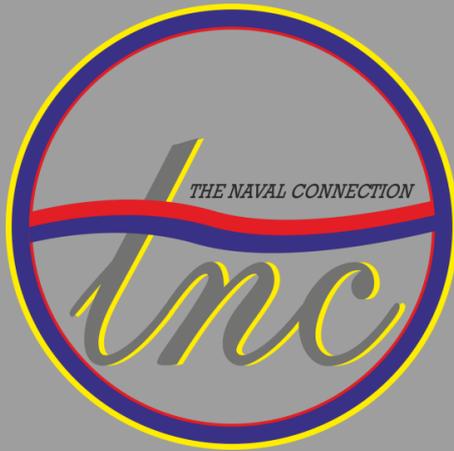


# Technology in Maritime

Global Virtual Conference & Networking Meet

**Tue 27<sup>th</sup> & Wed 28<sup>th</sup> July 2021**



It's a Naval Connection  
Event

<https://www.thenavalconnection.com/tim/>



Hi I am TIM,  
Technology in Maritime.  
I will help you network  
globally with industry  
professionals and leaders



Technology In Maritime (TIM)

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# Technology in Maritime



The Future of Shipping  
is Now



# About TIM



[https://www.the  
navalconnection.  
com/tim/](https://www.the-navalconnection.com/tim/)

The COVID19 pandemic has unleashed chaos that has also dealt a death blow to physical events. However, we have shown resilience and in fact glad to get this opportunity to scale new heights. Pivoting our approach to envision a global view, we have conceptualised **TECHNOLOGY IN MARITIME (TIM)** Global Conference and Networking Meet 2021. This is a great virtual forum for maritime professionals across the world to contribute ideas, share experiences and vision for the new technologically driven maritime world order ahead.

Our collective focus is to make shipping safer and cleaner. This will be possible only when we visualise the future of maritime operations and its demands from professionals. The **FUTURE is NOW** and each moment is giving rise to new opportunities – both exciting and challenging.

TIM offers a wide range of opportunity to speakers, service providers and applicators of new and existing technology to reach new markets and broaden their scope and profitability through networking with global leaders and industry professionals.

# About the Organisers



## The Naval Connection (#TNC)

**#TNC** is a start up founded by Capt. Shoukat Mukherjee in the year 2019, with a vision to '**Creating Value for the Future**'. TNC helps organizations to empower their human capital through state of the art skill development modules via virtual live workshops, coaching & mentoring and other innovative interventions.

During the course of the corona virus pandemic the **#TNC #VirtualAcademy** has trained over 1800 seafarers and shore based staff in various technical and non technical skill based courses in a span of just 14 months.

With a penchant to promote learning & knowledge sharing, **#TNCEvents** conceives innovative networking forums which help new and exiting businesses and entrepreneurs to capitalize on new markets thereby increasing their business reach and profitability through participation and strong social media promotions.

In Nov 2020 **#TNC** ideated and convened maritime industry's largest global virtual conference on **#skilldevelopment** titled '**Future Skills Maritime**' **#FSM2020** which saw the participation of over 40 global maritime leaders and delegates from more than 35 countries

<https://www.thenavalconnection.com/futureskillsmaritime/>

# Who Will Attend

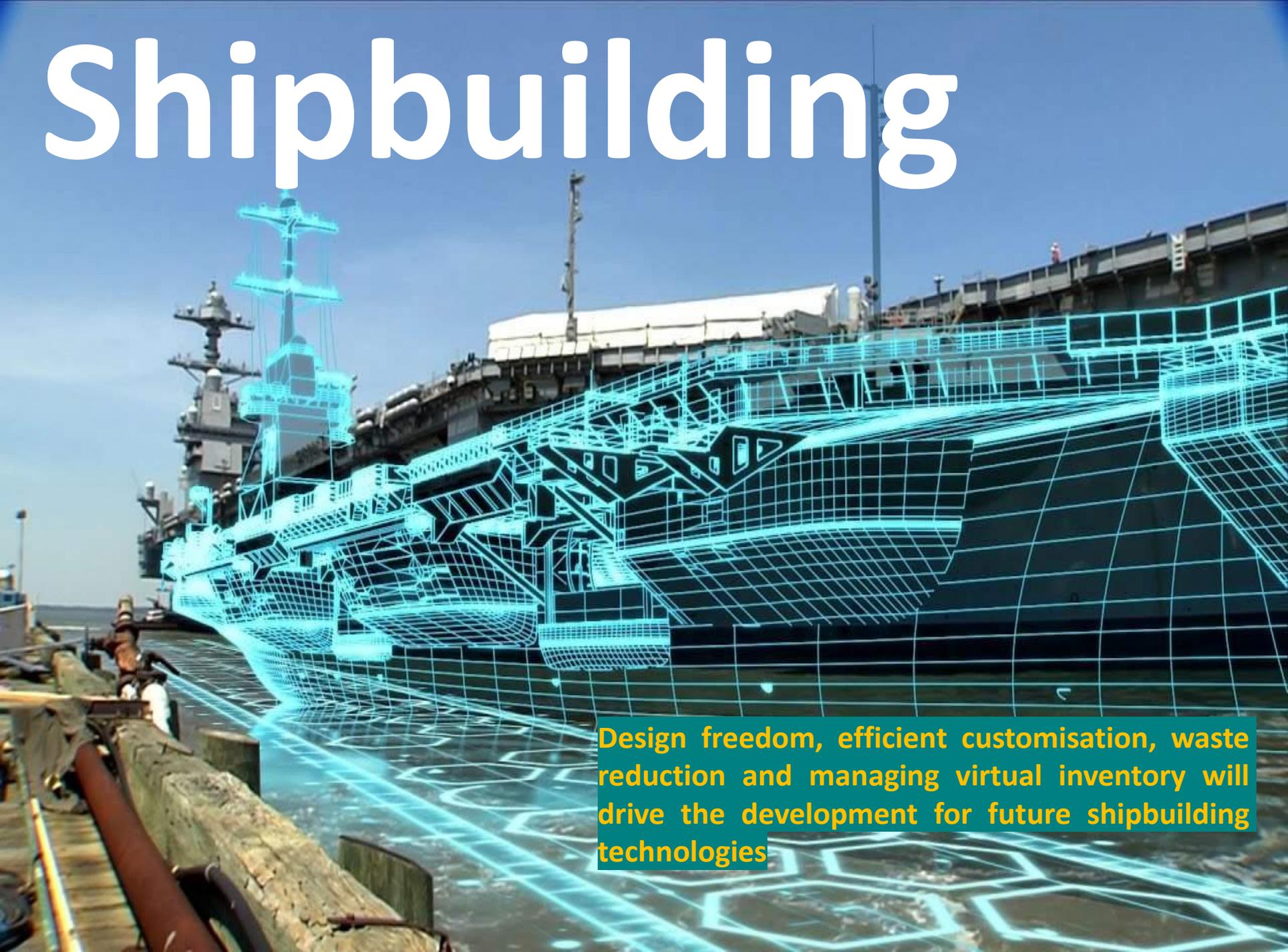


**Meet and Interact with Global Leaders  
& Decision Makers**



**SHIP OWNERS | CONSULATES & EMBASSIES | SHIP MANAGERS | PORTS | TECH SERVICE  
PROVIDERS | START-UPS | INVESTORS | SEAFARERS | MARITIME  
ADMINISTRATION | CLASSIFICATION SOCIETIES | HARDWARE & SOFTWARE FIRMS |  
SHIPS ROUTERING | MARITIME ASSOCIATION | OIL & GAS | OFFSHORE | LEISURE |  
MARINE INSURANCE | SHIP FINANCE | POWER GENERATION | AGENCIES | SHIP REPAIR |  
IT & INFRASTRUCTURE | SHIPBROKING | DRYDOCK | EQUIPMENT MANUFACTURERS |  
INNOVATIVE TECHNOLOGIES | OTHERS |**

# Shipbuilding

A large ship is under construction at a dock. The ship's hull and superstructure are visible, with a prominent mast and rigging. A glowing blue wireframe overlay is superimposed on the ship, representing a digital model or simulation. The wireframe shows the internal structure and external hull, with various components highlighted in a bright cyan color. The background shows a clear blue sky and the dock area with some workers and equipment.

Design freedom, efficient customisation, waste reduction and managing virtual inventory will drive the development for future shipbuilding technologies

# Propulsion & Power Generation

Future engines, alternative fuels, propulsion energy-saving devices, renewable sources of energy, hybrid power generation, and emissions abatement technology will be a significant area of technological development. Notably vessels are claiming 20% reducing in fuel costs with hybrid propulsion whilst significantly reducing emissions.



# Smart Ships

10% of the new buildings will be smart ships - arguably, smart ships are not a revolution but an evolution.

Today's concept of unmanned machinery spaces may be considered another manifestation of the smart ship, as are data-driven services such as vessel performance monitoring and weather routing – the modern smart ship will integrate a variety of connected technologies to improve operational efficiency, ship management, regulatory compliance, decision making and communication



# Big Data



IT infrastructure will be upgraded to retrieve, store, and process data in real time

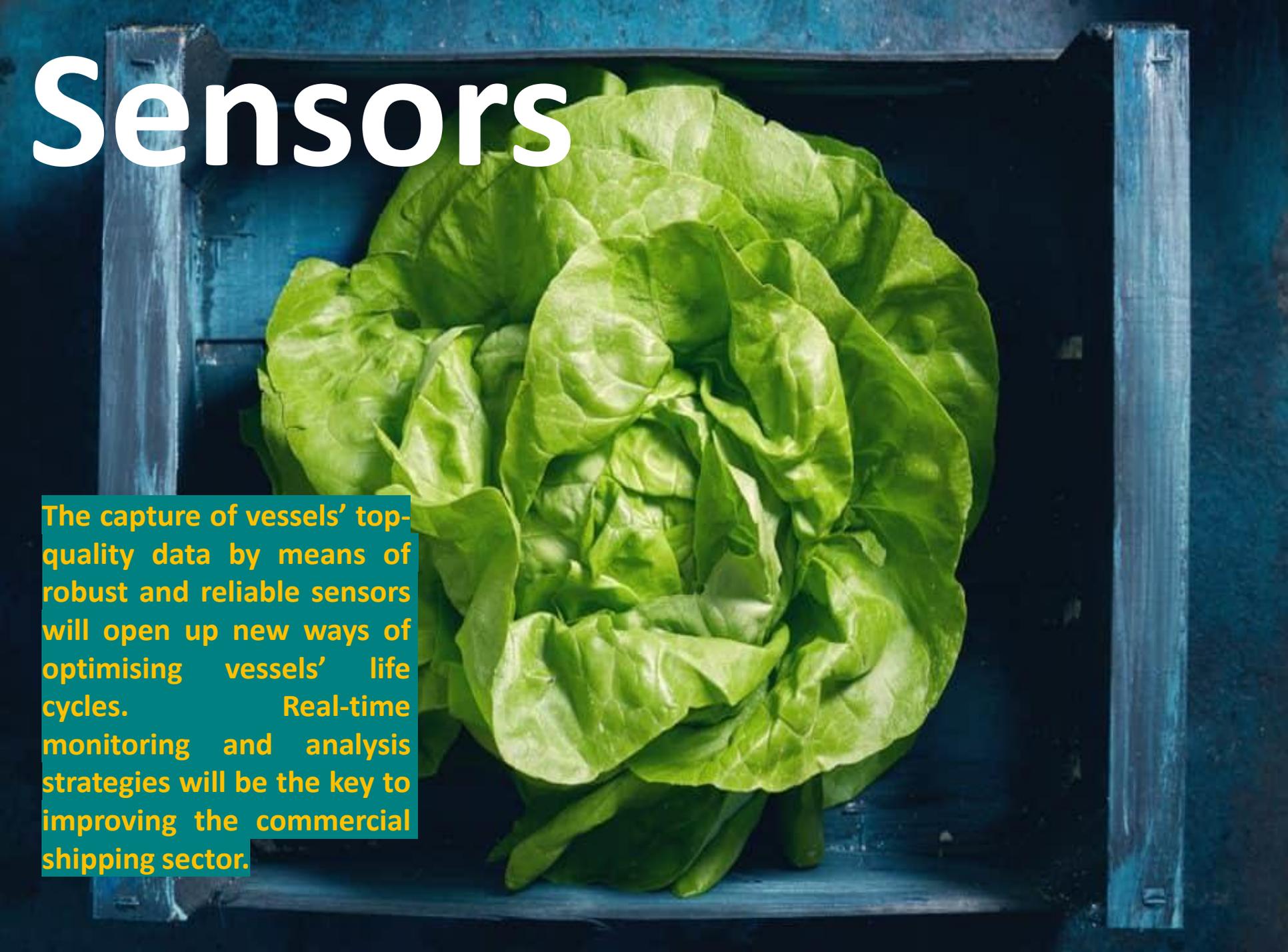
Archived data can be stored either onboard a ship or onshore, thanks to the support of communication technologies. Furthermore, cognitive systems will act as data interpreters for humankind. These systems will combine machine learning and natural language processing to offer an intuitive interface between a person and a machine

# Advanced Materials



Developing advanced materials for ship applications will be a critical component of improving future ship performance. New features will be introduced, and multi-functional materials can be created. There are three new types of robots that will be in use by 2030. The first will be a learning robot, the second will be a practical robot (one that can handle an asset), and the third type will be a mini-robot, useful for inspections in harsh, dangerous environments. These robotics will leverage: cognition, versatility, imitation, sense and adaptability.

# Sensors

A large head of green lettuce is centered in the image, resting inside a blue metal crate. The lettuce is vibrant green and has a crinkled texture. The crate is made of blue-painted metal bars, and the background is dark, possibly the interior of a shipping container.

The capture of vessels' top-quality data by means of robust and reliable sensors will open up new ways of optimising vessels' life cycles. Real-time monitoring and analysis strategies will be the key to improving the commercial shipping sector.

# Communications

An aerial photograph of a port with a large container ship docked at a pier. A blue, semi-transparent 5G network overlay is superimposed on the image, featuring a grid of nodes and connecting lines. The letters '5G' are prominently displayed in a large, glowing blue font in the center-right of the image.

With the integration of 5G, WiFi and new generation satellites, as well as conventional marine radiocommunication networks, we will see transformation everywhere. Stakeholders will be able to monitor live audio and high definition (HD) or 3D video collected onboard. Radio-frequency identification (RFID) tags will support through-life asset management, including the tracking status of cargoes, as well as structural and machinery components.

# Augmented Reality

A person wearing a yellow hard hat and AR glasses is looking at a tablet. The tablet displays a 3D model of a ship's engine room. In the background, there is a control panel with various gauges and valves, labeled "ESD AIR CONTROL BOARD". The hard hat has Korean text on it: "책임여" and "다쳐서는 안된다".

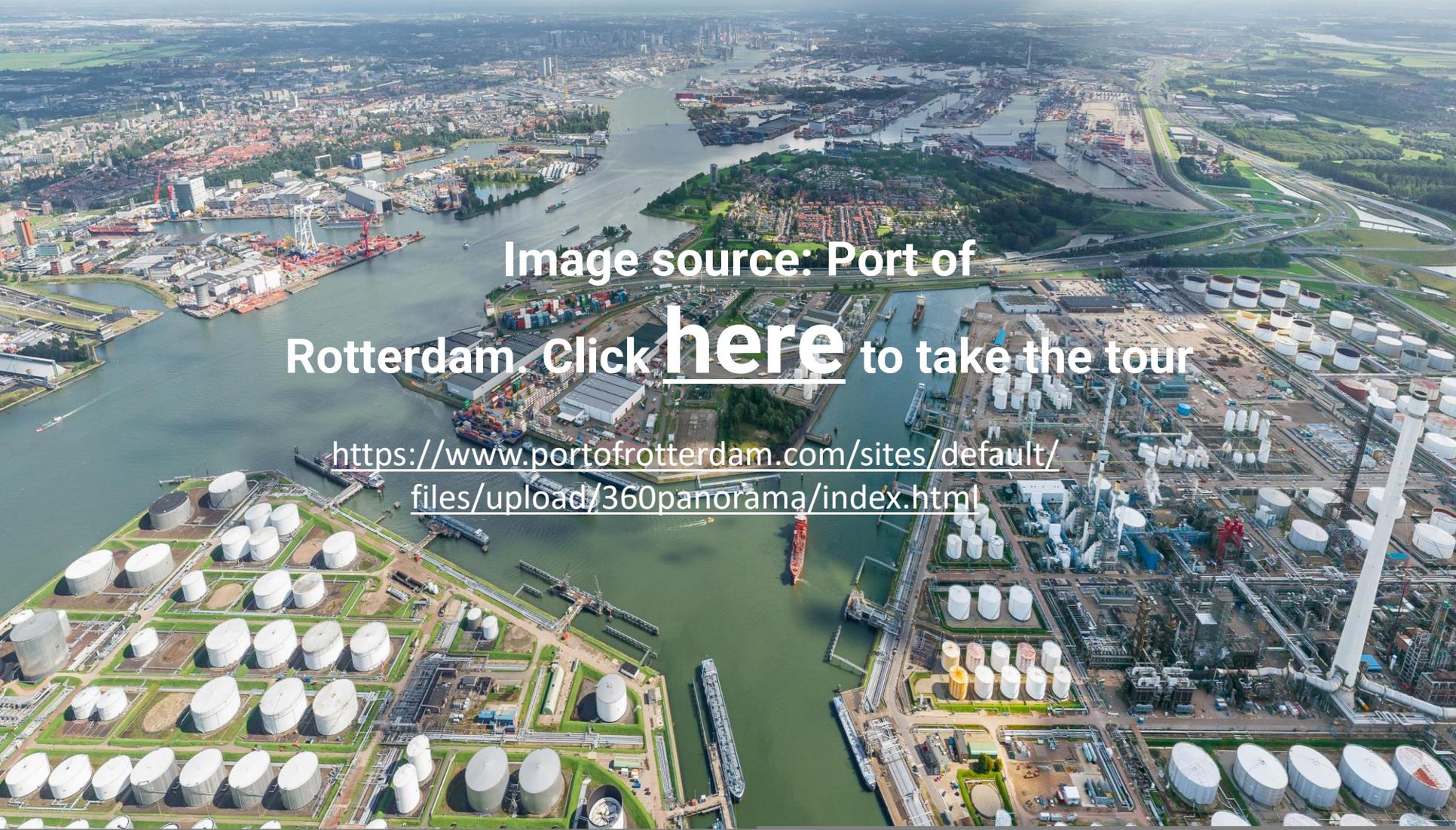
The augmented reality has unlimited possibilities in increasing the productivity and operations of the shipping sector. For instance, the crew at the ship can look at the entire ship in the form of a 3D model on a tablet right in front of them. The 3D model can assist in analyzing the vessel from all the angles, highlighting the areas of concern, displaying the main engine, etc. Hence, the interaction becomes more realistic and natural than watching the general agreement drawing plan (GA) on a screen.

# Virtual tour of the Port of Rotterdam

Port360, a virtual tour of the Port of Rotterdam, is one such example of this technology being used for connecting with businesses and also educating people not connected to the world of shipping about the port and how it operates.

Image source: Port of Rotterdam. [Click here](https://www.portofrotterdam.com/sites/default/files/upload/360panorama/index.html) to take the tour

<https://www.portofrotterdam.com/sites/default/files/upload/360panorama/index.html>



# How will TIM help you?

**Connect one-on-one with global business professionals**

**Increase your business reach**

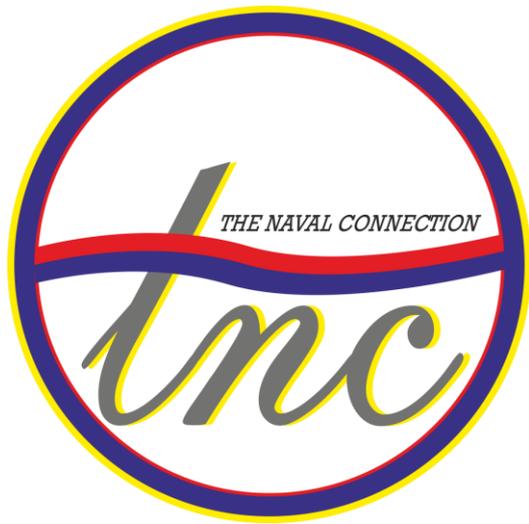
**Know the future demands in shipping**

**Understand the gaps in supply and demand**

**Know about emerging business opportunities**

**Add value to the industry through your research and brand**





# CONTACT

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**The Naval Connection**

# US

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*Building Value for the Future*

