

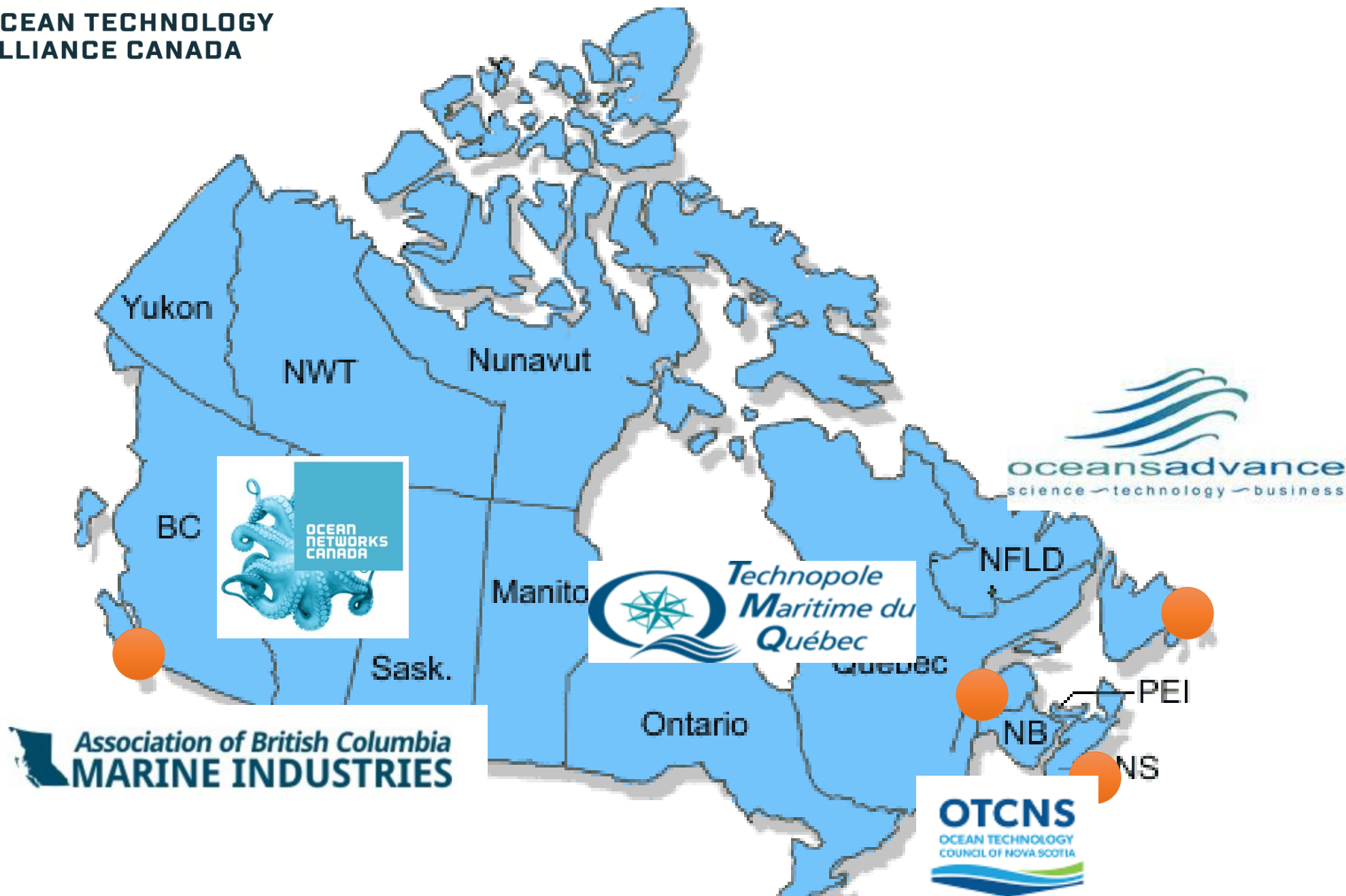
OTCNS

OCEAN TECHNOLOGY
COUNCIL OF NOVA SCOTIA





OCEAN TECHNOLOGY ALLIANCE CANADA





Up to \$4.4 BILLION or 12% of our GDP in Nova Scotia comes from Ocean Technology and related business.

NOVA SCOTIA'S OCEAN TECHNOLOGY SECTOR IS A **HORIZONTAL INDUSTRY** THAT INCLUDES THE FOLLOWING **VERTICAL SECTORS**:

- MARINE DEFENCE
- MARINE RENEWABLES
- OFFSHORE OIL & GAS
- EDUCATION & RESEARCH
- FISHERIES & AQUACULTURE
- COASTAL TOURISM

Nova Scotia's ocean economy is diverse and includes a variety of assets and industries serving a number of market segments. There is a high concentration of marine industrial and research assets in **HALIFAX HARBOUR**



Marine Defence

The home of 40% of Canada's military assets. The heart of a shipbuilding community and a part of the \$38 Billion National Shipbuilding Procurement Strategy with 85% happening in Nova Scotia.

Marine Renewables

Home of the Fundy Ocean Research Centre (FORCE) with a capacity of 64 MW, currently the highest capacity in the world. They are set to reach their goal of 300MW of commercial power by 2020.

Offshore Oil & Gas

Offshore projects in the province are being developed in collaboration with Shell, Statoil and BP have spent Billions to explore these sites. Great opportunities exist as the sites are explored and developed in the future.

Education & Research

Internationally recognized as a cluster for Ocean Research, home to Bedford Institute of Oceanography (BIO), Dalhousie University, DRDC's Atlantic Research Center as well as other major research facilities and test beds.

Fisheries & Aquaculture

With a current value of production of \$54 million, Nova Scotia's aquaculture industry has tremendous growth potential. NS has a number key advantages- access to clean ocean water, more than 7,400 kilometers of coastline and extensive fisheries infrastructure and experience. Nova Scotia commercial fisheries (shell fish and ground fish) have a total export value of over \$1 Billion.

Marine Tourism

The capabilities for the province stem from our affinity to the ocean and the role it plays in everyday life. Nova Scotians are sensitive to the technologies available to protect our coastal areas for future generations and visitors.

Core Capabilities



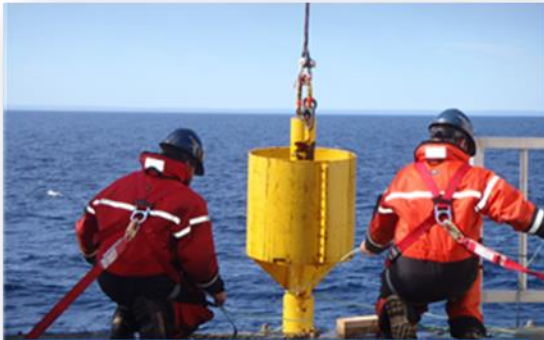
Acoustics, Sensors, and Instrumentation



Unmanned Surface and Underwater Vehicles



Naval Architecture



Marine Geomatics



Marine Biotechnology



Marine ICT

Nova Scotia's Ocean Technology Capabilities

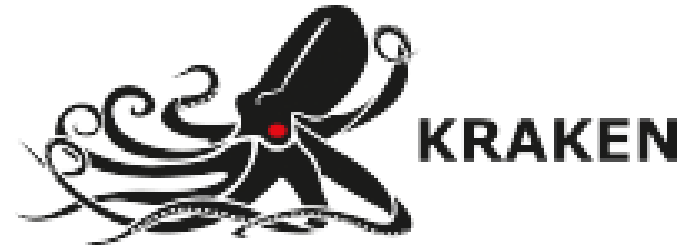
Strong capabilities in the areas of:

- Acoustics, sensors, and instrumentation
- Unmanned surface and underwater vehicles
- Data, information, and communications systems
- Marine geomatics
- Marine biotechnology
- Naval architecture

Market segments where these applications or technologies can be applied:

- Defence and Security
- Marine Transport and Shipbuilding
- Ocean Science and Observation
- Marine Energy (renewable and extractive)
- Aquaculture and Fisheries

Examples of Ocean Technology Stakeholders



Key Messages

Ocean Technology is a Horizontal Sector

- Ocean tech is an enabling technology which is intrinsic to such vertical sectors as; Marine Defence, Marine Energy, Marine Environmental Monitoring, Fisheries, Marine Transportation, Aquaculture, Marine Tourism

Ocean Technology is Export and International Business Driven

- Nova Scotia Ocean Tech SME's derive 70-80% of revenue from international business activities (exports, joint ventures etc) and our industry competes in the global marketplace and engages in global supply chains

Ocean Technology is a Government Priority

- **The Province of Nova Scotia has declared ocean tech a priority “sector” as seen by** *Launch of the Centre of Ocean Ventures and Entrepreneurship (2018); One Nova Scotia; Action Item 7; Nova Scotia's Ocean Advantage ; NSBI Priority Sector for Exports and Investment, LAE Priority Sector for the Sector Council Programme*
- **The Federal Government has declared ocean tech a priority “sector” as seen by** *Launch of the Ocean Supercluster (ISED), Priority sector for the Atlantic Trade and Investment Growth Strategy (ACOA & Provinces), Global Affairs Canada becoming more active (Berlin, London, Oslo, Copenhagen, Tokyo, Seoul, Santiago, Madrid, Lisbon)*

Thank You !

For more information please visit : <https://otcns.ca>

Mr. Chris Bourque
Executive Director
chris@otcns.ca

COVE
27 Parker St,
Dartmouth, Nova Scotia
+1-902-223-3333

