# GISinc GeoIoT™

## 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.