

# Digital Ship Copenhagen

How digital technologies help  
optimise operational decisions and  
reduce emissions

**Jörg Schnitzbauer**

VP of Data & AI at ZeroNorth

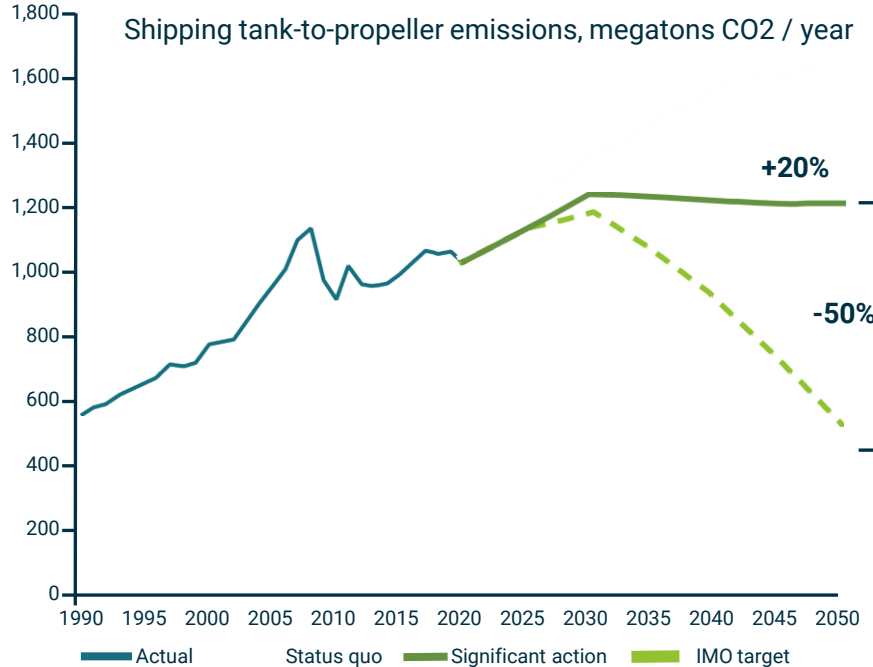
# Where we are today

**85%**  
of global trade  
is seaborne

**3%**  
of global CO2  
emissions<sup>1</sup>

## Regulation is pushing companies to act now

Shipping tank-to-propeller emissions, megatons CO2 / year



**Regulators:** IMO target of 50% reduction in 2008 CO2 by 2050

**Investors:** Meeting ESG targets

**Customers:** Expectations of Net-Zero

**Net-zero by 2050 expected to cost ~USD80Bn<sup>2</sup> annually**

1. Estimate from the Maersk Mc-Kinney Moller Center for Zero Carbon Shipping (see "We show the world how it is possible", October 2021)

2. BCG estimate (see "Global Shipping's Net-Zero Transformation Challenge", September 2021)

Source: IMO, Maersk Mc-Kinney Moller Center for Zero Carbon Shipping Navigate model. Trade growth based on external models.

HOW DIGITAL TECHNOLOGIES HELP OPTIMISE OPERATIONAL DECISIONS AND REDUCE EMISSIONS

# More digitalisation for more decarbonisation



**EMISSIONS REDUCTIONS  
FOR PROFIT AND  
PLANET**



**ENHANCE THE WAY THE  
INDUSTRY OPERATES**



**LITTLE-TO-NO CAPEX  
BARRIER**

HOW DIGITAL TECHNOLOGIES HELP OPTIMISE OPERATIONAL DECISIONS AND REDUCE EMISSIONS

# Data and AI enable smarter operations

WEALTH OF  
DATA

DATA NETWORK  
EFFECT

POSITIVE  
FEEDBACK LOOP

ROBUST  
INSIGHTS



# ZeroNorth turns data into actions for profit and planet



**MAKE GLOBAL TRADE  
GREEN**



**DIGITALISATION AND  
OPTIMISATION**



**PARTNERSHIPS AND  
COLLABORATION**

# Generating real impact

**218,000 tonnes of  
CO<sub>2</sub>**  
prevented from being  
emitted from  
customer vessels in  
2021

# Smarter decision-making through CII optimisation

In line with  
regulatory  
change

Industry-first

CII impact and  
rating

Green route

CII rating for  
year-to-date  
and year-to-  
year

## CII Analytics and Optimisation service

# **The ZeroNorth platform** a total optimisation solution

We developed ZeroNorth's Platform with Optimise to help tramp shipping operators with voyage optimisation, to maximise TCE and earnings and cut CO2 – all by using data to generate actionable insights.





**Thank you!**