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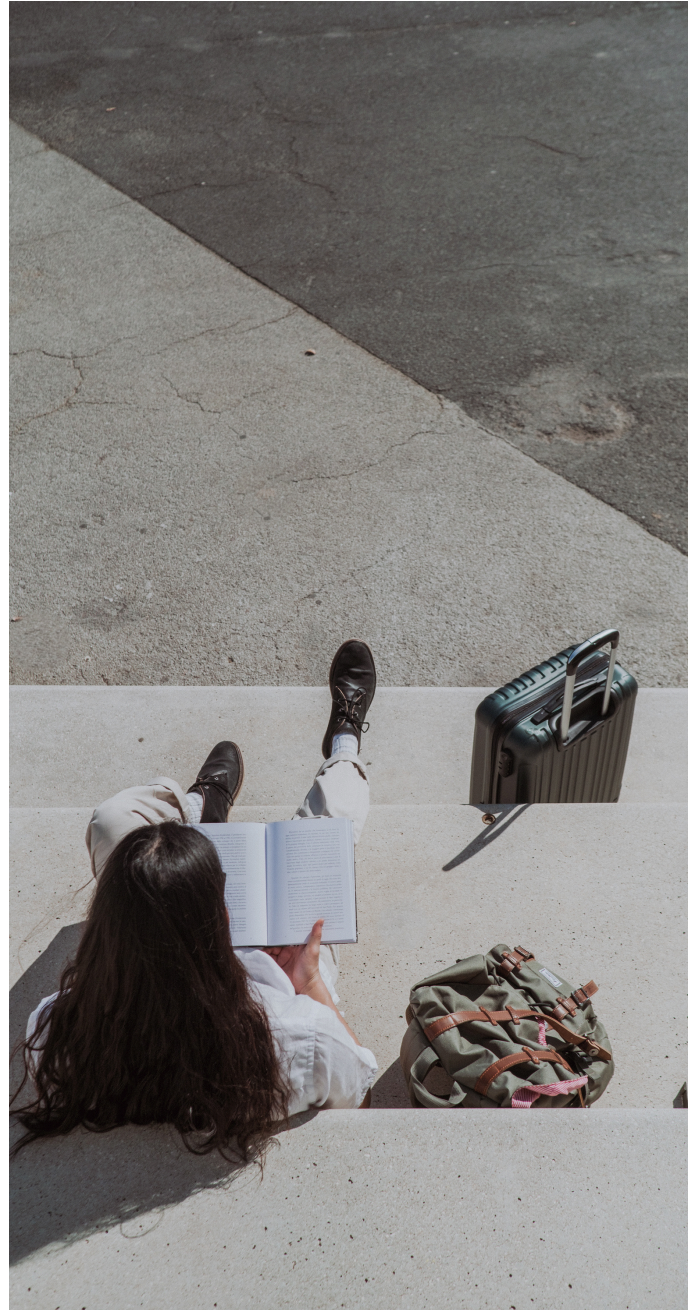
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Place a short biography of this magazine's contributor here.





From the Editor

On behalf of our editorial team, I would like to offer a word of thanks to our reader, data contributors, marine authors, editors and anonymous reviewers, all of whom have volunteered to contribute to the success of the magazine and for its mission towards in the maritime education and research.

Without research, education system cannot be fulfilled to meet the industry requirements IMO's dream about GREEN VOYAGE 2050 and government of the India dream about MARITIME INDIA VISION 2030,

we encourage contribution to ensure continuity of a successful maritime magazine We also welcome comments, suggestion that could improve the quality of the magazine

Thank you,

we trust and hope will find the magazine more informative in the future / ahead endeavor.

MRS. ARUL JOSPHIN MARY

Editor-in-Chief



PMA and its Pendulum magazine and web adhere to the following principles:

1. Provide accurate, verified, and engaging reports.
2. Maintain fairness and impartiality in coverage.
3. Publish stories regardless of potential dissent or controversy.
4. Follow legal, objective, accurate, and ethical journalism standards.
5. Avoid unnecessary profanity; editors will decide what qualifies.
6. Edited quotes for profanity will be noted and shared with sources for approval.
7. Journalists can request non-profane quotes when necessary.
8. Letters, opinions, and commentaries are from contributors or invited experts.
9. Cover community, state, national, and international news relevant to readers.
10. Reserve the right to withhold or request revisions for unprotected speech or grammatical errors.

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FUN FACTS

BET YOU DIDN'T KNOW.....

HUMAN BODY

THE HUMAN HEART BEATS MORE THAN THREE BILLION TIMES IN AN AVERAGE LIFESPAN.
YOUR LEFT LUNG IS ABOUT 10 PERCENT SMALLER THAN YOUR RIGHT ONE.



THE ROLE OF MARITIME TRANSPORT IN GLOBAL SUPPLY CHAINS

Maritime transport plays a pivotal role in the functioning of global supply chains, facilitating international trade and ensuring the smooth movement of goods across continents. Accounting for about 90% of global trade, the maritime industry is the backbone of the world economy. This article explores the critical functions, benefits, and challenges of maritime transport within global supply chains..

Foundation of International Trade:

Bulk Cargo: Maritime transport is essential for bulk cargo such as oil, coal, grain, and minerals. Bulk carriers and tankers are designed to handle these large quantities, making it feasible to transport raw materials across vast distances.

Containerization: The advent of containerization revolutionized maritime transport by standardizing cargo handling, reducing shipping times, and minimizing damage. Containers can be easily transferred between ships, trucks, and trains, streamlining the entire supply chain.

Efficiency and Cost-Effectiveness:

Economies of Scale:

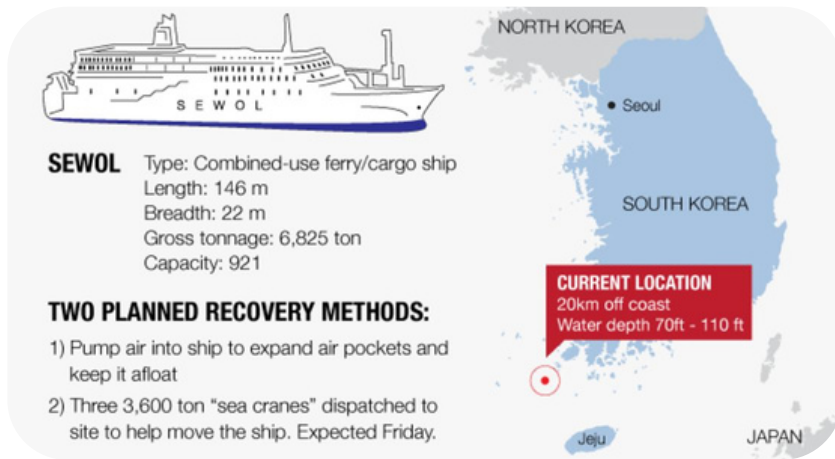
Modern container ships, such as Ultra Large Container Vessels (ULCVs), can carry over 20,000 TEUs (Twenty-foot Equivalent Units), reducing costs per container.

Fuel Efficiency:

Although maritime transport involves high initial investment, the cost per ton-mile is lower compared to other modes of transport, primarily due to the fuel efficiency of large vessels

The Future of Maritime Transport in Global Supply Chains:

As global trade continues to grow, the role of maritime transport in supply chains will become even more critical. The industry must address its challenges while leveraging technological advancements to enhance efficiency and sustainability.



INCIDENT SUMMARY:

THE MV SEWOL, A SOUTH KOREAN FERRY, CAPSIZED AND SANK WHILE EN ROUTE FROM INCHEON TO JEJU ISLAND. THE DISASTER RESULTED IN THE DEATHS OF 304 PASSENGERS, MANY OF WHOM WERE HIGH SCHOOL STUDENTS.

Importance of Adhering to Safety Regulations:

Overloading and improper stowage of cargo contributed significantly to the vessel's instability. Strict adherence to weight limits and proper cargo securing procedures are essential.

Crew Training and Preparedness:

Inadequate crew training and poor, emergency response exacerbated the situation. Regular emergency drills and comprehensive training programs are vital for crew readiness.

Passenger Safety Protocols:

Passengers were instructed to stay in their cabins, leading to a higher casualty rate. Clear and accurate communication of evacuation procedures is crucial in emergencies. In a very restricted waterway and with strong wind and current conditions, the use of one tug is a hazardous decision.



Iridium is developing in GMDSS and security services

Iridium is developing its GMDSS and security services for shipping with two way calls in a distress situation rather than a text message, and better communications to the citadel, if crew ever need to use.

Iridium is developing its Global Maritime Distress and Safety System (GMDSS) tools, encompassing two-way communication capabilities during distress situations, as well as enhanced communication services for the 'Citadel' where crew members retreat in the event of a piracy attack.

Kyle Hurst, Director of maritime safety and security services at Iridium explained more at a Digital Ship webinar, in October.

In 2018, Iridium gained approval from the International Maritime Organization (IMO) to provide recognised mobile satellite services for GMDSS and became operational in 2020.

Hurst views Iridium as a viable and game-changing alternative to Inmarsat C. Hurst stated how 'calling back to shore, getting as much clear concise information as possible is key' in ensuring the safety of vessels.

How it works Iridium currently has three key features in its distress alert system. Those are identification, status, and position of the vessel in distress.

Hurst identified how the information provided by the current system offers effective initial key information to Rescue Coordination Centre (RCC) but lacks the ability to facilitate two-way voice calls.

Hurst claims Iridium is the only company which currently offers two-way voice calls. He explains how when the red alarm on a vessel is pressed for three seconds a priority one call is made to the rescue coordination team. The vessel then enters distress mode. At which point basic information is sent to the Iridium ground station and the vessel is notified of the arrival of its distress message through an acknowledgement message from the ground team. The ground team then has ten seconds before a phone call is initiated between the ground team and vessel.

Hurst highlighted the value of two-way voice calls on vessels, stating how understanding 'the nature of distress how many people on board what the crew are doing about the distress, all of these things allow the guys on Shore the RCC to know more about what's going on and then design appropriate response'.

Hursts claimed the feedback from RCC to be overwhelmingly positive, stating 'in their minds it makes a big difference to how they can respond because they get a lot of very clear and concise information quickly'.



RCC COMMUNICATION:

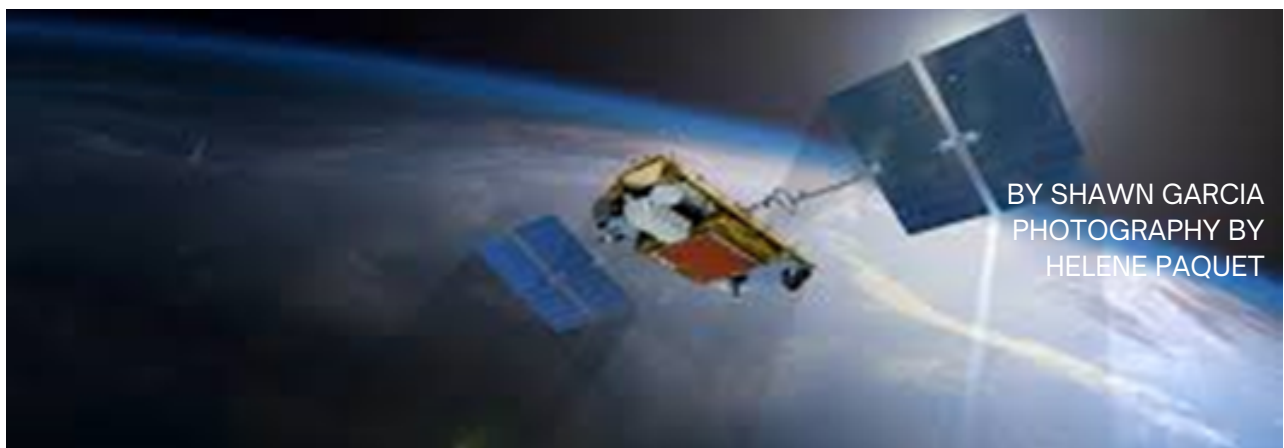
Hurst identified one key area of improvement Iridium provides regarding RCC's. He explained how under typical circumstances, when a RCC receives a distress call, it sends out a broadcast containing the coordinates of the distressed vessel, in the hope of drawing responses from ships in the vicinity.

In contrast, Iridium's technology can determine the position of other vessels in relation to the vessel in distress. With its calling capabilities, Iridium can make a direct call to nearby ships with exact locations being provided without having to wait for a response.

Iridium systems possess the capability to automatically regionalise emergency responses. The concept being that the effectiveness of an emergency response is enhanced when the system can pre-determine the specific area where an issue occurs. The RCC region an emergency occurs in will be notified meaning they'll be able to 'coordinate the search and rescue response because you're inside their search and rescue region'.

As of now, these systems are only operational in the waters of New Zealand and Fiji. However, there are plans to expand and implement these systems in regions across the globe Issue areas.

Hurst spoke of some of the concerns and feedback expressed regarding the Iridium systems. Some partners 'were concerned about the situation in India because some of the rulings that the Indian government have made historically', 'in particular they were concerned that using Iridium GMDSS'. Iridium 'worked with our regulator, the IMO, the international mobile satellite organization, and they were great in helping us talk to the Indian government and get this new directive or new DGS order, Director General Shipping order, number as of 2023'.



BY SHAWN GARCIA
PHOTOGRAPHY BY
HELENE PAQUET

MAKE MEMORIES

Once upon a time, there was a man who was motivated to become rich someday. He was quite hard working. He found a way to make riches by working honestly. In due course of time, he worked hard and went on tours as a merchant. He used his entire time thinking of earning ample money and becoming the richest person in the world. His hard work paid off. He surely became the richest man, but he never stopped working. He worked day and night and spent his time mostly away from his family. He forgot his friends and stayed away from home for months and years, earning money. He gathered riches and eventually became the richest person on earth. He was satisfied with his effort and outcomes and was considering retiring from his professional life. One night, he was resting on his couch. The whole room was bright and royally decorated. Suddenly, all the lights went off, and it got filled with darkness. An angel with worn wings and a dark robe appeared with a scythe. He was terrified to see that angel standing in front of him. He was the Angel of Death. The angel asked for his hand and told the man, "The time is up! Get ready for a new journey to the afterlife."

The man was stunned. How can it be? He just wanted to retire and have made enough riches to enjoy. How can his time be over so soon? He started weeping.

The man said, "I will give you riches. Give me a day to spend with my family and friends." The angel said no.

"I will give you all my riches if you let me spend an hour with my family," said the man. The angel said no again.

The man started crying profusely. "All my life, I just worked and did not spend time with my family. I don't have memories to go with in the afterlife. Please spare me a minute. I will give you my life and riches. Please!"

The Angel of Death responded, "I don't need your riches. I need your life. You can have one minute, but you cannot spend it with your family."

The man used the minute to write a note for all. He wrote: "Spend your time to make memories, not riches. Memories will stay, but riches won't. My riches can't buy me life. I have missed the biggest treasure of my life, my family."



Finally, the Angel took him to the afterlife.

Moral of the Story of a Rich Man

Overlooking the true value and happiness of life will make you sad later. This man ran behind riches and missed the good times with family and friends.



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4	R-MEDICARE	12,26	9,23
5	RUTC(ENG)	7,14,21,28	4,11,18,25
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THE FUTURE OF AI IN SHIPPING INDUSTRY

Artificial intelligence (AI) can streamline operations in shipping, with significant applications including automated processing and real-time analytics.

Machine learning uses an organization's historical and real-time data to help mitigate risks and serves as a helpful tool that aids in decision-making processes. As the use of artificial intelligence in logistics grows, it becomes more imperative than ever before that organizations adopt these tools to optimize their operations to keep a competitive edge.

AI is a valuable tool in most industries and its potential to become more is hard to ignore. Staying up-to-date on the current state of affairs as the technology grows and develops allows organizations to adopt more AI tools into their operations, especially in shipping and delivery.

Embracing the Power of AI in the Shipping Industry:

As AI grows, it may bypass the need for a continuous feed of instructions to aid its predictions and functionality, allowing technology to lean into automation more. This growth will increase many stakeholders' trust in the technology, contributing to a solid and efficient network build while freeing up valuable resources for organizations to reinvest into inventory, operations and employees.





"IF YOU ARE GOING TO DO SOMETHING, DO IT NOW. TOMORROW IS TOO LATE."

BIRTHDAY - WISHES AUGUST**1st - AUGUST****MR. ARUMUGAM
(INSTRUCTOR- PMA)****4th - AUGUST****MR. VIVEKANANDHAN
(FACULTY - PMA)****25th - AUGUST****MR. THULASIDASSAN
(STAFF - PMA)**

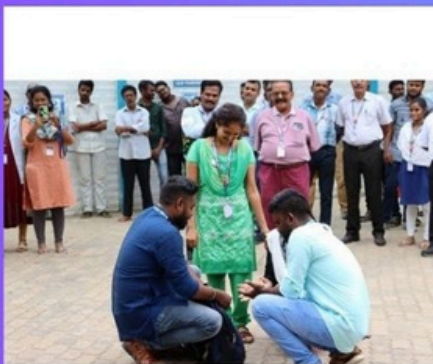
" PMA Wishing you a day full of laughter and happiness and a year that brings you much of Success"



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KARGIL VIJAY DIWAS - 26th JULY

Kargil Vijay Diwas serves as an emblem of courage, sacrifice, and national pride for India. As the country observes this significant day, we remember and honor the indomitable spirits of the brave souls who laid down their lives for the safety and sovereignty of the nation.

Through respectful ceremonies, parades, and cultural expressions,

our Chief Guest, **Mr. Sandirakumaran S Director**

Department of Sainik Welfare, Govt. of Puducherry

We pay heartfelt tributes to the valiant heroes of the Kargil War.

Commemorates India's victory in the Kargil War of 1999. This day honors the bravery and sacrifice of the Indian Armed Forces who fought in the conflict with Pakistan in the high-altitude Kargil district of Jammu and Kashmir. The war, marked by intense battles in harsh conditions, ended with India reclaiming its territory and securing a decisive victory. The day is a tribute to the soldiers' courage and dedication, reminding the nation of their valor and the cost of safeguarding the country's sovereignty.



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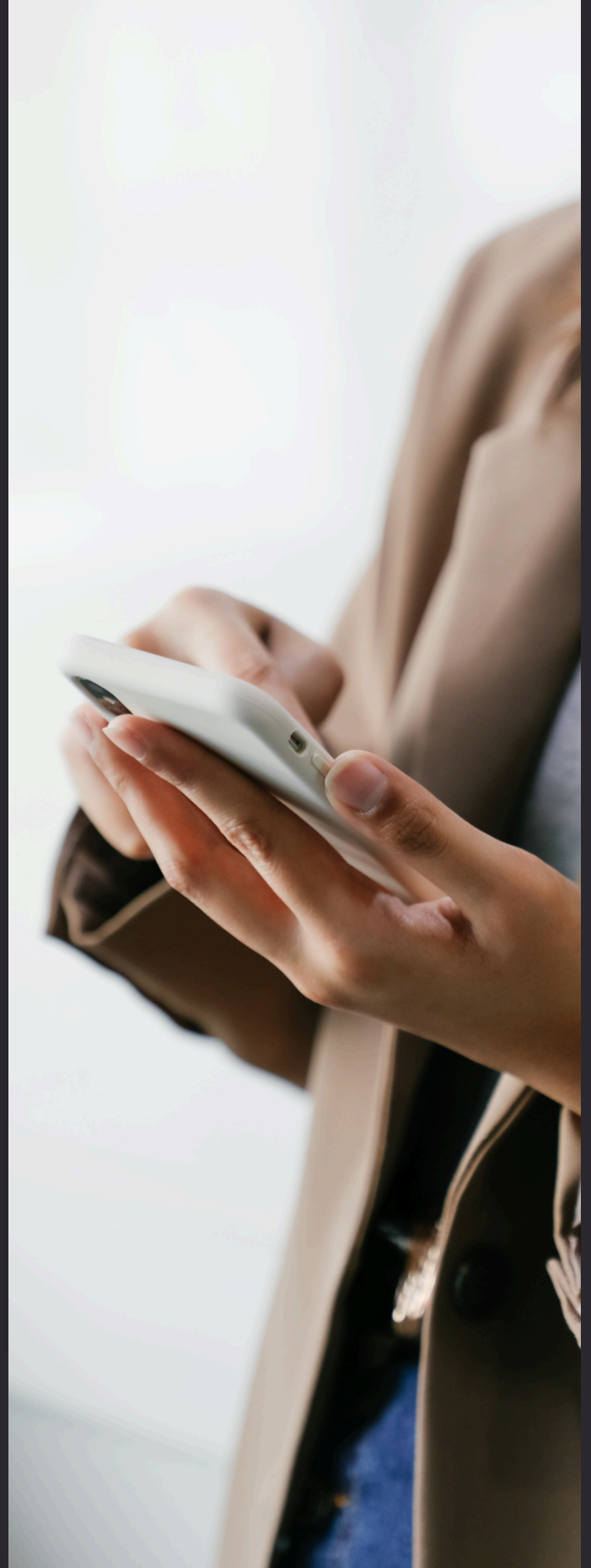
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