



SMART DIGITAL PORTS
OF THE FUTURE
NORTH AMERICA

HOST PARTNER

Port of
Halifax

5 - 6 DECEMBER 2023

HALIFAX, CANADA

CONFERENCE AGENDA

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DAY ONE AT SMART DIGITAL PORTS OF THE FUTURE CONFERENCE NORTH AMERICA 2023 **MORNING SESSION**

9:00AM - 9:15AM OPENING KEYNOTE

PORT OF HALIFAX: DOING THINGS DIFFERENTLY

Captain Allan Gray, President and CEO of the Halifax Port Authority, will address the challenges we collectively face as marine transportation and supply chain partners. Building infrastructure at the right time, using technology to unlock capacity, decarbonizing the supply chain, these are all goals that the marine transportation and supply chain industry is working toward. If we are to reach these goals, we need to work collaboratively, and we need to find new ways to get there.

Captain Allan Gray, *President and CEO*, Halifax Port Authority

9:15AM - 10:30AM PANEL DISCUSSION

FUTURE-PROOF PORTS: AN OUTLOOK ON THE INDUSTRY

Hear from leading industry figures as we discuss the business-critical priorities for North American Ports, plus the investment and innovation required to keep pace with demand and prepare for the future.

Our panel will discuss the following questions and more:

- What are the investment & innovation priorities for North American Ports in 2023/2024?
- For which of the numerous emerging technologies can we build a business case now?
- What will it take for North American Ports to collectively meet decarbonization goals?
- With volumes projected to continue to rise, what are the lessons learnt from recent congestion and capacity issues that can prepare us for a resilient future?
- Will the most successful North American Ports of the future be those that embrace emerging technologies and the 'smart port' model?
- What will the model North American Port look like in 2030?

David Thomas, *Executive Director*, The PIER

Marcel van Lith, *BD Harbor Cranes Americas*, Siemens

Mike Davie, *VP Operations & Technology*, Halifax Port Authority

Uzo Odumuko, *Director, Enterprise Campus Edge Service Provider Partnership Sales for North America market*, Nokia

Sandor Smith, *Manager of Digitization and Gateway Innovation*, Vancouver Fraser Port Authority

Jonathan Chia, *Head of Commercial & Corporate Development*, PSA Halifax

10:30AM – 11:15AM

MORNING NETWORKING COFFEE BREAK

11:15AM – 11:30AM KEYNOTE

HARNESSING AND HARMONIZING DATA THROUGH INFORMATION SHARING

Join Federal Maritime Commissioner Carl W. Bentzel as he discusses the status of the Maritime Transportation Data Initiative (System). In April, the Commissioner released the Maritime Transportation Data Initiative (MTDI) Recommendations and Views Report. Since that time, the Report has been open for public and industry comment through two rounds of Request for Information (RFI). Commissioner Bentzel will walk through the findings and the next steps to harnessing and harmonizing the data that drives our supply chain.

Carl W. Bentzel, *Commissioner*, Federal Maritime Commission

11:30AM – 12:30PM PANEL DISCUSSION

ARTIFICIAL INTELLIGENCE IN SMART PORTS: OVERCOMING THE CHALLENGES AND REALIZING THE OPPORTUNITIES

Artificial Intelligence can provide various benefits to North American Ports by improving vessel turnaround time, driving decarbonization, pre-empting disruption with predictive analytics, and, more generally, providing the 'brain' for many of the emerging technologies that promise to transform ports in the coming decade.

Despite the potential, the uptake of AI technology has been slow in North American Ports. This session will consider implementation challenges, showcase AI success stories, and consider what the future holds for AI in the smart port of the future.

Patrice Boies, *Vice President, Business Development and Partnerships*, Nuvoola AI

Simon Savard, *Analyst, Strategy and Innovation*, Port of Montreal Authority

Sandor Smith, *Manager of Digitization and Gateway Innovation*, Vancouver Fraser Port Authority

Pierre-Luc Gosselin, *Director of Business Intelligence*, Québec Port Authority

Michele DiSerio, *Partner, Global Edge Practice Lead*, IBM Consulting

12:30PM – 13:15PM PANEL DISCUSSION

THE DIGITAL PATH TO DECARBONIZATION

While the global economy relies heavily on the shipping industry, it is also one of the contributors of carbon emissions in the world. With increasing pressure to implement low or net zero carbon operations, digital technologies are instrumental in the effort to decarbonize the shipping industry.

This panel discussion will examine the digital practices, platforms and solutions which offer smart ways to reduce a port's carbon footprint while enhancing operational efficiency.

Hans Rook, *Ambassador*, IPCSA

Rachel Aland, *Freight Program Manager*, Coalition for Reimagined Mobility

Niels Kristiansen, *CEO and Co-Founder*, Portchain

Maria Teresa Folgôa Batista, *Auxiliary Researcher*, University of Évora

13:15PM - 14:45PM

NETWORKING LUNCH BREAK

14:45PM - 15:00PM KEYNOTE

CHARTING THE COURSE TO SAFER PORTS: PROTEX & TELUS'S VISION FOR THE PORT OF TOMORROW

Join us on a transformative journey as we explore how computer vision technology can enhance visibility and identify risks before they lead to accidents in the maritime industry.

Discover how Protex and Telus have partnered together to lead the charge in enhancing safety visibility, assisting ports in fulfilling their responsibilities to protect their workforce. We'll unveil a future where operations and safety teams can gain real time visibility to risk in their terminals implement corrective action plans to ensure safer and smoother operations.

This keynote address will inspire you to chart your course of innovation and responsibility to keeping your workforce safe guided by Protex and Telus unwavering commitment to a safer future in the maritime industry.

Ciarán O'Mara, *CTO*, Protex AI

15:00PM - 15:45PM PANEL DISCUSSION

EMPOWERING SMART PORT SAFETY: HARNESSING THE POTENTIAL OF COMPUTER VISION TO HELP REDUCE WORKPLACE ACCIDENTS

Ensuring the safety of port facilities presents a significant challenge due to their vast size and the need for continuous vigilance. Traditionally, safety teams have relied on incident reporting, a process often hindered by difficulties in gaining worker buy-in.

In this panel discussion, we delve into the profound implications of these challenges and their impact on business and safety operations. Moreover, we investigate how computer vision technology is revolutionizing safety in port facilities, providing round-the-clock visibility into unsafe behaviors without compromising employee privacy.

By harnessing the power of data and technology, we reveal how this enhanced risk visibility is not only reshaping safety practices but also contributing to a reduction in workplace accidents, ultimately creating safer working environments for all.

Ciarán O'Mara, *CTO, Protex AI*

Ryan Cuthbert, *IoT Emerging Technology Specialist, TELUS*

15:45PM – 16:00PM KEYNOTE

HIGH VALUE SKILLS FOR A NET-ZERO ECONOMY WITH DR. SHERRY SCULLY

Many employers continue hiring from conventional cohorts who possess traditional skillsets and expect their workers to not only thrive in an ever-shifting industry, but to lead the way in navigating a green shift toward a net-zero economy. Learn how companies in the port, supply chain and maritime sectors can adapt and thrive in this changing environment.

Join Dr. Sherry Scully as she shares the findings of her report “High Value Skills for a Net-Zero Economy”, which proposes an informed and thoughtful approach to building and curating a company’s workforce for the future.

Sherry Scully, *Director of Workforce Development, The PIER*

16:00PM – 16:30PM

AFTERNOON NETWORKING COFFEE BREAK

16:30PM - 17:30PM PANEL DISCUSSION

PROTECTING YOUR PORT: INVESTING IN CYBERSECURITY

With ports moving billions of dollars in goods every year, this makes them a unique target for cyber-criminals. With cyberattack attempts becoming more common in North American Ports, investment in cybersecurity solutions is vital.

The smart ports of tomorrow will benefit greatly from increased connectivity, complex networks of sensors and countless new technology implementations made with various moving parts. With these new projects, we must be cautious that we do not increase cyber vulnerability.

Hear about best practice from leading ports and build a business case for investment in cybersecurity solutions which are protecting the world's smartest ports.

Max J. Bobys, *Vice President*, HudsonCyber

Kenneth L. Washington, *Chief Information Officer*, Tampa Port Authority

Mark Dubina, *Vice President and Chief Security Officer*, Tampa Port Authority

Derrick Whalen, *Director, Information & Technology Services*, Halifax Port Authority

19:30PM EVENING DINNER

EVENING DINNER SPONSORED BY HEXAGON

At the end of Day 1, join your friends and colleagues for our Evening Dinner, sponsored by Hexagon, from 7.30 pm onwards. This relaxed, informal dining experience will begin with a short introduction from Hexagon, followed by a variety of dishes to suit all dietary requirements. The dinner will take place in the Halifax Ballroom, overlooking the beautiful Halifax Waterfront.

DAY TWO AT SMART DIGITAL PORTS OF THE FUTURE CONFERENCE NORTH AMERICA 2023 **MORNING SESSION**

8:50AM - 9:00AM

AN INTRODUCTION TO OUR SECOND DAY AT SDP NORTH AMERICA 2023

We start day two of SDP North America 2023 with a recap of our day one sessions and a preview of what is yet to come on our second and final day.

Benjamin Heather, *Head of Events*, Port Technology International
Hans Rook, *Ambassador*, IPCSA

9:00AM – 10:00AM PANEL DISCUSSION

5G: ACCELERATING PORT DIGITALIZATION

Although North America is in its early phase of adopting 5G technology, it has been a buzzword for a few years, revolutionizing the way ports operate providing ultra-fast, reliable and low-latency connectivity.

5G will also empower various applications in the port industry, enhancing operational efficiency and enabling the implementation of smart and connected solutions.

Our panel of 5G experts will present the benefits and practicality of ports shifting to 5G technology as the network continues to evolve and expand globally.

Adam Schipper, *Director Ports, Transportation & Logistics*, Ericsson North America

Olivier Grenier-Lafond, *Account Executive*, Hexagon

Jorge Marcos, *Opentop Lead Project Manager*, Fundación Valenciaport

Amr Khalifa, *Director of Operational Excellence*, GCT Canada

10:00AM – 10:45AM

MORNING NETWORKING COFFEE BREAK

10:45AM – 11:45AM PANEL DISCUSSION

SMART AND CONNECTED: EMERGING TECHNOLOGY TRANSFORMING PORTS

With new technologies emerging in the maritime industry every day, ports are looking for ways to capitalize on these and become 'smart'.

Digital twins, the adoption of predictive analytics for port operations, autonomous technologies and the implementation of IoT systems are just some of the innovations that are revolutionizing ports across the world, increasing a port's efficiency, productivity and business competitiveness.

Join us for a conversation about the challenges and opportunities that come with the latest emerging technologies and digital platforms that are transforming the maritime industry.

Serene Allen, *Vice President, Strategy & Performance*, Port Saint John

Julie Gerdeman, *CEO*, Everstream Analytics

Jasper Boessenkool, *Senior Sales Director*, Portchain

Michael Shaffner, *Director of planning and technology*, Port Houston

Jose Garcia, *CTO*, SIBRE Brakes Spain

Courtney Robinson, *Chief Operations Officer*, APM Terminals Elizabeth

11:45AM - 12:45PM PANEL DISCUSSION

THE KEY ROLE OF SMART PORTS IN THE INTERMODAL TRANSPORT NETWORK

This session will consider the ways in which smart ports can streamline the movement of cargo between shipping liners and the main forms of intermodal container transport: road, rail, and inland shipping.

This panel will discuss the following points:

Overcoming the operational challenges associated with the coordination of multiple modes of container transportation with the right mix of technology, planning and execution.

Utilizing smart technologies to improve cargo fluidity.

The power of digital tools to enable more efficient collaboration between players in the supply chain, and thus smoother flow of cargo.

Championing the adoption of more sustainable modes of container movement.

Rob Cannizzaro, *Chief Operating Officer*, Intermodal Association of North America

Shannon Blanchard, *Director, Supply Chain Innovation*, Port Saint John

Keith Reardon, *Senior Vice-President, Interline and Network Development*, CN

Andriy Ostapyshyn, *Sr. Director, Information Technology Transformation & Governance*, DP World Americas

Andrew Fisher, *Group Vice President, Transportation and Logistics Division*, J.D. Irving, Limited

12:45PM - 13:45PM

NETWORKING LUNCH BREAK

13:45PM - 14:30PM PANEL DISCUSSION

DEVELOPING A PORT COMMUNITY SYSTEM: ENABLING A SECURE DATA EXCHANGE BETWEEN PRIVATE AND PUBLIC STAKEHOLDERS

Port Community Systems play an important role in the global supply chain, enabling public and private stakeholders in the maritime industry to exchange information and collaborate effectively.

Hear about the digital data sharing platforms that are increasing the seaport's operational efficiency, improving the global supply chain performance, and helping the maritime industry to become greener and more sustainable.

Hans Rook, *Ambassador*, IPCSA

Michael Shaffner, *Director of planning and technology*, Port Houston
Vikram Patil, *Associate Director of Business Development*, CrimsonLogic
Bonnie Gee, *President*, Chamber of Shipping of British Columbia

14:30PM - 18:30PM INTERACTIVE TECHNOLOGY SHOWCASE

PIER MEMBER DAY – SMART DIGITAL PORTS SHOWCASE

We will be making our way down to The PIER (a center for Port Innovation, Engagement and Research) where Captain Allan Gray and David Thomas will welcome us to their Smart Digital Ports Showcase at 3:15 pm, where you will have the chance to build meaningful connections with the innovators and startups of the supply chain logistics sector.

So, grab a drink, and explore the startup booths at your leisure, gaining insights from stakeholders who are developing innovative solutions for supply chain and logistics challenges that no company can tackle on their own.