



SERVICE GUIDE

Automotive Business Headquarters

July 2023





Bringing value to life.

C O N T E N T S

Introduction to The NYK Group

01 NYK Automotive Business Global Profile

- ❶ RoRo Ocean Transportation Services
- ❷ Portfolio of Land-Based Logistics Services

02 Quality Management

- ❶ NYK Quality Standard & KPIs
- ❷ NYK EV Handling Standards

03 NYK Integrated Finished Vehicle Logistics Solutions

- ❶ Flexible and Tailor-Made Solution Development – Key Elements
- ❷ Business Cases
- ❸ Tailor-Made Solution Development

The NYK Group is a trusted international mega-carrier for land, ocean and air transportation



811
vessels

Includes vessels co-owned and LNG carriers and cruise ships that are owned by joint-venture companies as of the end of March 2023



137
years

Mitsubishi Mail Steamship Company and Kyodo Unyu Kaisha merged in 1885 to form Nippon Yusen Kaisha (NYK)



35,502
employees

Worldwide, as of March 2023



<https://www.nyk.com/english/ir/library/fact/>

Pure Car and Truck Carrier Fleet

104
vessels

Global Pure Car and Truck Carrier Fleet Ranking

Rank	Operator	Vessels	Share (%)
1	WWL	109	16.1%
2	NYK Line	104	15.3%
3	Mitsui O.S.K. Line	83	12.2%
4	K-Line	75	11.0%
5	GLOVIS	74	10.9%
6	GRIM	55	8.1%
7	HAL	36	5.3%
8	NEPTUN	15	2.2%
9	Toyofuji Shipping Co., Ltd.	14	2.1%
10	GSL	11	1.6%
11	UECC	10	1.5%
12	ARC	9	1.3%
13	AN JI	8	1.2%
13	ECL	8	1.2%
13	SALLAU	8	1.2%
-	Others	60	
Total		679	

Source : Hesnes Shipping AS "The Car Carrier Market 2022"

Note : 1 : This table includes only vessels with a capacity of 2,000 cars or more.

2 : The number of vessels of WWL include the number of vessels of EUKOR affiliated with WWL Group.

Number of Automobile Logistics Business Sites

38
locations



Fleet Size (Ocean Network Express)

1,557k
TEUs



Number of Warehouses

374
locations



as of May 2023

[More Information](#)

Medium-Term Management Plan,

"Sail Green, Drive Transformations 2026 — A Passion for Planetary Wellbeing"

<https://www.nyk.com/english/profile/plan/>



01

NYK Automotive Business Global Profile

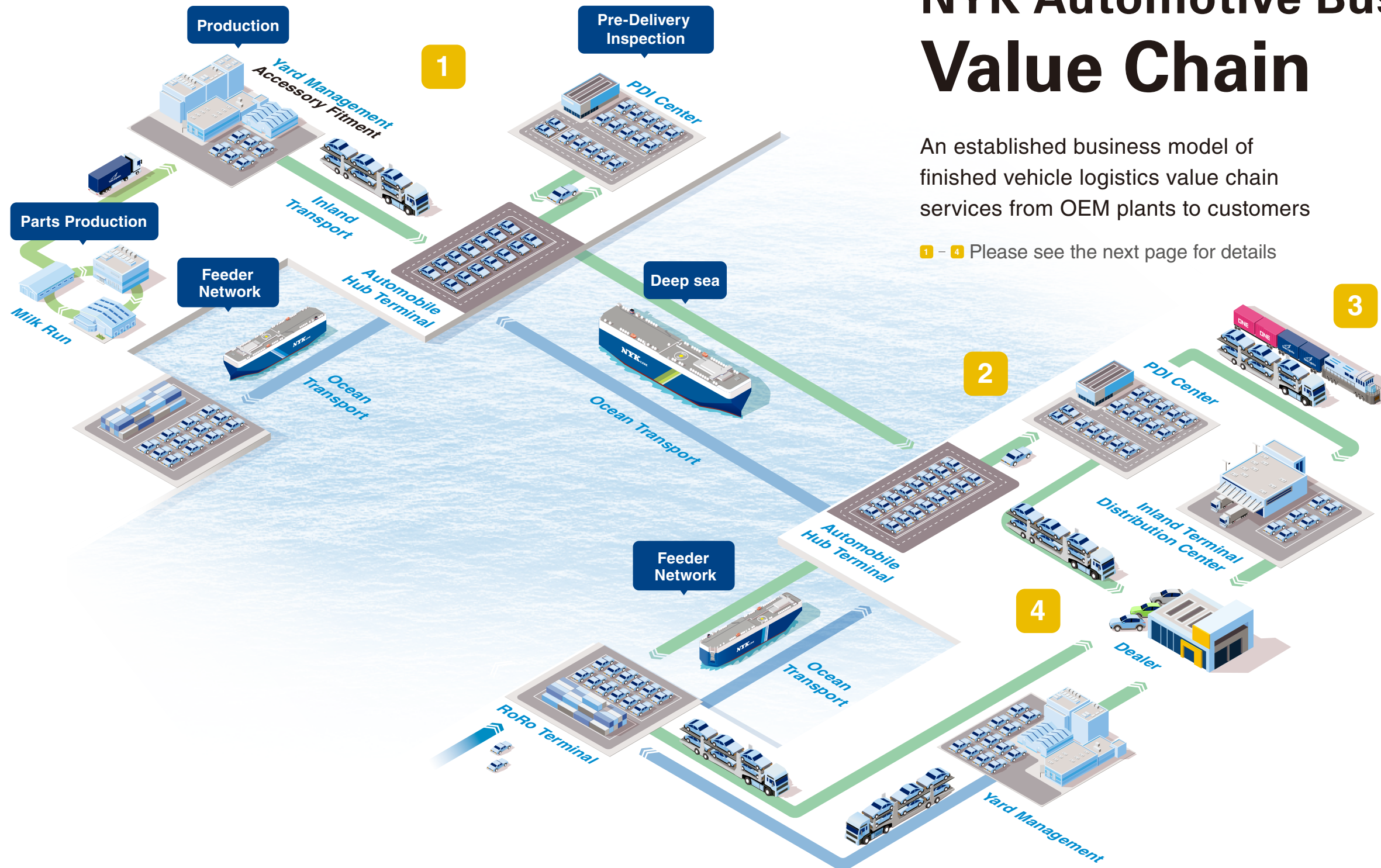




NYK Automotive Business Value Chain

An established business model of finished vehicle logistics value chain services from OEM plants to customers

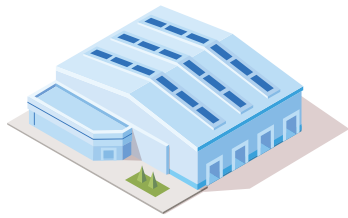
1 - 4 Please see the next page for details



Our mission

Safe and reliable vehicle delivery to every corner of the world.

Portfolio of Land-Based Logistics Services



1 Plant Compound Management

Receiving / Handover Inspections

Vehicle Stockyard Management

Ageing Maintenance

Wrap guarding / Accessories

Dispatch Management



2 Terminal Services

Customs Clearance

Receiving and Delivery

Rail Handling

Storage / Distribution Hub

Stevedoring



3 Value-Added Services

Pre-Delivery Inspections

Accessory Fitments

Electric Vehicle Charging

Technical Consulting



4 Inland Transportation

Road & Rail Transportation

Route Survey & Planning

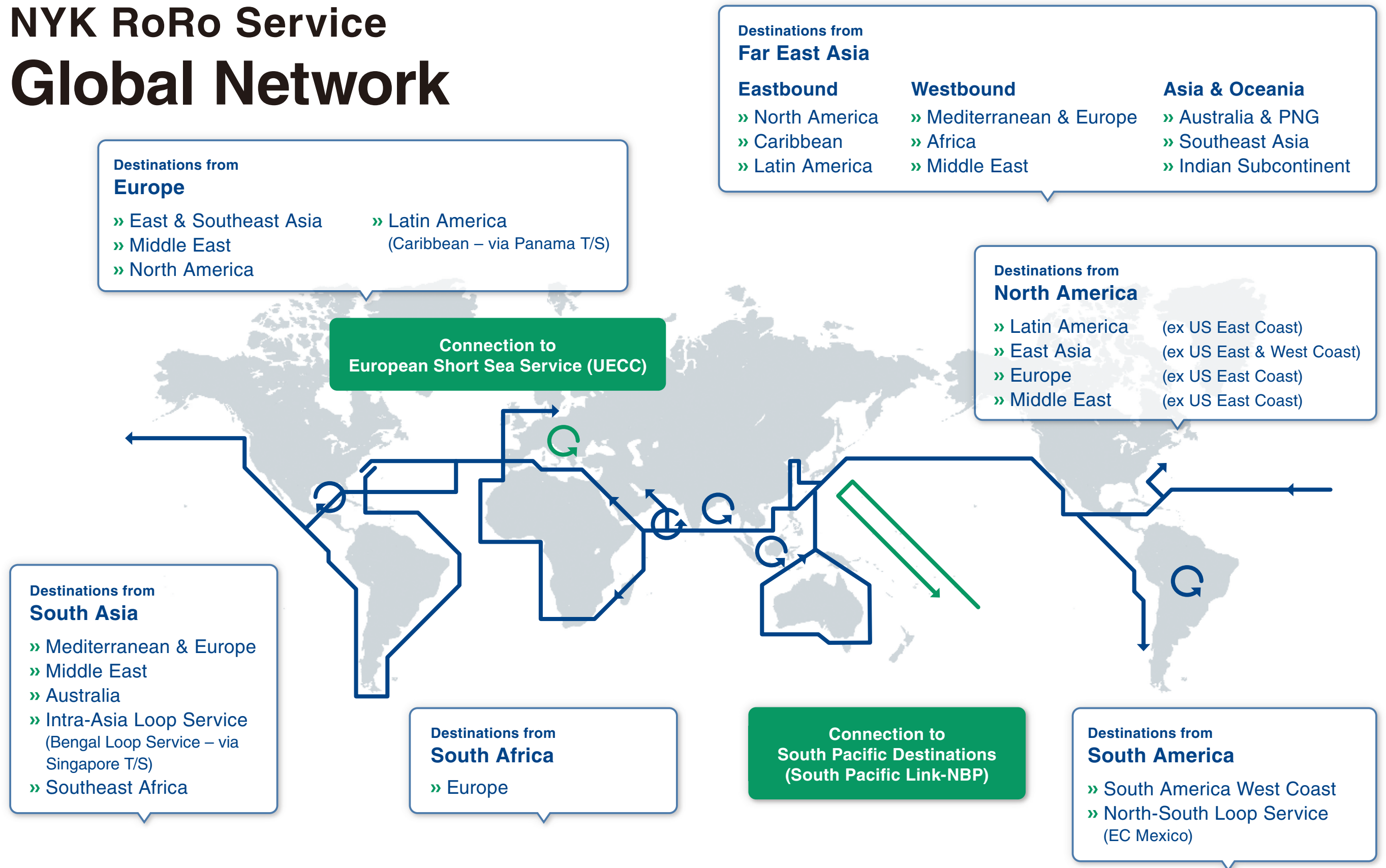
Track & Trace

Quality Management





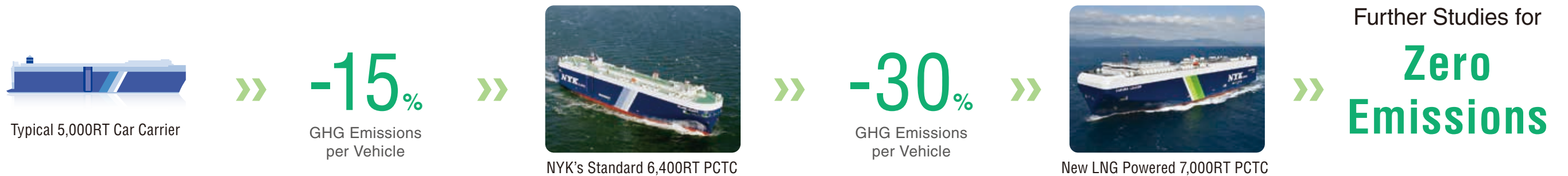
NYK RoRo Service Global Network



NYK Fleet Introduction A Greener Solution



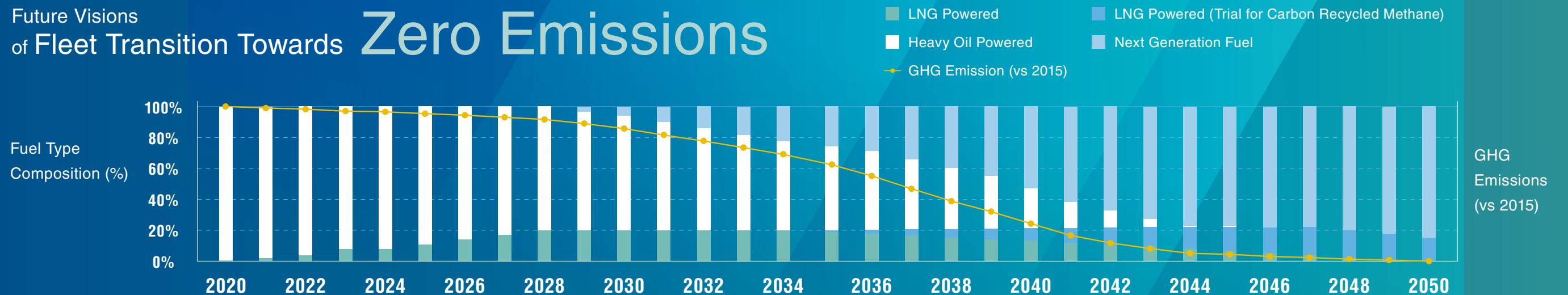
NYK offers high quality ocean transport service using a large, modern and environment-friendly fleet.



With our standard 6,400RT type vessels, we can provide an efficient ocean transport service with about 15% less GHG emissions per unit, compared to a typical 5,000RT sized car carrier.

We are now investing in modernizing our fleet to 7,000RT LNG powered PCTCs, which will further enable us in the future to provide a service with even 30% less GHG emissions compared to now.

Future Visions of Fleet Transition Towards Zero Emissions



*All figures are based on NYK internal calculation and assumptions. Plans may change in the future.



NYK Fleet Introduction A Greener Solution



20 LNG-fueled PCTCs by 2028

NYK aims to further advance to zero-emission vessels utilizing marine fuels that have a lower environmental impact, such as hydrogen and ammonia, from around 2030. For the moment, NYK is positioning LNG fuel as a bridge solution until future zero emission ships can be realized.

01 | Sakura Leader



03 | Jasmine Leader



05 | Freesia Leader



02 | Plumeria Leader



04 | Wild Rose Leader
Shown with LNG bunkering ship Kaguya



5 vessels
as of June 2023
... with 15 more to come

Photo provided by Central LNG Marine Fuel Japan Corporation

NYK Environmental Target

Sail GREEN Project – Environment value chain model for finished vehicle logistics

NYK offers environmentally sound value chains for finished-vehicle logistics from origin to destination. We can deliver cargo between East Asia and Europe through full-service, environmentally friendly transport, for example.

Example

Environmental Value Chain Model from China to Oslo via Transshipment at Zeebrugge

1 Loading Port: Major Chinese Ports

Eco-friendly solar-powered vehicle distribution centers in operation (example: Tianjin RoRo Terminal)



2 Ocean Transport Large LNG-Powered PCTC

Ocean transport from East Asia to Zeebrugge by our large LNG-powered PCTC



3 Discharge Port: ICO Terminal Zeebrugge

Powered by own wind power plant + environment measures such as water recycling at PDI facility



4 Short Sea Transport: Medium-Sized LNG-Powered PCTC by UECC

Transport from Zeebrugge to Oslo by LNG-powered PCTC operated by UECC

Short Video
https://www.nyk.com/profile/video/12_jpn.htm

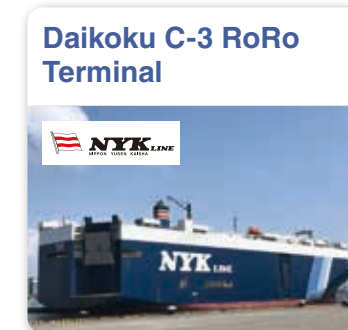
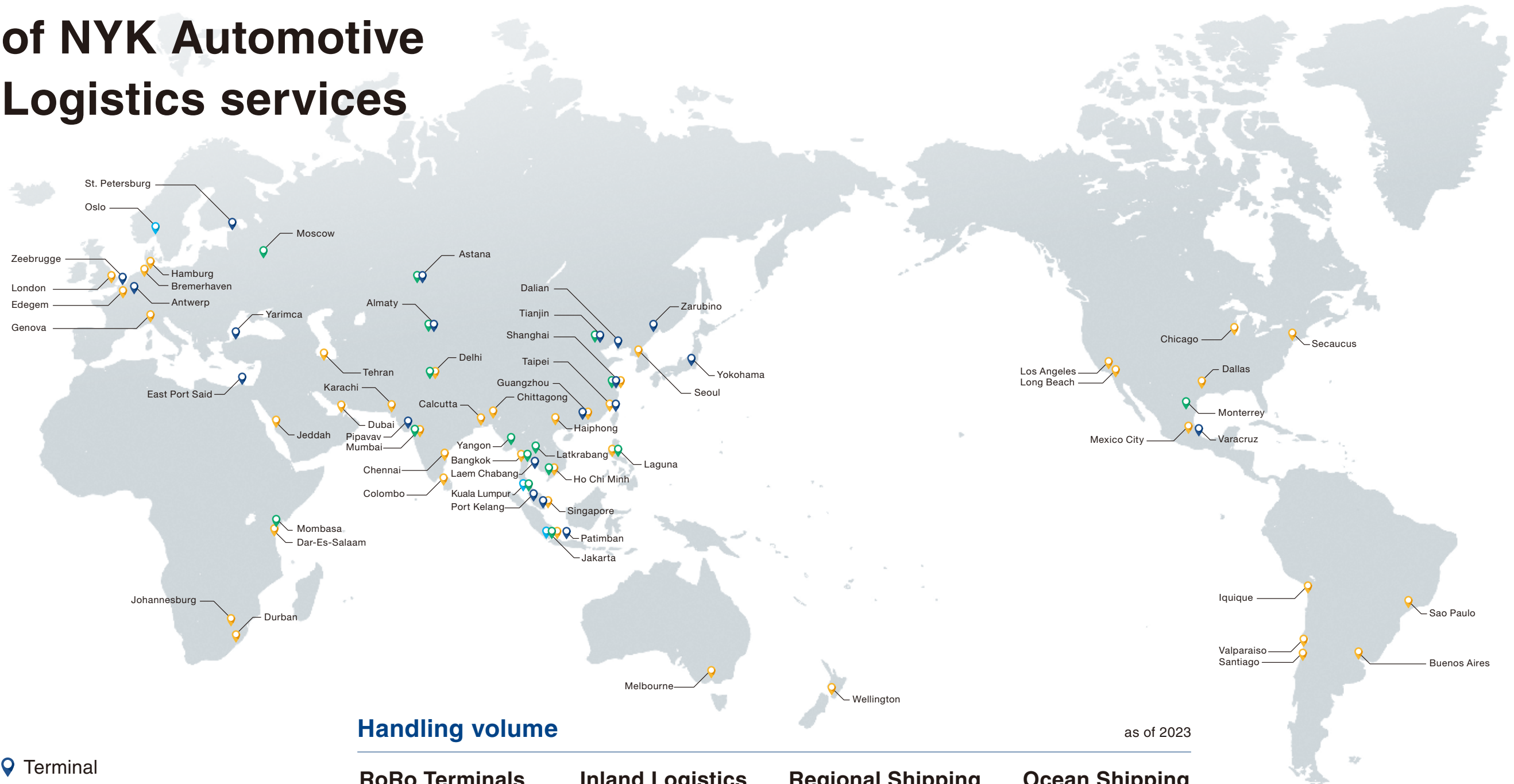


Photo courtesy of Central LNG Marine Fuel Japan Corporation



Global network of NYK Automotive Logistics services



Handling volume

as of 2023

- 📍 Terminal
- 📍 Inland Logistics
- 📍 Regional Shipping
- 📍 Office

RoRo Terminals
21 Locations
🚗 **9.6 mil.**

Inland Logistics
17 Companies
🚗 **2.0 mil.**

Regional Shipping
3 Companies
🚗 **1.3 mil.**

Ocean Shipping
41 Offices
🚗 **3.3 mil.**

02

Quality Management

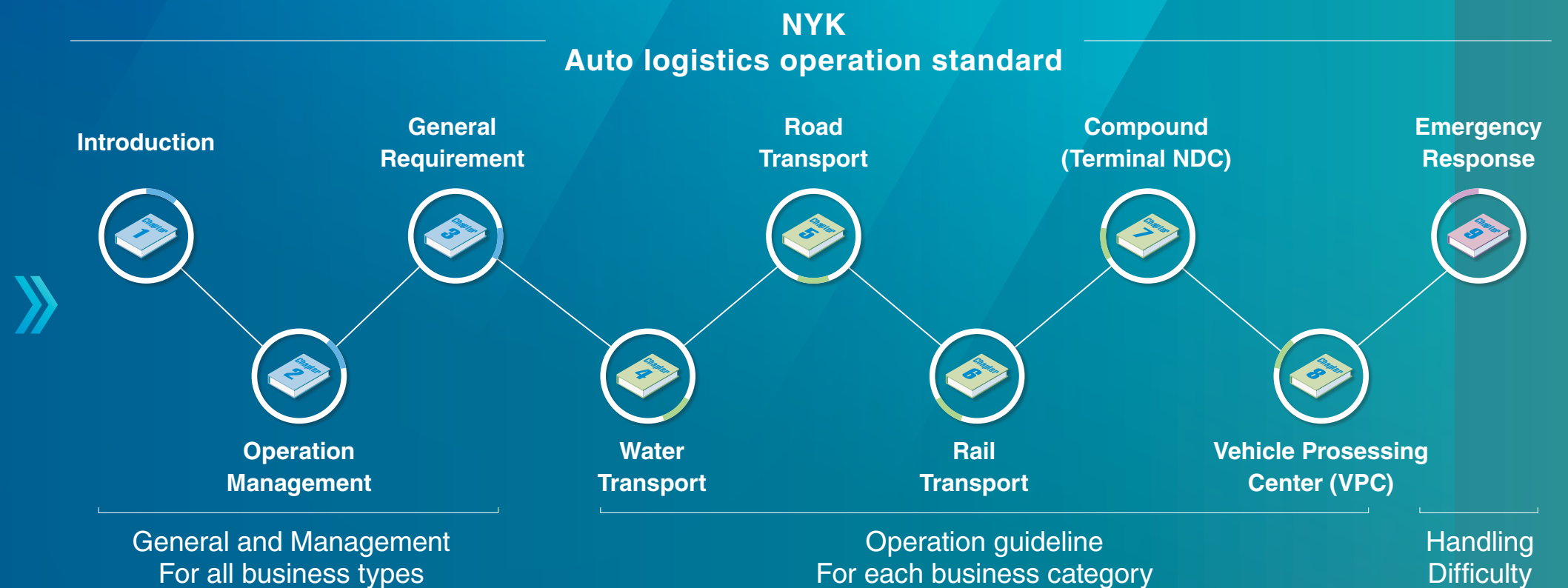


Quality and KPI Management Standard Operating Procedures

No Human Injury, Zero Damage

Quality Management

- 1 Standard Operating Procedures
- 2 Work Instructions (multilingual)
- 3 Operations Process Flow
- 4 Damage Prevention Handbook
- 5 Safety Instructions



Quality and KPI Management Activities and Prevention Plan in case of Accident

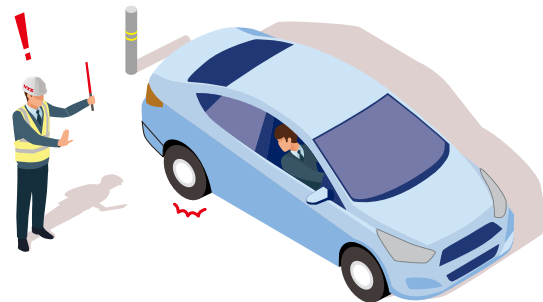


NYK Group Company >

PRISM >>

NYK Headquarters

Accident



NYK Incident Database
Monthly Report Data Analysis



Countermeasures to prevent
accidents; KPI measurement
Share monthly incident
report globally



NYK Electric Vehicle Handling Standards

EV-Ready Land-Based Logistics Infrastructure
Zeebrugge RoRo Terminal



Ⓧ Northern Inlet

1000 kVA Transformer available for EV zone

70 x 22kW charging zone

Ⓧ Southern Inlet

3780 kVA Transformer available for EV zone

352 x 11kW charging zone



Platform to make charge zone “intelligent”



Each charge connection variable
3 – 22 kW



Optimal use of each charge point



Fully programmable and measurable

03

**NYK Integrated
Finished Vehicle Logistics Solutions**





Why Choose NYK?

Key Elements



People

Global workforce of over 30,000 staff with solid skills and expertise

Quality Management Control Tower at HQ to monitor quality standards and KPIs

Processes

Standard Operating Procedures across all facilities and operating sites

Established training standards

Global Assets & Infrastructure

World's largest fleet of 104 RoRo vessels

21 RoRo terminals at major ports and inland areas

17 regional subsidiaries providing land-based logistics services

Technical and Operational Capabilities

Logistics expertise and knowhow by handling annual volume of 3 million vehicles on the ocean and 12 million on land

Proven quality services to all major OEM's across entire automotive logistics chain over last 50 years

ESG

ESG Activities

Launch of a project called "Shipping Aid," which generates a corporate donation per unit of NYK RoRo handling volume in India.

Continual search for OEM partners who would like to co-create with us.



More information
<https://www.nyk.com/english/esg/does/>



NYK TAILOR-MADE SOLUTION DEVELOPMENT



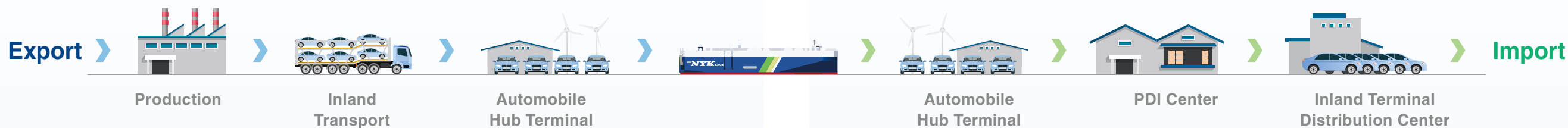
Tailor-Made Service

OEM Plant to RoRo Terminal Services

Import Port to Dealer Delivery

»» India Case

»» Kenya Case



SOLUTIONS

- » End-to-end logistics from Plant to Export Port
- » Global Standard Plant Yard Management Practices with SOP, staff training, and KPIs
- » Invested in 30 dedicated carriers with GPS and E-POD for transportation to port
- » IT system with EDI capabilities for visibility of vehicles across the supply chain
- » Inventory management through visibility across the entire logistics chain
- » Developed a Global Standard dedicated RoRo terminal to ensure quality of exports



SOLUTIONS

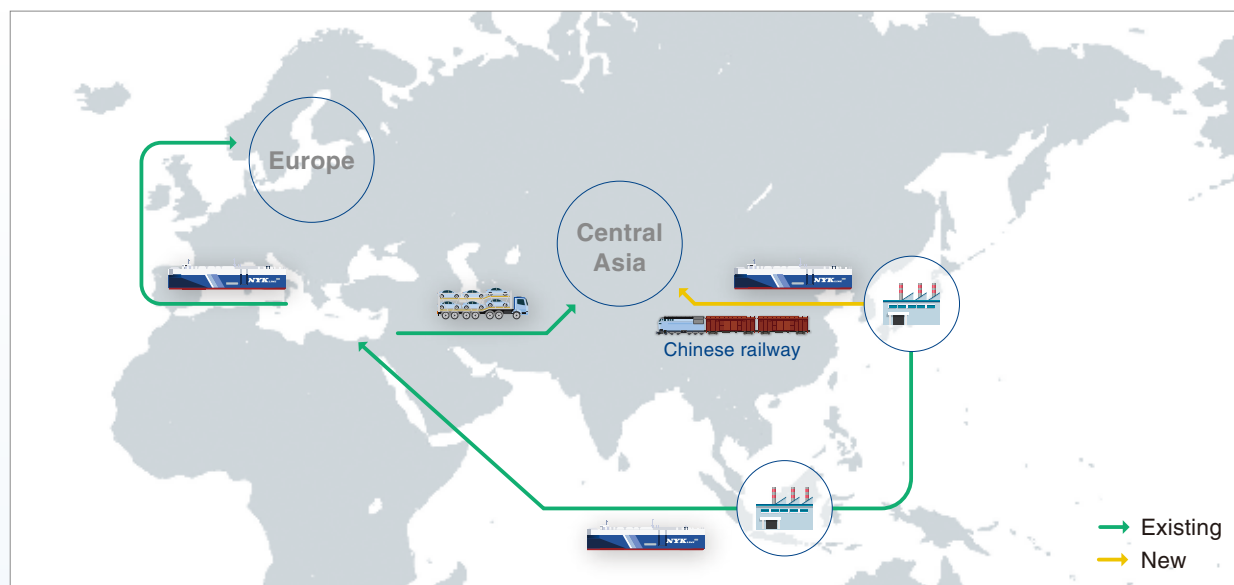
- » Invested in mini-car carrier trucks for improvement in transportation quality and quick dispatch
- » Took over accountability of entire supply chain import logistics covering 4PL activities (supplier management, performance management, claims management, customs documentation, registration and delivery to dealers and customers)
- » Designed the yard layout to expand the storage space and improve handling quality
- » Single window and accountability across the entire supply chain with agreed KPIs





Tailor-Made Service

Multi-modal Logistics Solution



SOLUTIONS

- › Established multi-modal solution using RoRo from Japan to China and rail autowagon from China to Kazakhstan
- › Provided NYK inland RoRo terminal at Almaty and Astana as storage and distribution hub for Kazakhstan and other areas in Central Asia
- › Further connection with local rail or truck to other areas in Central Asia from Kazakhstan
- › Reduction of lead time
- › Improvement of GHG emissions

End-to-End Hub and Spoke Solution

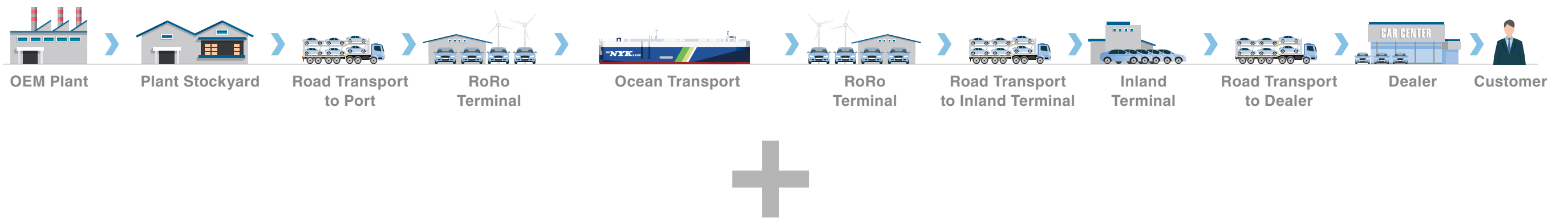


SOLUTIONS

- › Provided ocean transportation solution from China to Zeebrugge
- › Provided NYK RoRo terminal at Zeebrugge as storage and distribution hub for Europe
- › Customs clearance service provided by NYK RoRo terminal at Zeebrugge
- › PDI, accessory fitment and vehicle processing services provided by NYK RoRo terminal at Zeebrugge
- › Last mile delivery to Drammen provided via NYK short sea service company UECC
- › Accountability, visibility and quality management across entire supply chain by NYK



NYK can offer tailor-made solutions for your supply chain!



4PL FOURTH PARTY LOGISTICS

Purchasing & Contracting

Operations Management

Information Management

Quality Management

Performance Management

Financial Management

Claims Management