

Precision Laser & Instrument, Inc.

www.laserinst.com



Construction



Survey



GIS

Doug Kotnik, GISP



**Precision Laser
& Instrument, Inc.**
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Construction • Survey • GIS

Sales • Service • Rentals • Training • Support

Asset Management: The Latest in GPS Technology



“Back in the Day”



- Static Data Collection
 - Dedicated GPS Unit
 - Specialized Software
 - Specialized Training
 - Unit / Data brought back to office
 - Into GIS....maybe



“Today: There’s an App for that”

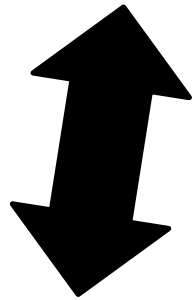


- Cloud-based, App driven
 - Data Collection Apps
 - Cloud based
 - Smart devices: iPads, Android, Tablets, Phones
 - Stand alone GNSS receivers

Workflow



Field



Desktop GIS / Online



Database



What are my Choices?

- ESRI Online / Collector



- Trimble TerraFlex



- I am GIS





Why Go To The Cloud?

Why Integrate GNSS Into Asset Mgt.

- Regulatory Compliance
- Brain Drain
- Ease of Use
- Dynamic, flexible Administration
- Navigation back to assets
- Integrate Photos or Signatures



Because I said so!!

- **Ohio SB2**
- **October 1st, 2018
Deadline**
- **Hydrant Inspections**
- **Valve Exercising**



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- **Brain Drain**
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Brain Drain

Don't let that knowledge walk out that door!!

“It’s projected that in the next 10 years, 37 percent of the water utility workers and 31 percent of wastewater utility workers will retire.”

EPA Task Force on Workforce Sustainability Final Report

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Ease of Use

- **Use your own device**
- **Flattened learning curve**
- **Familiar map backgrounds**
- **Spatial Awareness**
- **Work Connected or Offline**

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Dynamic, Flexible Administration

- **Access Data From Anywhere**
- **Immediate Access to Data**
 - **Send and Receive Data in “Real Time”**
 - **No Need To Return To The Office**
- **Move Resources As Needed**



Why Integrate GNSS?

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- Integrate Photos or Signatures

Navigate Back to Assets

Where Is That Valve?.....



Nav 0.87m 5

Target: 2 Road Sign Options



Dist: 5.25 m Bear: 103° (T)

Turn: 14° Head: 84° (T)

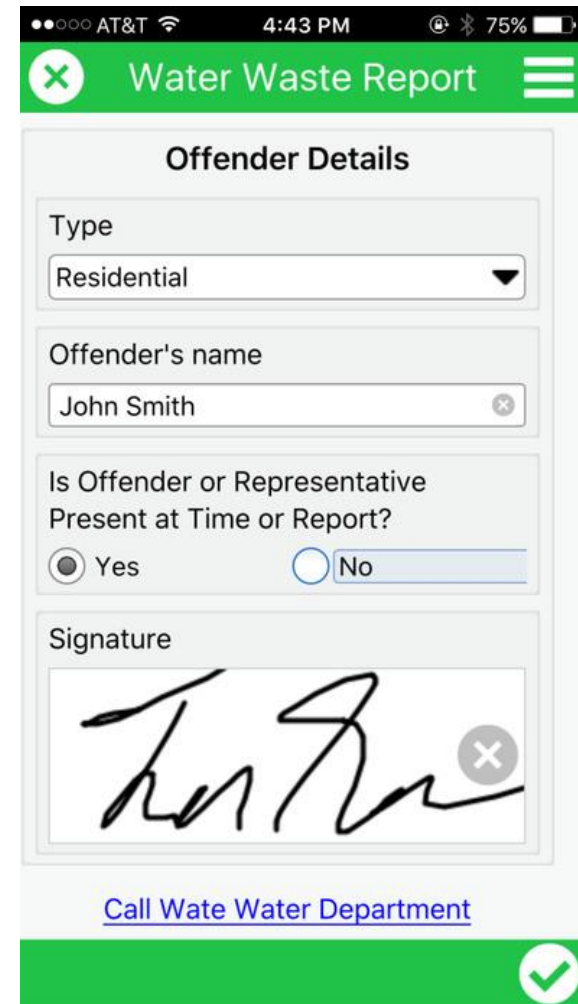
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Integrate Photos and Signatures

A picture is worth a thousand words...

- Associate a photo directly to an asset
- Watermark time and data directly on the image
- Watermark accurate XY coordinates on the image
- Capture customer or mgt. signature



The screenshot shows a mobile application interface for a 'Water Waste Report'. The status bar at the top indicates AT&T service, 4:43 PM, and 75% battery. The app title is 'Water Waste Report' with a close button (X) and a menu icon (three horizontal lines). The main section is titled 'Offender Details' and contains the following fields:

- Type:** A dropdown menu currently showing 'Residential'.
- Offender's name:** A text input field containing 'John Smith' with a clear button (X).
- Is Offender or Representative Present at Time or Report?:** A radio button selection with 'Yes' selected and 'No' unselected.
- Signature:** A signature capture area showing a handwritten signature in black ink with a clear button (X).

At the bottom of the form, there is a blue link that says 'Call Water Water Department'. The bottom of the screen features a green bar with a white checkmark icon.



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Live!

DEMO



Ben
Little