



SMART DIGITAL PORTS OF THE FUTURE 2021

SUSTAINABLE, AUTONOMOUS & CONNECTED

29th March – 1st April 2021

Virtual Conference, All Timings in BST

Four Half-Days full of Informative Content, Networking & Product Innovation
2 mornings & 2 afternoons

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Monday, March 29, 2021

DAY 1: AUTONOMOUS & SMART INFRASTRUCTURE

1:00PM

PTI OPENING REMARKS

SPEAKER: Stephanie M. Morley, Director of Conferences, **PORT TECHNOLOGY INTERNATIONAL**

1:15PM

PORT OF ROTTERDAM KEYNOTE: Smart, Autonomous & Digital Port of the Future

Hear from the Port of Rotterdam their vision that includes developments on the roads, in the air and water as they share their trials on autonomous trucking, new pilots with the usage of drones in the port area, tug drones and a potential pilot with unmanned barges.

CONFIRMED KEYNOTE SPEAKER:

Allard Castelein, Chief Executive Officer, PORT OF ROTTERDAM

1:45PM

Autonomous Shipping, Trucking & Drones

Automated vehicles are widely used in many industries and ports have already begun factoring in autonomous ground vehicles into their operations. Here we explore the use case for autonomous aerial vehicles (drones) and autonomous ships in ports.

- Seas & Ports of the Future - North Sea becomes an inland, Mega Port
- How autonomous vehicles can be used successfully in Smart Ports
- The evolution of autonomous shipping and how they can affect the supply chain
- How can autonomous vehicles help overcome some of today's smart port challenges
- Near shore and port approach navigational barriers for autonomous shipping

MODERATOR:

Beth Maundrill, Editor, PORT TECHNOLOGY INTERNATIONAL

CONFIRMED SPEAKERS:

Bas Buchner, President, MARIN NL

Kevin Wipperman, CIO/IT Director, PORT OF DUQM

Deniss Bickovs, Project Manager, PORT OF RIGA

Andreas Perotti, Chief Marketing Officer, Europe EHang

Mark Casey, Head of Research, Design & Innovation, UK HYDROGRAPHIC OFFICE

2:45PM

NETWORKING BREAK

3:00PM

Increasing Efficiency & Maintenance with Smart Infrastructure

Many ports are realising the benefits of utilising smart infrastructure. In this session you will hear how smart infrastructure may be used to reduce wait times, determine optimal times for ships to dock, load and unload, and enable more ships to enter the port, to name a few.

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- Explore how sensors and other technologies are being used to measure equipment usage in operations at ports.
 - Hear how the Hamburg Port Authority is using autonomous drones to inspect infrastructure in the port whilst being connected to the digital port twin.

MODERATOR:

Stephanie M. Morley, Director of Conferences, **PORT TECHNOLOGY INTERNATIONAL**

CONFIRMED SPEAKERS:

Uli Baldauf, Head of Research & Development, **HAMBURG PORT AUTHORITY**

Maarten Molhoek, Corporate Business Development Manager, **ROYAL IHC**

Rolf Bakker, Marketing Manager, **ROYAL IHC**

3:30PM

NETWORKING BREAK

3:45PM

Interpreting the Data from your Smart Technologies to Create Meaningful Business Decisions

All port operations now use more data than ever before. The next question for ports to consider is how best to interpret this data to assist your operations and make the best out of the decisions that you are making. So-called emerging technologies have now been in place at many ports for long enough now that they have begun to allow data analysts to isolate trends within individual data sets, allowing for more insight into what is happening at individual points in port operations. In this session, you will hear how this insight can be interpreted into the business decisions that ports need to take in addition to:

- Valuable insights on how long-range drones can be used to easily monitor and quickly respond to incidents as well as contribute to the supply chain logistics of ports in a sustainable and cost effective way

MODERATOR:

Stephanie M. Morley, Director of Conferences, **PORT TECHNOLOGY INTERNATIONAL**

CONFIRMED SPEAKERS:

Daniel Oliver, Director of Business Intelligence & Innovation, **PORT OF MONTREAL**

Patrique Zaman, Founder & CEO, **avy**

Kristian Skaarup, CEO, **LORENZ TECHNOLOGY**

4:45PM

CLOSING REMARKS

SPEAKER: Stephanie M. Morley, Director of Conferences, **Port Technology International**

Tuesday, March 30, 2021

DAY 2: DIGITAL, CONNECTED PORTS

9:00AM

DAY 2 OPENING REMARKS

SPEAKER: Stephanie M. Morley, Director of Conferences, **Port Technology International**

9:15AM

C-Level Panel: Realising the Vision of a Smart, Digitally Connected Port

How are the world's biggest ports using digital technologies to make their operations more efficient? Where do they see themselves in the future and what steps do they need to take now to achieve their goals?

This session will hear the visions from some of the most innovative ports in the world.

MODERATOR:

Oscar van Veen, Head, Digital Innovations, **PORT OF ROTTERDAM**

CONFIRMED SPEAKERS:

Marco Neelsen, CEO, **PORT OF TANJUNG PELEPAS**

Joe Hiney, Chairman, **DROGHEDA PORT AUTHORITY**

Kenneth Lim, Assistant Chief Executive (Industry), **THE MARITIME & PORT AUTHORITY OF SINGAPORE**

Allan Gray, CEO & President, **PORT OF HALIFAX**

Isabel Moura Ramos, Executive Board Member, **PORTS OF AVEIRO & FIGUEIRA DA FOZ**

10:15AM

NETWORKING BREAK

10:30AM

Improving Efficiency & Transparency Through Connecting Ports and Operators

Port authorities, terminal operators and their entire supply chains need to work together if they are going to meet the challenges of the post-pandemic world. This includes cooperating on big data, sustainability and adapting to a rapidly changing labour force and work culture, and much else. This session will examine how the maritime supply chain's major stakeholders can benefit through joint action. Specific discussions include:

- How the increase of information exchange between agents has resolved problems and improved efficiency of delivery.

MODERATOR:

Hans Rook, Chariman, **IPCSA**

CONFIRMED SPEAKERS:

Anna Herrera Navarro, Director of Information Systems, **PORT OF TARRAGONA**

Bethann Rooney, Assistant Director, Strategy & Innovation, **PORT AUTHORITY OF NY & NJ**

Matthew Wittemeier, Senior Manager International Marketing and Customer Relations, **INFORM**

Bruce Mills, Manager, Business Development Ship Traffic Control, **WARTSILA VOYAGE**

Wouter Buck, Proposition Manager Digital Business Solutions, **PORT OF ROTTERDAM**

11:45AM

NETWORKING BREAK

12:00PM

Ports' Innovative Uses of Blockchain Technology

The pandemic has led to erratic and unpredictable trade on the world's largest shipping lanes and caused congestion at major gateways in all regions. As a result, there is a need for greater digitization in operations and documentation, something the maritime industry has seen blockchain provide in the transportation of cargo. In this session, hear how Ports' have been gaining efficiencies through blockchain technology in addition to distributed applications for the Maritime industry.

Specific areas of focus include:

- How blockchain technology helps realize real business value by addressing VAT compliance, digitally connected ports & hinterland and digital transfer of ownership

MODERATOR:

Stephanie M. Morley, Director of Conferences, **PORT TECHNOLOGY INTERNATIONAL**

CONFIRMED SPEAKERS:

Gadi Benmoshe, CIO, **ISRAEL PORTS COMPANY**

Aljosja Beije, Director, **BLOCKLAB**

12:30PM

NETWORKING BREAK

12:45PM

Data Exchange & Standardisation with Applications & API's

Standardisation of data has become one of the most talked about issues in the maritime industry, and it remains fundamental to port digitalization. Associations like the Digital Container Shipping Association (DCSA) and Terminal Industry Committee (TIC 4.0) are striding forward with the development of standards across the industry and how these fit with existing Applications and APIs is a crucial next step. This session will look at what progress has been made and how current technologies can be utilized to improve operational efficiencies.

MODERATOR:

Matthew Wittemeier, Senior Manager International Marketing and Customer Relations, **INFORM**

CONFIRMED SPEAKER(S):

Nico de Cauwer, Business Architect Digitalisation & Port Community Projects, **Port of Antwerp**

David Woudenberg, Technical Lead, **SHIPPING TECHNOLOGY**

Remco Pikaart, Founding Partner, **SHIPPING TECHNOLOGY**

Luis Marinho Dias, Co-Director Innovation, **PORT OF LEIXOES APDL**

Richard Morton, Secretary General, **IPCSA**

1:45PM

CLOSING REMARKS

SPEAKER: Stephanie M. Morley, Director of Conferences, **Port Technology International**

Wednesday, March 31, 2021

DAY 3: SUSTAINABLE SUPPLY CHAINS

2:00PM

DAY 3 OPENING REMARKS

SPEAKER: Stephanie M. Morley, Director of Conferences, **PORT TECHNOLOGY INTERNATIONAL**

2:15PM

Utilising Digitalization for a More Sustainable Port

Digitalization can not only help ports process more cargo but also in an environmentally friendly way. As critical points in the supply chain, ports can help bring down carbon emissions across the logistics industry by using green technologies in its container handling operations and the hinterland.

In this session hear how:

- Making digital improvements to port operations through automation, AI or any number of emerging technologies can have a direct impact on the sustainability of a port as it reduces waste and increases efficiency.
- Successful digitalisation projects that led to significant energy and emission reductions, including measures such as digital vessel coordination, machine learning and truck appointment systems.

MODERATOR:

Rich Ceci, Senior Vice President of Projects and Technology, Virginia International Terminals, PORT OF VIRGINIA

CONFIRMED SPEAKERS:

Youssef Ahouzi, CIO & Interim General Manager, PORTNET

Patrick Everts, General Manager, Maritime Excellence Center, KOTUG

Dr. Nils Kemme, Partner, HPC

Rich Ceci, Senior Vice President of Projects and Technology, Virginia International Terminals, PORT OF VIRGINIA

Tommy Mikkelsen, Managing Director, TRELLEBORG MARINE SYSTEMS DK

Sangkom Kositwiwat, Regional IT Director, KERRY SIAM SEAPORT (ONLY PARTICIPATING IN THE Q&A)

3:45PM

NETWORKING BREAK

4:00PM

Sustainable, Inland Shipping & Short Sea Shipping

By moving the onward distribution of goods from road networks to sea networks represents a new opportunity for ports to become more sustainable. Hear how this occurs and other benefits such as:

- An eco-friendly transport and cost-efficient alternative
- Receive goods in a reliable, consistent, and timely manner
- Less congestion, safer driving, and reduced noise levels

MODERATOR:

Beth Maundrill, Editor, PORT TECHNOLOGY INTERNATIONAL

CONFIRMED SPEAKERS:

Alan Tinline, Group Head of Health, Safety and Environment, **ASSOCIATED BRITISH PORTS**

Luis Marinho Dias, Co-Director Innovation, **PORT OF LEIXOES APDL**

4:30PM

NETWORKING BREAK

4:45PM

Reducing Energy Costs & Dependence in your Port

There are numerous ways ports can cut energy and save money. Green technologies offer the opportunity to process cargo at the same time as cut emissions. This session will look at ways to save money across a port and show practical ways in which energy management can be digitally developed to be able to make in-depth analyses to significantly reduce energy. Rethink power management as a business opportunity for terminals through the networking of systems.

MODERATOR:

Stephanie M. Morley, Director of Conferences, **PORT TECHNOLOGY INTERNATIONAL**

CONFIRMED SPEAKERS:

Michael Houen, Director, Smart Port Strategy, **HATCH**

John Matthiesen, Smart Grid & Asset Management Team Lead, **HATCH**

Torsten Neubert, IT & Operations Consultant, **HPC**; IT & Operations Director, **HHLA**

Janjoost Jullens, Director, **BLOCKLAB**

5:45PM

CLOSING REMARKS

SPEAKER: Stephanie M. Morley, Director of Conferences, **Port Technology International**

Thursday, April 1, 2021

DAY 4: Emerging Business Models & Innovative Technologies

9:00AM **DAY 4 OPENING REMARKS**
SPEAKER: Stephanie M. Morley, Director of Conferences, **Port Technology International**

9:15AM **C-Level Panel & Debate: Considering New Emerging Business Models in Ports**

The impact of COVID-19 on ports led many to take a step back and reconsider the traditional business models they operate under especially as the global landscape as we know it has changed. In this session, explore new revenue/business models in ports.

MODERATOR:
Stephanie M. Morley, Director of Conferences, **PORT TECHNOLOGY INTERNATIONAL**

CONFIRMED SPEAKERS:
Carles Rua, Chief Innovation Officer (CINO) **PORT OF BARCELONA**
Dr. Phanthian Zuesongdham, Head of Division Port Process Solution, **HAMBURG PORT AUTHORITY**
Julian Walker, Chief Commercial Officer, **ASSOCIATED BRITISH PORTS**
Tommy Mikkelsen, Managing Director, **TRELLEBORG MARINE SYSTEMS DK**
Keith Halifax, Chief Financial Officer, **FLINDERS PORT HOLDINGS**

10:15AM **NETWORKING BREAK**

10:30AM **INFORM KEYNOTE: Leveraging Artificial Intelligence to Resolve Today's Challenges**

When we consider artificial intelligence (AI), we often envisage AI as being something to solve tomorrow's problems. While a subset of AI, machine learning is gaining traction, the broader application of algorithms to assist with decision-making doesn't grab the headlines it could. In this unique keynote, INFORM will take you on a journey to look at how AI can be applied today with a detailed dive on how applying AI side-by-side your broader infrastructure projects will yield significant advantages.

CONFIRMED SPEAKERS:
Alex Van Winckel, Senior Consultant, **INFORM**
Matthew Wittemeier, Senior Manager International Marketing and Customer Relations, **INFORM**

11:00AM **Enable Automation and AI with Wired and Wireless Connectivity**

Ports are strongly needed to engage and deploy innovation such as BlockChain, Cloud, AI, 5G, LoraWAN and IoT, and it is critical to ensure the foundation is well set.

At the same time customers are embracing new smartphone applications, which will require you to deliver them the appropriate services.

Wireless network, private LTE, 5G, WiFi networks are set to alleviate connectivity issues that current networks are causing by increasing bandwidth to enable an increasing number of use cases to work smoothly in the Port environment.

Hear how these new networks are allowing modern ports to be more competitive and prepared for the next age of Industry 4.0 technologies which is critical across all port operations.

MODERATOR:

Beth Maundrill, Editor, **PORT TECHNOLOGY INTERNATIONAL**

CONFIRMED SPEAKER:

Karen Poulter, Head of Information Systems Department, **HUTCHISON PORTS UK**
Roch Muraine, Global Sales Director, Vertical Market, Transport, **ALCATEL-LUCENT ENTERPRISE**

Matthias Jablonowski, Head of Road & Maritime, **NOKIA**

12:00PM

NETWORKING BREAK

12:15PM

New Business Models for Technology Projects in Ports & Terminals of the Future

The terminal industry will require new business models that enable collaboration and inclusion if they are to take advantage of the potential benefits of automation and digitalisation. Exciting as it may be to implement new technologies projects must be considered with people and the work force in mind. Collaborating all stakeholders is the key to successful implementation of new technology efforts.

- Successfully training the workforce to fully utilize new technology

MODERATOR:

Beth Maundrill, Editor, **PORT TECHNOLOGY INTERNATIONAL**

CONFIRMED SPEAKERS:

Francisco de los Santos, Chief Information & Innovation Officer, **ALGECIRAS PORT AUTHORITY**

Bob Dhaliwal, Secretary Treasurer, **ITF**

Rene Alvarenga, Senior Director of Product Management, **WABTEC CORPORATION**

Oscar Pernia, Director of Digitalization and Automation, **TERMINAL INVESTMENT LIMITED**

Marie-Andrée Blanchet- Assistant Director, Communications and Innovation, **PORT OF QUEBEC**

Carolien Vat-Sandee, Co-Founder, **PORTXL**

Dita Bruijn, Director of Operations, **PORTXCHANGE**

1:30PM

CLOSING REMARKS

SPEAKER: Stephanie M. Morley, Director of Conferences, **Port Technology International**

1:45PM

CLOSE OF CONFERENCE