



# New Frontier in Shipping Industry

## Italy-EU Vision

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

Genoa-Civitavecchia, April 8<sup>th</sup>-9<sup>th</sup>-10<sup>th</sup>, 2022

📍 Genoa Blue District and MSC Seaside

## Program

### Genoa, April 8<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.

### 9.00 check-in Genova Blue District

#### Plenary Session

## 9.15 – 9.45 | **Opening Ceremony**

- **Teresa Bellanova** - Vice Minister for Infrastructure and Sustainable Mobility
- **Marco Bucci** – Mayor of Genoa
- **Andrea Benveduti**, Councillor for Economic Development, Liguria Region
- **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
- **Sergio Liardo** - Genoa Harbour Master
- **Luca Becce** – President of Assiterminal

## 9.45 - 11.30 | **Round Table 1**

### 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 La Mattina** – BonelliErede / Università degli Studi di Napoli Federico II

#### **Speakers:**

- **Maurizio Maresca** - Professor of International Law - Università degli Studi di Udine
- **Jacopo Riccardi** - Head of the Logistics and Port System Development Sector of Regione Liguria
- Assoportì \*
- **Paolo E. Signorini**, Chairman- Western Ligurian Sea Port System Authority

- Port of UK \*
- Port of Hamburg \*
- Port of Piraeus \*
- **Stefano Messina**, Chairman- Assarmatori
- **Luca Sisto**, General Officer- Confitarma
- **Davide Maresca** - Managing Partner, Maresca & Partners Studio Legale
- **Beppe Costa** – Assiterminal and Chairman Terminal Operator Confindustria  
Genova

## 11.30 – 13.00 | **Round Table 2**

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** - Director of the Research Institute on Innovation and Development Services, CNR

## Speakers:

- **Barbara Bonciani** - Council for the port, city-port integration, Municipality of Livorno
- **Mario Sommariva** - President Adsp Mar Ligure Orientale
- **Marco Conforti** - Board member, Feport
- **Berardina Tommasi** - ETF – European Transport Workers' 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
- **Claudio Ferrari** - Professor at University of Genova

13.00 - 14.30 | **Lunch**

14.30–15.45 | **Round Table 3**

## 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: Agostino G. Bruzzone** - STRATEGOS Chair, Genoa University

**Speakers:**

- **Roberto Dillon** - Head of School of Science and Technology at James Cook University Singapore
- **Jean-Guy Fontaine** - Scientific Strategy Advisor at KIP Keqiao, China
- **Lionel Mosnier** - Commander of the port of Toulon-La Seyne-Brégaillon,
- **Paolo Scotto di Castelbianco** - Strategic Advisor of European House Ambrosetti
- **Miguel Mújica Mota** - Chair of Dutch Benelux Simulation Society, Amsterdam University of Applied Sciences
- **Flavio Tonelli** - Reference for the National Technological Cluster on Smart Factory & Industry 4.0. Genoa University, Italy
- **Stefano Negrini** - Principal, ReLog3P
- **Yuri Merkurjev** - McLeod Institute of Simulation Science Chair, Riga, Latvia
- **Youssef Benadada** - Chief of Recherche Opérationnelle et Logistique (ROL), ENSIAS, Rabat, Maroc
- **Akram Soliman** - MARLOG Chairman Arab Academy for Science and Technology and Maritime Transport, Alexandria, Egypt
- **Giovanni Caprino** - Director DLTM
- **Massimiliano Nannini** - Director of the Hydrographic Institute of the Navy
- **Anna Franca Sciomachen** - Chair of Strategic Engineering International PhD Program,
- **Gianfranco Fancello** - Associate Professor of Civil Engineering and Architecture, UniCa

15.45 - 17.00 | **Round Table 4**

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** – Associate Professor, University of Genoa

**Speakers:**

- **Andrea Cogliolo** - Marine Excellence Centres Senior Director, Rina Services S.p.A
- **Emanuele Gesù** - Head Small Scale LNG SNAM
- **Franco Porcellacchia** - CEO of Ecospray Technologies S.r.l.
- **Michele Francioni** - Senior Vice President at MSC Cruises
- **Federico Silvestro** - Naval, electrical, electronic and telecommunications engineering Professor, University of Genoa
- **Vincenzo Galati** - Director Performance Engineering at Carnival Corporation
- **Alessandro Boveri** - Research and consultant Engineer, System Engineering and Reserach B.U., CETENA S.p.A
- **Dario Soria** - Manager, Assocostieri
- **Gian Carlo Poddighe** – Vice-president of CesMAR

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

10.30 check-in Stazione Marittima on MSC Seaside

Welcome reception

## 11.30 – 12.45 | **Round Table 5**

### 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** - Founder & Principal, ReLOG3P

#### **Speakers:**

- **Sjoerd de Jager** - Co-Founder & Managing Director, PortXchange (PortXchange - Digital Collaboration Platform For Maritime Logistics Chain (port-xchange.com) *(Hidden potential of data standardization)*)
- **Oscar Pernia** - Founder & Technical Lead, NextPort
- **Airam Rodriguez** and **Nayra Martin** - Hiades/Amura
- **Frank Kho** (CEO) and **Boris Wenzel** - President, TIC4.0, (TIC 4.0 – Terminal Industry Committee) *(After 25 years only 3-4% of the terminals are (semi-) automated. Why and how will the terminal industry be able to embrace the 4<sup>th</sup> Industrial Revolution technologies.)*

## 12.45 | **Lunch**

## 13.45– 15.00 | **Round Table 6**

### 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** – Professor, University of Genova

## Speakers:

- **Paola Girdinio** - President of the Competence Center for security and optimization of strategic digital infrastructures, Start 4.0
- **Federica Montaresi** - Eastern Ligurian Sea Port Authority
- **Alessandro Armando** - Professor in Computer Security, University of Genova
- **Giuseppe Sini** - Head of International Business Unit, Retelit
- **Antonio Sfameli** - Director Government & Industry Relations South East Europe, Ericsson
- **Davide Maresca** - Managing Partner, Maresca & Partners Studio Legale
- **Andrea Laganà** - Senior Project Manager, Telecom Italia, gruppo Tim
- **Andrea Iacopini** - Cyber Security Director, RINA
- **Andrea Risso** – Cambiaso Risso Group

15.00 – 16.15 | **Round Table 7**

**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** – Assistant Professor at 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'*)
- **Luca Abatello** - CEO at Circle Group, (*The role of ICT technologies in streamlining the flows of goods and in fostering connections between stakeholders.*)
- **Davide Battaglia** - Customs Process Manager, Nord Ovest S.p.A
- **Paolo Pessina** - President at Assagenti, (*How maritime agent associations can foster port-hinterland connectivity. practices from Northern Europe.*)
- **Lamia Kerdjoudj Belkaid** - Secretary General, FEPORT (*Port-hinterland connectivity, logistic integration*)
- **Alessandro Panaro** - Head of Maritime & Energy Dept., SRM

20.00 | **Networking Dinner**

**Civitavecchia, April 10th 2022**

## 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 East Ports Best Projects will be awarded

\* to be confirmed

Visit our web site: <https://shipping-40.sharevent.it/>