



MAURITIUS  
**Maritime Week** 2022

The Preferred Regional Maritime Gateway

Balaclava  
13<sup>th</sup> -15<sup>th</sup> December



**THE EVOLUTION OF MARITIME TRADE  
AND  
BUSINESS OPPORTUNITIES**



*AFZAL DELBAR*  
*Managing Director*  
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V.3.0

# SHIPPING

Physical process of Transporting commodities by:

- Maritime :  
Sea, River



- Air



- Land :  
Truck, Train,  
Men shoulder



# SHIPPING

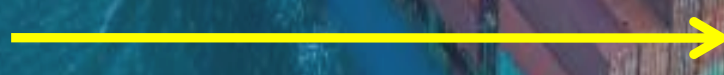
A large cargo ship is shown from an aerial perspective, sailing on a blue ocean. The ship's deck is densely packed with numerous colorful shipping containers in shades of red, blue, yellow, and white. The ship is moving towards the right side of the frame, leaving a white wake behind it.

Most Commonly:

The movement of objects by sea.

Logistics Supply Chain

Production



Consumption

# COMPONENTS OF MARITIME TRADE

- Ships and ships owners
- Seafarers
- Containers



# The International Shipping Industry

90% of world Trade

It is the lifeblood of Global Trade

- Intercontinental Trade
- Bulk transport of Raw material
- Affordable foods
- Petroleum
- Vehicles



**No matter how information technology advances, the world trade cannot be materialized without Ports.**

**This is exactly why every country needs to develop much more advanced and efficient Ports for its prosperity**

**Dr. Mahathir  
Prime Minister of  
Malaysia**

# Sea Transportation

- Most efficient
- The cheapest
- The safest
- The most environmentally friendly



# SHIPPING

A large container ship is shown at sea, viewed from a distance. The ship is dark-colored with the letters 'MSC' visible on its side. The background is a clear blue sky with some light clouds. The ship is filled with many colorful containers stacked on its deck.

## Efficiently:

- 1 Large container ship  
200,000 container loads of cargo  
over a year
- Ships of up to 24,000 container  
in one single voyage
- Car carriers : up to 8,500 vehicles per  
vessel
- 50,000 trading ships in 2022



# TYPES OF SHIPS

- Bulk Carriers
- Livestock Carriers-[Cattle Ships]
- Oil tankers
- LNG Carriers- Liquid Natural Gas
- Car Carriers- PCC (Pure Car Carriers)  
[Can carry up to 8,500 vehicles per vessel]
- Dry cargo vessel
- RORO Roll On Roll Off
  - Transport of vehicles
  - Travel with your vehicles



# TYPES OF SHIPS

- Biggest Container Ship



**[Ever Alot of Evergreen]**

**[24,004 TEU / 400mt x 61,5mt]**

# Major Shipping Lines

OPERATOR		HEADQUARTERS	№ OF VESSEL	TEU	MARKET SHARE
1	Mediterranean Shipping Company (MSC)	<u>Switzerland/ Italy</u>	690	4,471,789	17.4%
2	Maersk	<u>Denmark</u>	732	4,264,693	16.6%
3	CMA CGM	<u>France</u>	581	3,305,667	12.8%
4	COSCO Shipping Lines	<u>China</u>	465	2,882,156	11.2%
5	Hapag-Lloyd	<u>Germany</u>	248	1,760,591	6.8%
6	Evergreen Marine Corporation	<u>Taiwan</u>	204	1,580,977	6.1%
7	Ocean Network Express (ONE)	<u>Japan</u>	201	1,498,154	5.8%
8	HMM Co. Ltd.	<u>South Korea</u>	76	818,075	3.2%
9	Yang Ming Marine Transport Corporation	<u>Taiwan</u>	93	685,189	2.7%
10	Zim Integrated Shipping Services (ZIM)	<u>Israel</u>	138	514,579	2.0%

# TRANSSHIPMENT

- There is no shipping line that can cover all ports around the world in one single service.
- Shipment of goods to an intermediate destination and then another vessel to final destination.
- It allows mother ships to call on major ports and used feeder vessel to less bigger port or less captive cargo

# Major Transshipment ports 2019

Port of:

✓ Singapore	37.2M
✓ Shanghai	43.3M
✓ Shenzhen	25.7M
✓ Hong Kong	21.99M

Other major transshipment ports: Busan,  
Dubai, Guangzhou

# Regional Transshipment ports

- ✓ Port-Louis
- ✓ Toamasina
- ✓ Pointe des Galets
- ✓ Durban

# HOW EUROPE SEES AFRICA

- Africa representing less than 0.9% of global gross tonnage.
- Huge financial losses due to illegal, unreported, unregulated (IUU) fishing.
- Dumping of toxic waste.
- Environmental crimes such as oil spills.
- Illegal bunkering.
- Piracy and armed robbery in eastern and western Africa; terrorism; human, wildlife and drug trafficking.

# **MARITIME TRADE IN AFRICA 2021**

**1.3 billion tons of goods loaded and discharged**

- 5.6% increase in 2020**
- 6.9% of total goods loaded and 5% of total goods discharged world-wide**



# CARRIERS ACTION DURING COVID-19

- Withdrew capacity and empty containers from smaller routes
- Between July 2020 and July 2021 capacity fell by 0.5%
- Causing freight rates; China to Africa increasing from \$ 2,000-\$5000 per TEU
- Asia to Cameroon increase by 340%

## **Freight rates alarm**

- **Dec 2020 to Dec 2021,  
Shanghai to Durban  
From \$ 2,521 to \$ 6,450**
- **From Shanghai to West Africa  
\$ 5,291 to \$ 7,452**

# EXPONENTIAL FREIGHT TO PORT LOUIS

**Average China to Port Louis; 20', 40' & 40HC**

<b>2019</b>	<b>850/ 1700/ 1700</b>
<b>Dec 2020</b>	<b>2900/ 3800/ 6000</b>
<b>Aug 2021</b>	<b>6,011/ 11,981/ 12181</b>
<b>Dec 2022</b>	<b>3,075/ 5,165/ 5,165</b>

# **The Impacts of Covid-19 On the Global Shipping Industry**

**Mainliner services have caused:**

- disruptions to regular schedules,**
- resulting in congested ports and**
- vessels being held at anchor.**

# Shipping line profit 2020-2021

- Maersk- \$18B IN 2021  
against \$3.2B in 2020
- CMA CGM- \$15B in 2021
- Ocean Network Express:  
\$15B in 2021

**Maritime shipping company  
withdrew profits during the  
pandemic are now investing  
in air cargo freighter**



**Maritime shipping has always assisted for the reconstruction of economic development.**

**For the next two years, shipping industry will experience several significant changes.**

- Increase in the number of new tonnage delivered which will ease pressure on with freight rates**
- Freight rates are expected to decrease**
- Charter values will become more stable but contingent upon a steady oil price**

**Shipping has always been able to take advantage of progress to build excellent vessels and, with their multinational crews, serve humanity under the most modern and sophisticated management.**



# **POTENTIAL GAME-CHANGING GREEN TECHNOLOGIES FOR THE FUTURE OF SHIPPING:**

- 1. Propeller Bos Cap Fins: energy- saving device attached to the propeller that can enhance propeller efficiency**
- 2. Solar power for cargo ships : eliminate 50% of shore power**
- 3. AI for ship trim optimization: more efficient and ships operation**
- 4. Improving biofouling management: risk against Maritime environment**
- 5. Solar-powered fishing boat: fibre glass boat with solar power outboard electric engine**

# Potential updates

1. **New maritime communication facilities could soon reduce:-**
  - **the power consumption of vital radio and data transmissions.**
2. **Improved technologies can therefore:-**
  - **directly reduce onboard power consumption and**
  - **boost ships' overall operational efficiencies.**
3. **Modern maritime communication systems provide enormous benefits both:**
  - **seafarers' safety and**
  - **the protection of the marine environment.**

# **Transport & Logistics-Key Trends**

- **New technology,**
- **New market entrants,**
- **New customers expectations and**
- **New business models.**

**Create an environment of Risk and Opportunity.**

# Major challenges of Shipping Industry

## 1. Security



## 2. Environment



# OTHER CHALLENGES

- Shortage of human resources at sea: Emphasis should be laid on the training of mariners/seafarers.
- Adapt to accommodate female seafarers
- Show staff need to be reassessed
- 30% of human resources need to be replaced in the 2 to 3 years



# THREAT TO MARITIME SHIPPING

- Railway cargo container
- Truck cargo
- Air cargo

## Rail Freight:

Position between sea and air

- Less costly than airfreight

$v/s$

faster than shipping by sea

- From China to Europe 15  
and 18 days

# • Railway cargo containers

-China \$1.4B

-USA \$ 429M

## Exporters of Railway Cargo Containers (2020)

China	34.2%
United States	10.5%
Guyana	5.37%
Netherlands	4.62%
Poland	3.94%
SouthKorea	3.66%
Germany	3.43%
France	3.3%
SouthAfrica	2.49%
Slovakia	2.4%
Thailand	2.26%

## Importers of Railway Cargo Containers (2020)

United States	12.2%
Germany	9%
France	6.18%
Japan	4.35%
Netherlands	4.1%
South Korea	3.52%
Jamaica	3.43%
Canada	2.8%



- **AIRCARGO**

- **Airline around the world boosted air cargo capacity in response to global transportation needs.**
- **Has been very effective during COVID-19 pandemic**
- **The industry is now shifting focus to the evolving needs of our cargo demands and network in the post pandemic years ahead**

# TOP CARGO AIRLINES 2021

1	Federal Express
2	Qatar Airways
3	United Parcel Service
4	Emirates
5	Korean Air
6	Turkish Airline
7	Cargolux
8	Atlas Air
9	Cathay Pacific Airways
10	China Southern Airlines

Cargolux:  
Project transport of huge equipment



- **ROAD TRANSPORT**

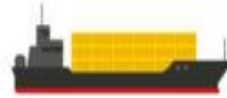
Africa is making huge investment for road transport facilitating trade among African countries from South Africa to Egypt

- **Protocols of third country corridors in regional alliance**

# CORRIDOR

1. Northern Corridor Mombasa: Nairobi – Bujumbura [2,080km]
2. Central Corridor: Dar es salam – Lusahunga [2,170km]
3. DaR ES SALAM[ TAZARA] corridor: Morogoro- Tunduma [1,100km]
4. Coastal corridor: Mingoyo- Lamu [1,500km]

# FREIGHT TYPES IN COMPARISON



Speed



Transport volume



Price



# **OPPORTUNITIES OF BUSINESSES IN MARITIME INDUSTRY**



- ✓ **Feeder Vessel**
- ✓ **Ship Stores**
- ✓ **Offshore Supply**
  - **Water Barge**
  - **Fuel Barge**

# FEEDER VESSEL

## CARGO NETWORK

**Ship with average capacity of 300TEU that can reach minor ports.**



# SHIP STORES

Ship chandler is a wholesales dealer specialized in supply of food items or equipment for ships known as ship store





# OFFSHORE SUPPLY

**A vessel especially designed to supply ships on high seas.**



# WATER BARGE

Supply consumable water on high seas.



# TANKER BARGE

Supplies of fuel on high seas



# Setting the Business

**1. KNOW HOW**

**2. PARTNERS**

**3. INVESTMENT**



**Investment: USD 2 M**

Thank you!  
Jim

