



## Maritime Innovation 2016—Participating Canadian Companies



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4Deep inwater imaging is a global provider of submersible microscope systems that offer real-time, in-situ water quality monitoring and early detection of harmful algae. The company is based in Halifax, Nova Scotia and is very export focused with 85% of revenue generated outside of Canada. 4Deep products are now in over twelve countries with direct sales and through a distribution network.

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## DINGBOT

Maritime Centre  
6th floor (Volta Labs)  
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Dingbot Ltd. designs and produces zero-emissions autonomous surface vehicles for surveying operations in shallow water.



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Dynamic Systems Analysis Ltd (DSA) is an ocean engineering consultancy and software company. DSA provides progressive and accessible dynamic analysis expertise and software to enable those working with vessels, structures, lines and technologies in harsh marine environments to reduce risk.



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Specialising in harsh environments, Enginuity is a full service mechanical, electrical and materials engineering firm based in Halifax, Nova Scotia. We provide creative, 'outside-the-box' engineering services to support all marine applications



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Overview: Manufacturing the Geoforce DTS® boomer/sparker sub-bottom profiler and a deep-sea drop camera in Canada. We also offer technical expertise in field operations, data analysis and interpretation, equipment service and rentals for the offshore geophysical and oceanographic industries.

Building on the Hunttec DTS legacy that includes the pressure-compensated high-resolution boomer and the combination of a boomer and a sparker in a single tow fish, Geoforce strives to document the limited sonar stress emanated by its sound sources and to innovate with new profiler technologies. NEW in 2016: a remote selector switch to chose the desired mode, offering unsurpassed survey planning flexibility: Toggling between sparker reconnaissance mode and boomer high-resolution mode.

*Institute for*  
**OCEAN RESEARCH**  
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Ocean expertise abounds on Canada's east coast. In Nova Scotia alone, ocean-related activity generates \$5 billion in revenue and produces about 15 per cent of provincial employment. More than 10 per cent of all researchers in Atlantic Canada are focused on oceans. And an increasing number of private sector companies are discovering new economic opportunities in key ocean-related sectors. The Institute for Ocean Research Enterprise (IORE) exists to align these assets to benefit the region and the marine science and marine technology sectors. By brokering partnerships among industry, universities, government and private institutions, IORE is working to enhance both the competitiveness of ocean industries and our knowledge base. IORE is the program manager for the recently established COVE, Centre for Ocean Ventures & Entrepreneurship, a collaborative facility for applied innovation in the ocean sector. COVE's mission is to propel the ocean economy by providing high quality marine infrastructure and a collaborative space in which a community of ocean enterprises can start, grow and prosper. Its primary goal is to support ocean technology commercialization



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Lotek is a world leader in the design and manufacture of fish and wildlife monitoring systems. Our innovative and internationally recognized radio, acoustic, archival and satellite monitoring solutions allow researchers to track animals, birds and fish of almost any size, in almost any environment. Whether an animal moves through a terrestrial, freshwater, marine or avian habitat, Lotek has a system to track it.



**MEMORIAL**  
UNIVERSITY

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The Marine Institute's School of Ocean Technology (SOT) is charged with the responsibility of developing and delivering education and training and applied research and development programs in various aspects of ocean technology. The School is committed to developing and delivering education and training programs to meet the needs of the ocean sector (industry, academia and government) in Canada, and beyond.

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**metOcean™**  
telematics

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metOcean telematics provides complete end-to-end telematics services, with a focus on niche MetOcean solutions and custom tracking and monitoring products. We are leading the worldwide effort to better understand, access, monitor and connect our planet through Iridium.”



**NavSim**  
TECHNOLOGY

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NavSim Technology is an innovative software and hardware R&D firm that specializes in electronic navigation systems for land and marine applications. Our systems are in use with the Canadian Coast Guard, NATO and marine pilot groups around the world. Our systems integrate and overlay the full array of navigational data to provide the most comprehensive tactical navigation system in the industry.



**Newfoundland and Labrador Association  
of Technology Industries**

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NATI is the Newfoundland and Labrador Association of Technology Industries, and represents the province's advanced technology sector. With over 100 companies and organizations within the NATI membership, the association adds value and enhances international export opportunities for the entire advanced technology sector, including private sector companies, our partners within public government agencies, and the province's post-secondary educational institutions. To achieve the objectives of industry and to realize opportunities, NATI thinks and behaves like a business, identifying needs and delivering results through value-added services that assist the NL technology sector in achieving their corporate goals.



**The Smart Hydrophone Company**

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Ocean Sonics designs and manufactures the iListen Smart Hydrophone, an innovative passive acoustic monitoring system. As the world leader in gathering ocean sound, Ocean Sonics combines smart electronics with very high signal performance to give customers the best digital hydrophone technology available. This enables users to collect, record, measure, process and interpret calibrated sound data from the ocean.



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Seashore Maritime Services Limited develops and applies software for the maritime industry for vessel management, monitoring of equipment parameters, analysis and in the development stage of software for vessel energy management and audits.



**For more information:**

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