



Organized by:



19 - 20 November 2019 9:30 - 17:30h - SESSIONS BOOTH #409 & NORTH AGORA

DAY 1
19 November 2019



📍 LOCATION: BOOTH #409

09.30

Opening and Welcome from Port of Barcelona

Santiago García-Milà, President, International Association of Ports and Harbors (IAPH) & Deputy General Manager, Port of Barcelona

📍 LOCATION: BOOTH #409

DIGITAL

09.40 a.m

Project 5G MoNarch

Testing the performance of concepts underlying the use of 5G slices in real test environment to provide subsequent improvements in the process.

Ulrich Baldauf, Head of IT-Innovation, Hamburg Port Authority

10.00

Next-level container checking system, powered by Artificial Intelligence

With support from the Port of Montreal, Canscan has developed an AI-based system that uses existing port infrastructure, to automate the container inspection system.

Martin Catellier, Head of Business Development, Canscan

10.20

Technology Transfer from Industry to push Boundaries in global Port Logistics

After testing at the EXPO in Dubai, the partners are planning a sales launch for such systems by 2021. The BOXBAY High Bay Storage System is a disruptive technology that significantly improves container terminals, the container handling systems market.

Mathias Dobner, CEO, Boxbay

10.35

Networking Coffee

10.45

Pronto, optimize your port calls

Provides shipping companies, agents, terminals and other service providers with a shared platform that they can use to Exchange information about their port calls.

Thea de Vries, Director Marketing & New Business - Digital Business Solutions, Port of Rotterdam

11.05

Port Optimizer

Integrate data across the port ecosystem, combining machine learning and Deep domain expertise. A single location for different stakeholders to share data

Christopher Chase, Marketing Manager Port of LA

11.25

Digital Twin

The Port of Antwerp has created a virtual copy of the real-world situation in the port. This digital twin provides real-time information and is the basis for situational awareness of incidents, hazards, environmental monitoring, water depths, etc.

Piet Opstaele, Innovation Lead, Manager Innovation, Port of Antwerp

11.45

Smart Container Reefer Monitoring

Technical solutions that will Help on container reefer monitoring at Container Terminals

Vicens Roig, Engineering & Technology Manager, Hutchison Ports BEST

📍 LOCATION: NORTH AGORA

NORTH DISTRICT AGORA

12.00

Drones Open Innovation

Open innovation platform to accelerate the development and testing of the drone technology. Results will be explained.

Piet Opstaele, Innovation Lead, Manager Innovation, Port of Antwerp

12.15

Power To Ship

The Port of Barcelona is fully committed to minimising the impact of port activity on the surroundings, which is why we are promoting actions that can reduce the emissions from this activity. One of the main actions is the electrification of the wharves, which will involve an investment of over € 60 million and will allow us to reduce NOx emissions by 51% and cut particulate emissions by 25% by 2030.

Carles Mayol, Sales manager, Port of Barcelona

12.30

Port City Model

This aims to develop a tool to simplify decision-making in the growth and optimisation of port processes by combining data analysis and visualisation with simulation of future scenarios. The focus of this project is related specifically to land transport linked to cruise tourism.

Jens Meier, CEO of Hamburg Port Authority

📍 LOCATION: BOOTH #409

DIGITAL

12.45

5G in a container terminal: V2X applied to Cranes. Improving safety in a dangerous Environment

The Terminal has the advantage of being at the entrance to the port. It has its own rail connection in the dock, direct access to motorways, and an automated gate. The Customs office is also located in the Terminal to optimise the logistics process.

Sergi Dominguez, Head of IT, APM Terminals Barcelona

13.00

Networking Break

13.45

Myriad, real time industrial analytics at the push of a button

Myriad is an industrial site intelligence tool that brings real-time analytics to industrial areas to reduce the time between information acquisition and decision-making. The system is a fully autonomous network of drones that survey the area set by the customer and react to alerts provided by user input or satellite detection.

Víctor Madrigal, Vice President & Chief Data Scientist, SVARMI

14.00

Real time monitoring by Bolloré Logistics

In order to meet shippers' needs such as real-time tracking & traceability, to ensure the integrity of the goods and to be responsive to transport incidents, Bolloré Logistics proposes a global offer ensuring real-time monitoring of end-to-end shipments with proactive alert management. Thanks to an on-board sensor, all data such as location, temperature, hygrometry, brightness and shocks are collected all along the supply chain. Centralized on a digital platform accessible 24/7, they are analyzed in real time

Ludovic Fenelon, Head of Digital Business Solutions & **Emilie Clavier**, Innovation Marketing Manager, Bolloré Logistics

14.20

Strength of a collaborative supply chain

BuyCo provides a collaborative platform that allows its client ALTEO to streamline supply chain processes, to be more performant and better serve customers. Buyco platform offers live access to operational data from all the partners of the maritime transport chain: production sites, sea freight carriers, forwarders at POL & POD, shipper's logistics team and customer at destination.

Vanessa Gimenez, Procurement, ALTEO & **Carl Lauron**, Founder, BuyCo

14.40

TRAXENS: Connecting the dots

Traxens generates, collects, consolidates, enriches and transforms logistics asset data into actionable insight for its clients in the maritime, rail and supply chain industries. The company's breakthrough Internet-of-Big-Things technology provides comprehensive, real-time information for managing logistics assets anywhere in the world. Traxens' solutions digitally transform multi-modal supply chains, enabling customers to reduce costs, optimize investments, comply with environmental regulations and deliver premium services to their customers.

Michel Fallah, Founder of Traxens

15.00

BIM Project

HPA is setting sail towards a "digital port" based on virtual and augmented reality by mapping the entire Port of Hamburg with all its infrastructures as a digital twin. BIM is based on central information management using a data source as the core of cooperation ("single point of truth").

Ingrid Boqué, Manager Corporate Strategy, Hamburg Port Authority

15.20

Driving Automation in Passenger Boarding Bridge Operations

Whereas in airport operators are trying to reduce airplane turnaround times, by minutes or even seconds, the same currently also applies to ferry terminals where it is crucial for ferries to be able to turn around in a very limited time. Automated docking of a passenger boarding bridge with an aeroplane is already a reality. The question is how and when automated docking with a ferry vessel, or even a cruise vessel can become a reality.

Jordi Floreta, Vice President and Business Unit Director at ADELTE

 LOCATION: BOOTH #409

ENVIRONMENT

15:40

Hydropower

Hydropower is the first turbine to generate green energy on sea locks. Several hundred Kwh can be generated using the tidal flows through the canals of the lock. This innovation project was completed very successfully, far exceeding expected results, and preparations are underway to roll it out widely in the Port of Antwerp;

Piet Opstaele, Innovation Lead, Manager Innovation, Port of Antwerp

15:55

Networking Coffee

16:15

Recycled Carbon Fuels

The EU has agreed a comprehensive update of its energy policy framework which introduces the concept of Recycled Carbons as a renewable fuel source, including in this category the Marpol I waste collected from vessels.

Alvaro San Pedro, Hydrocarbon Business Manager & **Ana Conesa**, Marpol & Fuel Product Manager, Ecoimsa

16.35

Echodrone: Autonomous sounding boat

The Echodrone is world's first fully autonomous sounding boat, operational in the Port of Antwerp. This low-cost, zero-emission solution - including dynamic object avoidance – has become a platform around which to build new applications such as oil spill clean-up.

Piet Opstaele, Innovation Lead, Manager Innovation, Port of Antwerp

16.55

Digital Twins and IoT: the Aquifer Model of Port of Barcelona Case

The double paradigm of digital twins allows dynamic monitoring of the conditions and performance of critical assets

Eduard Loscos, R&D Manager, IDP

17.15

Bound4Blue – Smart Challenge Catalonia 2018 Award

Innovative wingsail system to be integrated onto a wide range of vessels. The system has been conceived as a complementary propulsion system, which produces effective thrust from existing winds.

Jose Miguel Bermúdez, Co-founder of Bound4Blue

17.35

Inoses

IOT are a network of sensors to detect and identify volatile organic components to determine air quality.

Piet Opstaele, Innovation Lead, Manager Innovation, Port of Antwerp

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 DAY 2
 20 November 2019


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DIGITAL

09.30

CTA Container Tracking Application

The CTA is a Container Tracking Application system that consists of being able to track containers online before, during and after their entry into the Port of Barcelona. This system provides us with all the data of the containers using only the registration number.

Emma Cobos, Business Development Manager, Port of Barcelona


 LOCATION: BOOTH #409
ENVIRONMENT

09.50

Clever Volume – Smart Challenge Catalonia 2019 Award

A system has been developed to automatically measure the volume and weight of waste from ships in the port of Barcelona.

Jorge García, CEO, 3D Modelling Studio & **Camila Oliveira**


 LOCATION: BOOTH #409
MOBILITY

10.10

Smart Intermodal Route Planner

Offers digital solutions for shippers, freight forwarders and traders who want to increase their insight and control of their logistic chains.

Thea De Vries, Director Marketing & New Business - Digital Business Solutions, Port of Rotterdam

10.30

Digital Twin

Aerial photos captured by drones will be used to create an augmented and virtual reality application that will allow an immersive experience of the port.

Daniel Olivier, Director Business Innovation, Port of Montreal


 10.45
Networking Coffee

 11.00
Smart Maritime Traffic Management

This maritime traffic management tool provides accurate information about vessels, their situation and the actions of the various port services, improves safety in sailing and operations, and increases efficiency, while improving safety.

Enrique Cortada, Head of Control Tower, Port of Barcelona

11.20

Virtual Gates

This application provides up-to-date information on the situation at the accesses to the container terminals. This information, combined with the information that comes from Customs, allows us to make accurate 24 to 48-hour forecasts and supply container terminals with important information on how their accesses are working, helping them to become more efficient and make the whole logistics chain more efficient.

Carles Mayol, Sales Manager, Port of Barcelona

11.40

Connectainer

CONNECTAINER is the new 20'HC which could be connected to other 20'HC to form a 40'HC. The flexibility to convert your 40'HC in 2x20'HC and v.v. allows any Shipping Line to avoid inefficient empty repositions and its associated handlings and greenhouse gas effect emissions. Some units in stock (among 15-20%) will save about half of worldwide empty repositions

Francisco Aguilar, General Manager & **Jesús Garcia**, Managing Director, Connectainer

📍 LOCATION: NORTH AGORA

NORTH DISTRICT AGORA

12.00

Towards a Smart Port - City interface

Integrating AI into Harbour Trucking Traffic Management

Daniel Olivier, Director Business Innovation, Port of Montreal

12.15

Port forward. Step by step towards a Smart connected port

These solutions help ports grow towards a smart, connected port and can also support other ports in their digital development

Thea De Vries, Director Marketing & New Business - Digital Business Solutions, port of Rotterdam

12.30

Environmental Technology

Technology to reduce port-related air pollution and related health risks. This includes the Clean Truck Program and other components such as the world's first hybrid tugboat.

Eric Caris, Director Cargo Marketing, Port of LA

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DIGITAL

12.45

Port city model

Aims to develop a tool that simplifies decision-making in the growth and optimization of port processes by combining data analysis and visualization with simulation of future scenarios. The special focus of this project is specifically related to land transportation linked to cruise tourism.

Iris Scheel, Head of Corporate Functions, Member of the Management Board, Hamburg Port Authority

13.00

Trucking PORTal

A support tool for truckers and dispatchers or providing real time visibility on truck turn times.

Daniel Olivier, Director Business Innovation, Port of Montreal

13.15

Networking Break

14.00

Container Weighing System

Weighing solution adapted to easily obtain gross mass of containers according to SOLAS regulation. The solution is based on replacing the existing twistlocks from spreaders for new twistlocks converted as load cells. This technology makes it possible to obtain real time weight information at the exact moment the spreader lifts up the container, which may be used for tracking, verification and safety purposes.

Núria Teixidó, Technical Director, SENSOCAR

14.20

Portic Trucker Voice Assistant

The assistant supports truck drivers by informing them about the current state of the documentation and the waiting time to access the port terminals. The assistant will be queried using natural language and answering questions.

Javier Gallardo, Managing director, PORTIC

 LOCATION: BOOTH #409

CYBERSECURITY & BLOCKCHAIN

14.40

Cyber Resilience Center

Proposes the creation of a Cyber Resilience Center with Stakeholders. Would be a collaborative effort to share cyber threat information across a multitude of companies.

Eric Caris, Director Cargo Marketing, Port of LA

15.00

Application of Blockchain Technology

The background to this PoC is that a great many paper-based documents are required for marine cargo insurance, especially when a cargo is found damaged abroad, a process that has mostly not been digitalized. For marine cargo insurance claims, a contracted insurer is not necessarily in charge of the insurance payment procedures.

Roberto Fernández, Global Head of Digital Ecosystems, Everis

15.20

Blockchain maritime Transport: Bill of Lading

The International Port Community Association (IPCSEA) is developing a Proof of Concept to digitalize the Bill of Lading (BL) under Distributed Ledger Technology (Blockchain) with the collaboration of different PCS, Carriers and Banks. The project covers the endorsement of the BL and its relation with Letter of Credit, Delivery Orders and the transportation chain.

Javier Gallardo, Vice-president, IPCSEA

15.40

IBM's strategy for governance solutions in Europe

Governments need to transform digitally so they can deliver the services that citizens want and need. The public expects the kind of speed and efficiency found in the private sector, and governments must embrace new technology, processes, ideas, and workforce skills to be successful.

Cristina Caballé, Executive Director of industry solutions, IBM

📍 LOCATION: BOOTH #409

STARTUPS INNOVATION

Round table

16.00 – 17.00

PierNext

PierNext is a digital knowledge hub spearheaded by Port of Barcelona to report on the innovation that is transforming logistics and international trade, with an emphasis on ports and maritime trade.

Carles Rúa, Head of Strategic Projects and Innovation, Port of Barcelona

Puertos 4.0

This plan aims to facilitate the transition from the logistics-port sector to the 'smart ports' of the 4.0 economy. On an initiative from Puertos del Estado, the ports of Spain have set up a €25 million fund to subsidize ideas and projects related to the port logistics sector.

Quim Martínez, Innovation and Managing Consulting Director, KPMG Innova Valley

Startup Wharf

Startup Wharf is the first Accelerator specific to the Maritime sector. It focuses on Shipping, Ports, Maritime Services and Marine to create a Maritime Innovation Ecosystem.

Leonardo Zangrando, Founder at Startup Wharf Ltd, MSc Naval Architect, MBA

Barcelona Tech City

Barcelona Tech City is a 100% private non-profit member organization that represents around the 70% of Barcelona's digital and technological sector. Its main goal is to showcase Barcelona as a key hub within the global tech scene

Joana Fusté, CMO, Barcelona Tech City

Founder Institute Barcelona

The Founder Institute helps entrepreneurs and startups to validate and improve their business idea and get customers and investment by providing constant feedback from prominent mentors and structure and focus to accelerate the process of business validation and value creation

Oriol Bes, Director, Founder Institute Barcelona