



Session 2

INTERMODAL TRANSPORT

*There's no single answer to logistics
security, affordability and
decarbonisation.*

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GENERAL MANAGER
ALPE ADRIA SPA



Tuesday 28 to Thursday 30 May 2024
Generali Convention Center Trieste, Italy



Trieste port as strategic logistics hub



Railway in the DNA



The extended intermodal network




Alpe Adria ad booster of intermodality


TRAINS
OPERATED
8.979


TONS HANDLED
55,6 MLN


N° TEUS
852.193


N° OF RO-RO
UNITS
298.570

1° 
port in Italy
for rail traffic

6° 
port in Europe for
short sea shipping

1° 
port in Italy
by total tonnage

8° 
port in Europe
by total tonnage

1° 
oil port
in the
Mediterranean

PORT OF
TRIESTE

Enlargement
and extension
of the cruise
terminal

New Ro-Ro
multipurpose
terminal

Construction
of Pier VIII

Extension of
Pier V and VI

Extension
of Pier VII

 first step
 second step
 ongoing projects

TRIESTE AND ITS PORT AT THE
TOP OF THE ITALIAN AND EUROPEAN RANKINGS

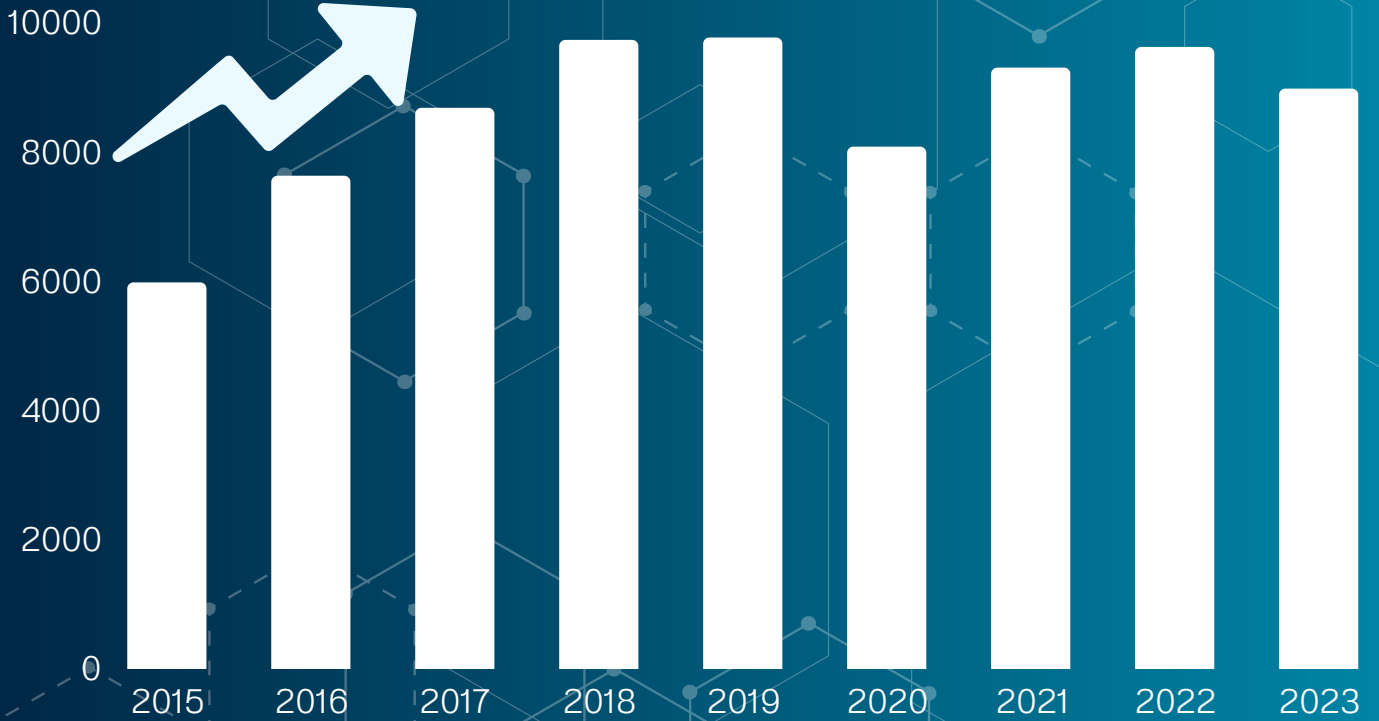
TRIESTE PORT AS STRATEGIC LOGISTICS HUB



MARITIME ROUTING VIA TRIESTE WITH RESPECT TO
NORTHERN EUROPEAN PORTS

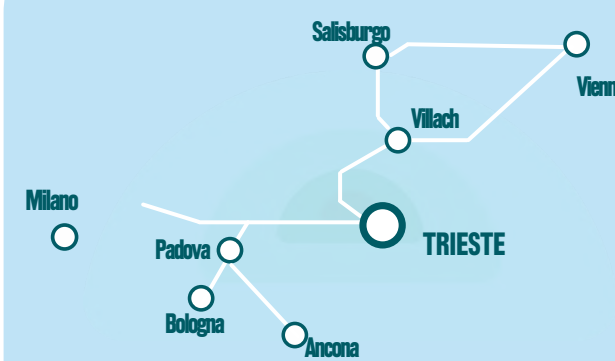
RAILWAY IN THE DNA

THE STRONG RAILWAY VOCATION OF TRIESTE PORT SYSTEM



EVOLUTION OF RAIL TRAFFIC FROM/TO THE PORT OF TRIESTE
TOT. TRAINS MOVED PER YEAR

1998



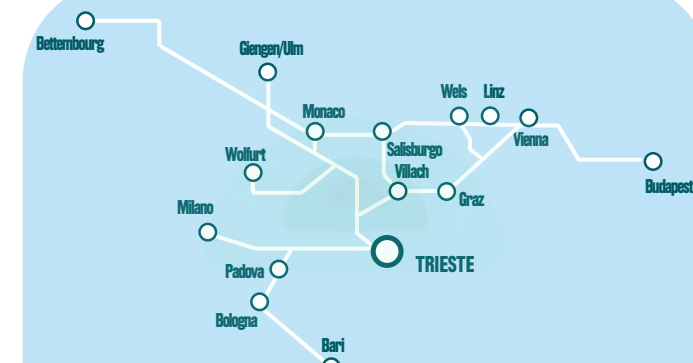
76.355 TEU trasportati

1.449 Treni operati

Imprese Partner:



2014



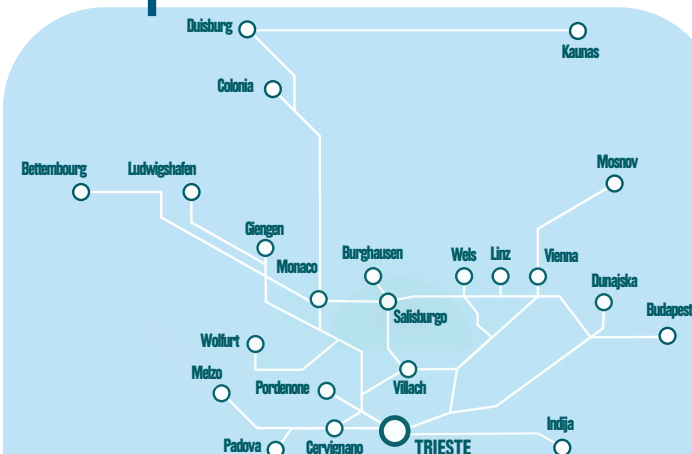
213.088 TEU trasportati

3.157 Treni operati

Imprese Partner:



2023



579.371 TEU trasportati

5.221 Treni operati

Imprese Partner:



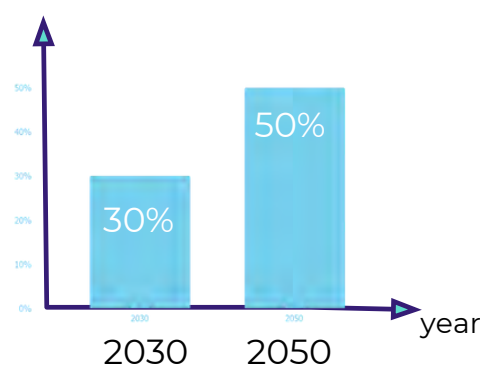
THE EXTENDED INTERMODAL NETWORK



MODAL SHIFT

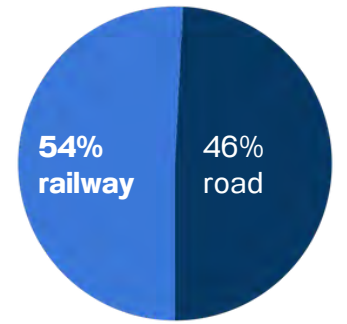
Target UE

Modal shift of rail traffic to be achieved by 2030 and 2050



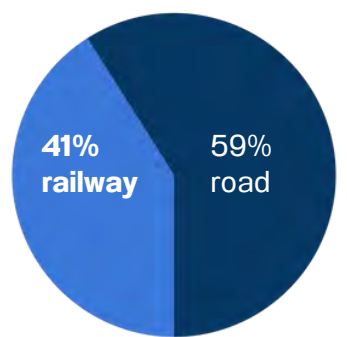
Porto of Trieste (data 2023)

Container sector (TEU)



EU modal shift target 2050 already achieved

Intermodal Transport Unit (ITU)



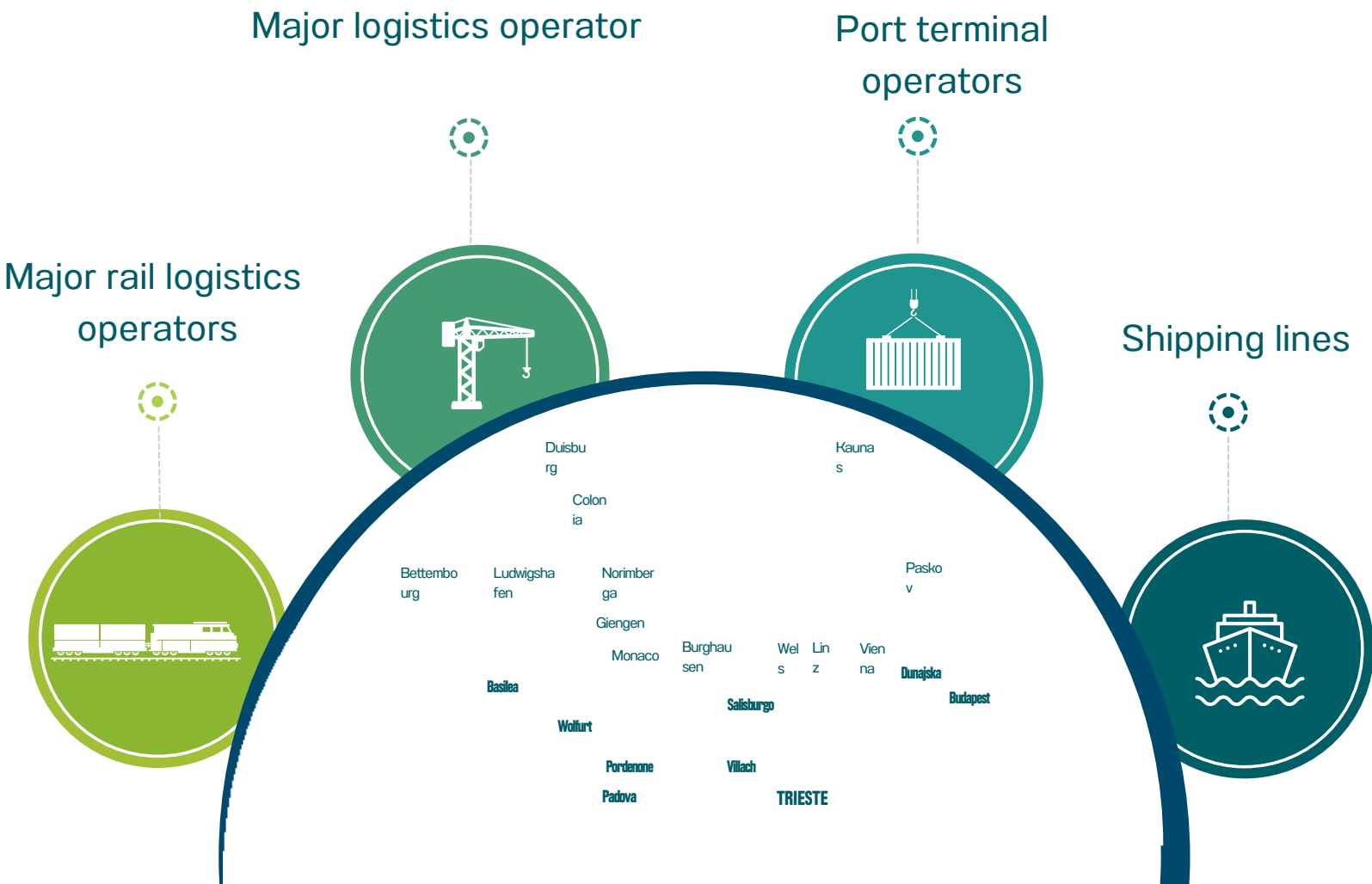
EU modal shift target 2030 already achieved

ALPEADRIA AS BOOSTER OF INTERMODODALITY

2023 FIGURES



Aggregator and facilitator



55,5 Mln €

Risparmio in termini di costi esterni nel 2023

2022

RIDUZIONE EMISSIONI DI CO2 NEL 2022

97.641 Ton

CAMION TRASFERITI DA GOMMA A FERROVIA 2022

283.000

2023

RIDUZIONE EMISSIONI DI CO2 NEL 2023

89.156 Ton

CAMION TRASFERITI DA GOMMA A FERROVIA 2023

252.000



Key trends in maritime trade



The Disruptive events in logistics domain



Short term change course



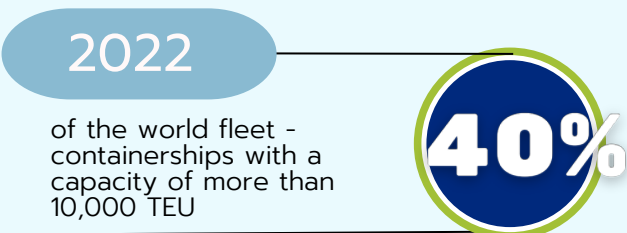
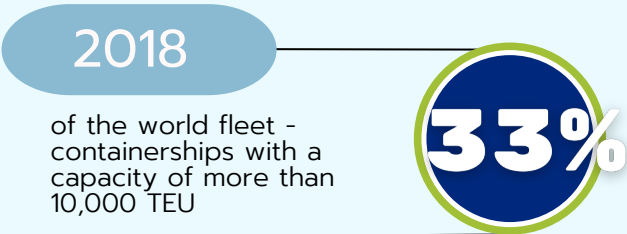
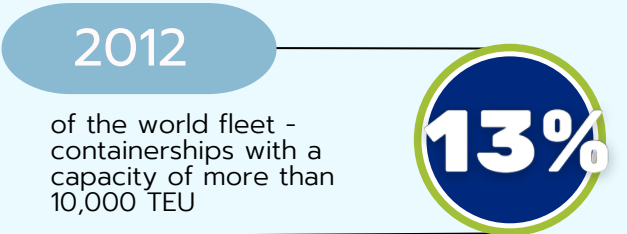
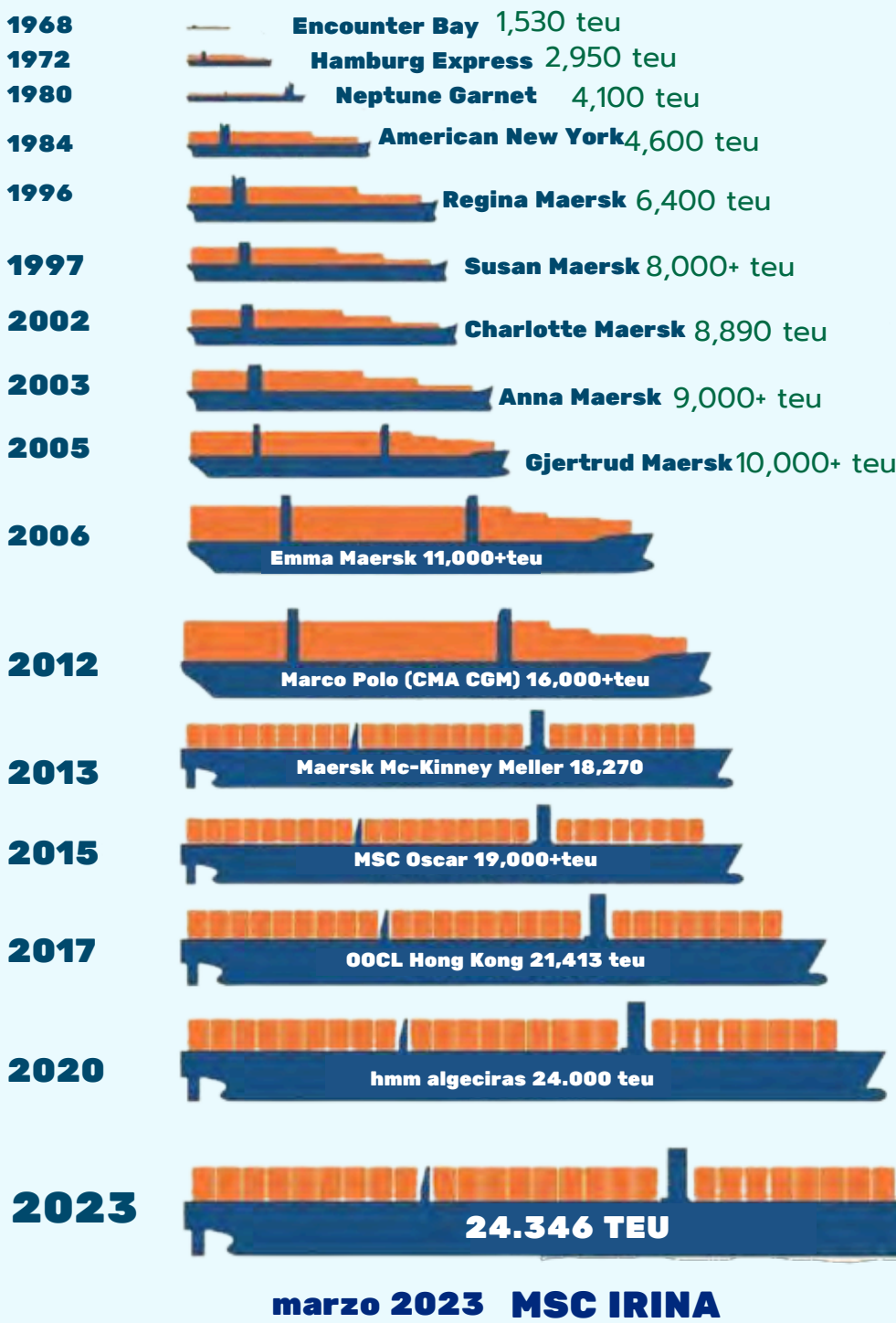
Major supply chain trends to watch



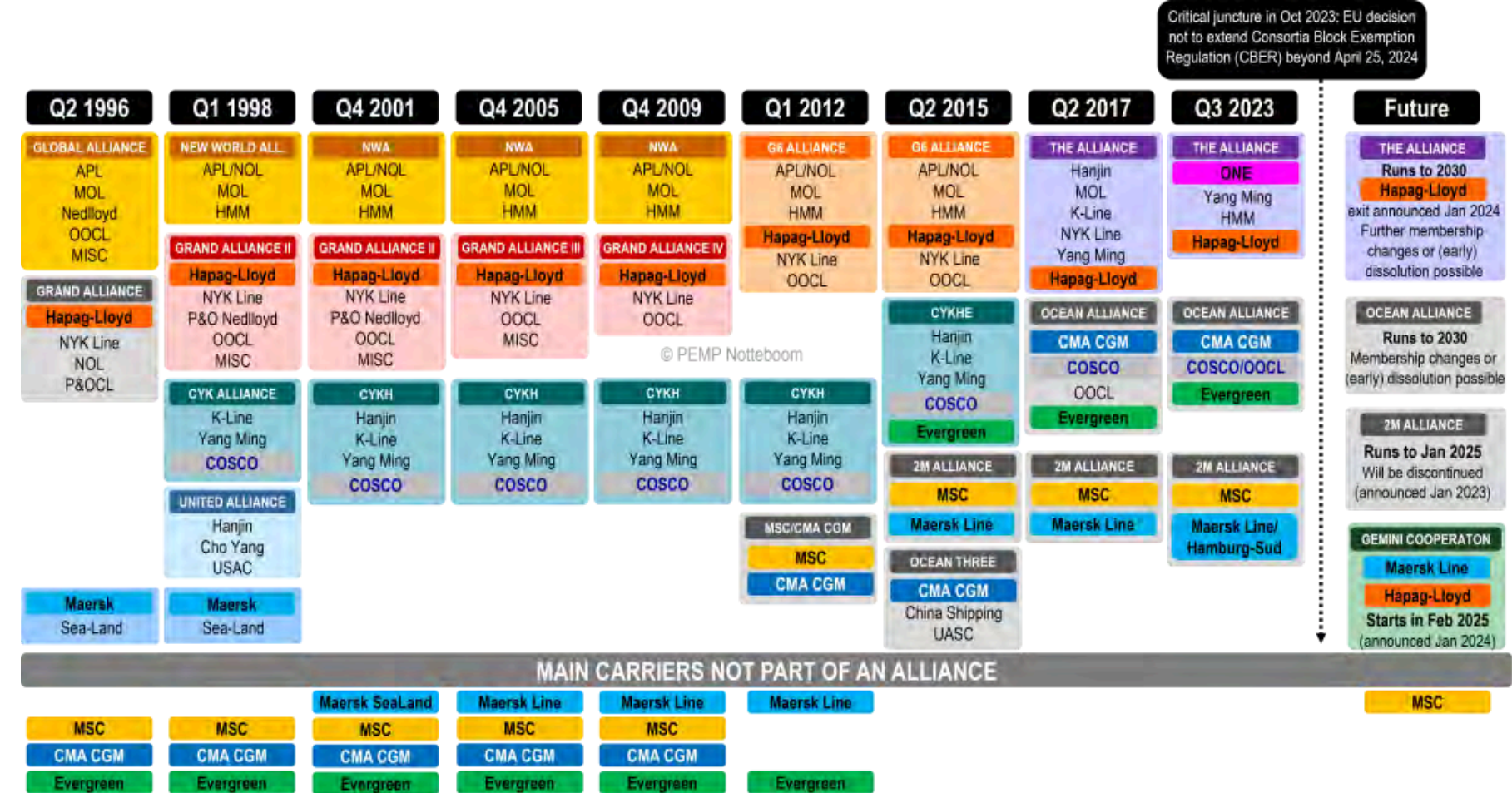
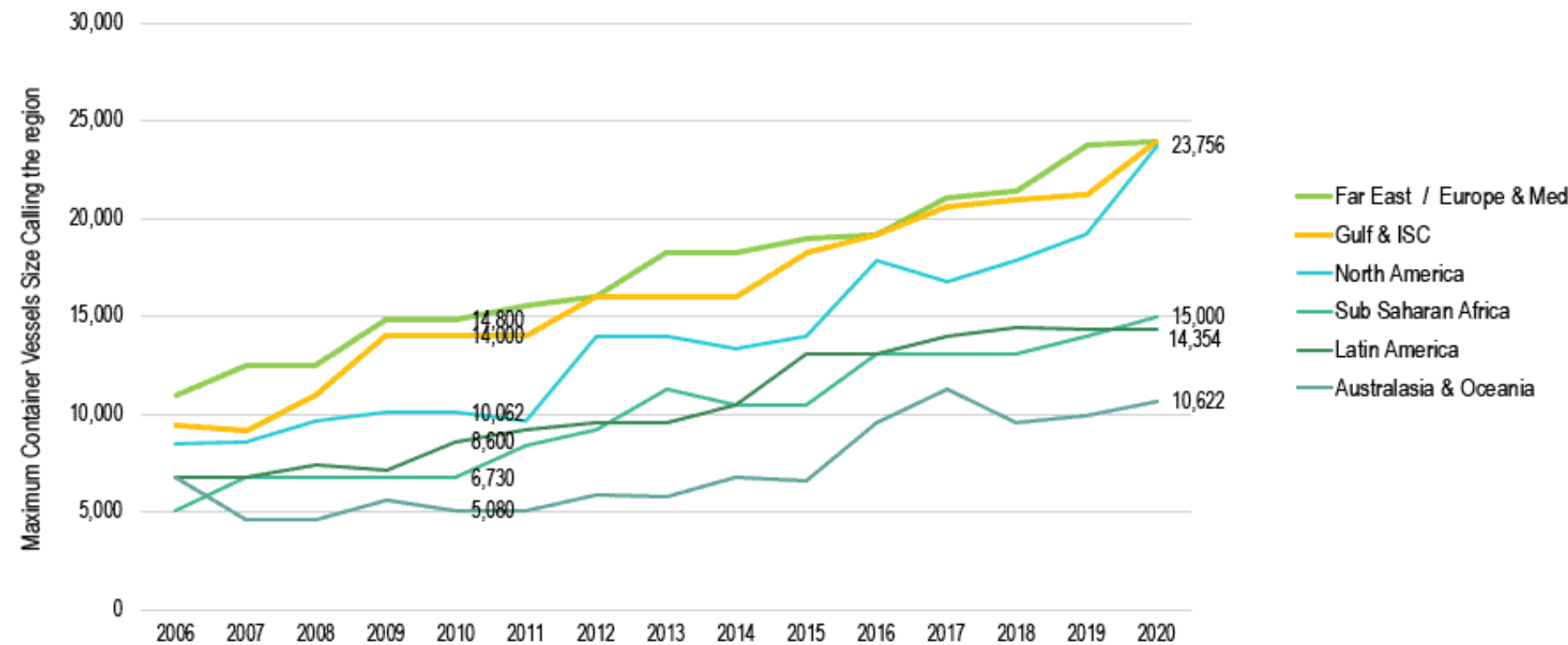
Key Takeaways for the Intermodality

KEY TRENDS IN MARITIME TRADE

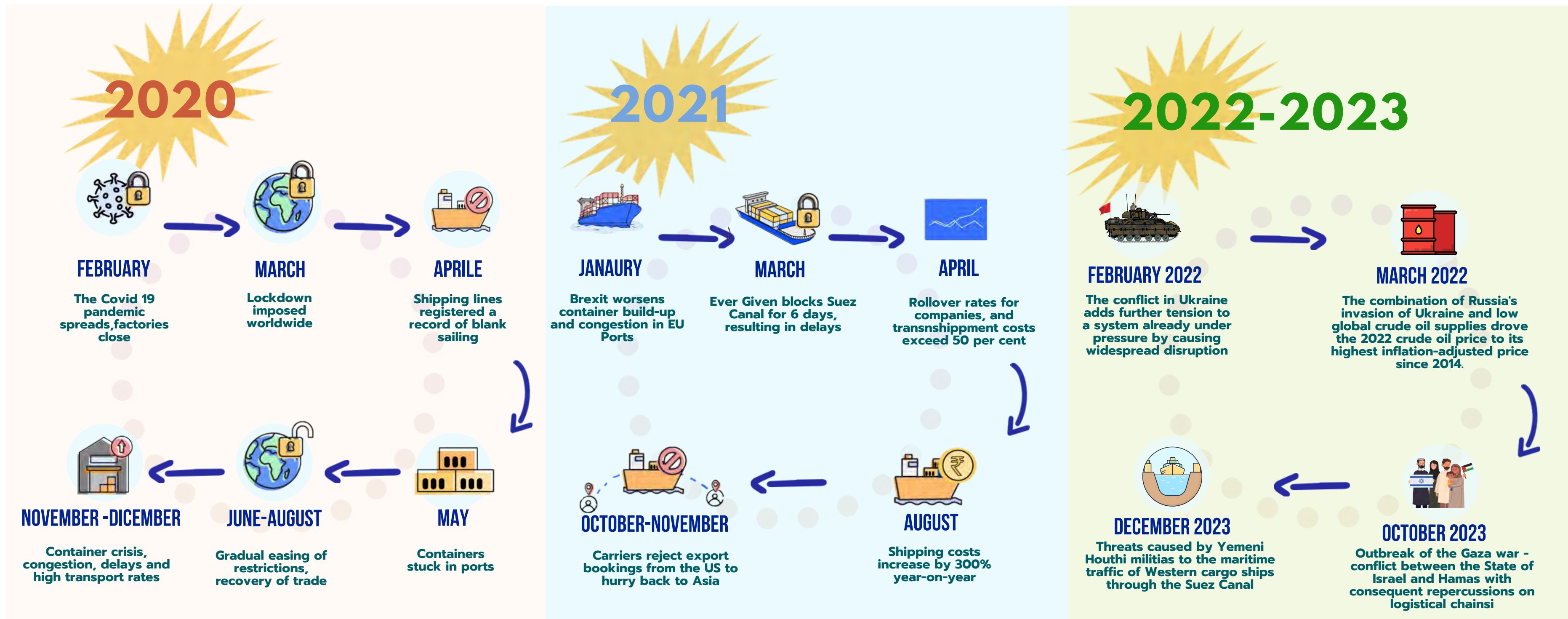
CONTINUOUS INCREASE OF CAPACITY VESSEL



Maximum Container Vessel Size Call per Region (2006-2020)



THE DISRUPTIVE EVENTS IN LOGISTICS DOMAIN

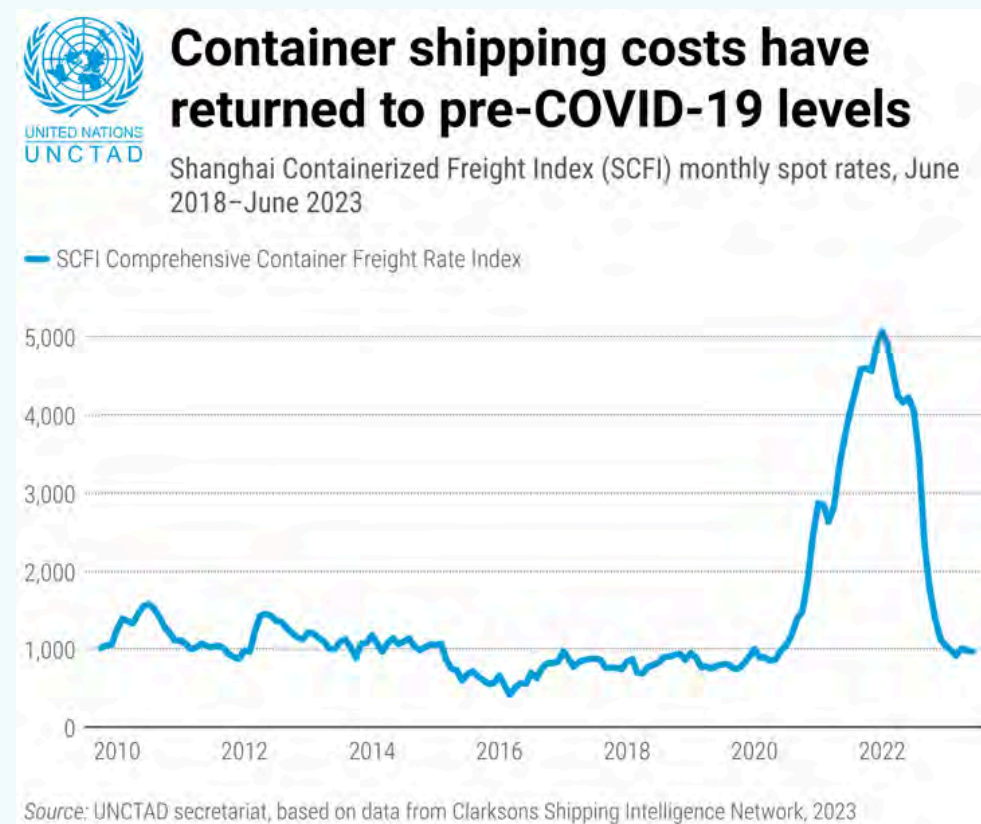


SHORT TERM CHANGE COURSE

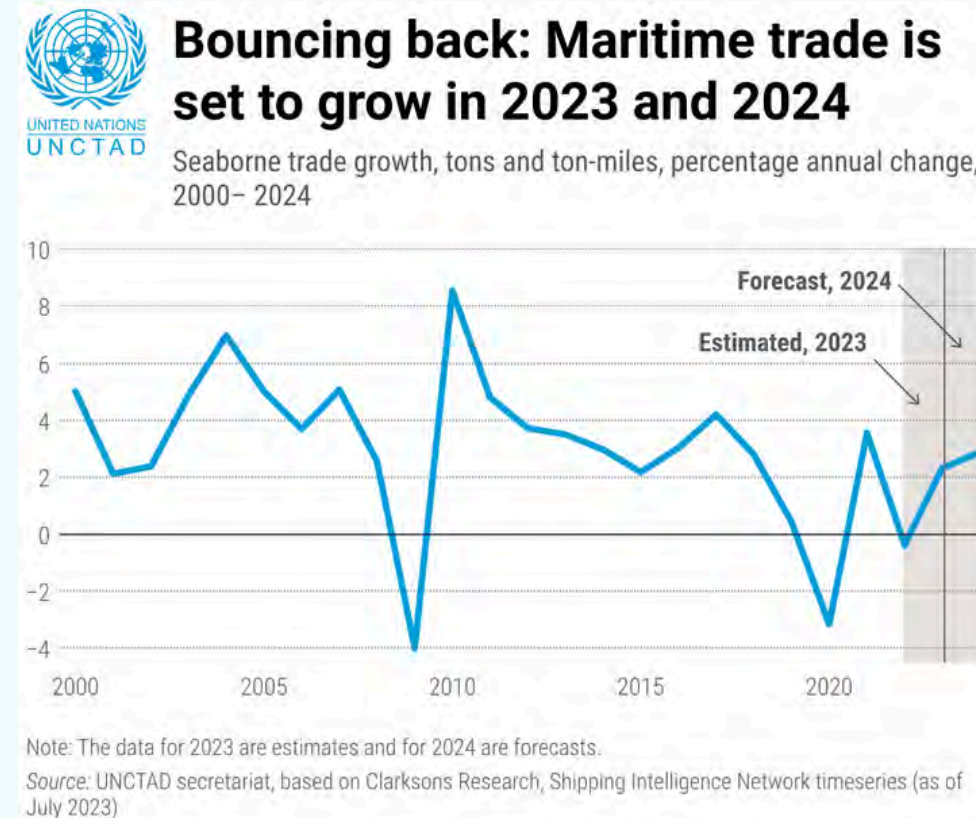
To prepare ourselves for the future, we need transport and supply chains to be more efficient, more resilient and much more environmentally friendly.

We must change course and we must do it now

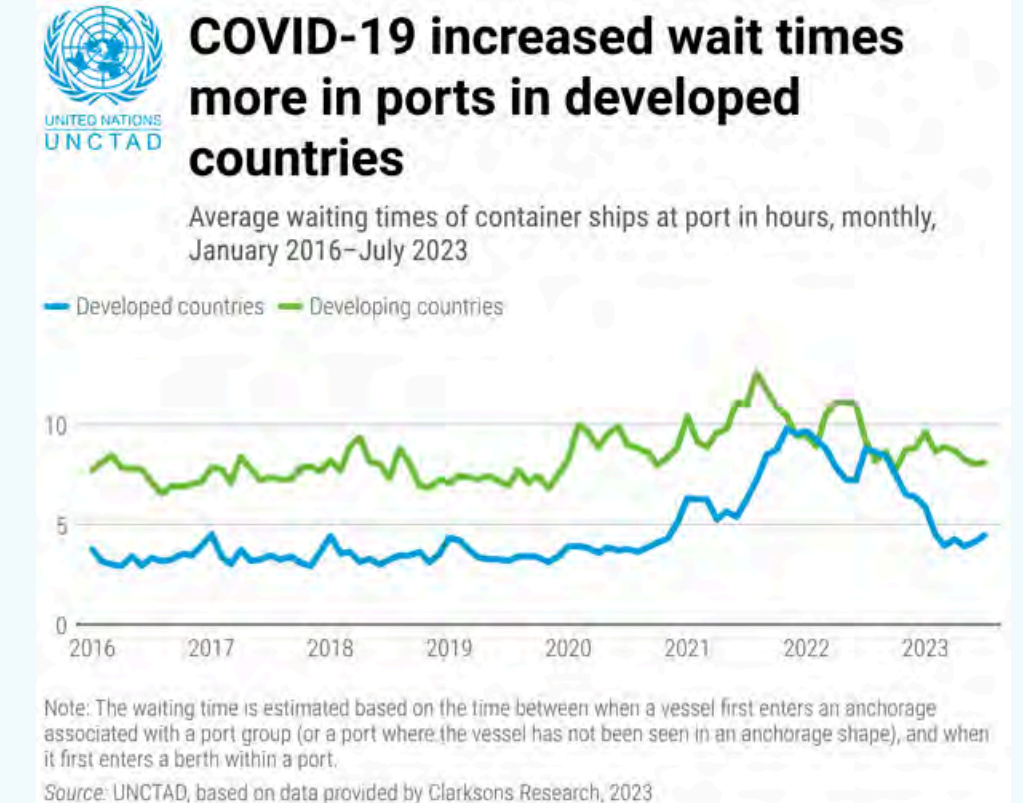
THE WORLD MUST PREPARE FOR AN UNPREDICTABLE FUTURE WITH VOLATILE SHIPPING COSTS



URGENT NEED TO MINIMISE RISKS AND UNCERTAINTIES FOR GROWTH



COUNTRIES SHOULD IMPROVE PORT PERFORMANCE AND CONNECTIVITY



✓ -77 %

Decrease in freight rates on the main routes, -77% comparing June 2022–June 2023. Return to pre-pandemic levels

↑ +2,4%

Maritime trade volumes dipped 0,4% in 2022 but are on track for a 2,4% rebound in 2023 and above 2% growth through 2028

🕒 4vs8 hrs

Developed countries record an average of 4 hrs of waiting time of container ships in port, while developing countries an average of 8 hrs

MAJOR SUPPLY CHAIN TRENDS TO WATCH

SUSTAINABILITY

Supply chains and operations are not as sustainable as stakeholders would like.

NEARSHORING

Many manufacturers are looking to mitigate risks from macroeconomic factors. Nearshoring is not only a trend but also a long-term strategy that represents a strategic recalibration.

COST CONTROL DOMINATES

Supply chains and operations are becoming increasingly expensive. An intensified focus on cost control is the trend that I predict will dominate the domains of supply chain and logistics.

AI WAVE

Recent research notes AI and automation have already been particularly reliable. For the supply chain, AI will focus on crunching numbers and identifying patterns faster and at a much higher volume than we've seen before.

GEOPOLITICAL RISK MANAGEMENT

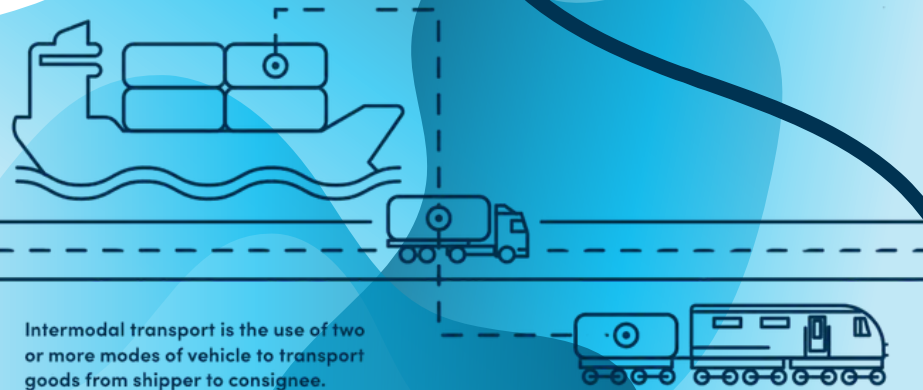
Geopolitics remains a pivotal force in shaping supply chains. Protectionist industrial policy. It is one thing when businesses make a risk management decision to nearshore, friendshore, etc.

SUPPLY CHAIN DIGITIZATION ACCELERATES

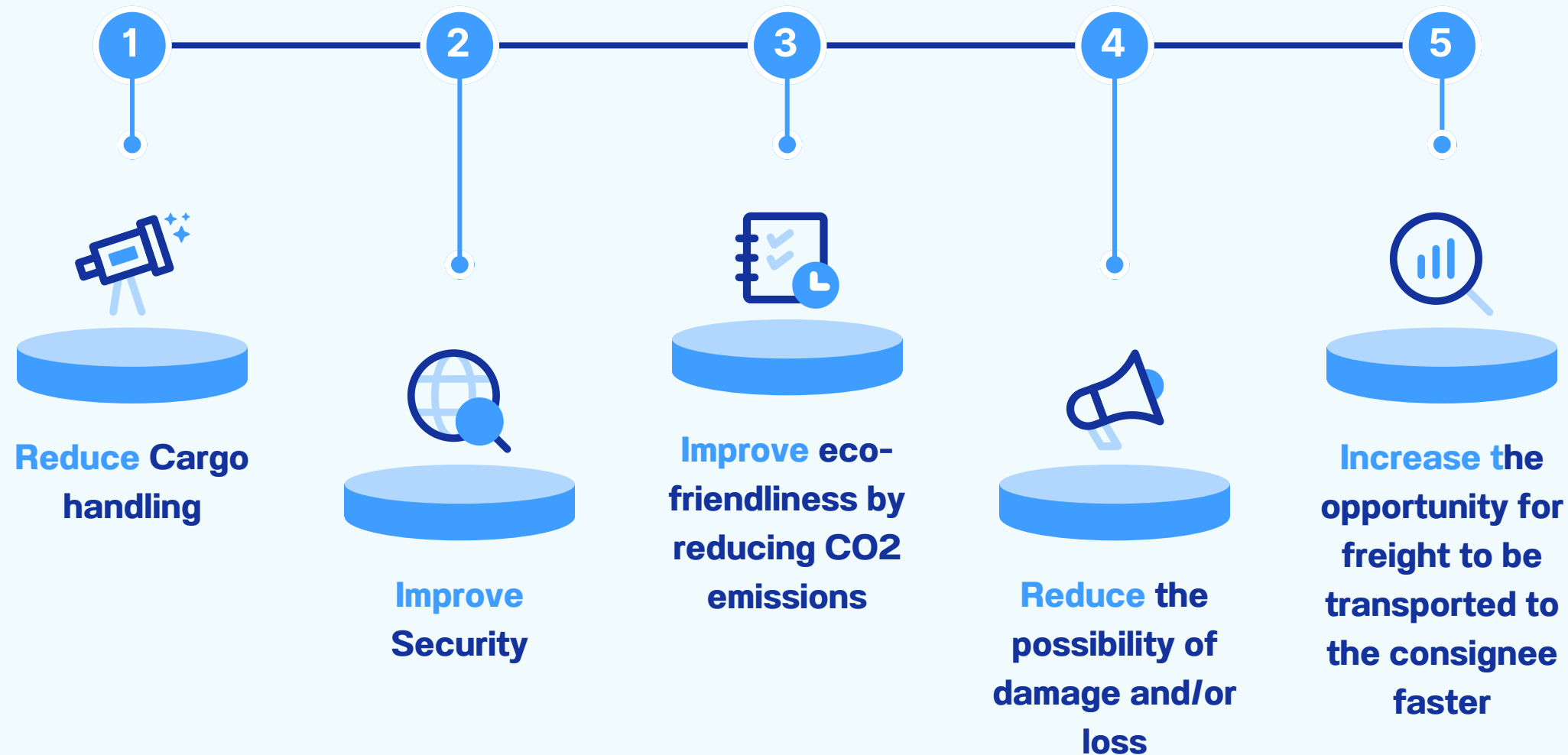
Supply chain digitization will continue to advance rapidly, particularly with the emergence of generative artificial intelligence (GenAI). GenAI will drive the next era of productivity with an estimated \$1-trillion and growing adoption of digital technologies to improve efficiency, visibility, and traceability.

TRENDS / CHALLENGES

KEY TAKEAWAYS FOR THE INTERMODALITY



INTERMODAL ADDED VALUES FOR LOGISTICS PROVIDERS



BUILD PARTNERSHIPS



PREPARE FOR DISRUPTION



DIVERSE TALENT WILL SOLVE OLD ISSUES



ESTABLISH DSS BASED ON AI FRAMEWORK

Drivers to innovate

KEY TAKEAWAYS FOR THE INTERMODALITY

Promote suitable business and operational models to facilitate more high-performance and optimized management of existing infrastructure and logistics resources through the following drivers:

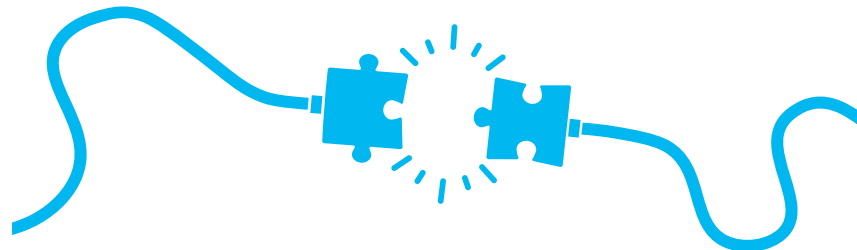
Intermodal transport is the use of two or more modes of vehicle to transport goods from shipper to consignee.



BUILD PARTNERSHIPS

Maintain strong relationships with providers in your network who can connect you to spot capacity in a pinch.

HORIZONTAL COLLABORATION



“OPENRAIL” DRIVERS



IMPLEMENT

a multi-segment and multi-modal transport structure between corridor nodes



INTEGRATE

develop and optimise the existing transport networks along the corridors



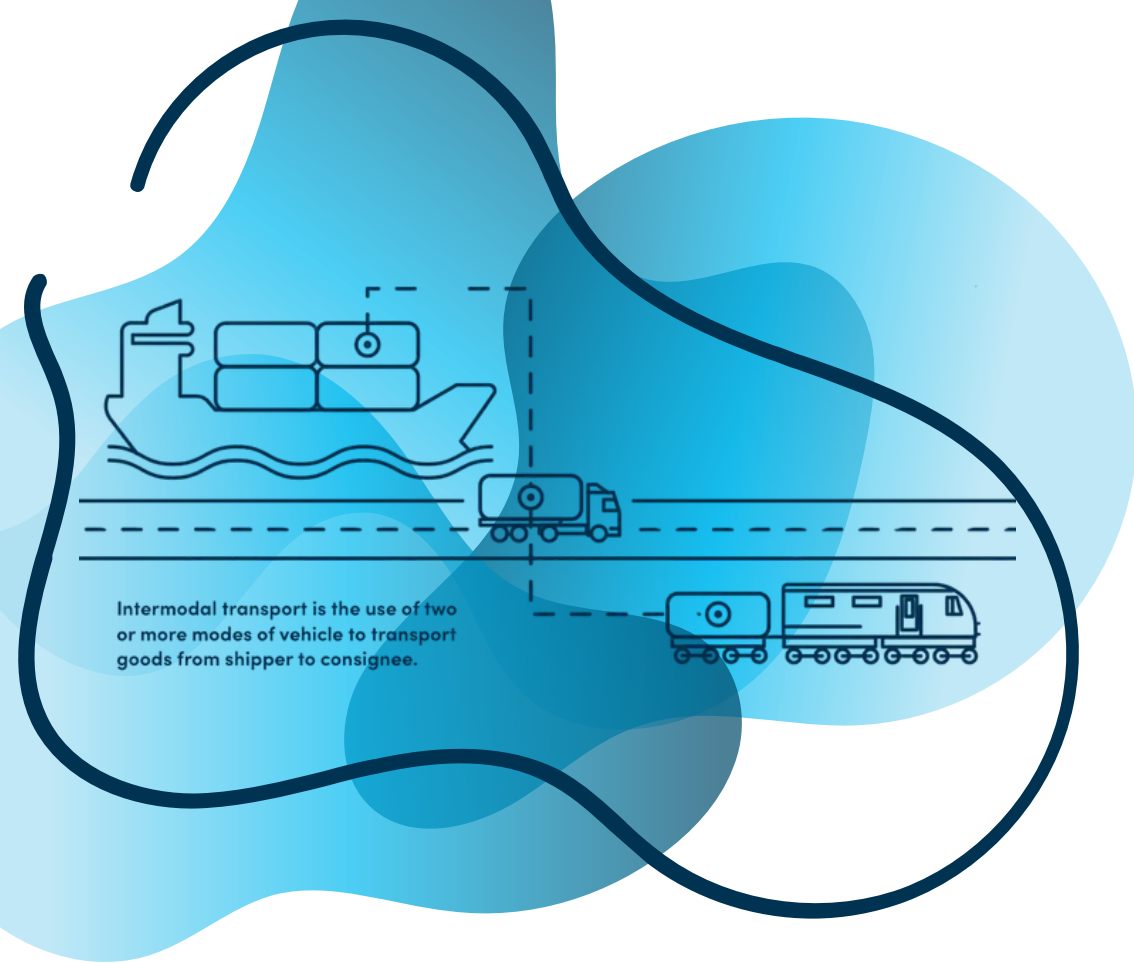
ENHANCE

modal rebalancing between road and rail for existing and future national and international traffic



SUPPORT

quickly the improvements achieved with national and European investments



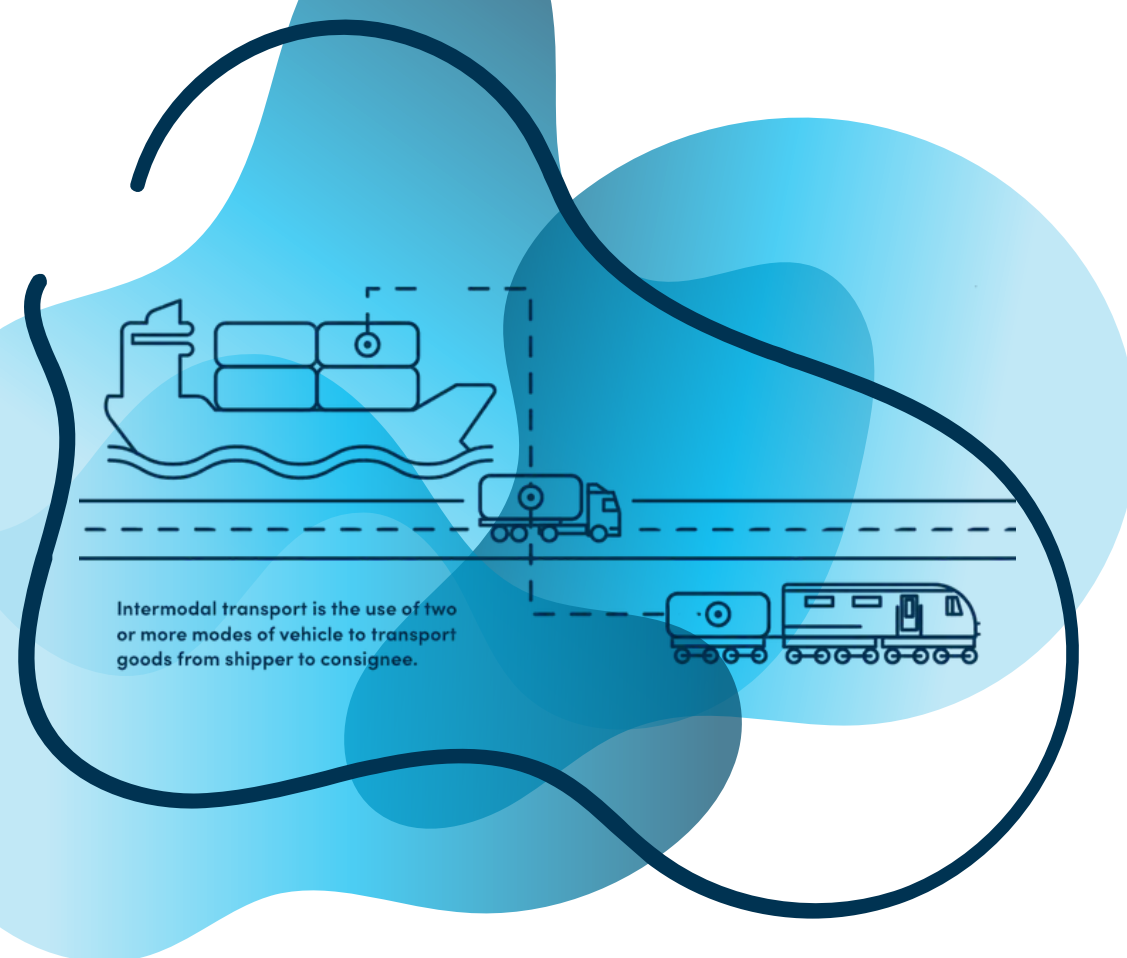
PREPARE FOR DISRUPTION

A confluence of macroeconomics, geopolitical turmoil, and climate change will require close collaboration with forwarding partners to understand how transit times and costs are impacted by these events. When it comes to supply chain, the status quo is no more.

KEY TAKEAWAYS FOR THE INTERMODALITY

Future strategies aim at the realisation of multimodal corridors based on an overall management of the infrastructure-operational-trade system, identifying possible barriers, bottlenecks and operational risks.





Intermodal transport is the use of two or more modes of vehicle to transport goods from shipper to consignee.



DIVERSE TALENT WILL SOLVE OLD ISSUES

Intermodality is an industry that's had to adapt in the face of many black swan events in the past few years. This has not only changed the way the workforce experiences their jobs but how a new generation of employees is seeing the value of the industry.

The advantages of diverse work teams can't be overlooked.

These are big flexes for attracting new talent.

A new generation seeks goal alignment and a greater sense of social and environmental responsibility.

KEY TAKEAWAYS FOR THE INTERMODALITY

A variety of background and skills to operate and grow is essential!

Software Engineering

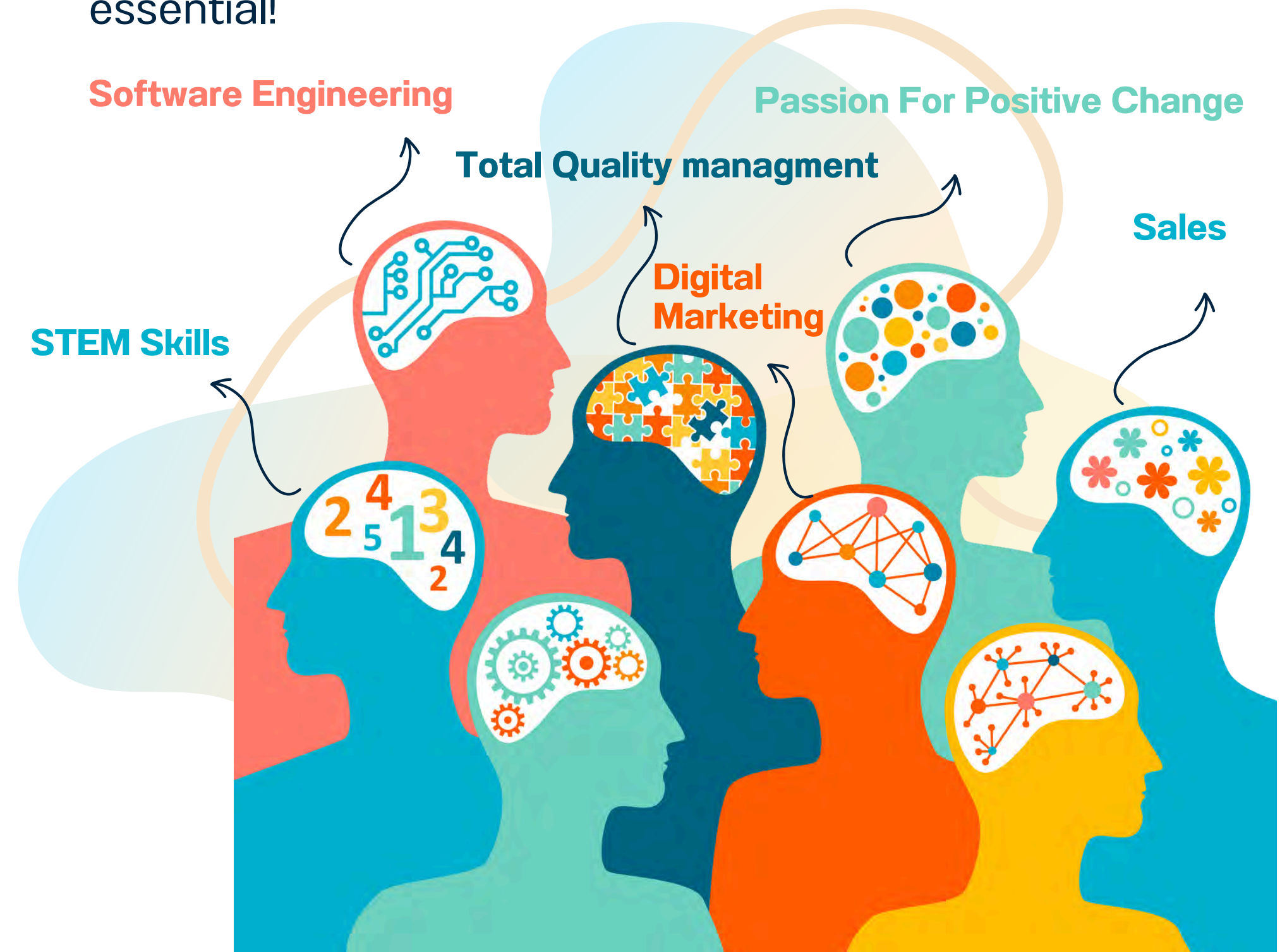
Passion For Positive Change

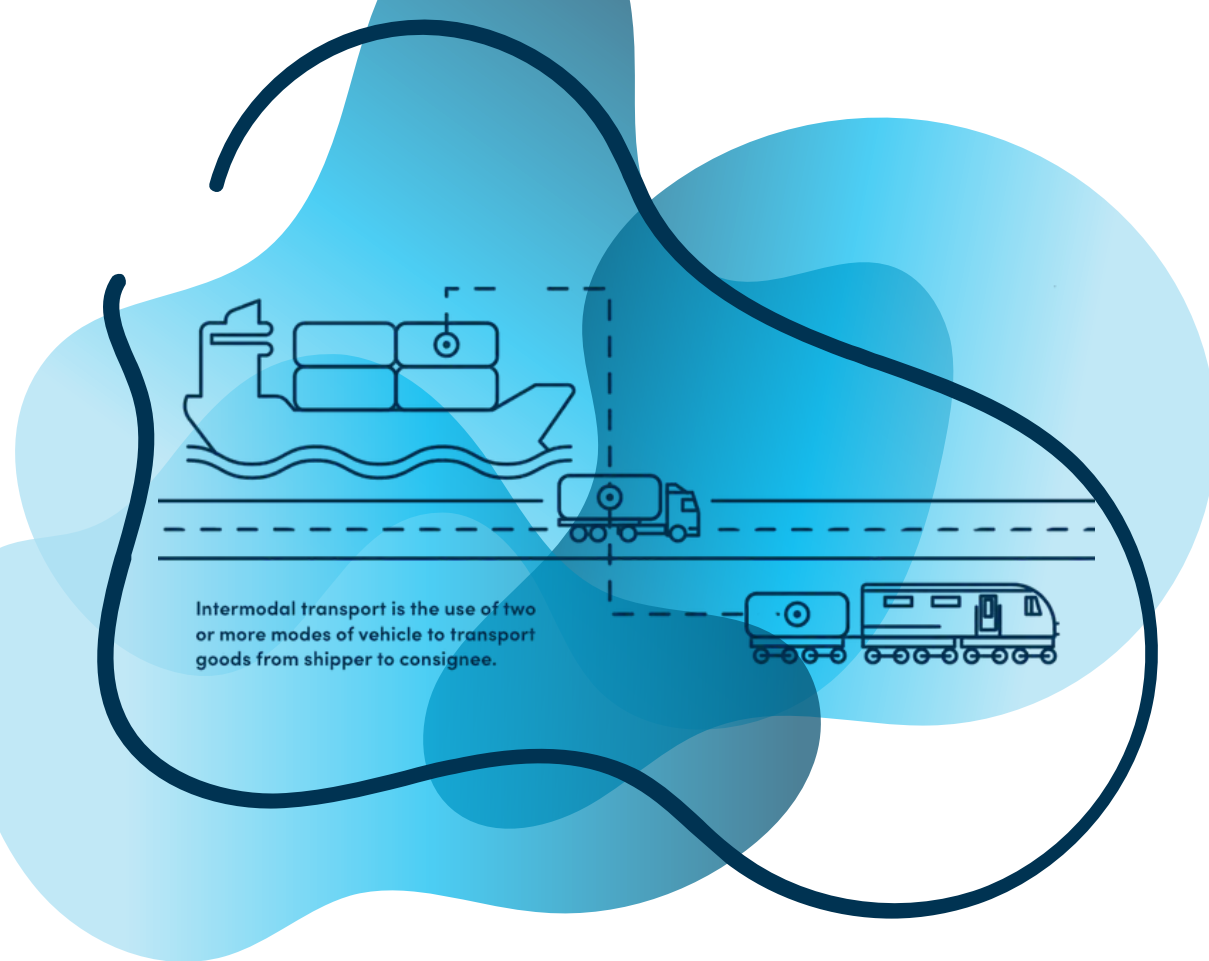
Total Quality management

Sales

STEM Skills

Digital Marketing





Intermodal transport is the use of two or more modes of vehicle to transport goods from shipper to consignee.



ESTABLISH AN AI FRAMEWORK

(DSS, real-time optimisation of resources on lines and nodes, simplification of how journeys are organised and booked)

Start with a responsible AI framework. Supply chain executives looking to integrate GenAI in an effective, ethical, and efficient manner should follow a responsible AI framework based on these six principles: Resilience – Guarantee the security of data used by AI system components and the algorithm to safeguard against attacks and breaches.

KEY TAKEAWAYS FOR THE INTERMODALITY



Let's keep looking!

Thank you!

