



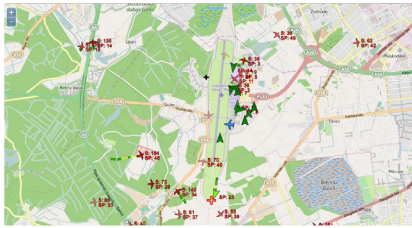
Avian Management Technology & Related Environmental Services

We incorporate traditional knowledge with the latest in technology to provide end-to-end observation and technical services.

- Local experts with extensive industry, data collection and government regulation experience
- Data-centric and research based approach
- Focus on flexible, efficient and innovative programs

ACDEN

Helios



Acden Helios is an Indigenous environmental company providing a wide range of observation and technical services.

As the preferred distributor of DeTect™ radar systems and related equipment in Canada, Acden Helios can provide multi-functional systems supporting site coverage for pre-construction environmental monitoring and risk mitigation.

Uses:

- Avian Management
- Aviation
- Drone Defense
- Environmental Protection
- Security & Surveillance
- Wind Farm Management

Avian Monitoring, Detection & Deterrence

DeTect™ radar systems are the most widely used radar and deterrent system in the world for the purposes of protecting birds and wildlife from tailings ponds. DeTect™ proprietary software has been developed to detect and track unique bird characteristics and migration periods. There are currently 140 systems operating worldwide for this specific function. Acden Helios ensures, as part of its environmental oversight, to have a biologist on staff specialised in avian detection and deterrent activities to ensure the appropriate environmental system design is in place.



Wind Farm Management Services

Acden Helios has the HARRIER Aircraft Detection Lighting System (ADLS), an advanced ground-radar based system using high-resolution airspace surveillance with automated activation of wind farm obstruction lighting when aircraft are detected. The HARRIER ADLS system provides extended-range detection with 360-degree Doppler coverage and a detection range of up to 30 kilometers. The technology greatly reduces light pollution from wind farms by keeping the lights turned off unless there is approaching aircraft. In addition, the settings can be adjusted to reduce the rotation of the blades in situations where the radar detects significant bird migrations and then restores the speed once the birds have passed.

Aviation Services

Our software system includes an advanced 'toolbox' developed in consultation with controllers and pilots for automated bird-aircraft strike risk alerting and wildlife management analysis and reporting. The technology is expandable to provide drone and small UAV surveillance and interdiction.

The DeTect™ ADLS system has been certified in the United States by the Federal Aviation Administration (FAA) and approved by Transport Canada.

Primary Services:

- Bird strike avoidance
- Drone detection & tracking

Reporting

All data is stored on a SQL server and reports can be customized and distributed according to client needs. Real time data analysis is used for risk alerting purposes and is stored both on the existing unit as well as cloud-based solutions for immediate information back-up. Systems can be made compatible with other systems and sources (e.g. SCADA Systems).

