



## Overview: Monitoring and Observation for Asset Protection

SEUS-CP businesses can benefit from the growing demand for monitoring and observation for asset protection, from the oceans to land and natural resources to industrial sectors. B2B participants can expand their network through the supply of innovative technologies, R&D, partnerships, and investments.

**Oceans:** Ocean technologies and services range from subsea imaging and ocean sensors to geotechnical engineering and radar technology, among others. Applications range from protecting energy infrastructure including offshore wind, oil and gas to ocean vessel navigation. For example, radar technology is used to detect oil spills as well as ice and wave hazards that may impact fisheries, offshore wind installations, and ships travelling through difficult waters. The Atlantic Canadian region has long recognized the importance of collecting and analyzing the biological, chemical, and physical oceanographic field data to help manage ocean activities.

**Satellites:** Satellites and related technologies are used to monitor and protect land and natural resources, ecosystems, and biodiversity as well as support the sustainable growth of industries. For example, remote sensing technologies capture data on wildlife and habitats while Global Positioning System (GPS) devices track different species. These technologies are also used to monitor and manage marine traffic, mineral exploitation, and crop growth, especially the favorable conditions for maximum yields. Changes in the capture and use of earth observation data are driven by changing business models, new regulatory requirements, and technological advances.

**Industrial:** Certain industries require communication, monitoring, and capturing of data on vehicles, assets, and people in both urban and rural areas. Telematics technologies (IT and telecommunications) help firms in industries from transportation to manufacturing collect real time data to improve asset management.

The combination of these technologies and end-uses present opportunities for SEUS-CP B2B participants.