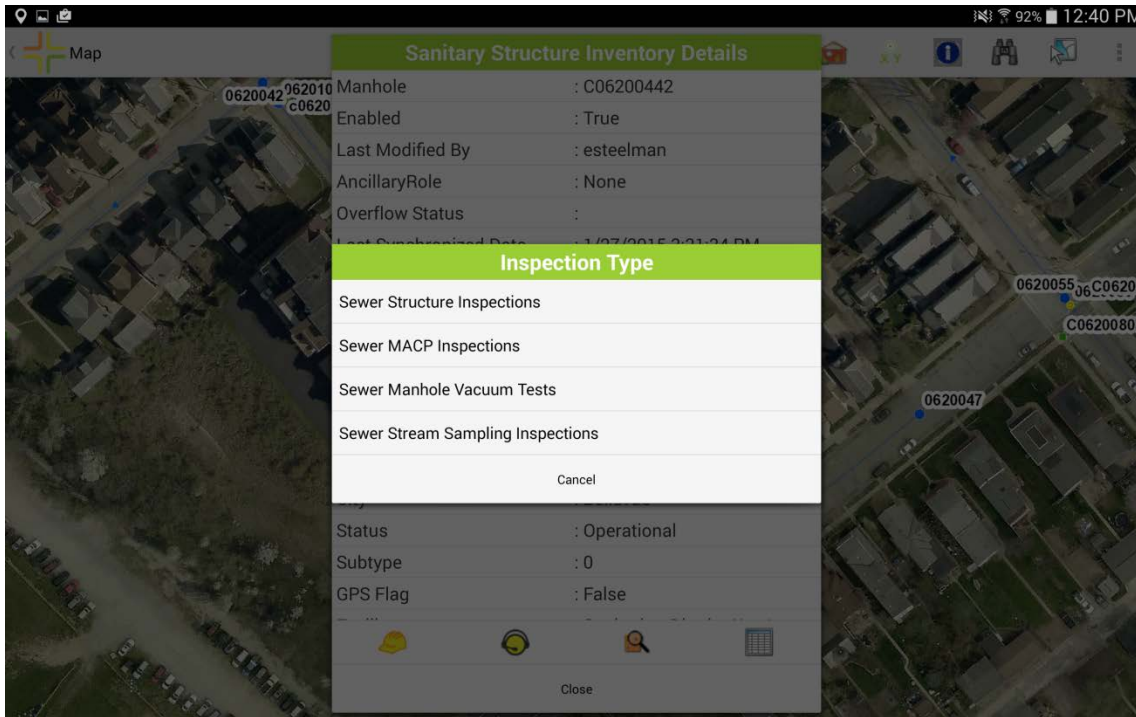
Benefits

- Streamline processes
- Saves time
- Speed
- Accuracy
- Data integrity
- Real time connections
- Linked Photos

Obstacles to overcome

- Screen issues
- Camera issues
- Verizon Cell connection issues
- Battery issues
- Lack of IT support
- Photo Size.

Structure inspections



Inspected Date* 9/11/2015 Structure Rec #* 009.07.0102 MACP Rec # 529
 Inspection Type* 3 Condition Assessment Inspected By* 555 Ray Simpson

Condition Assessment

Surcharge N No Unable To Inspect
 Weather 1 Dry Debris Depth (in.) 1 Post inspection cleaning
 Debris in Roadway 1 No Frame Offset Dist 0
 Cover Frame Fit G Good Cleaning Method Req

Cover Condition	Frame Condition	Seal Condition
<input checked="" type="checkbox"/> Sound Cover Cond	<input type="checkbox"/> Sound Frame Cond	<input type="checkbox"/> Sound Seal Cond
<input type="checkbox"/> Cracked Cover	<input type="checkbox"/> Cracked Frame	<input checked="" type="checkbox"/> Seal Missing
<input type="checkbox"/> Broken Cover	<input type="checkbox"/> Broken Frame	
<input type="checkbox"/> Corroded Cover	<input type="checkbox"/> Frame Missing	
<input type="checkbox"/> Cover Bolts Missing	<input checked="" type="checkbox"/> Corroded Frame	
<input type="checkbox"/> Cover Missing		

Additional Comments
 THERE IS OLD ASPHALT & CONCRETE IN BOTTOM OF

SSO Inspections



Field Locations

16-018460

Open Location Requests > 16-018460

[Assets \(1\)](#) [Work Order Tasks \(1\)](#) [Work Orders \(0\)](#) [Work Order Tracking \(5\)](#) [Comments \(0\)](#) [PM/Work Template \(0\)](#) [Wor](#)

General Information

Work Order #	16-018460	*Category	2100 Sewer line locations
Status	2 - New Work Order	Problem	1202 Locate line
Status Date	09/06/2016	Status Time	1:58 PM
Main Task			

Location Tab

Cause	1003 Construction/Utility Work	*Comment From Request	mark the back yard. Melissa, 513-260-3591
*Supervisor	570 Doug Malone		
Lead Worker	383 Mark Griffith		
Requested By			

Trouble calls



Other processes



- BMP Asset inspections
- Nasal ranger tests
- Aerial Pipe Inspections
- Pump Station Inspections
- Pump Inspections
- Pump Readings
- Generator Readings
- Plant equipment assessment



Struggles

- Photo trickery
- Linked documents
- Cell Service
- Users staying logged in.
- Offline mode setup
- Default views



Questions?

- Contact Info

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