



International Panel in Evento Combinato Live e Virtuale

Business Renaissance by Strategic Engineering @ Cities living by the Sea

1100-1230 GMT+1, February 12th, Blended Event @ Shipping 4.0
Piano 4 piano, Sala Cuspide B, Magazzini dell'Abbondanza, Via del Molo 65, Porto Antico, Genova, Italy
Simulation Team, Genoa University, J.Cook University Singapore & Shipping 4.0
A.G.Bruzzone, STRATEGOS Genoa, R.Dillon, JCU Singapore

Il concetto di *Smart City* sta evolvendo, così come il Mondo stesso, quindi richiede nuove Strategie, infatti è evidente che sia lo Shipping che i Porti devono essere pronti a rinnovarsi e adottare l'**Ingegneria Strategica** per un vero *Rinascimento Aziendale*

STRATEGOS dell'Università di Genova & il Singapore Campus della James Cook University insieme a Shipping 4.0

invitano a partecipare a questa Tavola Rotonda per discutere sul Futuro delle Città di Mare alla luce dell'**Ingegneria Strategica**, delle **Enabling Technologies**, dei nuovi **Business Models** e dei **Big Data**. L'Obiettivo è identificare come far fiorire una **Business Renaissance** dopo l'attuale crisi. Questa **Riunione** mette a Sistema **Istituzioni & Aziende** coinvolte in **Shipping 4.0** a fianco di giovani **Ingegneri Strategici** per discutere sui reali **Interessi, Aspettative & Idea** relative ad **Applicazioni & Aspetti** capaci di supportare l'evoluzione dello **Shipping**, dei **Porti** e delle **Città di Mare**, come **Genova & Singapore**. Il Focus è su **Soluzioni Reali & Efficaci** per le nostre **Città**, ponendo attenzione ad aspetti come **Innovazione, Competitività, Sostenibilità, Robustezza, Resilienza e Qualità della Vita**



Joint Cooperation



Same Day, 1230-1300 GMT+1, **STRATEGOS** Student Pitch Awarding Ceremony

URL: www.simulationteam.com/strategos/challenges/jan2021
Email: agostino@itim.unige.it, roberto.dillon@jcu.edu.au



Genuense Athenaeum





International Panel Blended Event

Business Renaissance by Strategic Engineering @ Cities living by the Sea

1100-1230 GMT+1, February 12th, Blended Event @ Shipping 4.0
Piano 4 piano, Sala Cuspide B, Magazzini dell'Abbondanza, Via del Molo 65, Porto Antico, Genova, Italy
Simulation Team, Genoa University, J.Cook University Singapore & Shipping 4.0
A.G.Bruzzone, STRATEGOS Genoa, R.Dillon, JCU Singapore

The *Smart City* concept is evolving as well as the World and requires new Strategies, while it is evident that Shipping & Ports should be ready to renew themselves and to adopt *Strategic Engineering* for a real Business Renaissance

STRATEGOS at **Genoa University & Singapore Campus** of **James Cook University** with **Shipping 4.0** invites you to

Participate into this Round Table Blended Event as to discuss on

on the *Future of Cities living by the Sea* based on *Strategic Engineering, Enabling Technologies, new Business Models* and *Big Data*. The Goal is to identify how to flourish a **Business Renaissance** after the current crisis. This **Meeting** brings together **Institutions & Companies** of **Shipping 4.0** as well as young *Strategic Engineers* to discuss on real *Expectations, Interests & Ideas* about **Applications & Aspects** to support evolution of *Shipping, Ports* and *Cities by the Sea*, such as **Genoa & Singapore**. The Focus is on *Real & Effective Solutions* for our **Towns**, emphasizing crucial aspects such as *Innovation, Competitiveness, Sustainability, Reliability, Robustness, Resilience* and last, but not least, the *Quality of Life of People*



Same Day, 1230-1300 GMT+1, **STRATEGOS** Student Pitch Awarding Ceremony

URL: www.simulationteam.com/strategos/challenges/jan2021
Email: agostino@itim.unige.it, roberto.dillon@jcu.edu.au



Genuense Athenaeum





International Panel in Evento Combinato Live e Virtuale

Business Renaissance by Strategic Engineering @ Cities living by the Sea

1100-1230 GMT+1, February 12th, Blended Event @ Shipping 4.0 (tentative link here)
Simulation Team, Genoa University, J.Cook University Singapore & Shipping 4.0

Obiettivo

Il concetto di *Smart City* sta evolvendo, così come il Mondo stesso, quindi richiede nuove Strategie, infatti è evidente che sia lo Shipping che i Porti devono essere pronti a rinnovarsi e adottare l'**Ingegneria Strategica** per un vero *Rinascimento Aziendale*; infatti questa nuova Disciplina combina AI, Modeling & Simulation, Data Analytics in closed loop con la realtà a supporto dei Decisori Strategici per comprendere meglio gli eventi avvenuti, la situazione attuale e le conseguenze delle decisioni critiche per avere successo a fronte di rischi e opportunità



Joint Cooperation

STRATEGOS all'Università di Genova & il Singapore Campus della James Cook University insieme a **Shipping 4.0** invitano a partecipare a questa Tavola Rotonda per discutere sul **Futuro delle Città di Mare** alla luce dell'**Ingegneria Strategica**, delle **Enabling Technologies**, dei **nuovi Business Models** e dei **Big Data**. L'Obiettivo è identificare come far fiorire una **Business Renaissance** dopo l'attuale crisi. Questa **Riunione** mette a Sistema **Istituzioni & Aziende** coinvolte in **Shipping 4.0** a fianco di giovani **Ingegneri Strategici** per discutere sui reali **Interessi, Aspettative & Idea relative ad Applicazioni & Aspetti** capaci di supportare l'evoluzione dello **Shipping**, dei **Porti** e delle **Città di Mare**, come **Genova & Singapore**. Il Focus è su **Soluzioni Reali & Efficaci per le nostre Città**, ponendo attenzione ad aspetti come **Innovazione, Competitività, Sostenibilità, Robustezza, Resilienza e Qualità della Vita**

Chairs: Prof.A.G.Bruzzone, STRATEGOS Genoa & Prof. R.Dillon, JCU Singapore

Partecipanti

- Dr. Giovanni Caprino, DLTM Director, Italy*
- Ing. Francesco Faccio, Idexe Consulting Partner, Italy*
- Prof. Jean-Guy Fontaine, JGF Senior Partner, France*
- Ing. Giulio di Gennaro, Technical Director Corepower, UK*
- Dott. Stefano Negrini, Technical Director, Terminal Bettolo*

- Ing. Georgia Cesarone, Education Director at Start 4.0, Italy*
- Ing. Stefano Fasoli, Info Logistics, Cetena, Italy*
- Prof. Laura Gaggero Research Pro-Rector Unige, Italy*
- Prof. Rocco Giordano, Direttore Sistemi di Logistica*
- Ing. Domenico Rocco, Sales Manager Fincantieri Group*



AI Artificial Intelligence IA Intelligent Agents M&S Modeling & Simulation

URL: www.simulationteam.com/strategos/challenges/jan2021
Email: agostino@itim.unige.it, roberto.dillon@jcu.edu.au



Genuense Athenaeum



Est. 1471 AD





Shipping 4.0: International Panel Blended Event

Business Renaissance by Strategic Engineering @ Cities living by the Sea

1100-1230 GMT+1, February 12th, Blended Event @ Shipping 4.0 (tentative link here)
Simulation Team, Genoa University, J.Cook University Singapore & Shipping 4.0

Objectives

The *Smart City concept* is evolving as well as the World and requires new Strategies, while it is evident that Shipping & Ports should be ready to renew themselves and to adopt **Strategic Engineering** for a real Business Renaissance; this new Discipline combines AI, IA, Modeling & Simulation, Data Analytics in closed loop with Reality to support Strategic Decision Makers to better understand the past events, current situation & consequences of their major decisions to succeed while facing risks and getting opportunities



Joint Cooperation

STRATEGOS at Genoa University & Singapore Campus of JCU with Shipping 4.0 invites you to Participate to this Round Table to discuss on the Future of Cities living by the Sea based on **Strategic Engineering, Enabling Technologies, new Business Models** and **real Data**. The Goal is to identify how to flourish a **Business Renaissance** after the current crisis by bringing together **Institutions & Companies** as well as **Strategic Engineers** to discuss on real **Expectations, Interests & Ideas** about **Applications & Aspects** to support evolution of **Shipping, Ports** and **Cities by the Sea**, such as **Genoa & Singapore**. The focus is on **Real & Effective Strategies** for our **Towns**, emphasizing crucial aspects such as **Innovation, Competitiveness, Sustainability, Robustness, Resilience** and last, but not least, **Quality of Life** of **People**

Chairs: Prof.A.G.Bruzzone, STRATEGOS Genoa & Prof. R.Dillon, JCU Singapore

Participants

- Dr. Giovanni Caprino, DLTM Director, Italy
- Dr. Francesco Faccio, Idexe Consulting Partner, Italy
- Prof. Jean-Guy Fontaine, JGF Senior Partner, France
- Dr. Giulio di Gennaro, Technical Director Corepower, UK
- Dr. Stefano Negrini, Technical Director, Terminal Bettolo

- Dr. Georgia Cesarone, Education Director at Start 4.0, Italy
- Dr. Stefano Fasoli, Info Logistics, Cetena, Italy
- Prof. Laura Gaggero Research Pro-Rector Unige, Italy
- Prof. Rocco Giordano, Direttore Sistemi di Logistica
- Dr. Domenico Rocco, Sales Manager Fincantieri Group



AI Artificial Intelligence IA Intelligent Agents M&S Modeling & Simulation



URL: www.simulationteam.com/strategos/challenges/jan2021
Email: agostino@itim.unige.it, roberto.dillon@jcu.edu.au



Genuense Athenaeum



Est. 1471 AD



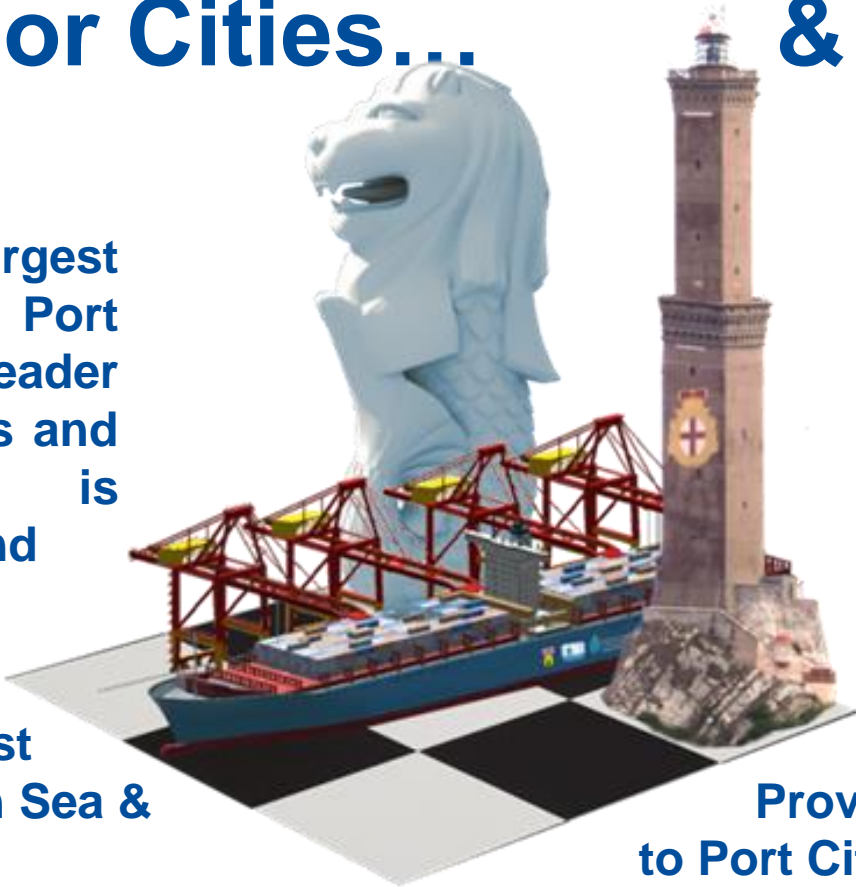
Shipping 4.0: International Panel



Singapore & Genoa are two major Cities... & Ports

Singapore is one of Largest Transshipment Port Worldwide and one Leader in terms of Operations and Technologies, but is located in a small Island

Genoa is one of Largest Ports in Mediterranean Sea & a Gate to Europe



www.itim.unige.it/strategos



www.jcu.edu.au

The Shipping is Providing new Challenges to Port Cities to be Competitive and Successful in a wide World



URL: www.simulationteam.com/strategos/challenges/jan2021
Email: agostino@itim.unige.it, roberto.dillon@jcu.edu.au





Shipping 4.0: International Panel



Business Renaissance requires Art, Excellence, Money & New Views

Just to compare with old Ages, to evolve in a Business Renaissance it is necessary to have Money and Ideas as well as to develop Excellence and New Views



In Logistics, Steam Ships & Trains date back to over 200 years ago, while Containers have already ³/₄ of a Century

Current Crisis requires to Rethink and Re-Engineer Processes and Business based on Enabling Technologies



URL: www.simulationteam.com/strategos/challenges/jan2021
Email: agostino@itim.unige.it, roberto.dillon@jcu.edu.au





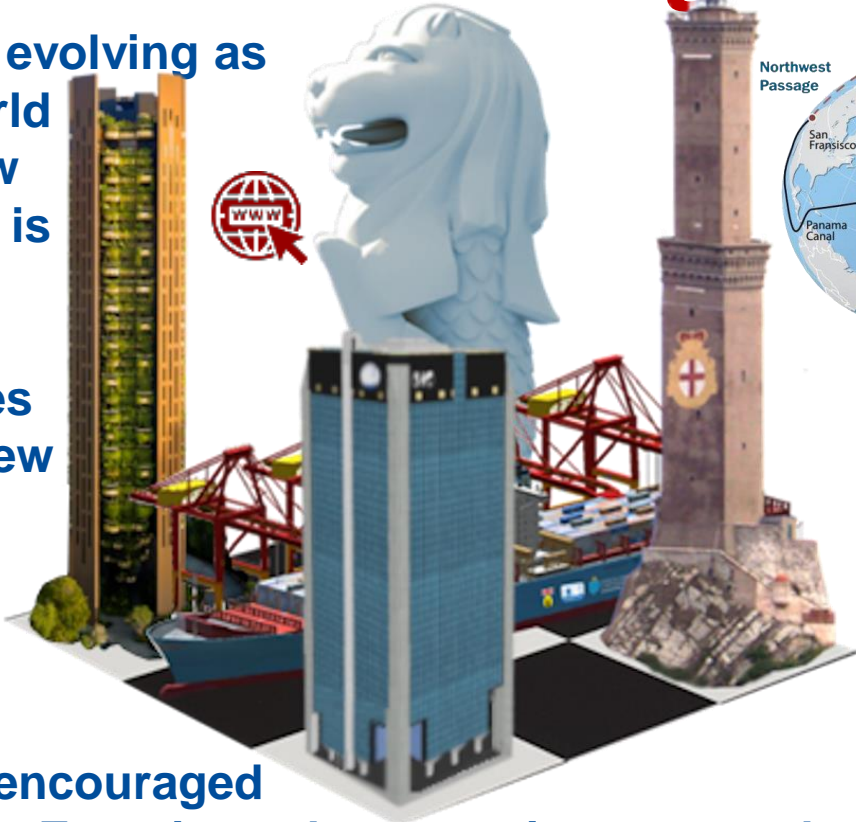
Shipping 4.0: International Panel



Business Renaissance @Cities by the Sea & Strategic Engineering

Smart City is evolving as well as the World & it requires new Strategies: there is a Student Pitch to look at Strategies for the Coastal Cities off the Future, on new Ideas & impact Presentations on Original Solutions by Data & Models

Student Teams are encouraged to participate to this Experience by preparing proposals Dealing with critical emerging issues





Shipping 4.0: International Panel



A.G. Bruzzone STRATEGOS Council Chair President Simulation Team



Simulation Team... & Genoa University

Genoa is very active in developing M&S, as well as AI Solutions

In Genoa we have several active Entities in terms of Academia, Enterprises, etc.



DIME Università di Genova



Liophant Simulation



Genoa M&SNet



Genoa activated STRATEGOS Initiative as one of first world MSc in Strategic Engineering



JAMES COOK UNIVERSITY SINGAPORE

MITIM Simulation Team Genoa Center McLeod Institute of Technology & Interoperable Modeling Simulation Genoa

URL: www.simulationteam.com/strategos/challenges/jan2021 Email: agostino@itim.unige.it, roberto.dillon@jcu.edu.au



Genuense Athenaeum





Shipping 4.0: International Panel



STRATEGOS



Strategic Engineering allows to combine many different sources of data and to clean, elaborate and fuse them together using AI and Data Analytics to extract information

This allow to know what happen in the past and what is happening now to get a good picture of the present and to understand it better by our up-to-date

The Models are used to simulate the situation and the impact of our decisions, but also to consider all possible alternatives in terms of situation changes and other players moves.

So the Decisions are made with benefits of Results of Simulation & Smart Systems & AI

Real impacts of our actions on field refine dynamically refine our models by Machine Learning



Models & AI



URL: www.simulationteam.com/strategos/challenges/jan2021
Email: agostino@itim.unige.it, roberto.dillon@jcu.edu.au





Shipping 4.0: International Panel



The Strategos...



ἡ Στρατηγία κάλλιστα προμηθεΐται τά τε ἄλλα καὶ περὶ τὸ μέλλον ἔσεσθαι, οὐδὲ τῇ μαντικῇ οἶεται δεῖν ὑπηρετεῖν ἀλλὰ ἄρχειν, ὡς εἰδυῖα κάλλιον τὰ περὶ τὸν πόλεμον καὶ γιγνόμενα καὶ γενησόμενα

Socrates in Laches, 198 E, 423 B.C.

...owns the Art to Know better what is Happening or is Likely to Happen



URL: www.simulationteam.com/strategos/challenges/jan2021
Email: agostino@itim.unige.it, roberto.dillon@jcu.edu.au





Shipping 4.0: International Panel



The Strategos...



Lê o conscidera e mirë comme di senplici strumenti pe focalizâ a seu energia, cöse che peuan ese cangiaë quande cangian e prioritæ: de neuve peuan azonzise e de atre peuan ese eliminæ

Christopher Columbus, Memorial, 1501 A.D.



...looks at goals as to simply tools to focus positively the energy, these can be changed as his priorities change, new one added & others dropped



URL: www.simulationteam.com/strategos/challenges/jan2021
Email: agostino@itim.unige.it, roberto.dillon@jcu.edu.au



Genuense Athenaeum



Est. 1471 AD

Shipping 4.0: International Panel

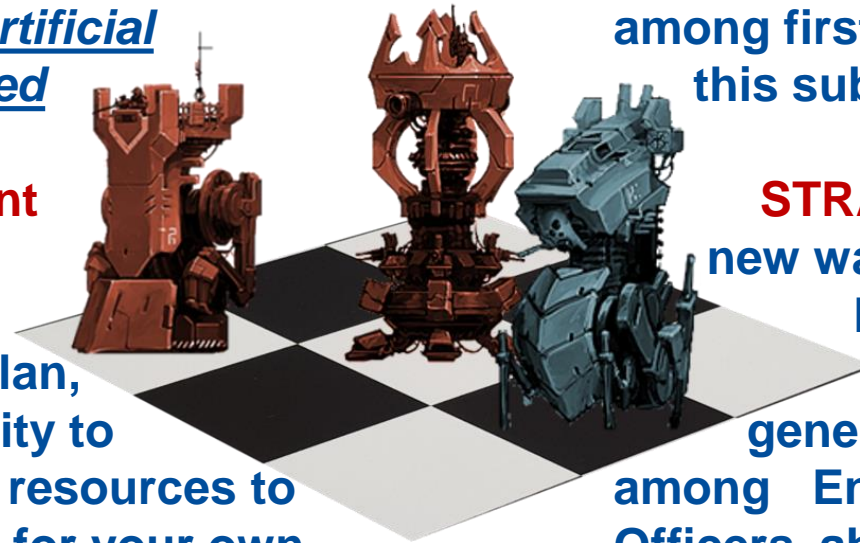


Strategic Engineering & STRATEGOS



Strategic Engineering is a new Discipline, devoted to combine Modeling & Simulation, Data Analytics & Artificial Intelligence in closed loop to support the **Strategy Development & Decision Making**

A **Strategy** is not a Plan, a **Strategy** is the ability to well direct your own resources to achieve major Goals for your own success



STRATEGOS aims to develop an International Capability in **Strategic Engineering** and it's the 1st Master of Science in Italy and among first ones worldwide on this subject

STRATEGOS promotes the new ways to use Quantitative Modeling and Analysis by preparing the new generations of Experts, among Engineers, Managers (Officers able to interact directly with Top Decision Makers



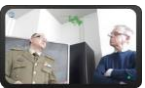


Shipping 4.0: International Panel

Important Partnership with major Agencies & Companies



STRATEGOS



HITACHI Inspire the Next



DITEN

Exercises, as well as on Internships (6 months), Summer Stages (3-6 weeks) & Projects



Currently, many Major Companies, Institutions and Agencies are in active Partnership with STRATEGOS on Workshops and



URL: www.simulationteam.com/strategos/challenges/jan2021
Email: agostino@itim.unige.it, roberto.dillon@jcu.edu.au



Genuense Athenaeum





Shipping 4.0: International Panel



Off-Shore & Coast as Strategic & Critical Resources

Study of Modern Complex Marine & Port Scenarios

Advance Analysis of Opportunities & Risks related to Safety and Security in Off-Shore & On-Shore Critical Infrastructures

Creation of Effective & Efficient Teams skilled in **Strategic Engineering** with Trans-Disciplinary view & using new Technologies with Subject Matter Experts, Port Users, Marine Players, Engineers & Scientists



To identify solutions to reduce Vulnerabilities by Policies & Procedures, Organization, Technology, Virtual Laboratories, Individual and Collective Training

Organization of Mobile, Live, Virtual & Constructive Exercises, Virtual Table Top Experience & Workshops

Genuense Athenaeum
Est. 1471 AD





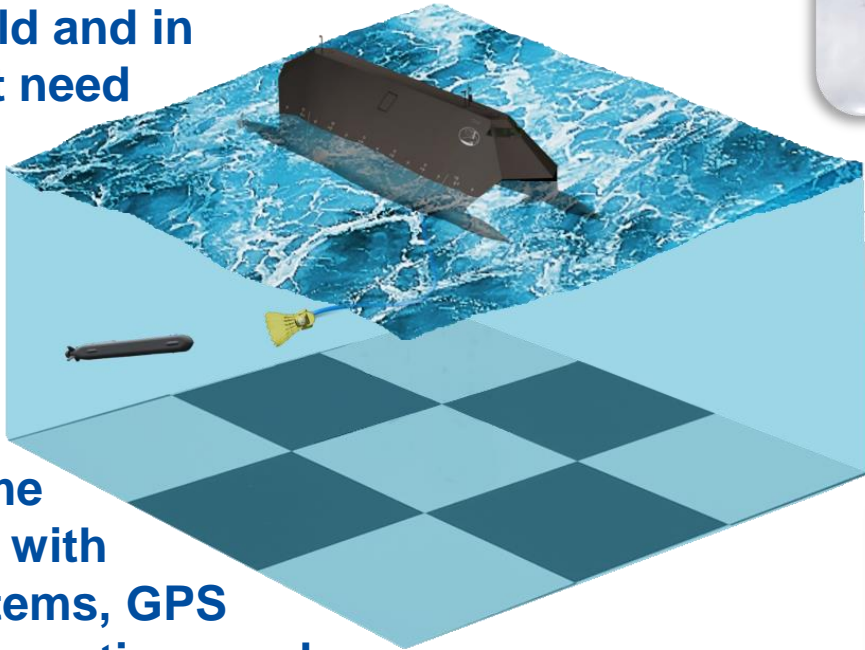
Shipping 4.0: International Panel

New Treaths... & New Assets
Real... and... Virtual



Nowadays, there are new Threats
in Physical World and in
Cyber Space that need
to be considered

At the same time
New Solutions
Exists to improve
Safety & Security
in Extended Maritime
Framework dealing with
Cyberphysical Systems, GPS
Spoofing, Hybrid Operations and
Media or Cyber Attacks to Critical Infrastructures



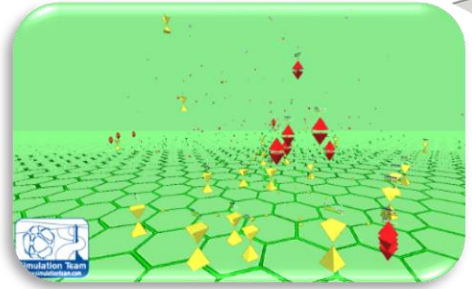
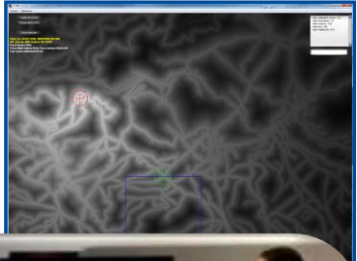
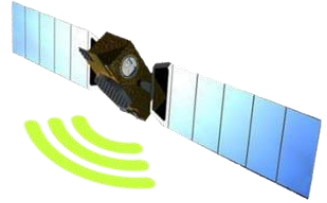


Shipping 4.0: International Panel



Web Services as Enablers as well as Vulnerability Sources

In modern World, the problems are multi domain including Space and Cyber Space, so the new Models & Solutions that are based on Strategic Engineering should be able to identify new vulnerabilities, to reduce them as well as to investigate how to get benefits of new Enabling Technologies





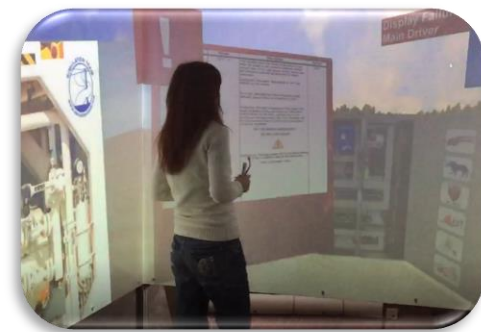
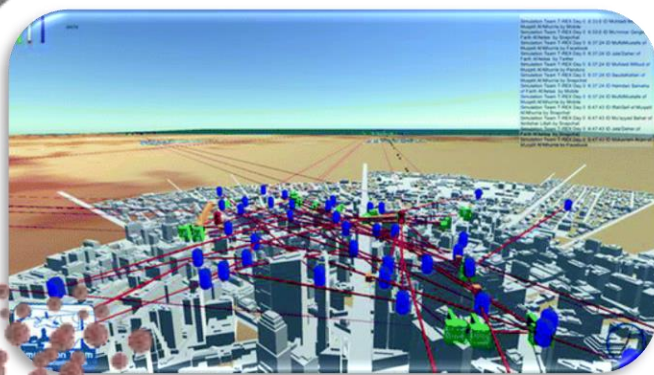
Shipping 4.0: International Panel



covid-19: be safe

Operations to & win

Strategic Engineering allows to consider the pandemics aspects and to study new technologies, policies, organizations and processes to operate during covid-19 and win the competition challenge





Shipping 4.0: International Panel

New Business Sectors are arising... & pretty promising



New Business Sectors are emerging as major leading areas characterized by high value for Leaders and fast Market frameworks

Games are Larger & more profitable Than Movie Industry, ~160MUSD/year with 10% trend



Manufacturing & Logistics could be heavily by a complete revolution due to advances on Addictive Manufacturing





Shipping 4.0: International Panel



R.Dillon
Head of School of Technology
James Cook University
Singapore Campus



James Cook University Singapore Campus

Digital Business represents a major opportunity for new Generations and it is framed into a Campus in Singapore of the James Cook University (JCU)



Singapore is one of most dynamic Cities world wide located in the Strategic Straits of Malacca and Singapore that connect East to West over Seas

JCU is an Australian University very active and Characterized by innovative Initiatives as well as by International Classes



URL: www.simulationteam.com/strategos/challenges/jan2021
Email: agostino@itim.unige.it, roberto.dillon@jcu.edu.au



**Genuense
Athenaeum**





Shipping 4.0: International Panel



Singapore during the pandemic: a “Smart City” under pressure

Singapore economy shrinks a record 5.8% in a pandemic-hit 2020:

- First annual contraction since 2001
- Worst recession since independence.

Most affected sectors:

Construction, Aviation and Tourism





Shipping 4.0: International Panel

Singapore during the pandemic: a “Smart City” under pressure



Embracing telecommuting saved the Technology and Financial sectors.

Working from Home created other problems... (cyber security risks etc.)

PROBLEMS



OPPORTUNITIES





Shipping 4.0: International Panel



How can Traditional Businesses survive?

- Tourism
- Aviation





Shipping 4.0: International Panel



The "Cruise to Nowhere" ...

Genting Cruise Line's Dream Cruises and Royal Caribbean International

4N Ocean Getaway

fr S\$279 p.p

Departures:

2021

Book Now

- Jan 7, 14, 21, 28;
- Feb 4, 11, 18, 25;
- Mar 4, 11, 18

DAY	PORT	ARRIVE (LOCAL)	DEPART (LOCAL)
1	Singapore		5:00 pm
2	Cruising	-	-
3	Cruising	-	-
4	Cruising	-	-
5	Singapore	6:30 am	

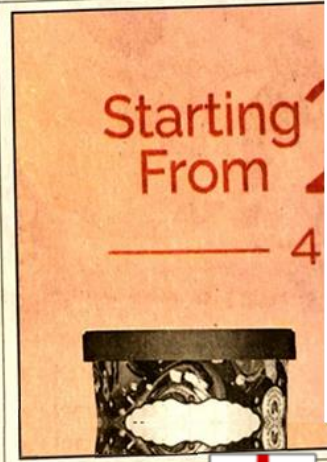
THURSDAY, FEBRUARY 4, 2021 | THE STRAITS TIMES

S'poreans, Italians 'most vacation deprived' in Expedia poll

Amid pandemic, S'poreans used 10 vacation days in 2020 instead of 15 days

Ng Wei Kai

Singaporeans, along with Italians, felt most vacation deprived last year in a new survey by travel booking company Expedia.





Shipping 4.0: International Panel



Singapore Air:

Can't fly on a A-380, but can still eat in there!



Restaurant A380@Changi

Temporary conversion of an A-380 plane into a restaurant. Bookings from Oct 12.

Cabin class	Price (excluding GST)	Miles redemption
Economy	\$50	6,250 KrisFlyer miles
Premium Economy	\$90	11,250 KrisFlyer miles
Business	\$300	37,500 KrisFlyer miles
Suites	\$600	75,000 KrisFlyer miles

Note: \$100 = 63 euro





Shipping 4.0: International Panel



So Successful...

... that an extra package to have the menu brought home and reheated by a Chef was added for \$900! (~560 Euro)





Shipping 4.0: International Panel



4.0 vs. 5th Revolution



Francesco Faccio, Idexce Consulting Partner, Italy

We are moving into a fast evolving Situation were incremental capability of Technology is really revolutionary and we had to identify who is among our Colleagues that one that holds this Revolution into his ideas and innovations

Kodak Invented it too early & failed



1975

Capacity 0.01 Mega Pixel

Smart Phones In every pocket

12 Mega Pixel



2020





Shipping 4.0: International Panel



Focus on Customers & Needs



Jean-Guy Fontaine, JGF
Senior Partner, France

There is a major necessity to use Technology to satisfy Customers and Needs not by itself





Shipping 4.0: International Panel



Cyber as crucial part of Security & Safety



Georgia Cesarone, Education Director at Start 4.0, Italy



Security and Safety are crucial issues and there is a need to address the get a global view on this subjects





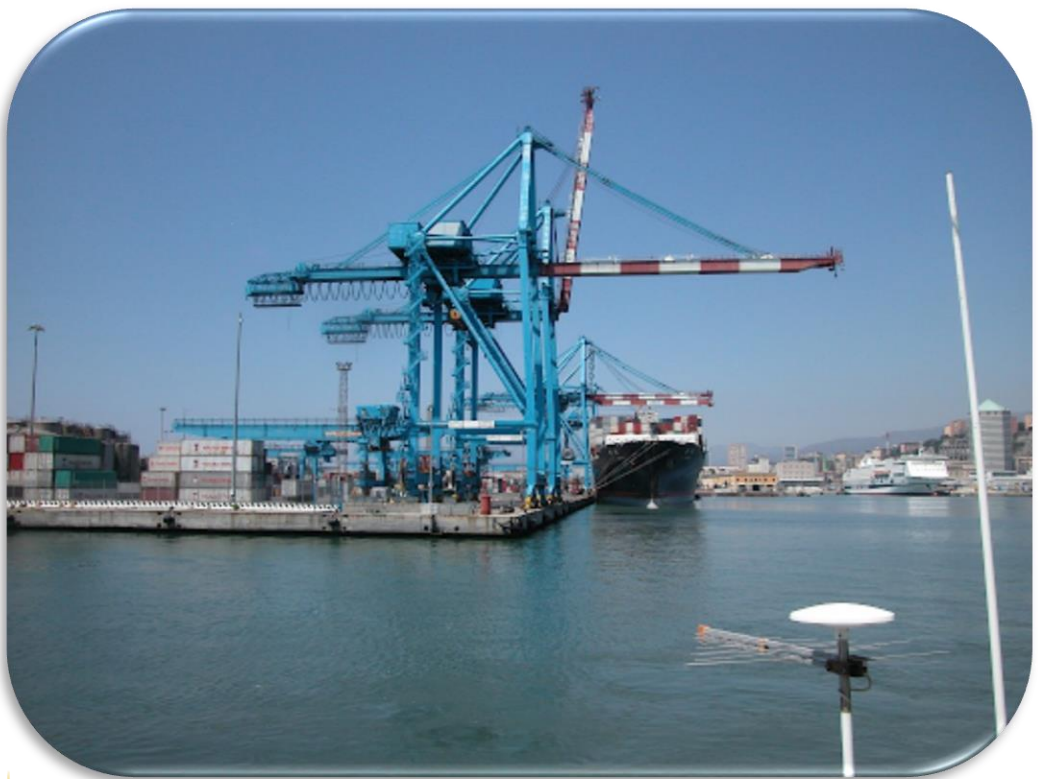
Shipping 4.0: International Panel



Renaissance based on Excellent Solutions



Stefano Negrini, Technical Director, Terminal Bettolo



We should look at technology as a Tool and work to create a real Business Renaissance emphasizing main Values and Quality

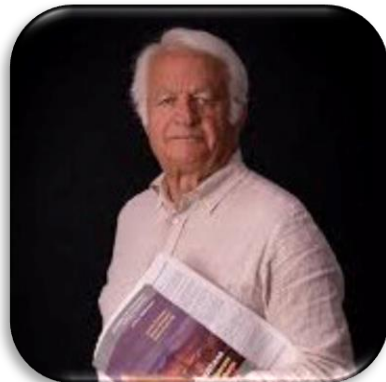




Shipping 4.0: International Panel



Work together using Strategic Engineering



Rocco Giordano
Direttore Sistemi di Logistica



Strategies are the key point and there is a major need to use a synergic view to compete in new markets and realize successful solutions. Strategic Engineering is a great approach to succeed





Shipping 4.0: International Panel



Comprehensive View on Main Issues to Restart



Stefano Fasoli
Info Logistics, Cetena, Italy

A modern, practical and comprehensive view on main Issues is crucial to succeed nowadays in a global competitive environment





Shipping 4.0: International Panel



Singapore & Genoa as two Opportunities



Domenico Rocco, Sales Manager Fincantieri Group

Singapore and Genoa are very different, but represent great opportunities for Companies and young Engineers working @ Sea





Shipping 4.0: International Panel



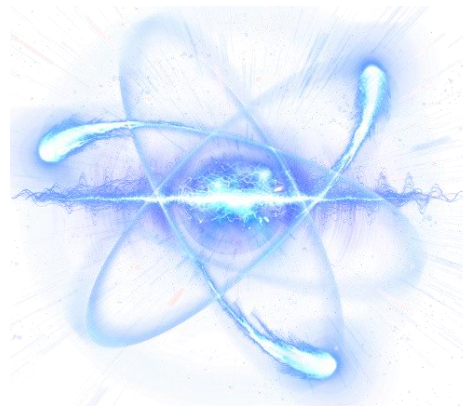
Old Applications and New Technologies



Giulio di Gennaro
Tech.Director Corepower, UK



Not only Digital, but even Hard Solution could renew the world at Sea: including New Ideas such as new Nuclear Power Solution to be used on Ships and Offshore facilities





Shipping 4.0: International Panel



Each Crisis is an Opportunity to improve

Today, we are applying solutions, ready since 20 years, just because we get an hard kick by covid-19 crisis. These solutions will stay applied in different way

Today, we are developing new solutions that will be ready for next crisis, but that could be useful even today for other purposes





Shipping 4.0: International Panel



Digital Solutions are just the Starting point... but Fundamental

Marine World is experiencing new Products, such as Predictive Maintenance Services driven by remote Services using AI & Modeling based on Real Time Data

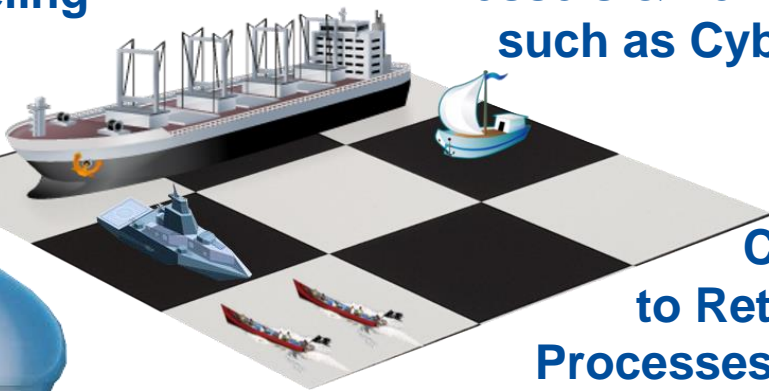
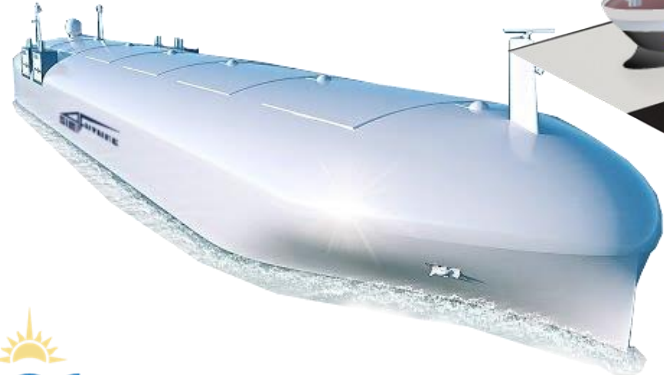


Traffic at Sea is going to address major Changes including Autonomous Surface Vessels & new Threats such as Cyber Ones

Genuense Athenaeum Est. 1471 AD



JAMES COOK UNIVERSITY SINGAPORE



Current Crisis requires to Rethink and Re-Engineer Processes and Business based on Enabling Technologies





Shipping 4.0: International Panel



Marine Environment is very Challenging



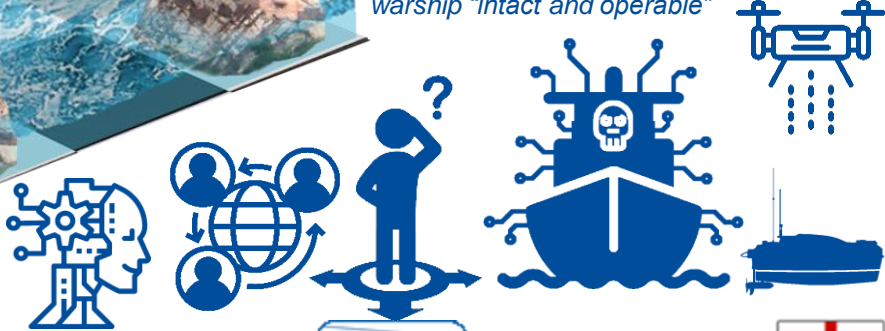
Sailors know the Storms and Marine Sector has Major Challenges at Sea

Even greater Challenges are Emerging from current Situation:

- Climate Change
- Water Resources
- Digital World Competition
- Cyber & Media Threats
- Automation & Autonomous Systems
- Demographics (Positive & Negative)



KNM Helge Ingsta, Nov.8, 2018 "unsinkable" due to its construction with water-tight zones designed to keep the warship "intact and operable"



URL: www.simulationteam.com/strategos/challenges/jan2021
Email: agostino@itim.unige.it, roberto.dillon@jcu.edu.au



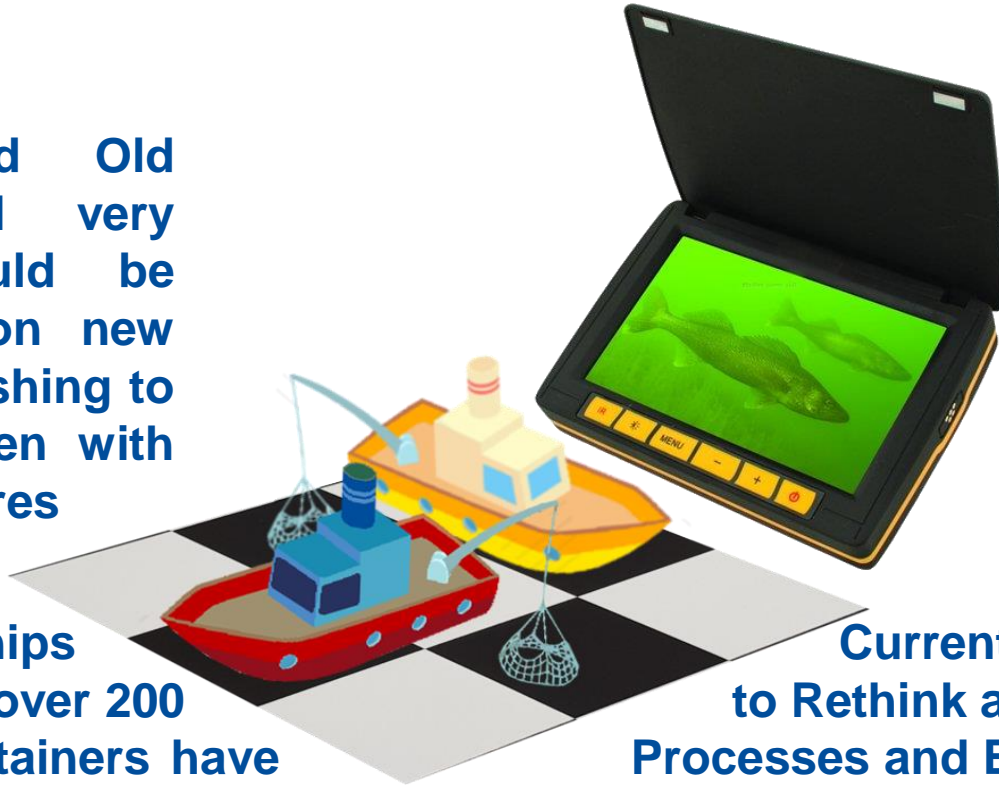


Shipping 4.0: International Panel



There are Opportunities to rethink drastically Old Economy

Old Business and Old Economy are still very important and could be reorganized based on new Technologies from Fishing to Shipping as it happen with Lodging and Bookstores



In Logistics, Steam Ships & Trains date back to over 200 years ago, while Containers have already 3/4 of a Century

Current Crisis requires to Rethink and Re-Engineer Processes and Business based on Enabling Technologies





Shipping 4.0: International Panel



Intuitiveness for Decision Making based on New Solutions



This is the reason why in **STRATEGOS** there are strong foundations in Computational Intelligence, Simulation & Engineering, but also modules of Economics, Int. Affairs and Open Source Intelligence allowing to speak directly with Top Decision Makers

The new Solutions by Strategic Engineering are focused on making Intuitive, Immersive & fully Interactive the New Technologies to engage directly Decision Makers

This allows to understand their real needs, their degrees of freedom and constraints as well as to help them in the Strategic Management





Shipping 4.0: International Panel



Sea & Naval Strategies & their Risks

Strategic Engineering allows to address multiple aspects related to Port and Maritime Environment also considering the complexity of this framework dealing with 6 dimensions: Sea Surface, Coastal Areas, Underwater, Air, Space and Cyber Space



Genuense Athenaeum
Est. 1471 AD



JAMES COOK UNIVERSITY
SINGAPORE



URL: www.simulationteam.com/strategos/challenges/jan2021
Email: agostino@itim.unige.it, roberto.dillon@jcu.edu.au



Genuense Athenaeum





Shipping 4.0: International Panel



Logistics as Complex Systems

Strategic Engineering is very well addressing issues related to Logistics that are usually affected by the well know & critical VUCA factors (Volatility, uncertainty, complexity and ambiguity). Its use could provide a very Strategic Advantage



Genuense Athenaeum
Est. 1471 AD



JAMES COOK UNIVERSITY
SINGAPORE





Shipping 4.0: International Panel

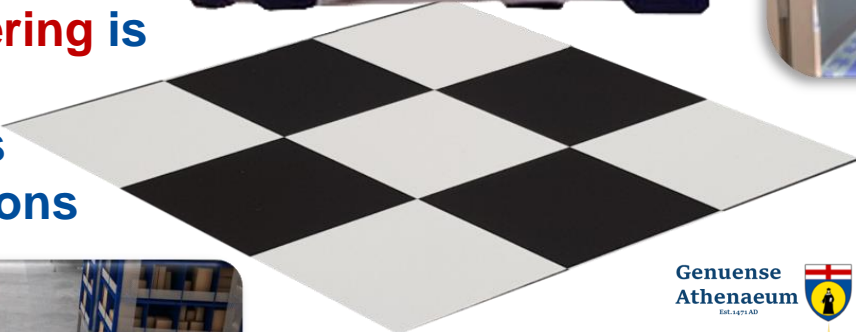


New Components introducing new Opportunities & Challenges

The brave new modern world is proposing new Technologies and solutions that create Opportunities, but also introduce new Challenges.



The Strategic Engineering is a proper Approach to deal with these Issues & to shape new solutions



Genuense Athenaeum Est. 1471 AD



JAMES COOK UNIVERSITY SINGAPORE



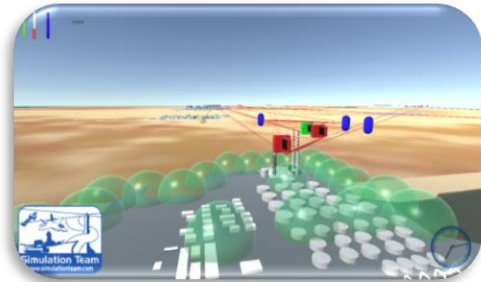
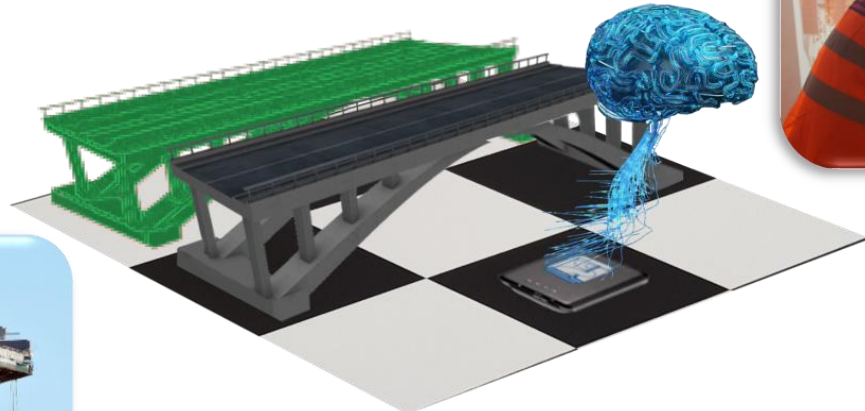
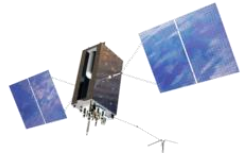


Shipping 4.0: International Panel



Logistics Infrastructures as Complex Systems

Strategic Engineering by addressing preventive maintenance & new service solutions is crucial to develop the new Infrastructures for Logistics and Transportations



URL: www.simulationteam.com/strategos/challenges/jan2021
Email: agostino@itim.unige.it, roberto.dillon@jcu.edu.au





Shipping 4.0: International Panel

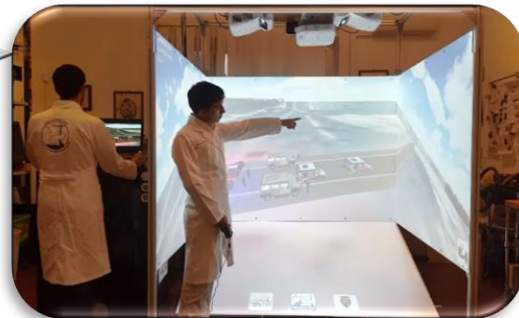
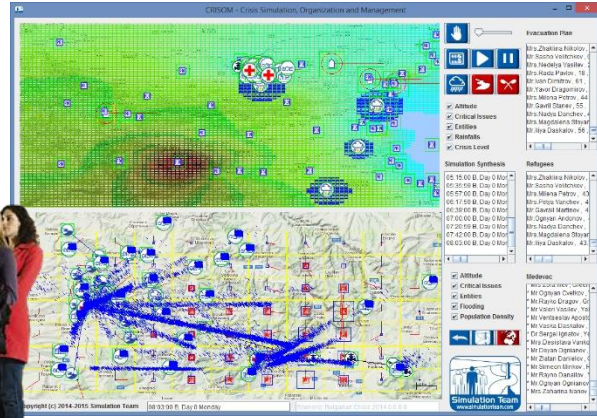


Urban Logistics & Transportation need Strategies



Urbanization is an explosive phenomenon affecting all the Nations: so Towns are struggling with critical issues related to last mile logistics as well as with transportations.

Strategic Engineering allows to consider the multiple layers and their interactions to properly evaluate alternative Strategies



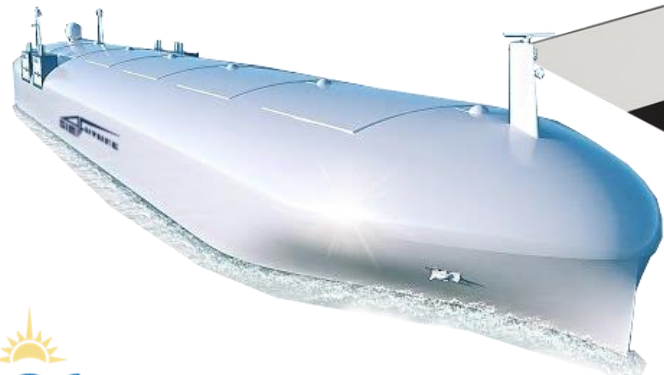
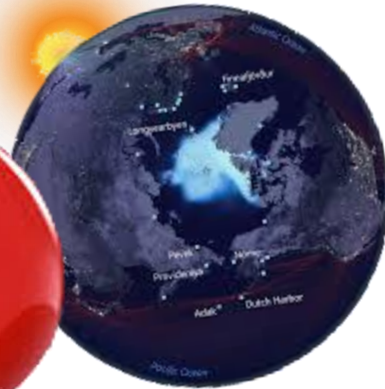
URL: www.simulationteam.com/strategos/challenges/jan2021
Email: agostino@itim.unige.it, roberto.dillon@jcu.edu.au



Shipping 4.0: International Panel



Summaring



**Genuense
Athenaeum**
Est. 1471 AD



**JAMES COOK
UNIVERSITY**
SINGAPORE



www.jcu.edu.au

www.itim.unige.it/strategos

