

CONNECT

COVE

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Atlantic Canada:
A Global Marine
Technology Leader

Charting a Course
for Success on Both
Sides of the Ocean

Global Marine
Innovators Converge
in Halifax

On the water and around the world, COVE is where marine innovation meets excellence.

COVE is where ideas become solutions, technologies become ventures, and opportunities become careers. We connect people, ideas, resources and assets to propel solutions and sustainable growth for Canada's marine sector. Through our programs and services, we develop a skilled workforce, test solutions, and accelerate venture growth.



 **8** acre site

 **12** acre waterlot

approximately
2,850
feet of docks

2 including
finger piers

up to
49ft
of water
depth

50,000⁺ sq.ft.
of office and workshop space

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NATIONAL PERSPECTIVE

Atlantic Canada: A Global Marine Technology Leader

Atlantic Canada, mainly Nova Scotia, has become a global marine technology leader.



The most natural place in the world to develop, test, and commercialize marine technology, is in Atlantic Canada. The cluster of marine enterprise businesses on the East Coast is massive compared to the rest of Canada, with nearly 60% of all the country's marine enterprise businesses represented.

With doors opening in 2018, COVE is at the heart of Canada's marine tech cluster. More than 60 local and global marine-based companies have set up shop at the Halifax-based facility to advance and commercialize their marine innovations. COVE's 12-acre waterfront facility along Canada's deepest harbour provides the best space in the world to turn ideas into commercial solutions. Today, over 200 companies connected with COVE use the programs and services to accelerate their venture growth.

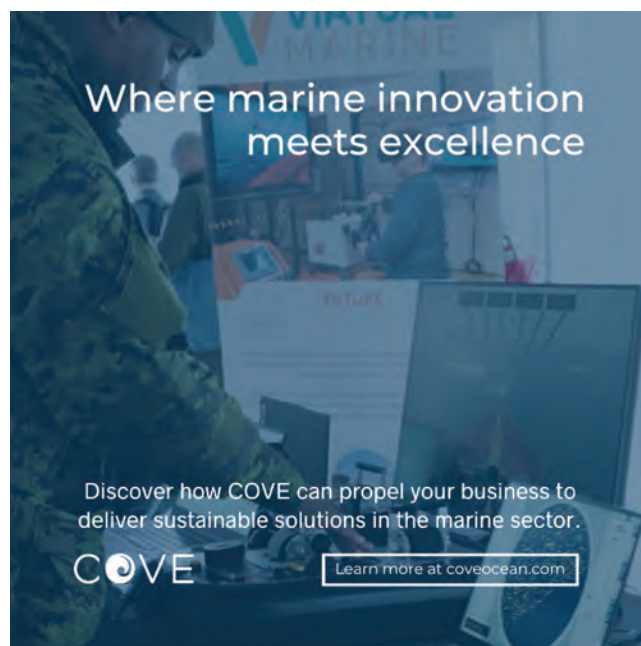
Marine technology companies, post-secondary researchers, and marine-based service businesses come to COVE for programming and short and long-term tenancies. The programs allow for the ability to harness multi-disciplinary skills and capabilities within the marine ecosystem from across the country and enable the solving of industry challenges while providing value to investors.

The governments of Canada and Nova Scotia, along with private sector leaders, including Irving Shipbuilding Inc., continue to invest in COVE to ensure it and marine innovators can make more timely strategic decisions about the site, services, and programming to advance the marine sector in Nova Scotia and our impact globally.

From testing and validation to market readiness and go-to-market actions, the growth in programs, services and companies at COVE has led to global recognition and international partnerships.

While attending the 2023 Blue Innovation Symposium, COVE was honoured to accept the Rising Tide Award presented to an organization providing exemplary contributions to the marine industry through technology innovation, collaboration, and leadership.

This is just beginning to scratch the surface of the marine enterprise industry potential in Atlantic Canada. In taking the next step, the opportunity to further grow Atlantic Canada's marine tech cluster, commercialize innovations, build additional global partnerships, and realize the future benefit to local communities and regions will continue to be COVE's focus. 🌊



Charting a Course for Success on Both Sides of the Atlantic Ocean

The global recognition of COVE's impact on the marine technology sector is leading to strategic partnerships with other leading marine technology organizations in Europe to share expertise and strengthen commercialization capabilities.

COVE and Innovate UK partner on Global Incubator Program

COVE's partnership with Innovate UK for the Global Incubator Program provides eight innovative, high-growth, and scaling businesses to build long-term relationships with a world-leading innovation hub in Canada.

The five-month program allowed UK businesses to scale in Canada, secure opportunities, and receive assistance finding and recruiting local skilled workers. Being a part of COVE gives

the cohort access to potential partnerships and amenities.

As part of the bespoke program, the eight companies showcased their technology in front of an audience of 500 global business leaders, decision-makers and service providers at Canada's largest marine technology-focused event, COVE Demo Day. As a result of the program, the companies are collaborating with COVE, its residents, and in the ecosystem to accelerate their business growth.

Collaboration Among Leading Marine Technology Organizations in Canada and Europe

COVE has partnered with marine technology organizations in Germany and Norway to deepen global sector expertise by sharing ideas for new technology creation and adoption while working alongside industry and members from international organizations.

“COVE, GCE Ocean Technology, Subsea Monitoring Network, and Ocean Innovation Norwegian Catapult Centre are at the centre of global marine technology advances in their regions. This collaboration will create new opportunities for marine technology companies and accelerate the growth of the worldwide marine economy,” said Melanie Nadeau, CEO of COVE.

“COVE will now be able to access worldwide supply chains, research and development, complementary infrastructure and technological advancements to propel Nova Scotia and Canada’s marine technology sector on a global stage.”
said Nadeau

Based in Rostock, Germany, Subsea Monitoring Network has an international reputation for excellence in the marine technology sector and is a leading location for underwater technological research.

GCE Ocean Technology is one of Norway’s leading innovation clusters and is renowned as a driving force behind the regional ecosystem for innovation, growth, and international business development.



Photo by: Udo Kragi, University of Rostock

Ocean Innovation Norwegian Catapult Centre assists companies in the marine industries to develop prototypes and offer expertise, network and equipment for testing, visualization, and simulation to turn innovative ideas into new products and services.

It was in August of 2021 that COVE, GCE Ocean Technology, Subsea Monitoring, and Ocean Innovation Norwegian Catapult signed a Memorandum of Understanding (MOU) to strengthen capabilities in commercializing new technologies and create opportunities for collaboration focused on innovation and growth. Additionally, on June 10, 2023, the CEO of COVE, Melanie Nadeau, and the Minister for Science, Culture, Federal and European Affairs of the state of Mecklenburg-Vorpommern, Germany, Bettina Martin, signed an extension of the 2021 MOU to continue the partnership while expanding Canada’s global marine sector expertise, accelerating innovation with German marine technology leaders, and growing a robust workforce. 🌐



GLOBAL TECHNOLOGY SHOWCASE

Global Marine Innovators Converge in Halifax

Over 700 attendees participated in the 2023 H2O: Home to Overseas Conference presented by OTCNS, at the Halifax Convention Centre, showcasing the potential for collaboration and exponential growth in the marine technology industry. The international H2O conference focuses on marine procurement, workforce development, private sector investment in the marine tech industry, how to build marine tech companies, and much more.

The H2O conferences are capped with an annual COVE Demo Day, the premier event for on-water demonstrations of the latest marine technology innovations.

More than 50 companies showcased their technology through on-water demonstrations and presentations to 475+ attendees. Tours of the COVE facility and the Stella Maris Operations Centre, a shore-side testing platform, were provided throughout the day. The future for the industry is bright, and COVE is excited to be at the forefront of this exciting journey. 🌊

We hope to see you at the **H2O Conference on June 3-4, 2024, at the Halifax Convention Centre**, and at **COVE Demo Day on June 5, 2024, onsite at COVE**.



Photos by: Michelle Doucette Photography

Pitch + Roll

As part of Demo Day, COVE hosted its inaugural Pitch + Roll event, with twelve innovative marine technology companies pitching their innovations to international venture capital firms with more than \$900 million under management.

COVE Pitch + Roll was COVE's first international investor event that allowed companies to pitch their business. Following Pitch + Roll, companies were invited to showcase their technology as part of Demo Day and investors walked the yard to see all the innovations present.

We understand discussions are underway between several companies and venture capital firms and look forward to seeing the investments from this exciting event.

If you are interested in participating in Pitch + Roll or Demo Day, email pitchandroll@coveocean.com.

Meet the 2023 Pitch + Roll Venture Capital Firms

aiim

bdc

SeaAhead

**BOLD OCEAN
VENTURES**

**InvestX
NOVA SCOTIA**

PROPELLER

**SANDPIPER
VENTURES**

**Schmidt Marine
TECHNOLOGY PARTNERS**

TIDAL
VENTURE PARTNERS

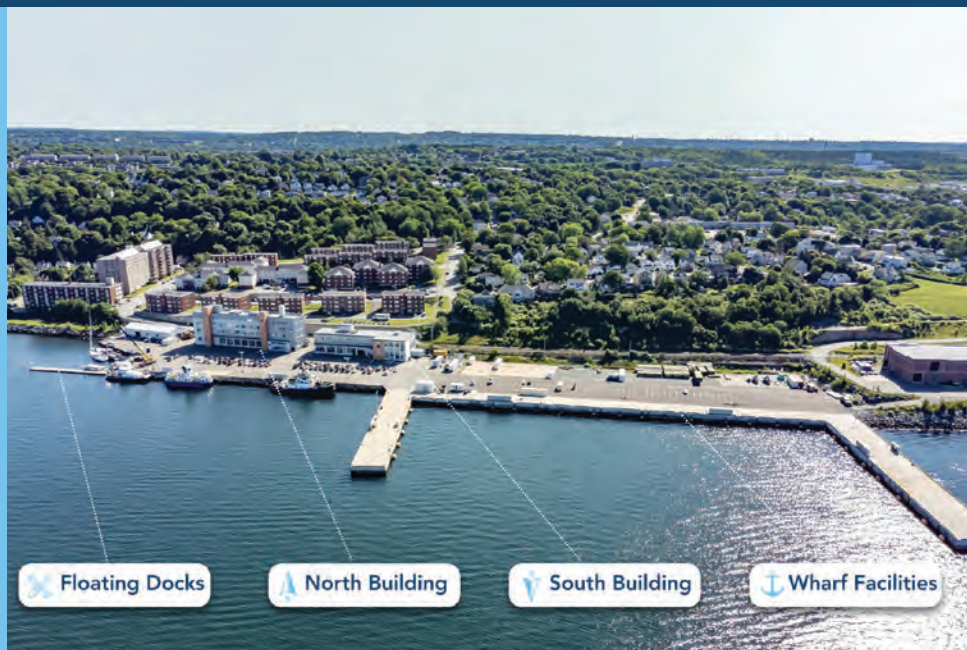


The best in marine technology. **All under one roof.**

COVE brings together the best and brightest people to push forward leading-edge developments in the marine technology industry in a purpose-built place and in a location uniquely created by nature. The COVE community inspires, encourages and facilitates marine advances with real application and meaning.

Unique COVE features

- Infrastructure that enables marine technology development
- Broad spectrum of technology and innovations to enhance the marine sector
- Focus point for solving complex challenges with multiple stakeholders
- Opportunity to diversify into adjacent market sectors, realizing commercial growth
- Access to top talent to deliver innovative solutions for business objectives
- Expansive network to drive results in a collaborative way



Canadian Companies Provide Next-Gen Naval Maintenance and Dockyard Technology Solutions

CORSphere and Datifex are developing next-generation naval maintenance and dockyard technology solutions for Thales Canada to bolster the delivery of the Arctic and Offshore Patrol Ships and Joint Support Ships (AJISS) program.

As the prime contractor of the AJISS program, Thales Canada partnered with COVE to develop the Naval Technology Innovation Challenges. The challenges provide start-ups and SMEs working in Atlantic Canada with the opportunity to deliver solutions to some of the most complex challenges the Royal Canadian Navy faces—providing a methodology to evaluate naval condition-based maintenance solutions and developing innovative tools that deconflict activities in a navy dockyard.

To aid with the testing, validation, and commercialization of the technology, CORSphere and Datifex have been awarded \$175,000, with Thales Canada contributing \$100,000 and the Atlantic Canada Opportunities Agency (ACOA) contributing \$75,000.

COVE is working with CORSphere and Datifex to monitor the implementation process of their winning solutions, which the companies will present to Thales Canada.

The success of the Naval Technology Innovation Challenges provides a path forward for COVE to develop and launch similar industry challenges for small and medium sized enterprises in the future. 🌐



CORSphere



COVE Resident Companies





TALENT DEVELOPMENT

COVE is Enabling the Workforce of the Future

As Canada's marine sector grows, the need for programming and initiatives leading to a robust and talented workforce grows with it.

By delivering programs that foster a skilled and knowledgeable workforce for the future, COVE is inspiring young minds to explore and pursue careers in the growing marine technology and sustainable energy industries and creating a pipeline for talent who want to work in marine tech and stay in Atlantic Canada.

The COVE internship program offers opportunities for students across Canada to gain experience in the marine technology sector with employers looking to expand their business. COVE aims to accelerate the marine workforce, bring new talents to workplaces, and help diversify the industry. In 2023, the Internship Program was proud to represent 77% of underrepresented groups, increasing equity, diversity, and inclusion across the industry.

COVE also enables the workforce by providing educational programs for school-age youth. For the first time, in partnership

with OffshoreWind4Kids, COVE hosted the OffshoreWind4Kids Interactive Showcase. This is a first-of-its-kind program in Canada that promotes marine renewable energy education and awareness among youth, nurturing the next generation of leaders who will drive Canada's transition to a net-zero future.

A skilled workforce is essential for addressing complex challenges like climate change impacts, overfishing and pollution while also fostering economic growth and the responsible stewardship of our ocean for current and future generations. Without ensuring programs and practices are in place for a sustainable talent pipeline, the growth of the maritime sector may not be fully realized. 🌊





COVE COMMUNITY

One of COVE's First Resident Companies Continues Industry Growth

LeeWay Marine is one of the first companies to call COVE home.

Greg Veinott, Vice President of Programs and Business Operations for the company, remembers those humble beginnings. "We had vessels parked here before the building or parking lots were done. We were managing our ships around construction before the site was even developed."

Since then, Veinott has been a part of LeeWay Marine's transition from a small traditional start-up to a global presence.

The company was founded by a team of ex-navy professionals who were newly retired. Their goal was to start a company focusing on the emerging commercialization of technologies and hydrographic surveying, which remains a crucial component of LeeWay Marine today.

The company now has six full-time and one part-time staff in the office, with another 30–35 people

on its five vessels operating throughout eastern and northern Canada and the United States.

"If it weren't for COVE and the ability to have a space that was affordable and accessible early on in the company, it would have been really hard for us to get off the ground," said Veinott.

The physical space is not the only way that LeeWay Marine has benefitted from tenancy at COVE. The company has collaborated to build strong relationships with other tenants.

"Having those connections and working with other companies here has helped us from a business development perspective cerebrally, but has also turned into actual dollars generated from contracts with those companies," said Veinott.

While COVE has supported the creation of numerous developments in marine tech, we have also helped to create something else: a culture. By supporting this community and opening the door to collaboration, Nova Scotia's marine tech sector is growing like never before.

“If it weren’t for COVE and the ability to have a space that was affordable and accessible early on in the company, it would have been really hard for us to get off the ground”

– Greg Veinott, Vice President of Programs and Business Operations, LeeWay Marine

“If I go to a conference, I’m not just talking about what LeeWay is doing; I’m talking about the other Nova Scotian companies that are doing really cool things as well. We want to support those companies,” said Veinott.

As companies like LeeWay Marine continue to grow, the Nova Scotia brand as a global marine technology leader is growing along with it. From navigating rebar at a developing site to representing the region worldwide, LeeWay Marine is indicative of the success this culture has and continues to produce. 🌐





NEWS

Irving Shipbuilding Inc.—Founding Partner of COVE—Renews Funding

In October 2022, Irving Shipbuilding Inc. announced a \$4.4 million investment in COVE over the next five years. Irving Shipbuilding is a founding investor in developing the former Coast Guard property in Dartmouth to build a world-class marine technology cluster that would become COVE.

Under the National Shipbuilding Strategy Value Proposition obligation, Irving Shipbuilding is committed to investing 0.5% of the contract value in research and initiatives to support a vibrant and sustainable marine industry in Canada.

Today, COVE remains one of the only purpose-built commercialization facilities in the world that is industry-led and marine industry-focused. Its vision is to be where marine technology leaders develop solutions for a better and sustainable world, a key driver for enabling a strong marine technology industry.

“The reinvestment from Irving Shipbuilding into COVE highlights the value of the National Shipbuilding Strategy and its continued impact on strengthening Canada’s marine economy. We will continue our work in building an innovative

and driven workforce here and across Canada and to be the leading centre of excellence for enhancing technology and innovation for all sectors of the marine economy,” said Melanie Nadeau, CEO, COVE.

“I am pleased to announce that Irving Shipbuilding is renewing its funding for COVE for another five years. Along with our support to their Workforce initiatives, that brings our total commitment of over \$10 million, all for the benefit of the broader marine sector. The Halifax Shipyard is building far more than just ships. We’re committed to the Blue Economy, Marine Technology and Skills Development.”

– Aaron Plamondon, Director of Industrial Participation, Irving Shipbuilding Inc.



Nova Scotia Invests \$8.5 Million to Support Continued Growth of COVE and Marine Economy

In July 2023, Susan Corkum-Greek, Nova Scotia's Minister of Economic Development, announced a provincial investment of \$8.5 million in COVE. The funding will support COVE in continuing to lead the way in the global marine technology sector.

"More and more, the world is realizing Nova Scotia's potential, and COVE is helping us leverage this potential through its work," said Minister Corkum-Greek. "This funding will help continue to increase our province's share of the global marine economy and support innovators to grow successful companies, all while creating jobs here at home for Nova Scotians."

Stella Maris Testing Solution

Cost-effective and easily accessible ways for marine technology companies to get their products to market faster.

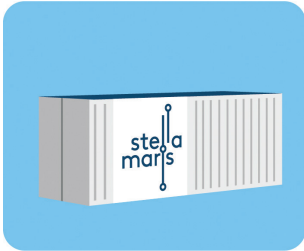
Research and development of marine sensors and technologies often require robust, secure and adaptive platforms. COVE's Stella Maris Testing Solution is a unique test-bed for marine instrumentation located at COVE in Dartmouth, Nova Scotia. With a subsea platform, dockside testing area, shorside operations centre, and 24-hour access to the data portal, Stella Maris Testing Solution offers everything a marine technology company needs to conduct product development, verification, and commercialization to advance innovation.





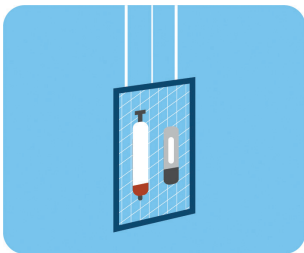
Real-Time Data Portal

Provides access to real-time data from the Stella Maris site and is available for verification and market research. COVE provides industry-standard reference data.



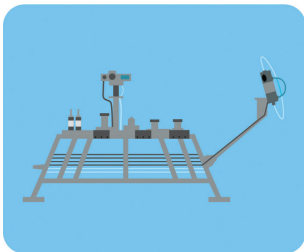
Shoreside Operations Centre

Provides access to the water and the fully equipped indoor Operations Centre, including bookable workstations and tools, when working on-site.



Dockside Testing Station

Dockside testing solution for easy access when validating subsea products on a short-term development cycle. Instruments are integrated into the Dockside Testing Station, Shoreside Operations Centre, and services.



Subsea Platform

Provides and accessible way for companies to perform long-term testing of technologies for product development. Instruments are integrated into the Subsea Platform, Shoreside Operations Centre, and services.



Scan the QR code to learn more about the Stella Maris Testing Solution.

COVE'S DIGITAL HARBOUR:

Unleashing the Potential of Ocean Data Solutions

The growth and successes at COVE have always been driven by their ability to connect and innovate. Every day, COVE brings people, ideas, resources, and assets together to propel Canada's marine technology sector. Through innovation initiatives, COVE focuses on technical ocean ecosystem engagement through highly collaborative data driven projects.

Driven by these principles of connectivity and innovation, COVE's Digital Harbour is a collaborative initiative that will digitally monitor Halifax Harbour with an integrated system incorporating real-time data sources from stationary and mobile infrastructure located in the water, on land, in the air, and via satellite.

At the heart of the initiative lies a vision to create a harbour that serves as a catalyst for innovation, fostering the development of projects and research throughout Atlantic Canada and maximizing Nova Scotia's presence in the blue economy.

To achieve this vision, the Digital Harbour initiative brings a powerful set of capabilities to the table, providing a data collection, storage and transmission infrastructure, insights related to collected data, infrastructure for testing of products and other services, and access to real-time and historical data to support research and industry activities.

As of now, the Digital Harbour initiative is in Phase 1, and significant progress has been made. With CarteNav's AIMS-ISR and AIMS C4 visualization tool, COVE has developed a proof

of concept using real-time data from the Stella Maris Testing Solution, worked with stakeholders to identify what and where ocean data has been collected to amalgamate a data ecosystem, and engaged with partners to identify collaboration opportunities.

Moreover, COVE has established an advisory committee comprising representatives from industry partners, government agencies (IRAP, ACOA, DRDC), and academia. This bottom-up approach of identifying the interest and needs of those operating out of Halifax Harbour ensures that the Digital Harbour initiative aligns with the needs and aspirations of a wide range of stakeholders. Currently, COVE is in the process of identifying use cases for phases 2 and beyond.

The ability to cost-effectively monitor marine areas and deliver commercially relevant data-based solutions is desirable to several regions worldwide. With a successful deployment in the Halifax Harbour, led by global ocean tech leaders at COVE, Digital Harbour will revolutionize industry-centred global ocean sensing and ocean data applications. 🌐

Halifax to Headquarter NATO Defence Innovation Accelerator

In November 2022, at His Majesty's Canadian Dockyard Halifax, the Honourable Anita Anand, Canada's Minister of National Defence, announced that Halifax, Nova Scotia, is the proposed location to host the North American Regional Office for the Defence Innovation Accelerator for the North Atlantic (DIANA).

DIANA is a NATO initiative to see transatlantic cooperation on critical technologies and help NATO work more closely with industry and academia. It will work directly with leading entrepreneurs, from early-stage start-ups to more mature companies, to solve critical problems in defence and security through deep technologies, including artificial intelligence, big-data processing, quantum-enabled technologies, autonomy, biotechnology, novel materials, and space.

"There is significant alignment of what is taking place in Halifax and the priorities of DIANA. Locating the North American regional office for DIANA in Halifax is a natural fit to benefit NATO Allies and advance innovation within Canada," said Melanie Nadeau, CEO of COVE.

In addition to the regional office being set up in Halifax, DIANA has a regional office in London, United Kingdom, and a regional hub will soon open in Tallinn, Estonia. DIANA leverages a network of more than ten accelerator sites and 90 test centres across the Alliance.

DIANA also has a 1-billion-euro innovation fund and Challenge Programs. These are expected to stimulate innovation in the Canadian technology sector and provide access to funding and support for their ideas.

The Halifax region is home to Canadian Armed Forces, private, public, and post-secondary organizations driving research, development, and commercialization, making DIANA a natural fit for the region.

COVE is central to the innovation ecosystem and is home to and supporting leading Canadian and global innovators who operate in the water, on land, in the air, and via satellite—including global defence companies, universities, and R&D organizations. 🌐





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