



SMART DIGITAL PORTS OF THE FUTURE EUROPE

24 - 25 SEPTEMBER 2024
ROTTERDAM, THE NETHERLANDS

CONFERENCE AGENDA

SMART, EFFICIENT
& CONNECTED



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OF THE FUTURE**
EUROPE



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AVAILABLE TO ALL ATTENDEES

EVENING DRINKS RECEPTION: MON 23RD SEPTEMBER @ 7:30PM

HILTON ROTTERDAM

DAY ONE: TUE 24TH SEPTEMBER 2024

8:00 – 8:45: REGISTRATION AND MORNING COFFEE

8:45 – 9:00

CHAIRPERSON INTRODUCTION

WELCOME TO DAY ONE AT SDP 2024

HANS ROOK, AMBASSADOR, INTERNATIONAL PORT COMMUNITY SYSTEMS ASSOCIATION
KEVIN MARTIN, CEO, ONE DIGITAL NATION

9:00 – 9:30

KEYNOTE ADDRESS FROM VERIZON BUSINESS

HARNESSING THE POWER OF PRIVATE 5G & EDGE COMPUTING: TRANSFORMING SMART PORTS FOR THE FUTURE OF MARITIME LOGISTICS

As the maritime industry evolves towards more sophisticated and interconnected operations, the integration of private 5G networks is emerging as a game-changer in the transformation of smart ports.

This session will delve into the latest developments, requirements, and implementation strategies of private 5G networks, showcasing their pivotal role in revolutionizing port operations.

Attendees will gain insights into the critical aspects of deploying private 5G networks, the advantages they bring over traditional connectivity solutions, and the transformative potential they hold for enhancing efficiency, security, and scalability in smart ports.

SPEAKER

TOM AMERSHEK, ASSOCIATE DIRECTOR, INTERNATIONAL 5G SOLUTIONS ARCHITECTURE, VERIZON

9:30 - 10:30

DISCUSSION AND AUDIENCE Q&A

GREEN DIGITAL PORTS: THE TWIN OBJECTIVES OF DIGITALISATION AND DECARBONISATION

The path to net zero ports and terminals will require green equipment and investment in sustainable infrastructure, but it will not be possible to achieve carbon neutrality without continued digitalisation of our operations.

This session will help us to understand the importance of planning all new projects and technology implementations through the scope of two mutually necessary objectives: digitalisation and decarbonisation.

SPEAKERS

KAJ DE GROOT, HEAD OF AUTOMATION PROJECTS, **PORTWISE**

AFSHIN MANSOURI, PROFESSOR OF OPERATIONS AND SUPPLY CHAIN MANAGEMENT, **BRUNEL UNIVERSITY LONDON**

ELISA ROMERO, ENVIRONMENTAL TECHNICIAN, WORKS AND BLUE ECONOMY DEPARTMENT, **PORT OF VIGO**

MATTEO BOSCHIAN CUCH, PHD STUDENT - CENIT (CIMNE), **PORT OF BARCELONA**

WOUTER BUCK, HEAD OF PORT CALL AND SUPPLY CHAIN PERFORMANCE, **PORT OF ROTTERDAM**

MAARTEN BOOT, POLICY ADVISOR, **FEPOR**

10:30 - 11:00: NETWORKING BREAK & REFRESHMENTS

11:00 - 11:15

KEYNOTE AND AUDIENCE Q&A

ENABLING MARITIME DECARBONISATION WITH ELECTRIFICATION AND DIGITAL SOLUTIONS

Electrification process comes with several challenges and here a case is made for microgrids in the ports, in which local generation is utilized to supply the increasing electrical demand in a sustainable way. Digitalization of the ports is coupled with the Energy Management System to create the optimal and future proof solution for the ports.

SPEAKER

DINO ABLAKOVIC, DIRECTOR - MICROGRID SOLUTIONS, **GE VEROVA**

11:15 - 11:30

KEYNOTE AND AUDIENCE Q&A

HARNESSING JIT SCHEDULING TO ENHANCE PORT PERFORMANCE

In 2024, Awake.AI won the 2024 Moroccan Smart Port Challenge to develop digital solutions for port performance improvement in collaboration with the Moroccan National Ports Agency ANP. The focus of this proof-of-concept development project was to enable the adoption of just-in-time (JIT) scheduling and related performance optimisations in Moroccan ports. To identify where JIT scheduling processes and tools would be most effective, Awake.AI implemented a data analytics procedure to quantify the potential benefits in selected ports.

SPEAKER

KARNO TENOVUO, CEO, AWAKE.AI

11:30 - 12:30

PANEL DISCUSSION AND AUDIENCE Q&A

**BENCHMARKING THE DIGITAL JOURNEY IN PORTS AND TERMINALS:
WHERE IS THE INDUSTRY TODAY?**

A Panel Discussion Featuring Insights from TIC4.0 Members and Industry Leaders, Supported by TIC4.0 and BCG.

SPEAKERS

NORBERT KLETTNER, VICE PRESIDENT, TIC 4.0

DOROTA KORENKIEWICZ, KNOWLEDGE EXPERT, BOSTON CONSULTING GROUP

FRANK KHO, MANAGING DIRECTOR, AAI EUROPE

**JARKKO RUOKOJÄRVI, HEAD OF PRODUCT MANAGEMENT, AUTOMATION - STRATEGIC
MODERNIZATION, APM TERMINALS**

**JP BROEKGAARDEN, OPERATIONS & BUSINESS DEVELOPMENT MANAGER T&L - PORT LOGISTICS,
ICT GROUP**

**JEAN-PIERRE PITERS, HEAD OF DESIGN CENTRE FOR AUTOMATION & DIGITALISATION, HUTCHISON
PORTS**

**WIM D'HAESELEER, GROUP DIRECTOR OF INFORMATION AND OPERATIONAL TECHNOLOGY AND
DIRECTOR OF CYBERSECURITY, TERMINAL INVESTMENT LIMITED**

12:30 - 13:30: LUNCH BREAK AND NETWORKING SPONSORED BY THREE GROUP SOLUTIONS

13:30 - 13:45

KEYNOTE AND AUDIENCE Q&A

TURNING 5G CONNECTIVITY INTO OPERATIONAL VALUE FOR PORTS

SPEAKERS

JOERI TRANCHET, COO, CITYMESH

13:45 - 14:45

PANEL DISCUSSION AND AUDIENCE Q&A

5G PRIVATE NETWORKS: REAL CASES OF UTILISATION

Join the conversation as we present real cases of 5G utilisation in ports and present how the higher bandwidth, lower latency and improved reliability is providing adopters with real efficiency gains.

Bring your questions for the Q&A and learn how a 5G private network implementation transform your operation and provide a solution to real day-to-day problems.

SPEAKERS

UTSEV PANDEY, SEGMENT HEAD - CARRIERS AND PORTS, TATA CONSULTANCY SERVICES

CHIARA SARAGANI, PHD STUDENT - CENIT (CIMNE), PORT OF BARCELONA

THORSTEN LUTZ, SOLUTION ARCHITECT, PANASONIC TOUGHBOOK

EMMANUELLE PIERRARD, PRIVATE WIRELESS ENTERPRISE REGIONAL SALES HEAD, EUROPE WEST, NOKIA

GRAHAM WILDE, HEAD OF 5G BUSINESS DEVELOPMENT, THREE GROUP SOLUTIONS

14:45 - 15:15: NETWORKING BREAK & REFRESHMENTS

15:15 - 15:45

KEYNOTE AND AUDIENCE Q&A

ENABLING PORT DIGITAL ECOSYSTEM TO OPTIMISE VESSEL OPERATIONS WITH AI

Vessel operations can be ensured into a Port Community when the availability of the berth, the anchorage, the fairway, as well as the nautical services to assist the manoeuvre are ensured. Besides that, a smooth coordination between water and landside processes are always important but critical in certain scenarios like the OPE between Algeciras and Tangier where more than 3 million people and around 750 thousand vehicles wait every summer in the Port of Algeciras for crossing the Strait of Gibraltar.

Through this panel, both Port of Algeciras and Nextport share their expertise deploying an AI service which provides on-demand descriptive and prescriptive capabilities to the relevant staff of the Port Authority to improve the decision-making process over this very demanding operational context.

SPEAKERS

JESUS MEDINA BLANCO, CHIEF INFORMATION & INNOVATION OFFICER, ALGECIRAS PORT AUTHORITY

ANGEL MARTINEZ, SENIOR PRODUCT MANAGER, NEXTPORT.AI

15:45 - 16:00

KEYNOTE AND AUDIENCE Q&A

WHY VIDEO GAMES MAKE DIGITAL TWINS BETTER

Arguably the original digital twins were video games! Video games represent 75 years of optimizing user experience and iterating on realistic representations of interactive spaces. The lessons learned from that space and the technologies used there have no equivalent. User interface design, 3D rendering, client server architecture, data sharding, and more all contribute to make Digital Twins more intuitive, more scalable, more secure, and more performant.

Gaming engines are becoming more and more prevalent in many industry segments such as aerospace, supply chain, logistics, with use cases across visualization, simulation and training. And of course, now becoming more and more common in ports.

Additionally real-world representations are easier to process than dashboards. As humans we evolved to process data that looks like the real world. With traditional tools as data increases, cognitive load increases and assessment slows. With video games (and by extension Digital Twins) as data increases, cognitive load decreases and assessment speeds up.

SPEAKER

STARR LONG, EXECUTIVE PRODUCER, THE ACCELERATION AGENCY

16:00 - 17:00

PANEL DISCUSSION AND AUDIENCE Q&A

**INTELLIGENT, TRANSPARENT AND CONNECTED PORT OPERATIONS:
UTILISING DATA, IOT AND DIGITAL TWIN TECHNOLOGY**

Today's ports are complex operations with countless data sources, and the most successful ports demand the ability to take these 1s and 0s turn them into actionable data, allowing them to make intelligent operational decisions. IoT devices and the Digital Twins fuelled by their data are useful for ports looking to maximise operational visibility and improve decision making in the port, saving time, emissions and costs.

In this session, our panellists will present what can be achieved with these technologies, review existing projects and consider if the implementation challenges are worth it for the payoff.

SPEAKERS

NICO DE CAUWER, SECRETARY GENERAL, IPCSA

TERRY BILLS, TRANSPORTATION INDUSTRY DIRECTOR, ESRI

JAMES HOSKEN, CLIENT EXECUTIVE, GISGRO

PAUL GERKEN, IT PROJECT MANAGER, BREMENPORTS GmbH & Co. KG

KAJ DE GROOT, HEAD OF AUTOMATION PROJECTS, PORTWISE

17:00 - 17:05

CLOSING REMARKS

CHAIRMAN CLOSING REMARKS

HANS ROOK, AMBASSADOR, INTERNATIONAL PORT COMMUNITY SYSTEMS ASSOCIATION

KEVIN MARTIN, CEO, ONE DIGITAL NATION

DAY TWO: WEDNESDAY 25TH SEPTEMBER 2024

8:30 – 9:15: REGISTRATION AND MORNING COFFEE

9:15 – 9:30

CHAIRPERSON INTRODUCTION

WELCOME TO DAY TWO AT SDP 2024

HANS ROOK, AMBASSADOR, INTERNATIONAL PORT COMMUNITY SYSTEMS ASSOCIATION
KEVIN MARTIN, CEO, ONE DIGITAL NATION

9:30 – 9:45

KEYNOTE ADDRESS

CORRUPTION-FREE PORTS: HOW ANTI-CORRUPTION INITIATIVES ARE TRANSFORMING PORT OPERATIONS

Ports and terminals play a pivotal role in combating corruption and illicit activities within global supply chains. Corruption is not only illegal, but it also significantly raises trade costs, undermines the efficiency of port operations, and impacts the health and well-being of port workers.

In this session, we discover how the the Maritime Anti-Corruption Network (MACN) collaborates with ports, terminals, and the shipping industry to reduce corruption, lower trade costs, and make port operations more efficient.

Attendees will gain valuable insights into why addressing corruption is critical, explore practical steps ports and terminals can take to eliminate corrupt practices in their operations and supply chains, and be inspired by success stories from MACN's ongoing partnerships with global ports and terminals.

SPEAKERS

MARTIN BENDERSON, CHIEF PARTNERSHIP OFFICER, THE MARITIME ANTI CORRUPTION NETWORK

9:45 – 10:45

PANEL DISCUSSION AND AUDIENCE Q&A

CONNECTING THE DOCKS: THE ROLE OF INDUSTRY 4.0 AND PRIVATE 5G IN SMART PORT EVOLUTION

Dive into the transformative world of Smart Ports 4.0, where cutting-edge Industry 4.0 technologies and private 5G networks revolutionize port operations.

This panel brings together visionary leaders, technology innovators, and port authorities to discuss the current requirements and future potential of integrating advanced connectivity and

automation into ports. Explore how these technologies are driving efficiency, safety, and scalability in the maritime industry.

SPEAKERS

TOM AMERSHEK, ASSOCIATE DIRECTOR, INTERNATIONAL 5G SOLUTIONS ARCHITECTURE, **VERIZON**
KOEN MIOULET, CONSULTANT AND FOUNDER/SECRETARY OF ASSOCIATION, **EUWENA**
JAN EGBERTSEN, INNOVATION MANAGER, **PORT OF AMSTERDAM**

10:45 - 11:30: NETWORKING BREAK & REFRESHMENTS

11:30 - 12:00

KEYNOTE AND AUDIENCE Q&A

WHEN SKY AND SEA SYNC: THE FUTURE OF PORTS WITH DRONES ECOSYSTEM

As ports increasingly rely on service drones to enhance safety, efficiency, and scalability, this keynote will explore the groundbreaking collaboration between Airwayz and the Port of Rotterdam. Eyal Zor and Ori Marom will discuss how drones, integrated through advanced UTM (Unmanned Traffic Management) technology, are transforming port operations, achieving significant milestones, and setting the stage for the future of seamless air and sea coordination.

SPEAKERS

ORI MAROM, PROGRAM MANAGER OF NEW-MOBILITY AT THE INNOVATION DEPARTMENT, **PORT OF ROTTERDAM**
EYAL ZOR, CO-FOUNDER & CEO, **AIRWAYZ**

12:00 - 13:00

PANEL DISCUSSION AND AUDIENCE Q&A

DIGITALISATION STRATEGY AND THE IMPORTANCE OF CREATING A DIGITAL DEVELOPMENT PATH

Developing a long-term plan for continued digitalisation is important, as each port operation is distinct from the next. It will be key for every port to prioritise their implementations and technologies in order of priority and move step-by-step towards a digital port.

Join us for this panel discussion as we discuss how establishing a digital development path will improve the success rate of your digitalisation projects, allow you to benchmark performance and pursue the projects that target your most pressing inefficiencies.

SPEAKERS

MANUEL MARTINEZ DE UBAGO ALVAREZ DE SOTOMAYOR, BUSINESS MANAGER & PRODUCT STRATEGY, **NEXTPORT.AI**
MATTHIAS HINZ, SMART PORT COORDINATOR, **BREMENPORTS GmbH & Co. KG**
JOSÉ ANDRÉS GIMÉNEZ MALDONADO, DIRECTOR OF PORT LOGISTICS, **FUNDACIÓN VALENCIAPORT**
JAN EGBERTSEN, INNOVATION MANAGER, **PORT OF AMSTERDAM**

13:00 - 14:00: LUNCH AND NETWORKING BREAK

14:00 - 14:30 **KEYNOTE AND AUDIENCE Q&A**

SECURE ACCESS MANAGEMENT FOR MARITIME TRANSPORT AND PORTS: SAILING THE SEVEN SEAS FROM PORT TO PORT SECURELY

OT Infrastructure is critical to both shipping and industrial ports where troubleshooting, diagnostics and maintenance is done mostly remotely.

As many cyber threats and physical breaches are a result of unauthorised or poorly managed remote access, access management needs special focus.

Major maritime business concerns include permanent access for engineers to ships systems, hard-to-scale solutions and limited monitoring capabilities.

This is why next generation of Access Management solutions for Maritime transport and ports are needed, applying Just-in-Time (JIT) and Just-enough-access (JEA) instead of always-on connections and ensure auditing and session recording for OT compliance.

Join Massimo Nardone, VP OT Security from SSH Communications Security, presenting the key challenges and areas of focus in Maritime & Ports Cybersecurity and some real-life customer cases to demonstrate how to secure the maritime transport and port businesses.

SPEAKER

MASSIMO NARDONE, VICE PRESIDENT OF OPERATIONAL TECHNOLOGY (OT) SECURITY, **SSH COMMUNICATIONS SECURITY**

14:30 - 15:45 **PANEL DISCUSSION AND AUDIENCE Q&A**

THE INS AND OUTS: PORT CALL OPTIMISATION, TRAFFIC MANAGEMENT AND SUPPLY CHAIN INTEGRATION

Accurately managing, predicting and scheduling the flow of cargo at both ends of the port is essential for reducing congestion, emissions and running an efficient operation, but there is no silver bullet, with numerous strategies and technologies required to streamline the role of ports in the wider supply chain.

This session will consider the numerous factors when coordinating with the wider supply chain, moving cargo smoothly from vessels to trucks and trains.

SPEAKERS

BUGRA BILGINER, MANAGING DIRECTOR, **LONDON PORT & LOGISTICS CONSULTING**

KEVIN KRUIJTHOFF, MANAGING DIRECTOR/ DIRECTOR OF PRODUCT & TECHNOLOGY, **ROUTESCANNER**

DR. JÉRÔME BESANCENOT, HEAD OF DIGITAL TRANSITION, HAROPA PORT
MAXIM NEISER, PROJECT MANAGER, HPC HAMBURG PORT CONSULTING
UMESH KURLEKAR, VP-HEAD OF MARITIME PRACTICE, KALE LOGISTICS

15:45 - 16:00

CLOSING REMARKS

CHAIRMAN CLOSING REMARKS

HANS ROOK, AMBASSADOR, INTERNATIONAL PORT COMMUNITY SYSTEMS ASSOCIATION
KEVIN MARTIN, CEO, ONE DIGITAL NATION