

Targeting a Safer World®



ACCIPITER®
ACCIPITERRADAR.COM

Environmental Protection



WORLD'S MOST EFFECTIVE BIRD AWARENESS AND RADAR-ACTIVATED DETERRENT SYSTEMS

Accipiter's mission is to provide the world's most effective and affordable wide-area situational awareness solutions for applications that impact the safety and well-being of the public, individuals and the environment.

Accipiter's radar-activated deterrent systems (RADS) provide the best in class control and activation strategy, based on a network of digital avian radars and deterrent devices that respond only to the presence of birds in designated locations, significantly reducing bird habituation. Accipiter's Surveillance-to-Intelligence™ (S2I) solutions provide live situational awareness of bird activity, deterrent activations, historical analysis and detailed bird movement / behaviour analytics.

GLOBAL PROVIDER OF HIGH PERFORMANCE RADAR SOLUTIONS

Accipiter Radar is a global provider of high performance radar surveillance solutions for Environmental Protection, Aviation Safety and Homeland Security. Built upon its patented Radar Intelligence Network™ (RIN) platform technology, Accipiter's Surveillance-to-Intelligence™ (S2I) solutions are designed to detect and track small uncooperative targets such as migrating and resident birds and bats that might be harmed by coming into contact with wind turbines or tailings ponds associated with industrial and mining operations. The result is unprecedented bird and bat activity awareness for your entire site, as well as advanced radar activated bird deterrence, reduction in habituation and 24/7 persistent monitoring and data collection for corporate and regulatory reporting.

WORLDWIDE PRESENCE & SUPPORT

Accipiter Radar Technologies Inc. is headquartered in Ontario, Canada and Accipiter Radar Corporation is headquartered in New York State, USA. Our extensive network of qualified strategic partners enables us to deliver high quality systems and services globally, ensures excellence in matching system selection and specifications to customer requirements, installation, training, documentation and local maintenance and technical support.

Our in-house team of experts in advanced radar engineering, information technology and software development, partnered with in-house domain expertise in ornithology, aviation safety and homeland security deliver the most capable and affordable, situational awareness systems on the market today.

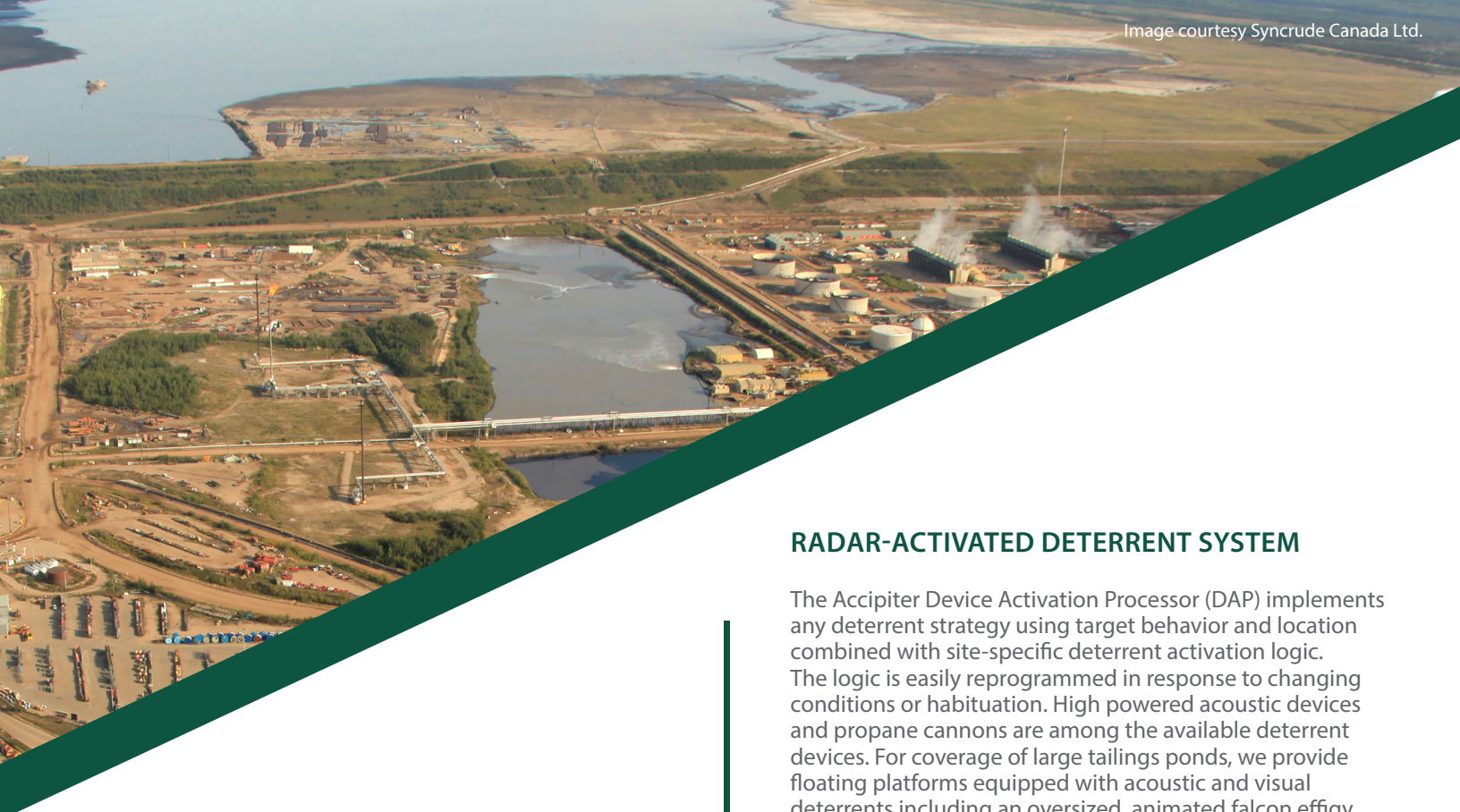


Image courtesy Syncrude Canada Ltd.

ACCIPITER'S RADAR INTELLIGENCE NETWORK™ PLATFORM TECHNOLOGY

Accipiter offers several carefully engineered systems to address your particular Environmental Protection problems, and they are all built on our patented and game-changing Radar Intelligence Network™ (RIN) platform technology. The RIN architecture ensures your system can easily adapt and grow with your changing threats and needs.

Our novel approach to wide-area, real-time detection, tracking, post processing, and display coupled with on-the-fly and interactive analytics applied to historical target data sets us apart from any other radar systems provider, by giving you unprecedented situational understanding and decision support. Our RIN allows any number of sensors to seamlessly connect over any IP network to our patented M³® Target Information System which forms the heart of all our delivered systems.

M³® TARGET INFORMATION SYSTEM

Accipiter's multi-sensor, multi-mission, multi-user M³® Target Information System (TIS) provides the ultimate in multi-sensor target data processing, query and retrieval, enabling rapid and efficient understanding that leads to strategic and tactical decision making.

The TIS not only organizes, stores indefinitely, integrates, manages and distributes the rich sensor target data in earth coordinates; but it also drives an ecosystem of user apps we call Surveillance-to-Intelligence™ (S2I) tools to deliver tactical and strategic information to users. Real-time replication technology (RTRT) mirrors the TIS to other locations for partner information sharing, data redundancy and data protection.

RADAR-ACTIVATED DETERRENT SYSTEM

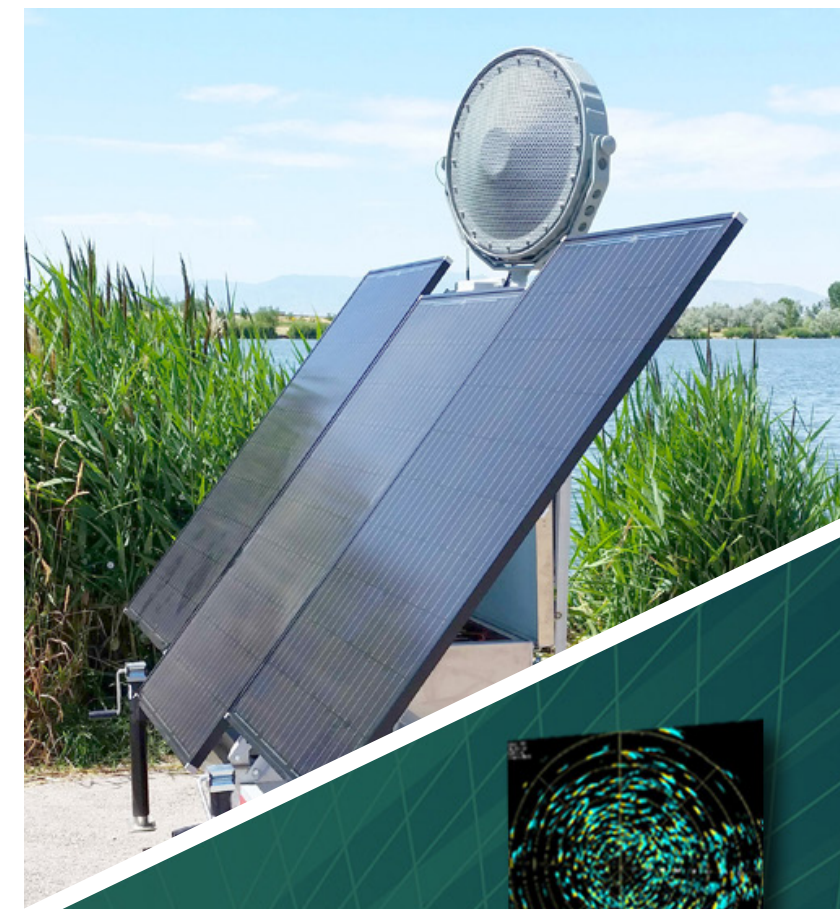
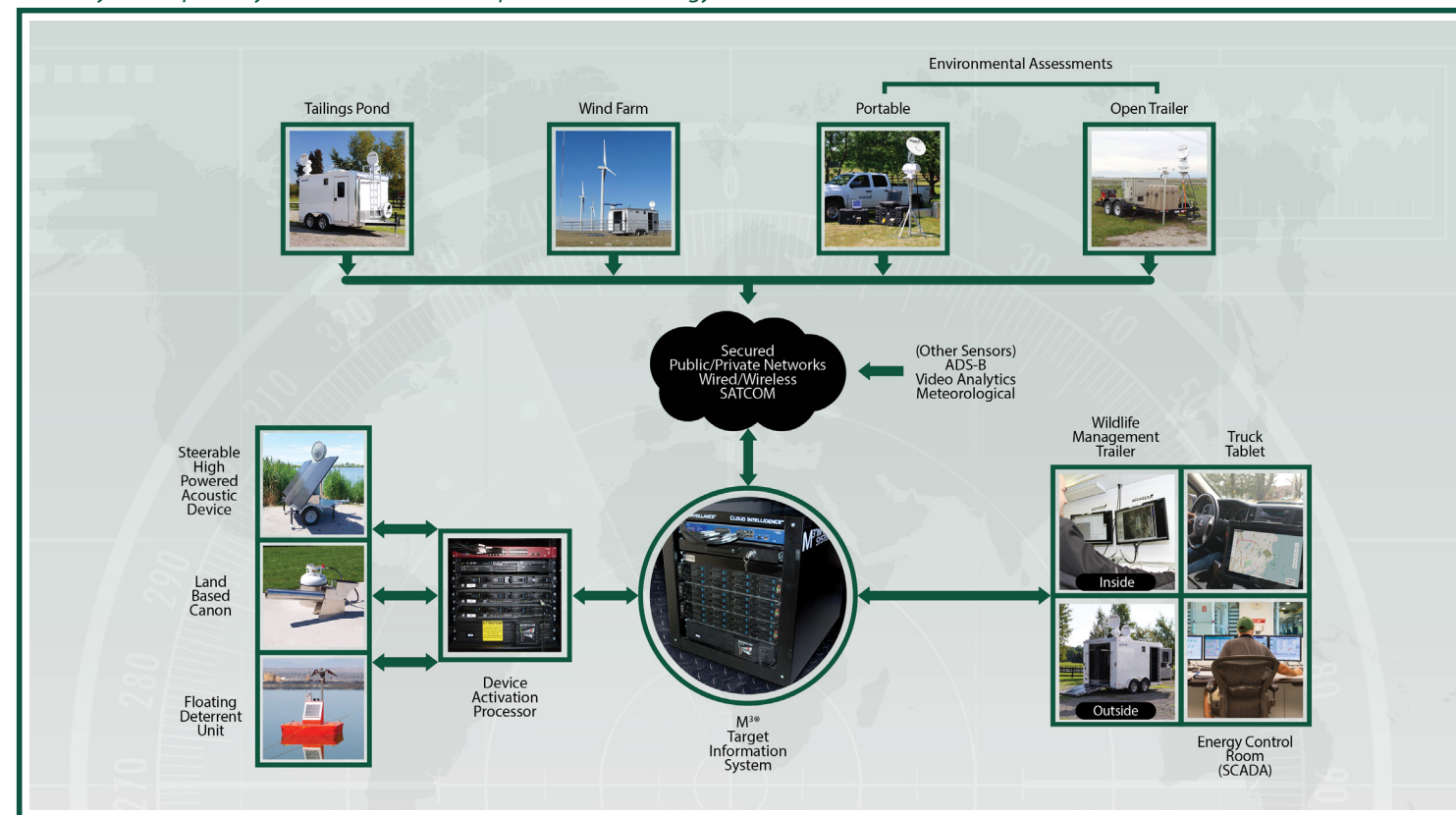
The Accipiter Device Activation Processor (DAP) implements any deterrent strategy using target behavior and location combined with site-specific deterrent activation logic. The logic is easily reprogrammed in response to changing conditions or habituation. High powered acoustic devices and propane cannons are among the available deterrent devices. For coverage of large tailings ponds, we provide floating platforms equipped with acoustic and visual deterrents including an oversized, animated falcon effigy. Customer-owned or specified deterrents can also be incorporated. Our advanced 3D tracking ensures that deterrent activation is limited to birds tracked on a path towards contact with wind turbines or tailings ponds, preventing unnecessary activations and reducing the rate of habituation to deterrents.

SURVEILLANCE-TO-INTELLIGENCE™ (S2I) TOOLS

Accipiter provides a suite of easy to use S2I tools, giving users with different roles or missions the situational understanding they need to be more effective at performing their duties. Tactical tools such as the Accipiter® Radar Common Operating Picture (COP) give system operators a real-time map-view of bird/bat tracks, deterrent activations and system status enabling in the field maintenance and response personnel to take necessary and timely action when required. Our tablet-based Mobile Response COP gives responders in vehicles a user-centric display, allowing them to more easily put their own eyes on live targets of interest so they can take action.

Our strategic S2I tools interactively or on-the-fly rapidly mine the TIS's historical target data to give analysts understanding of target activity patterns; and managers specialized reporting with metrics and key performance indicators (KPIs) that allow them to better manage and allocate resources to mitigate risk. The Accipiter® Track Histories Viewer delivers spatial patterns of tracks around your site every hour, while the Accipiter® Target Analyzer Software (TAS) allows the analyst to generate a variety of temporal and spatial target activity distributions including heat maps, all filtered by time, date, size, speed, heading and altitude.

A variety of Accipiter® systems built on our RIN platform technology.



Accipiter® S2I Tools



Environmental Protection

STATE-OF-THE-ART WILDLIFE PROTECTION FOR WIND FARMS AND TAILINGS PONDS

Understanding the movement and behaviour of birds and bats in relation to wind turbines and mining tailings ponds, is critical to implementing effective risk mitigation to comply with corporate and environmental protection policies and to comply with government regulations. Accipiter provides a number of Accipiter® Environmental Protection Radar Systems that are specially designed to deliver affordable 2D and 3D Total Coverage® situational awareness of birds and bats through a comprehensive suite of S2I tools that provide real-time monitoring, automatic alerting, target activity analysis, standardized reporting, and smart radar-activated deterrent activation.

Our Radar-Activated Deterrent Systems (RADS) utilize 3D target trajectories of birds to strategically activate only relevant deterrents at specific times when birds are heading towards possible harm, while not harassing those birds that are flying high over or away from harm, thereby reducing habituation to the deterrents.

Accipiter's target data rich, M³® Target Information System captures every tracked bird and bat, 24/7/365 including at night, in the fog and at long range where visual observers are ineffective. These data facilitate detailed quantitative analysis, leading to a greater understanding of bird flight patterns, bird behaviours, early migration onset and deterrent effectiveness. Accipiter's S2I tools mine the data to deliver previously unknown information and fill a critical knowledge gap empowering organizations to reduce bird deaths, develop improved environmental protection policies, and deliver reports and incident investigation to meet industry regulator requirements.

OPERATIONAL ADVANTAGES

Effective Bird/bat situational awareness and deterrence through:

- 3D, 360 degree, high resolution Total Coverage® radar tracking over land and water
- Persistent 24/7 data collection of all detected and tracked birds/bats
- Family of land-based acoustic deterrents and float-based multi-sensory deterrents with short and long range deterrent capabilities
- Intelligent radar activation of deterrents utilizing bird flight trajectories to trigger multiple lines of defence
- Complete system health and activity monitoring to deliver operational status at all times
- Standard and custom report generation through Accipiter's M³® Target Information System and Surveillance-to-Intelligence (S2I) tools
- System scalability to unlimited number of radars and radar activated deterrents, with wide-area integration for ease of operation

Benefits:

- Unprecedented bird/bat situational awareness and understanding
- Increased bird deterrent effectiveness while minimizing operational costs
- Suite of Accipiter® Surveillance-to-Intelligence™ tools for live situational awareness and historic data analysis for regulatory reporting and event investigation
- Highly selective deterrent activation to minimize habituation



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