



# New Frontier in Shipping Industry

## Italy-EU Vision

#innovation #technology #digitaltransformation #EU #logistic  
#ecologicaltransition

Genoa-Civitavecchia, April 9th-10th, 2022

📍 MSC Seaside

## Program

**Genoa, April 9<sup>th</sup> 2022**

### Introduction

The role of the Port Authorities pending the great European reform.

During the first quarter of 2022 the European commission will take different decisions that will have an important impact on the port authorities.

PNNR investments should transform docks into zero impact structures.

The Italian system needs to improve the productivity and the efficiency of the Italian ports in connection with the European logistics chain.

10.30 check-in Stazione Marittima on MSC Seaside

Welcome reception

12.30 | **Lunch**

## Plenary Session

14.15 – 14.30 | **Opening Ceremony**

Teresa Bellanova - Vice Minister

Giovanni Toti - President Liguria Region

Marco Bucci – Mayor of Genova

Renata Paola Dameri – University of Genoa, Rector's Delegate for International Cooperation and Smart Cities

Marco Campomenosi – Member of the European Parliament

Luigi Sinapi – Director of the International Hydrographic Organization

## Parallel Session

14.30 – 15.45 | **Round Table 1**

**Shipping 4.0: CyberSecurity, sustainability and 5G**

### Goals:

The digitization process in the maritime sector (as in all other sectors) is ongoing and represents one of the most critical evolutions to date. Two crucial elements of this evolution are digital infrastructure and security. On the infrastructure side, 5G is a key element in the digital evolution as 5G means full-field and high-performance telecommunications and an environment for distributed and edge computing that turns technology into a formidable enabler. The digital pervasiveness undoubtedly makes the topic of cyber security central and pervasive itself. The protection of ICT in this "new" scenario also becomes the protection of physical and infrastructural assets, including 5G. Discussing these issues by focusing on the maritime environment is the objective of this table.

**Chair: Raffaele Bolla** – University of Genoa

### Speakers:

- **Paola Girdinio** - Start 4.0
- **Federica Montaresi** - Eastern Ligurian Sea Port Authority
- **Alessandro Armando** - ITASEC
- **Giuseppe Sini** - Head of International Business Unit, Retelit

- **Antonio Sfameli** - Ericsson
- **Davide Maresca** - Managing Partner, Maresca & Partners Studio Legale
- **Andrea Laganà** - Senior Project Manager, Telecom Italia, gruppo Tim

## 14.30 – 15.45 | **Round Table 2**

### Shipping 4.0: Port-hinterland connectivity, logistic integration

#### Goals:

The panel aims to brainstorm on possible solutions and methods to improve port-hinterland connectivity and streamline the flows of goods from ports to their catchment areas and vice versa, also with the goal of reducing negative externalities, such as environmental pollution and congestion. In this perspective, the role of railway transport, dry ports and freight villages, and tools such as Truck Appointment Systems, Fast Corridors or Corridor Management Platforms will be analyzed.

#### Chair: **Claudia Caballini – Politecnico of Turin**

#### Speakers:

- **Claudia Caballini**, Assistant Professor at Politecnico of Turin, *Strengthening port-hinterland connectivity: open issues and possible solutions.*
- **Stefano Cangelosi**, Business Process Manager at PSA Genoa Pra' container terminal, *Automation and truck management systems at PSA Genova Pra container terminal'.*
- **Guido Porta**, CEO at I.LOG Iniziative Logistiche, *Sustainable land connections and increasing quantities of cargo from ports: the role of railway transport.*
- **Luca Abatello**, CEO at Circle Group, *The role of ICT technologies in streamlining the flows of goods and in fostering connections between stakeholders.*
- **Massimo Arnese**, CEO at Crosstec (CIM Novara freight village), *Dry ports and freight villages as a tool to decongest port areas and reduce logistics activities costs.*
- **IKEA**, *“The first Italian Fast Corridor: benefits obtained and issues to be faced”*
- **Paolo Pessina**, President at Assagenti, *How maritime agent associations can foster port-hinterland connectivity. practices from Northern Europe.*

- **Mauro Pessano**
- **Alessandro Panaro**, Head of Maritime & Energy Dept.- SRM
- **Hercules Haralambides**, Dalian Maritime University (China) and Sorbonne University, Editor in chief of Maritime Economics and Logistics
- **Lamia Kerdjoudj Belkaid**, Secretary General, FEPORT

### 15.45 – 17.00 | **Round Table 3 - Shipping 4.0: Industry 4.0 technologies at the service of shipping industry decarbonization**

#### **Goals:**

The roadmap toward decarbonization is of course paved by the selection of the proper alternative fuels coupled with the suitable energy conversion systems. However Industry 4.0 technologies can play a significant role in effectively supporting this necessary evolution, thanks to different action threads such as: implementing the shipping companies policies for ship energy efficiency, permitting the operability of the innovative and complex technology implied by alternative fuels, tackling with the unexpected safety issues that might arise due to such advanced and unprecedented solutions. The goal of the panel is to discuss, eliciting point of strength and critical issues, how Industry 4.0 technologies can be one of the enabling instruments to reach the final target i.e the shipping decarbonization.

**Chair: Paola Gualeni - University of Genoa**

#### **Speakers:**

- **Andrea Cogliolo**, Marine Excellence Centres Senior Director, Rina Services S.p.A
- **Emanuele Gesù**, SNAM
- **Franco Porcellacchia** Ecospray Technologies S.r.l
- **Michele Francioni**, Senior Vice President presso MSC Cruises
- **Federico Silvestro**, Naval, electrical, electronic and telecommunications engineering Professor, University of Genoa
- **Vincenzo Galati**, Director Performance Engineering presso Carnival

Corporation \*

- **Ing. Alessandro Boveri**, Research and consultant Engineer - System Engineering and Reserach B.U., CETENA S.p.A

## 15.45 –17.00 | **Round Table 4 Shipping 4.0: Energy transition policies: The ports' viewpoint**

### Goals:

Energy transition requires ports operating on two different sides: on the one hand, the need to reduce the environmental impact of port operations, and on the other, the need to foster conditions for a lower impact of sea transport by ensuring cold ironing facilities as well as facilitating the adoption new fuels for vessels.

**Chair:** Prof. Claudio Ferrari, University of Genoa

### Speakers:

- **Hercules Haralambides**, Dalian Maritime University (China) and Sorbonne University, Editor in chief of Maritime Economics and Logistics
- **Patrick Verhoeven**, Managing Director-Policy and Strategy, International Association Ports and Harbours (IAPH)\*
- **Hanna van Kraaij**, Port of Antwerp \*
- **Alessandro Panaro**, Head of Maritime & Energy Dept.- SRM
- **Davide Maresca** - Managing Partner, Maresca & Partners Studio Legale

## 17.00 – 18.30 | **Round Table 5 Shipping 4.0: The impact of technology on outlook and organization of work in ports: current status and future challenges.**

### Goals:

The process of automation and digitalisation in ports and logistics is changing the organisational aspects of work, not only making many tasks obsolete, but also making it necessary to convert some current skills and create new ones.

The change in the technological paradigm, which has been talked about for some time now, has already become a reality in some port contexts in northern Europe and the Euro-Mediterranean area, and requires a reflection on how to pilot and manage the on-going technological innovation procedures in order to protect

workers, generate efficiency in processes and create new professional opportunities. Innovation, training, organization of the work and social welfare are the key words of a process that aims to facilitate processes of economic competitiveness of ports and social cohesion of territories.

**Chair: Massimo Clemente - CNR**

**Speakers:**

- **Barbara Bonciani** Council for the port, city-port integration Municipality of Livorno
- **Mario Sommariva** President Adsp Mar Ligure Orientale
- **Mario Conforti**, Feport
- **Berardina Tommasi**, European Transport worker Federation
- **Paolo Dario**, former Vice-Rector for Third Mission at Scuola Superiore Sant'Anna in Pisa, Research Associate CNR-IRISS
- **Umberto Masucci**, President of The International Propeller Clubs, Propeller Port of Naples

20.00 | **Networking Dinner**

**Civitavecchia, April 10th 2022**

**Parallel Session**

9.00 – 10.15 | **Round Table 6 - Shipping 4.0: The New Port Governance**

**Goals:**

The panel aims to evaluate new trends in the governance of the Port in line with our most important European Competitors.

**Chair: Andrea Lamattina – Belex**

**Speakers:**

- Private Port UK
- Luka Koper - public port
- Dubai Port Authority port of Barberia

- Assoport

## 9.00 – 10.15 | **Round Table 7 - Shipping 4.0: Standardization in Logistic Chain**

### Goals:

The panel aim is: - to brainstorm on the reasons “why we must develop and deploy a **common base language** so to develop the full potential of the 4<sup>th</sup> Industrial Revolution technologies and to achieve the **Sustainable Development Goals**” also in within the Logistic and Supply Chains.

**Chair: Stefano Negrini -ReLOG3P**

### Speakers:

- **Sjoerd de Jager** (Co-Founder & Managing Director, PortXchange ([PortXchange - Digital Collaboration Platform For Maritime Logistics Chain \(port-xchange.com\)](http://PortXchange - Digital Collaboration Platform For Maritime Logistics Chain (port-xchange.com))))
- **Oscar Pernia** (Founder & Technical Lead, NextPort)
- **Frank Kho** (CEO) and **Mr. Boris Wenzel** (President) (TIC4.0, [TIC 4.0 – Terminal Industry Committee](http://TIC 4.0 – Terminal Industry Committee))

## 10.15 – 11.30 | **Round Table 8: Shipping 4.0: Strategic Engineering Today for Future Challenges of Ports & Shipping**

### Goals:

The session addresses the Future Challenges for Port and Shipping that requires to develop a Strategic View since today to be ready to face them in next years. The aspect addressed include the proper estimation of Polar Routes impact on Mediterranean, European and Asiatic Scenarios, Resilience in Shipping & Ports as well as impact of Breakthrough Technological Changes Strategic Engineering is proposed as corner stone to support decisions, by properly quantifying risks and opportunities and to create dynamic plans able to adapt to future evolution of the scenario considering their VUCA (Volatility, Uncertainty, Complexity & Ambiguity) natural as well as the inertia of infrastructures, companies and markets.

**Chair: Prof. Agostino G. Bruzzone, STRATEGOS Chair, Genoa University**

### Speakers:

- **Prof. Roberto Dillon**, Head of School of Science and Technology at James Cook University Singapore

- **Prof. Jean-Guy Fontaine**, Scientific Strategy Advisor at KIP Keqiao, China
- **Capt. Lionel Mosnier**, Commandant du Port de Toulon-La Seyne-Brégaillon,
- **Dott. Paolo Scotto di Castelbianco**, Strategic Advisor of European House Ambrosetti
- **Prof. Miguel Mújica Mota**, Chair of Dutch Benelux Simulation Society, Amsterdam University of Applied Sciences
- **Prof. Flavio Tonelli**, UNIGE Reference for the National Technological Cluster on Smart Factory & Industry 4.0. Genoa University, Italy
- **Cap. Stefano Negrini**, ReLog3P Principal, Italy
- **Cap. Francesco Parodi**, Health Safety Security Environment Manager, PSA Genova Pra,
- **Prof. Yuri Merkurjev**, McLeod Institute of Simulation Science Chair, Riga, Latvia
- **Prof. Youssef Benadada**, Chief of Recherche Opérationnelle et Logistique (ROL), ENSIAS, Rabat, Maroc
- **Prof. Akram Soliman**, MARLOG Chairman Arab Academy for Science and Technology and Maritime Transport, Alexandria, Egypt
- **Dr. Giovanni Caprino**, Director DLTM
- **RADM Massimiliano Nannini**, Director of the Istituto Idrografico della Marina Militare
- **Prof. Anna Franca Sciomachen**, Chair of Strategic Engineering International PhD Program,
- **Ing. Georgia Cesarone**, Responsible of Training Division at START 4.0
- **Gianfranco Fancello**, Professore associato di Ingegneria civile ed architettura, UniCa

## Strategic Engineering & Polar Routes Pitch

Strategic Engineering & Polar Routes PitchIt is presented the Competition among Projects of University Students to analyze the future impact of Polar Route on Shipping. The International Panel will evaluate the Student Projects and a Pitch of their Data Analytics, Models, Simulation and Solution in order to select the winner, STRATEGOS at Genoa as well as JCU in Singapore will participate as well as other



Universities. Each Student Team will provide a short presentation addressing the following crucial 5W questions:

Who will benefit and who will suffer from the new Routes and how much over timeline?

What could be done to mitigate this factor for Mediterranean and Malacca Strait Ports and Terminals and what it will be required to use the new routes?

When Polar Routes will turn sustainable, how much in the year they could be operational and how fast the change is expected to happen?

Where there will be opportunities to sustain the change on North and where there are alternative in South?

Why the Polar Routes could still have criticalities and what competitive advantages to emphasis in Mediterranean and South Far East Ports Best Projects will be awarded

\* to be confirmed

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