

STRATEGOS Webinar / Workshop

New Polar Routes & Strategic Engineering

0900-1200, GMT+1, January 20, 2022, Blended Event, Live @ Salone Piano Nobile, Villa Camiaso via Montallegro 1, 16145 Genova, Italy & Virtual @ STRATEGOS Webinars on MS Yteam (Click Here)

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The New Polar Routes are a possible alternative for World Logistics due to Climate Change therefore to evaluate the real feasibility, costs, benefits as well as impact on the World evolution it is required **Strategic Engineering** to combine multiple elements and facts.

Workshop Description:

Sailing North of Eurasian Continent, it is a possibility that could drastically change World Logistics for instance shortening drastically the East-to-West Routes and could have similar impact to be able for ships to navigate over North America. In reality The **New Polar Routes (NPR)** represent a context heavily affected by **VUCA (Volatility, Uncertainty, Complexity, Ambiguity)** with several Uncontrolled Phenomena. All the elements should be evaluated quantitatively by using **Data Analytics, Artificial Intelligence, Modeling & Simulation** in closed loop with Data & Experts. Multiple Models should be developed to address questions such **When, Where** and **How Long**, over the year, it will be possible to use **NPR, What** will be Times, Costs to sail there, **How** strong will be impact of Ice and Storms on these Routes and related delays, maintenance impacts, **What** kinds of Ship and Engineering Solutions will take to do it. In addition, **Strategic Models** should be developed to consider Economic Changes, Political Implications of **NPR** as well as potential reactions and evolution on South Side and Area within traditional Routes.

Obviously, Mediterranean Ports, Strait of Malacca Harbors, Suez Channel could be hardly affected as well as Ship Owners: they should evaluate new **Strategies** as well to take decision to be ready. In similar way, even Nations, Shipping, International Organizations, Navies should be aware of implications respect alternative timelines as well as possible actions in terms of Research & Development, Ship Building Redesign, Diplomacy and International Law, Investments in Infrastructures, Defence Capabilities to protect traffic. In addition, it will be necessary to act in order to adapt and compensate Ports and Shipping Activities on South Areaa by rethinking business opportunities. So **Strategic Engineering** represents the proper approach to study this problem and to interact with **Decision Makers**. This Workshop allows to address these questions with **Istituto Idrografico** of Italian Navy, a leading Research Center with very long tradition and very active initiatives on Polar Areas as well as **Genoa University**, leader in **Strategic Engineering**. The Workshop is organized as an interaction with Live Demonstration among Experts and young **STRATEGOS** Engineers to evaluate Risk & Opportunities by innovative Complex Models and new Simulations to provide an understanding on these issues. This Workshop will have a follow up to focus in **Strategic View & Models**

Joint Cooperation



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