**Net Zero Carbon** 



# Our commitment to sustainability in logistics

Michael Maass, Vice President Global Sustainability Solutions Seafreight Livestream " Rebuilding Greener Supply Chains " July 8<sup>th</sup>, 2020



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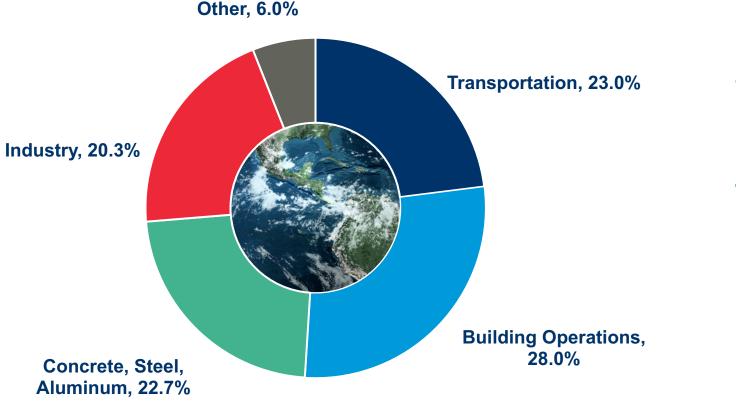
With **"Net Zero Carbon"** we address CO2 reduction in transport and logistics services worldwide.

In addition to our own CO2 neutrality, we offer solutions to our customers for reducing their supply chain's CO2 footprint.

### **Global CO2 Emissions by Sector**



Total number of global annual energy related CO2 emissions: approx. 35 billion tonnes in 2019\*



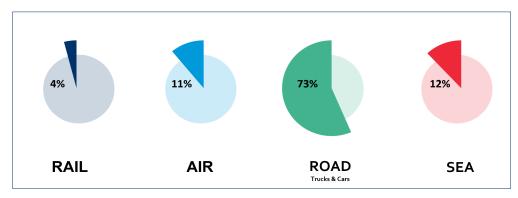
→ 8 % of the global emissions are caused by trade-related freight transport\*\*

→ This equals to 492 million passenger vehicles driven for one year\*\*\*

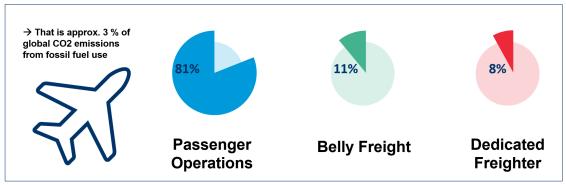
> \* International Energy Agency (IEA) 2020 \*\* International Transport Forum ITF Outlook for 2020 \*\*\* Greenhouse Gas Equivalencies Calculator 2019 DISCLAIMER - ALL APPROX. NUMBERS

### **Emissions from different Modes of Transport\***

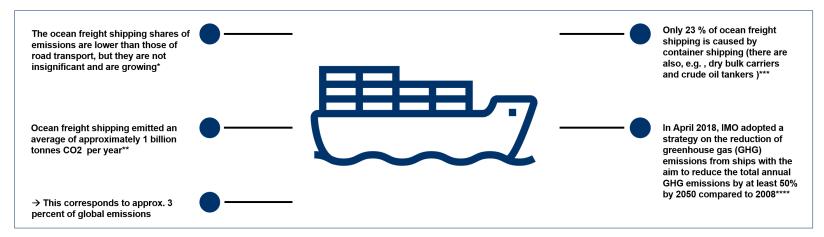




Private and trade-related transportation



Total CO2 emissions from all commercial operations, including passenger movement, belly freight, and dedicated freight, totalled 918 million metric tons (MMT) in 2018.\*



Ocean freight is the most emission-friendly mode of transport

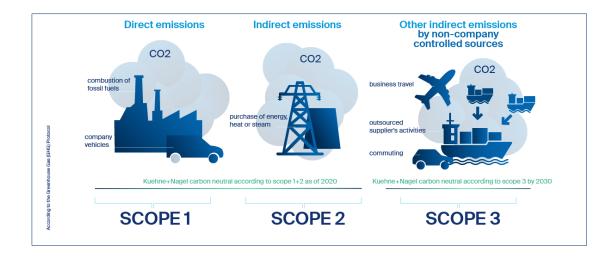


Section 2

## Net Zero Carbon Programme

### Net Zero Carbon: Carbon neutrality targets until 2030





- Since 2020, we are fully carbon neutral worldwide for all direct and indirect emissions in our own sphere of influence.
- Visibility Global Facility Carbon Calculator
- Reduction e.g. Usage of renewable energy and solar panels on logistics facilities
- In our company's scope 1 + 2 sustainability approach 14 out of 17 SDG's are covered
- Offsetting the remaining CO2



The Sustainable Development Goals (SDGs), also known as the Global Goals, were adopted by all United Nations Member States in 2015 as a universal call to action to end poverty, protect the planet and ensure that all people enjoy peace and prosperity by 2030.

### **Getting to Zero Coalition – joint CO2 reduction initiatives**



#### We entered this initiative by Global Maritime Forum. Forum. Clobal Maritime OCCEAN CONTRACTION

 The ambition of the Coalition is to have commercially viable Zero Emission Vessels (ZEVs) on deep-sea trade routes by 2030, supported by the necessary infrastructure for scalable net zero-carbon energy sources, including production, distribution, storage and bunkering.  CMA CGM invested heavily in bio fuel technology and in LNG technology by ordering 20 gas-powered vessels including 9 giant 23,000 TEU ships.

LNG-operated container ships reduce sulphur emissions by approx. 99 percent, while CO2 emissions are reduced by approx. 15-20 %.

 Maersk pilots a battery system to improve power production and begun a journey towards having net-zero CO2 emissions from own operations by 2050.

They initiated the first partnership of its kind to develop an industrialscale production facility to produce sustainable fuels for road, maritime and air transport in the Copenhagen area.



#### Science-based Targets

By basing our program on these science based targets we **define clear objectives** and become measurable to the public on our way to CO2 neutrality by 2030.

#### UN Global Compact

Platform for business engagement on the Sustainable Development Goals (SDGs)

#### 🐀 Arctic Pledge

Development and Climate

Conservancy We will not support commercial shipping on the transpolar sea route at the risk of the local ecosystem.

#### Getting to Zero Coalition

The ambition of the Coalition is to have commercially viable Zero Emission Vessels (ZEVs) on deep-sea trade routes by 2030.

#### Development and Climate Alliance

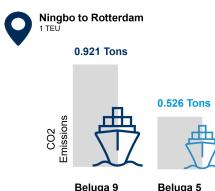
The aim of the initiative is to promote voluntary commitment of companies to climate protection.

## CO2 Visibility enables CO2 Reduction: Example CO2 savings based on seaexplorer data Asia-Europe

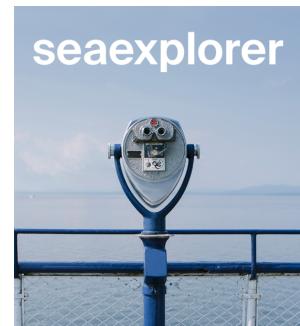
- Seaexplorer is our digital platform for sea freight services and schedules in container shipping being used by many automotive customers worldwide
- The smart platform provides full control of global routing options across carriers

Example: CO2 savings based on seaexplorer data China to Netherlands

- 40 days versus 31 days
- Reliability class B versus A
- Same alliance, i.e. the original vessel operator can be retained
- Beluga 5 = most eco-friendly, more reliable and faster



Possible Savings 43%



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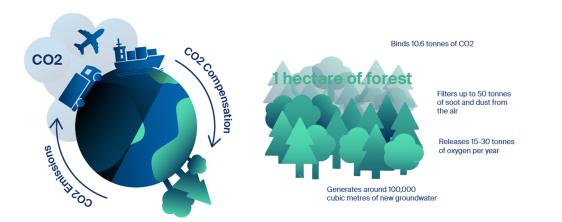
**Section 3** 

## CO2 Offsetting

## **CO2 Offsetting – neutralizing the remaining CO2**



- In spite of all efforts at reduction, CO2 emissions cannot yet be 100% avoided
- Until it can be technically feasible to reduce CO2 to zero, we provide our customers with means to fully offset the CO2 footprint of their shipments



Our projects protect forests: Trees are the most powerful carboncapture technology; numbers per year Partnership with Team Malizia contributing to ocean health and mutually working for a sustainable future





## Join us in being responsible stewards of our planet and its people

## Join

As a leading global logistics provider we acknowledge the responsibility we have to the environment, to our ecosystems and to humanity.



## US.

For further information visit <u>www.kn-portal.com/environment</u>





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