

Innovating the Power of Where

Pipeline Flight Patrol App

The Problem:

Companies that own and operate pipelines are required by the US Federal Government to maintain and confirm a clear Right of Way (ROW) area around those pipelines for the entire length of the pipeline, every 7-14 days. The Company is responsible for making sure anything that could pose a danger to the pipeline is addressed.

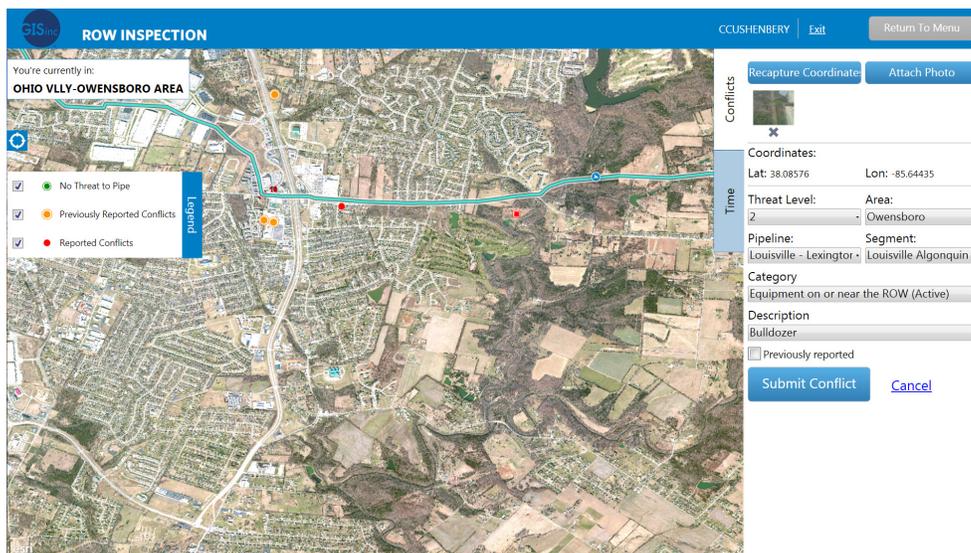
To accomplish this, pilots typically inspect the land from the air and collect their data using a GPS device, photos taken by a phone or tablet, and a rewritten log. Once they land, they compile their data sources and send tickets for each conflict to notify the team that will address the issues. This manual process is inefficient for the pilot and does not allow their force to respond immediately.

GISinc's Solution: Pipeline Flight Patrol App

Built on the Esri platform, GISinc's Pipeline Patrol App enables pilots to use their own tablet or mobile device in the cockpit to record notes, capture GPS data, and take photos. When an obstruction is located and the information is captured, pilots can now submit the information from the air and resume their flight to locate any additional obstructions.

Meanwhile, after the pilot clicks submit, the information associated with that single conflict is immediately sent to their company's Work Order Management System. This creates a new ticket and assigns the appropriate ground operations crew to that ticket. The crew is given directions to the conflict and can easily report back when the work is complete.

This automation saves Pipeline Flight Patrol App users up to 8 hours/week per flight crew member. With 8 crews of 2 flying their pipelines, anticipated savings of up to 120 hours per week can be expected by implementing this solution. Larger companies with more pipelines can expect to save even more.



FACT SHEET

GISinc's Pipeline Patrol App

Features

- **Mobile Patrol Application** - Conduct ROW inspections, capture ROW conflicts including GPS coordinates, photos, and description.
- **Notification System** - Sends notifications to the appropriate field personnel. Notifications can be sent for start of flight, enter and leave area, and conflict capture.
- **Inspection Audit System** - Tracks inspection history for every ROW, highlights which ROWs need to be inspected.
- **Inspection Planning System** - Admin Dashboard manages ROW assignments to pilots, creates favorite routes, highlights new segments.

Benefits

- **Automate** a currently manual process
- Use your **own device** of choice (i.e, Tablet, phone)
- Send information in **real-time**, from the air
- **Save time** - first customer saved 8 hrs/week per flight crew member

Technology Integrations

- **Integrates with IRTH** - Send conflicts directly to IRTH. Pulls 'No Threat' conflict status from IRTH to display to pilots on subsequent flights.
- **Integrates with GIS** - Uses the latest ROW and pipeline information and basemap data.
- **BYOD** - Use personal tablet or mobile device to access the app.
- **Work Order Management Systems** - Connect with company Work Order Management System for in-air communication.
- **ArcGIS Server** - Esri software that serves the pipeline data as well as other GIS data consumed by the mobile application

Who We Are

As a Geospatial IoT (GeoloT™) Integrator, we're combining the infinite capabilities of the Internet of Things (IoT) with best-in-class pairing with our unmatched Geographic Information Systems (GIS) expertise to provide GeoloT solutions. For more than 25 years, GISinc has been the worldwide leader maximizing spatial relationships as they relate to right-sized enterprise and mission-critical geospatial solutions on a macro level. Our GeoloT Platform is helping organizations visualize their data by location, while becoming more insightful, more efficient, more competitive, and more productive.