



A large, stylized blue 'V' shape that forms part of the top-left corner of the slide.

**IN 2025, VAHLE GETS
THE WORLD MOVING.**



 **> 200** Mio.

TURNOVER IN
EURO (2024)

 **> 825**

EMPLOYEES

 **14**

MARKET
ORGANIZATIONS

 **5**

PRODUCT
GROUPS

 **4**

TARGET
MARKETS

 **> 200** Mio.

TURNOVER IN
EURO (2024)

 **> 825**

EMPLOYEES

 **14**

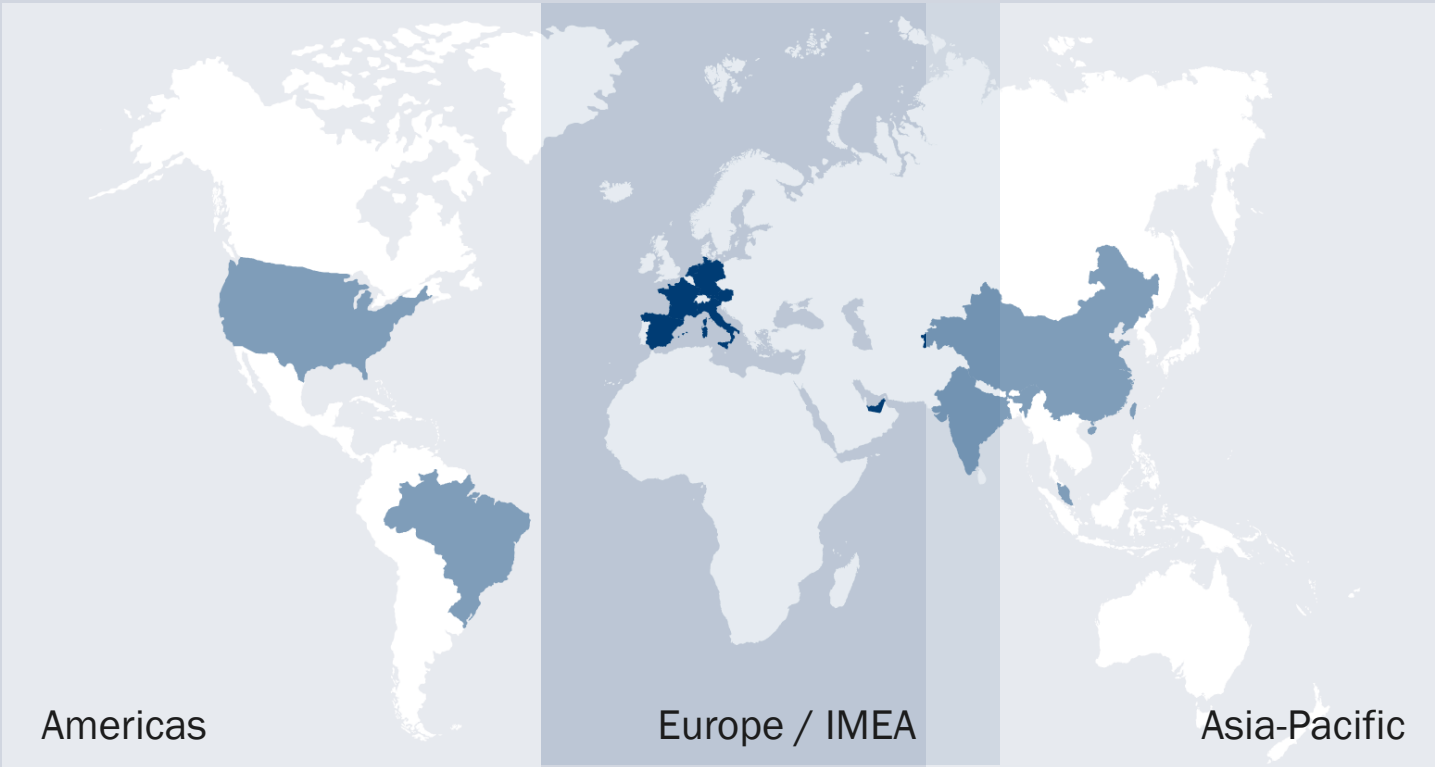
MARKET
ORGANIZATIONS

 **5**

PRODUCT
GROUPS

 **4**

TARGET
MARKETS



Energy Transmission



Intralogistics



Data Communication



Crane Technology



Positioning



Automotive



Control Systems



Port Technology



System Solutions

PORT TECHNOLOGY CONTAINER HANDLING



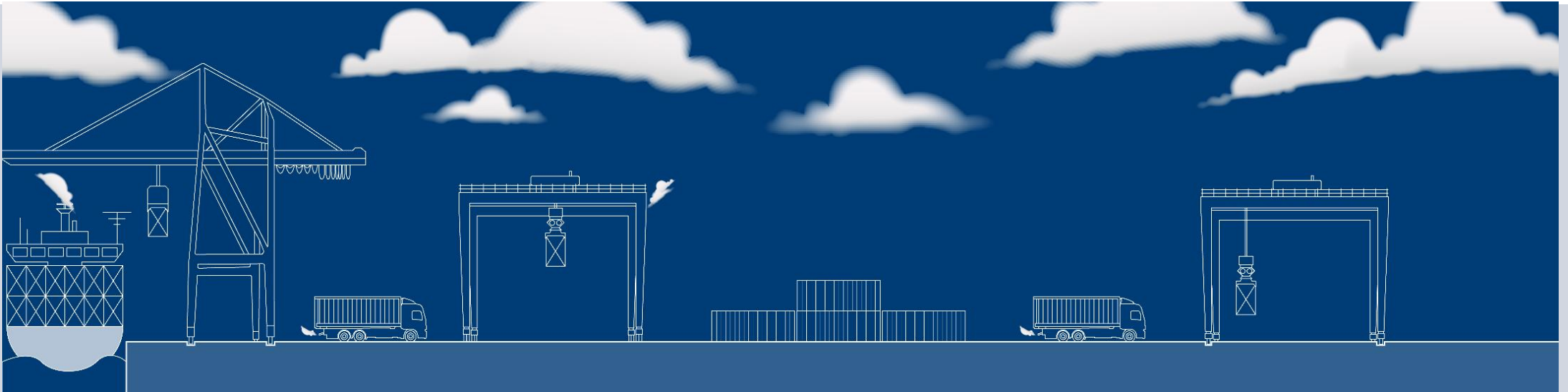
SPECIAL PROJECTS Ferris Wheels, ...



PEOPLE MOVER TRAMS, TRAINS, ...

Simplified Container Terminal Overview

In a changing world – 20 years ago



Simplified Container Terminal Overview

Nowadays and in the future



Simplified Container Terminal Overview



Case study – Great Britain, HPH UK – Port of Felixstowe

Innovations and Milestones

2014 – today



Brownfield

66 ZPMC RTGs



RTG Retrofit

59 blocks (15,3 km)



Container Terminal Automation

Step by step approach

1.0 ELECTRIFICATION

Insulated conductor rails 1000V, 1000A with aluminium/stainless steel

2.0 POSITIONING

Precise position feedback with a contactless reading head

3.0 DATA COMMUNICATION

Interference-free and safe data & video

2020 - 300 Mbps

2023 - 600 Mbps

2025 - 1 Gbps

4.0 - AUTOMATION

Combination of electrification, positioning and data communication for remote control



Case study – Great Britain, HPH UK – Port of Felixstowe

Innovations and Milestones

2020 – today



Greenfield



8 Remote ZPMC
AeRTGCs

17 Remote KC
AeRTGCs

Container Blocks

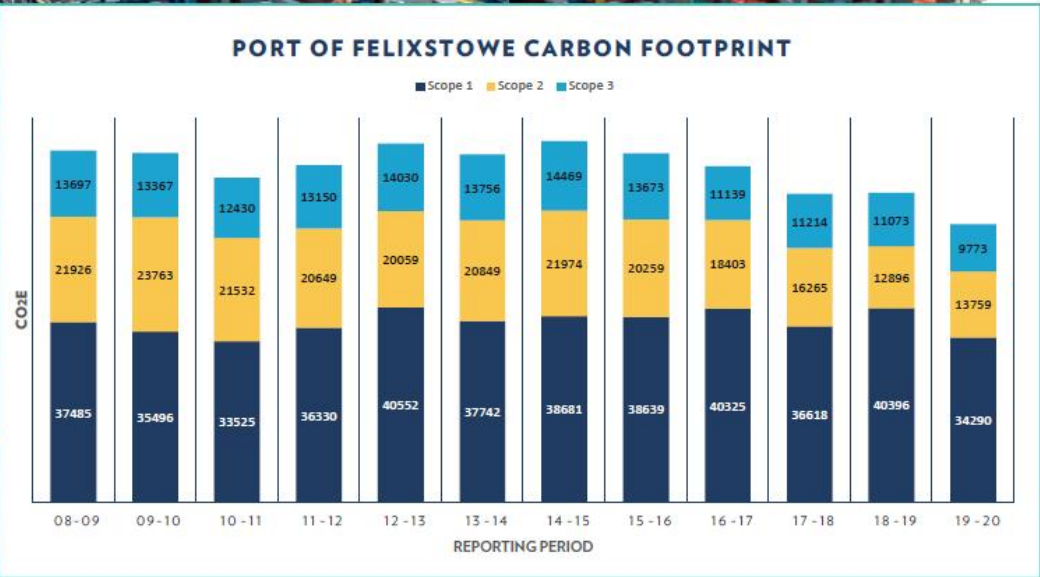
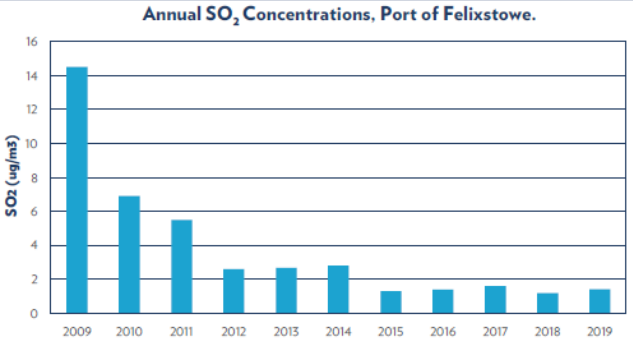


18 blocks (5,2 km)



ENVIRONMENT REPORT 2019-2020

PERFORMANCE



Scope 1 (direct) emissions produced on-site by fossil fuel combustion; mainly by RTG cranes, internal movement vehicles and port vehicles.

- 15% REDUCTION IN SCOPE 1 EMISSIONS WHEN COMPARED TO THE PREVIOUS PERIOD.
- 10% REDUCTION IN OVERALL CARBON FOOTPRINT.
- 20% REDUCTION IN OVERALL CARBON FOOTPRINT IN THE LAST TEN-YEAR PERIOD.
- 37% REDUCTION IN SCOPE 2 EMISSIONS SINCE RECORDING BEGAN.

Total savings since 2015:

89.620 tons CO₂

Source: PoF Environment Report 2020



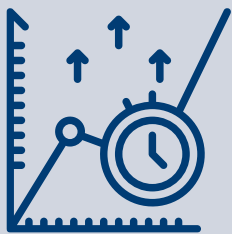
ECONOMIC

- Optimized OPEX by reduced fuel cost and idle time
- Reduced dependency on fossil fuel supplies
- Reduced GenSet maintenance cost
- Smart / remote maintenance
- Personnel costs are saved
- Productivity is increased
- Optimized Total Cost of Ownership



ECOLOGIC

- Reduction of CO₂ emissions and noise pollution
- Sustainable and green – at best with renewables

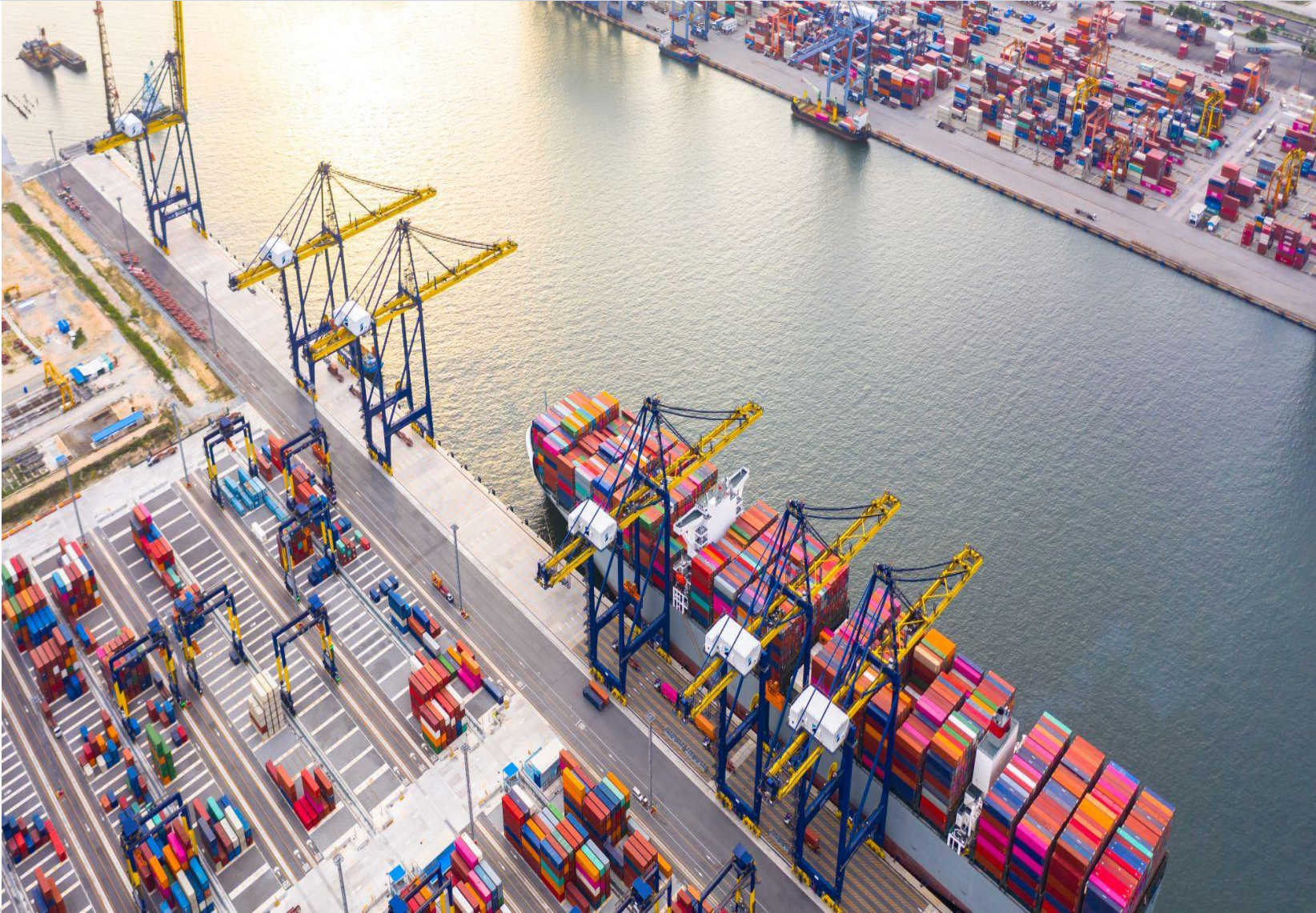
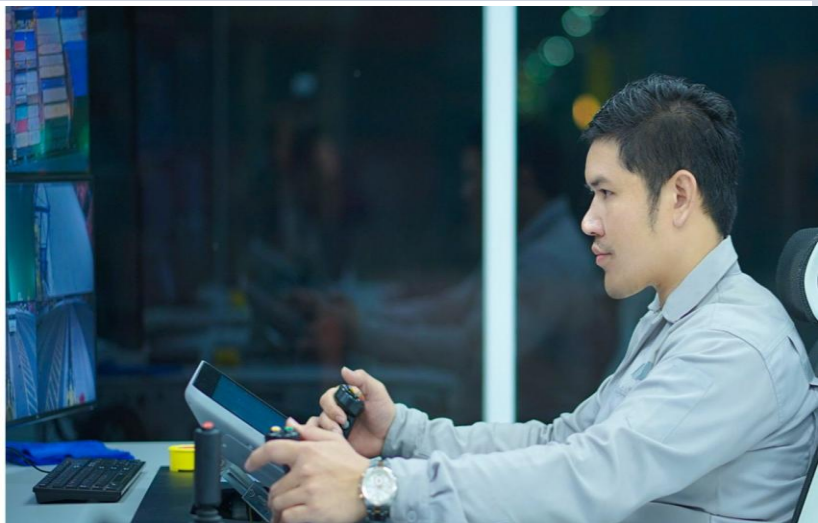


EFFICIENT

- Flexible yard operation
- Automatic connection system
- Autosteering
- Seamless synchronization
- Human Safety

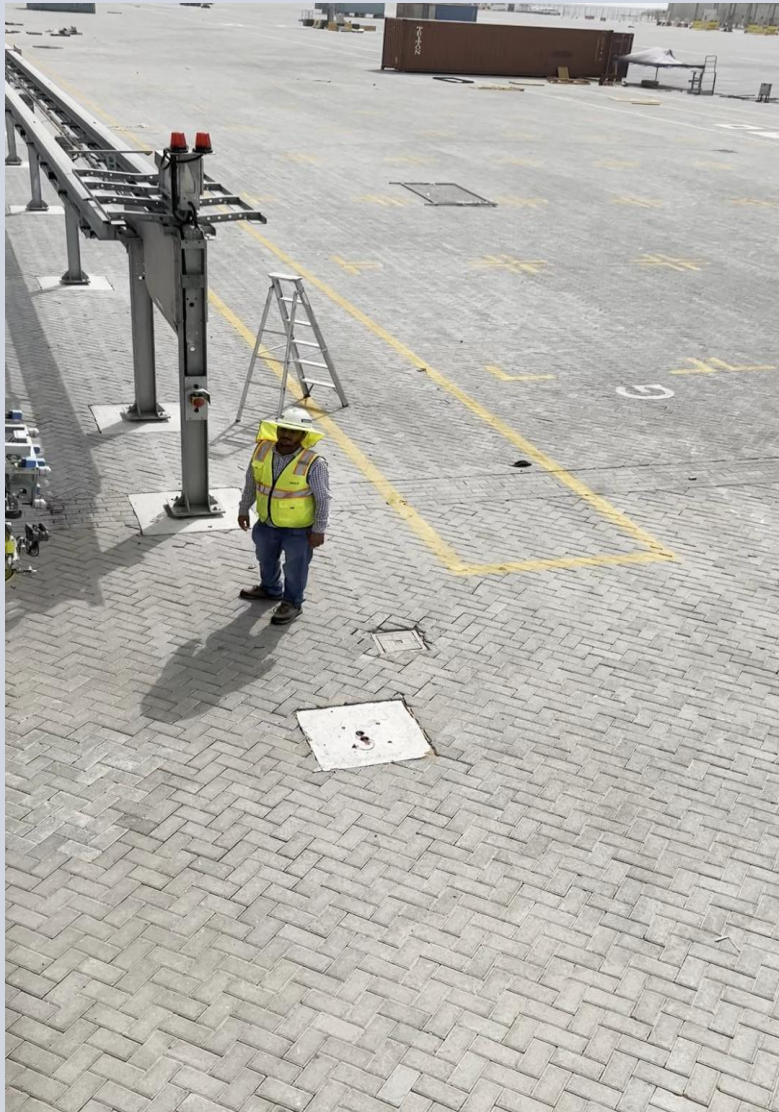
Case study – Thailand, Laem Chabang – HPT Terminal D

Container Terminal Automation



PRODUCT OVERVIEW

eRTG CRANES– Trimotion Compact



YOUR VISION COUNTS: WE ARE READY



BLACK SEA Ports and Logistics 2025

Tuesday 11 March to Thursday 13 March 2025
Paragraph Resort & Spa Shekvetili, Georgia

Hosted By
APM TERMINALS
Leading Global Ports

Strategic Partner
Middle Corridor
Connecting Europe and Asia

SEBASTIAN ALVES
PRE-SALES (MANAGER)
VAHLE
GERMANY

