

CAPITAL MARKETS DAY 2019

Wallenius Wilhelmsen ASA – Capital markets day 2019 program

Market outlook Michael Hynekamp **EVP and Chief Operating Officer WW Ocean and WW Solutions** Decarbonisation **Roger Strevens VP Head of Global Sustainability Simon White** Digitalisation **EVP and Chief Digital Officer Mats Amland VP Head of Transformation Office**

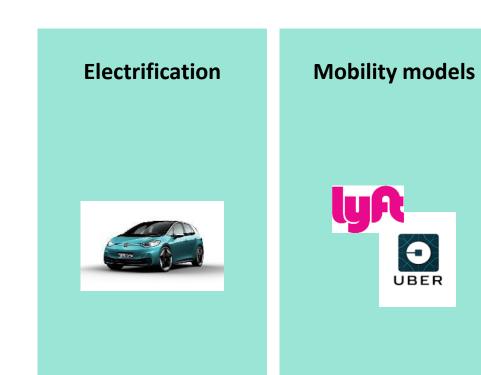


Market Outlook

Mike Hynekamp EVP and COO WW Ocean & WW Solutions

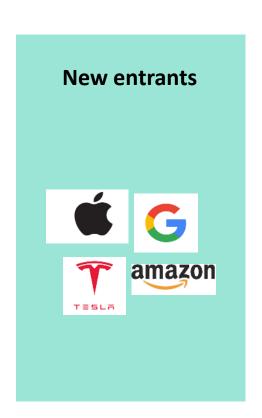


There is no doubt that the industry around us is changing...



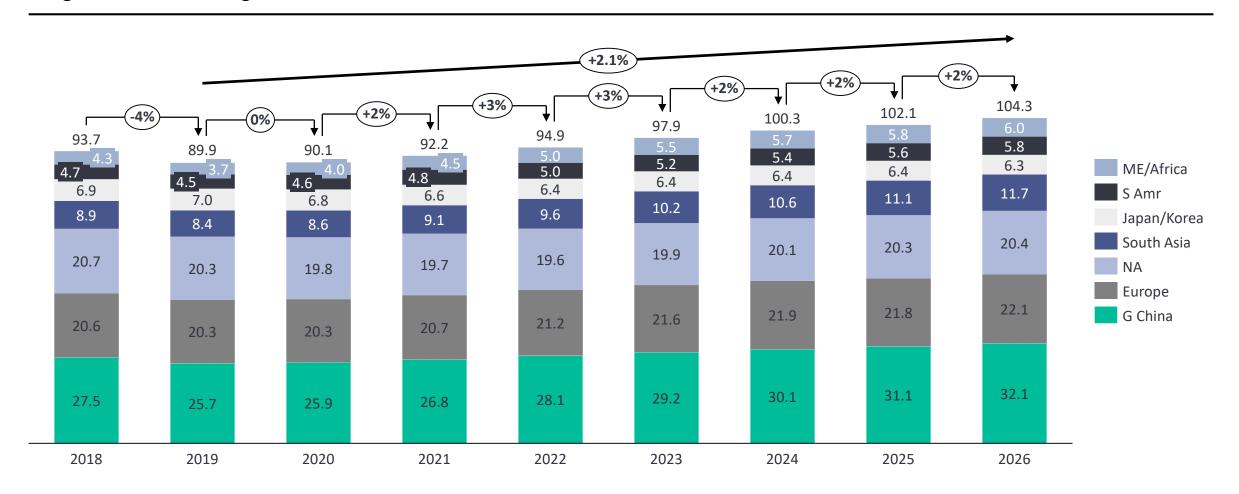






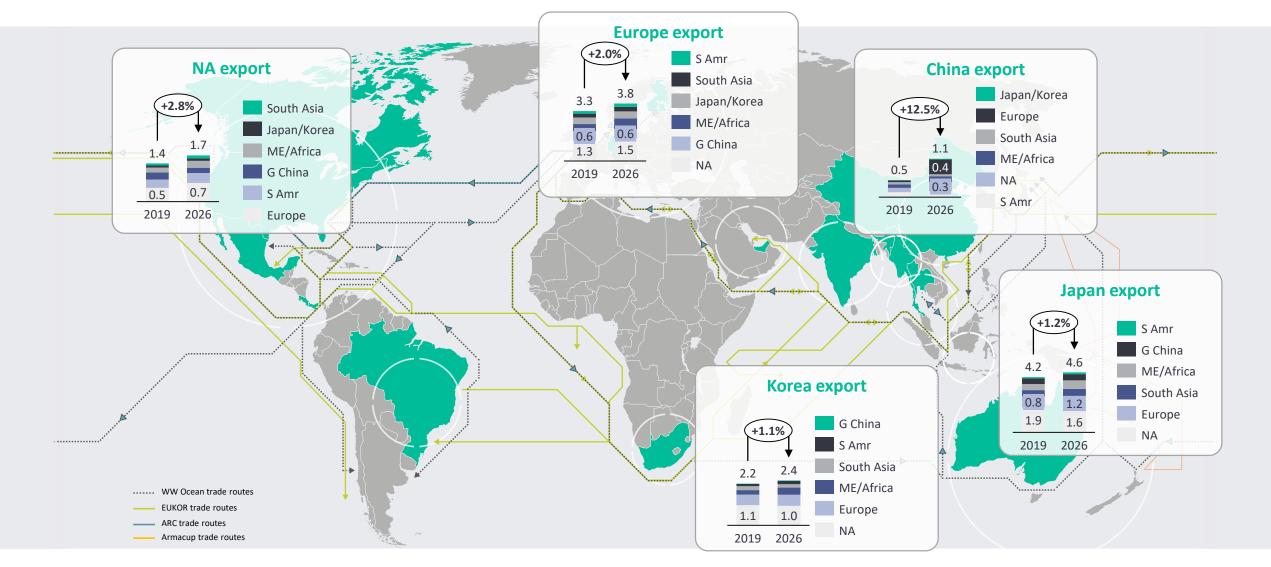
Light vehicle sales growth expected to see a CAGR of ~2.1% going forward

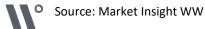
LV global sales, sales region, million units, 2018-26





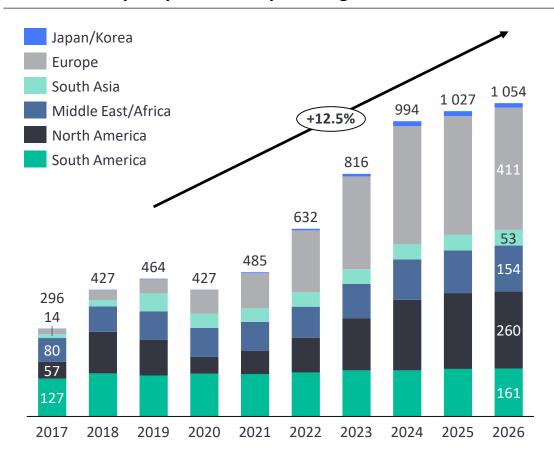
Forecasted growth in deepsea volumes in all key markets





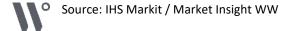
Chinese light vehicle export set to be ramped up to >1 million units / year

Chinese LV export per consumption region 1000 units, 2017-26FC



Comments on Chinese LV export

- China largest production region globally, expected to increase from 26m in 2018 to 32m in 2026
- Open capacity at Chinese plants
- Chinese export of LVs to increase from 296k in 2017 to 1054k in 2026
- **Battery electric vehicles** (BEVs) expected to contribute to most of export growth
- Regional emission regulation to influence consumption of BEVs, where **Europe** is expected to be a large consumer of these vehicles

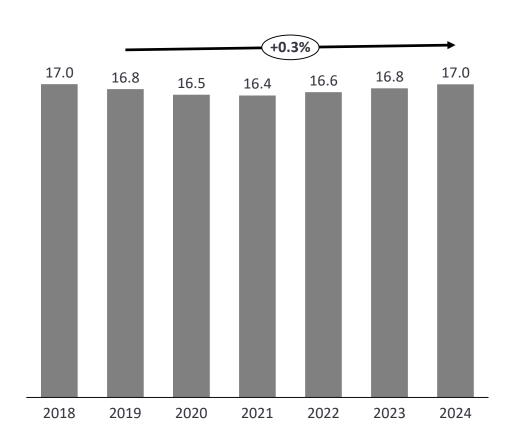


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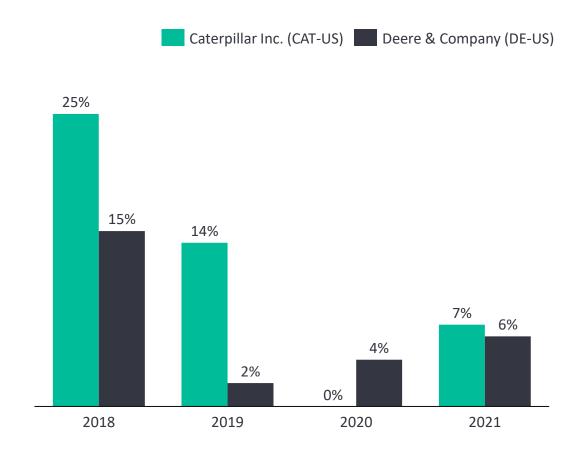
North American light vehicle production and H&H sales show stable outlook

Vehicle processing LV production NA

Mill units, 2018-24FC



Equipment processing H&H Equipment OEM sales growthAnalyst consensus est, 2019-21FC





Outlook for marine terminals is solid

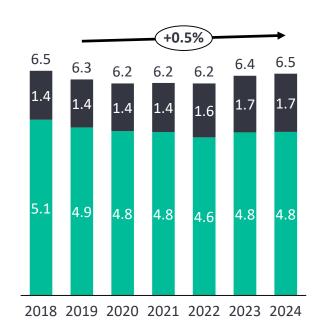
Terminals LV export and import NA

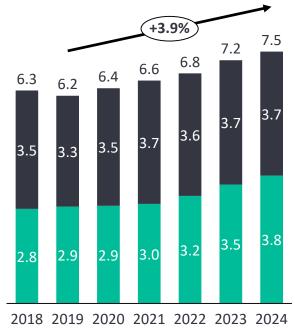
Mill units, 2018-24FC



Terminals LV export and import Europe Mill units, 2018-24FC

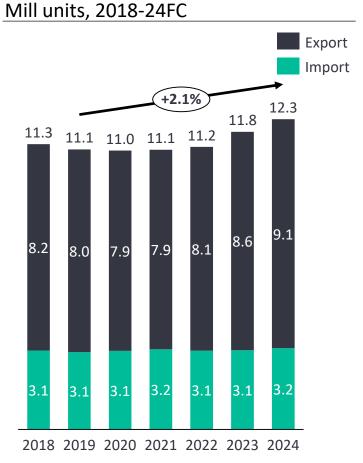


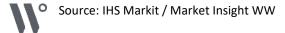




Terminals

LV export and import APAC

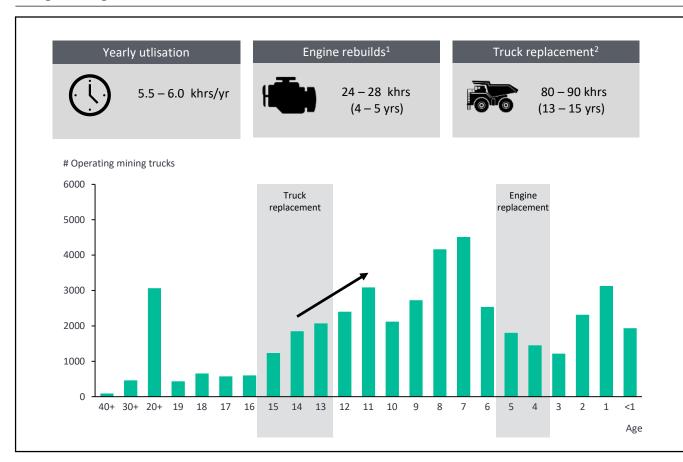




We appear to be in the start of a Mining truck replacement cycle

- Trucks commissioned during 2007/2008 are approaching theoretical replacement age

The number of trucks that are approaching the end of their chassis life is steadily growing over the next years Large mining truck fleet characteristics



OEM quotes on Mining equipment replacement demand

CATERPILLAR

"(...) most commodity prices remain at investable levels (...) the end-user demand for mining equipment remains positive. And large mining trucks have further room for growth. We continue to believe we are in the early stages of a multiyear recovery in mining. However, miners are cautious due to economic uncertainty."

- D. James Umpleby III , Chairman & CEO Caterpillar

Q3 19 Earnings Call

HITACHI

"(...) the sentiment for ultra-large hydraulic excavators (over 300t) and dump trucks (payload over 150t) for major mining companies is bullish."

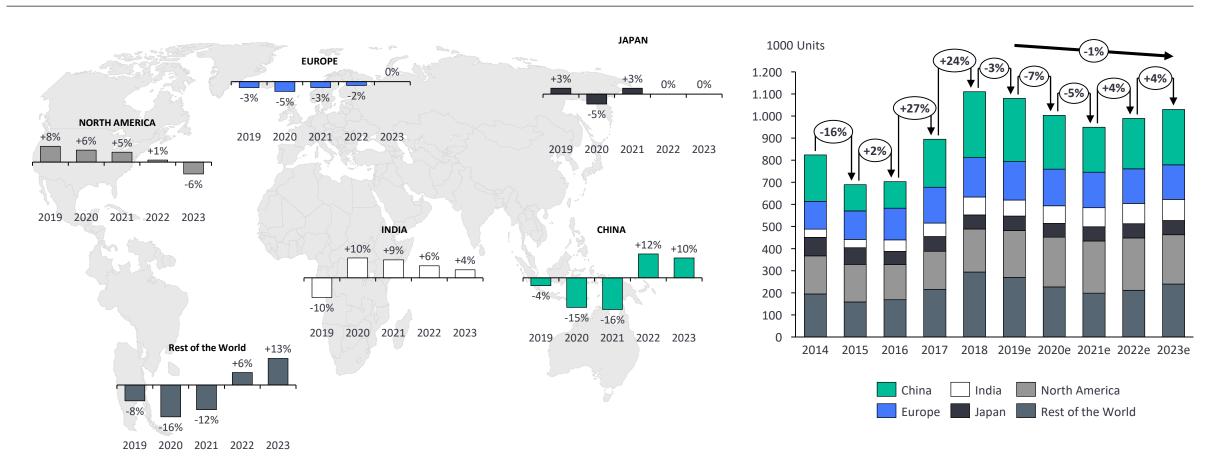
Q2 FY2019 presentation (Period: Jul.- Sep.19)



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Global construction machinery demand is expected to weaken through 2021 before growing again in 2022

North American sales are believed to grow through 2022, European demand edging down, while the Chinese market is expected to once again decline strongly before improving in 2022 Global Sales of Construction Equipment by Region (Units)

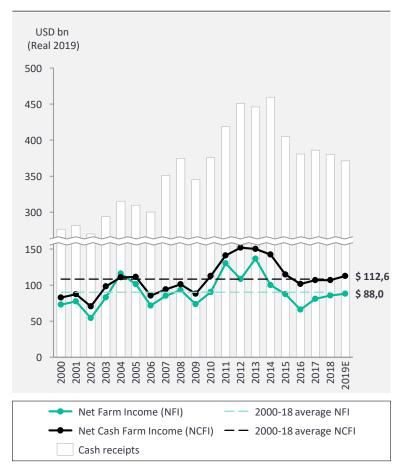




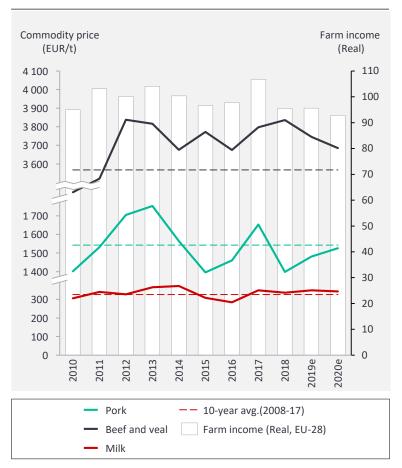
The economic outlook for farmers is expected to be mixed across key markets

- In the US, direct government payments to affected farmers aim to soften the short-term blow of the ongoing trade war

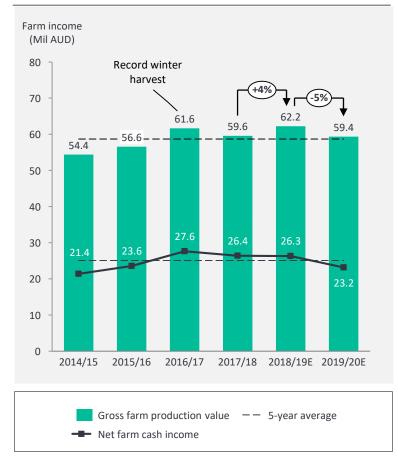
US farm profits expected to increase slightly in 2019 US Farm Income Forecast¹



EU farmer income is expected to decline slightly over the next 18m EU Farm income and commodities forecast²



Australian farm income is expected to drop below 5-year avg. Australian Farm income³



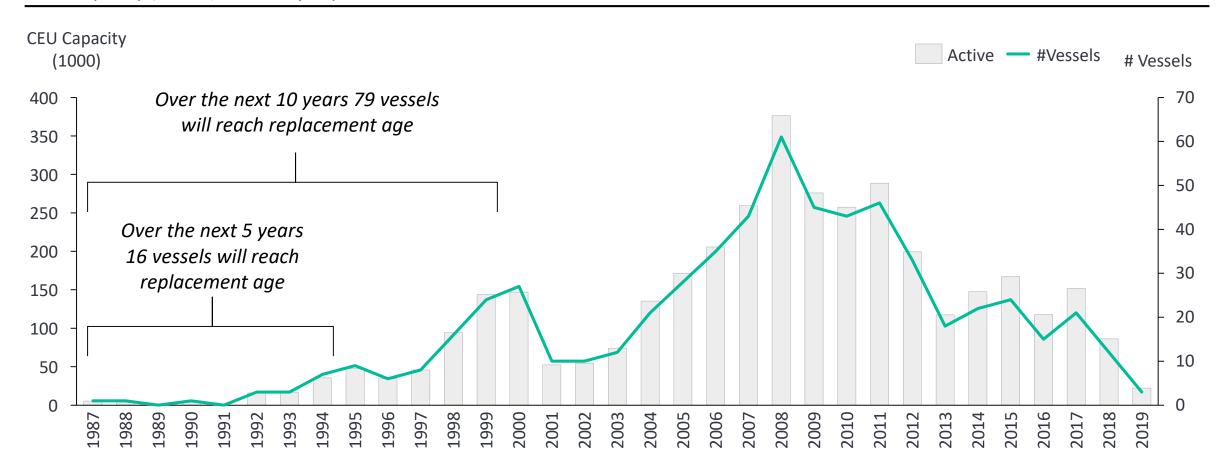


Recycling might pick up over the next 5 years

- Potential for upward pressure on rates

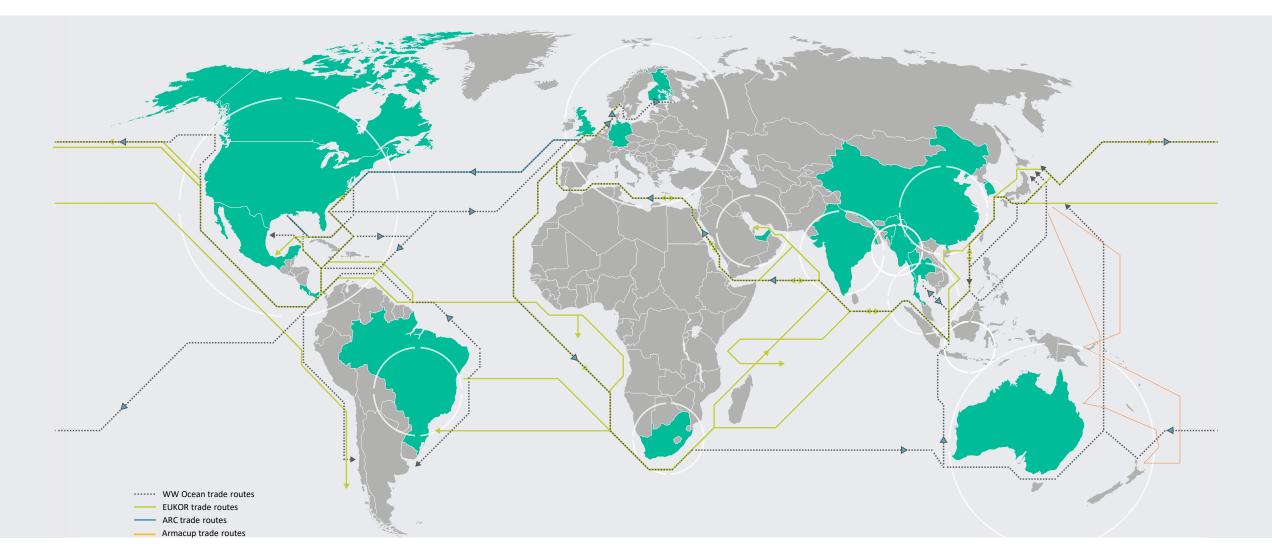
Fleet composition by year of build

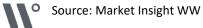
CEU capacity (>4000), Active by September 20191



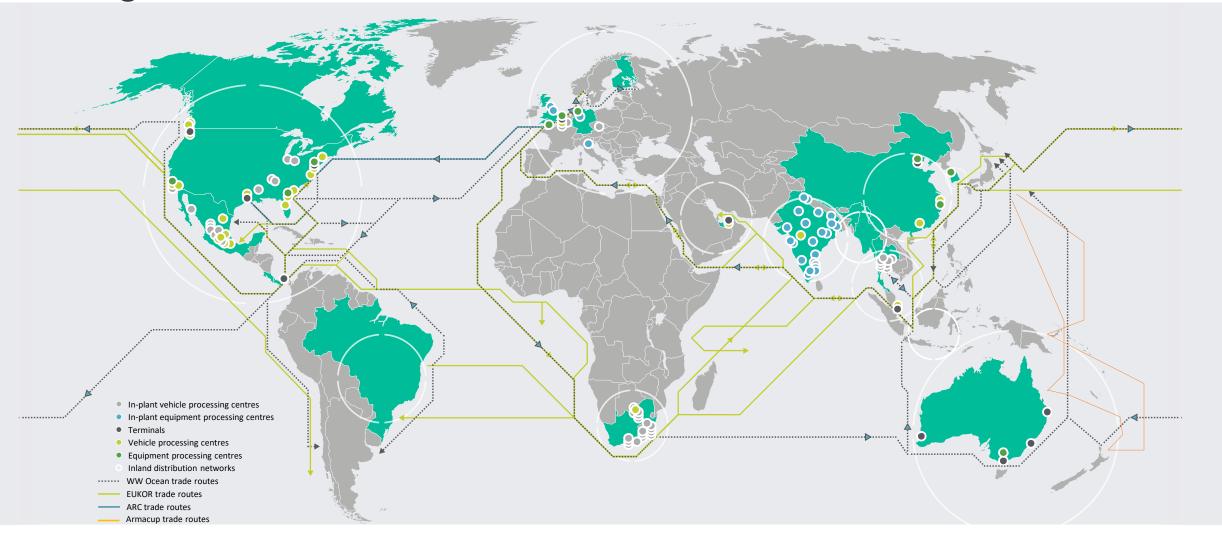


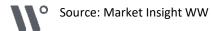
An unrivalled and agile global RoRo network to meet changing demand...



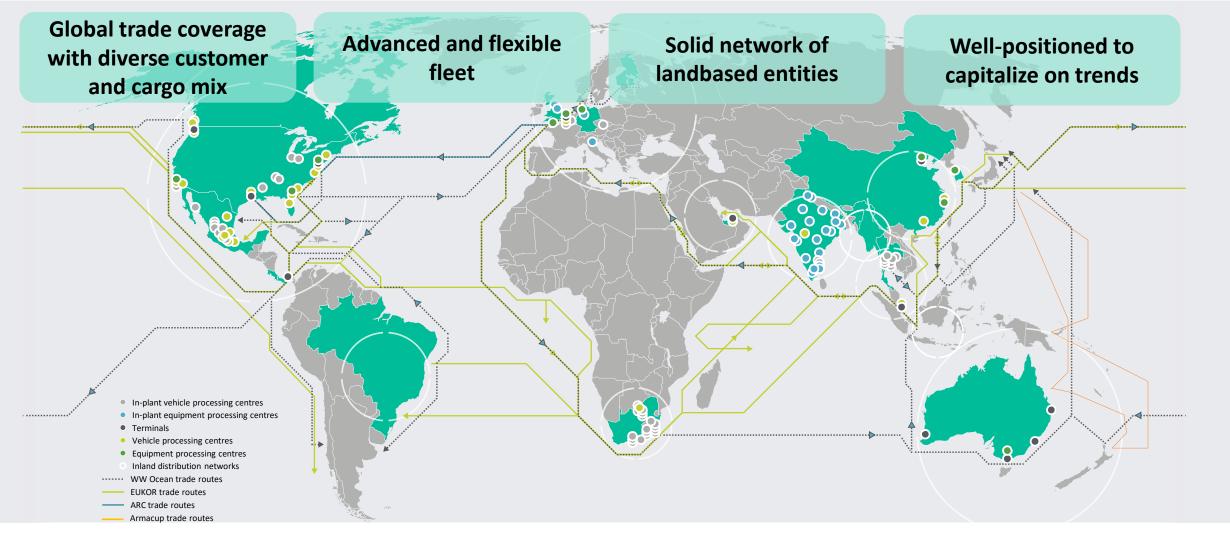


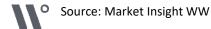
... and a global network of Landbased entities well positioned for future growth





Despite uncertainty in the short term we see solid development expected for the next 5-7 years and remain optimistic for horizon beyond







Decarbonisation in shipping

Indispensable industry, unprecedented challenge

Roger Strevens
VP Head of Sustainability





IMO regulatory targets



- Relative CO2 reduction of at least 40% by 2030 compared to 2008
 - WW CO2 intensity 2008:2018 -32%
- Absolute reduction in total GHG of at least 50% by 2050 compared to 2008
 - Will require **zero emission vessels**

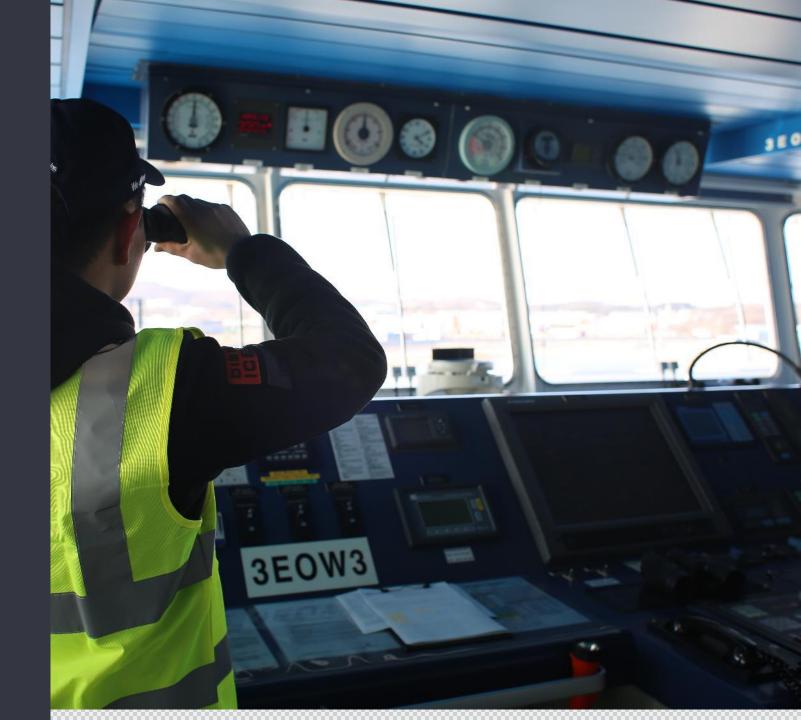
Wider meaning...

- O CAPEX and or OPEX?
- Changes to service?
- o Competitive landscape?
- All of the above
- Engagement advisable



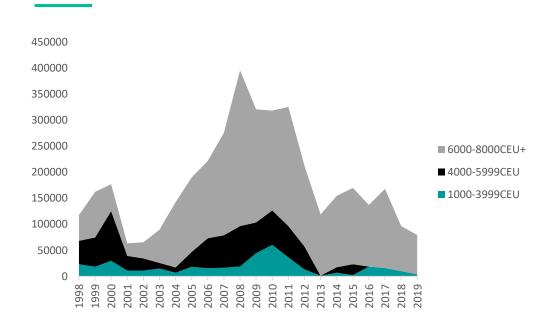


Past to present

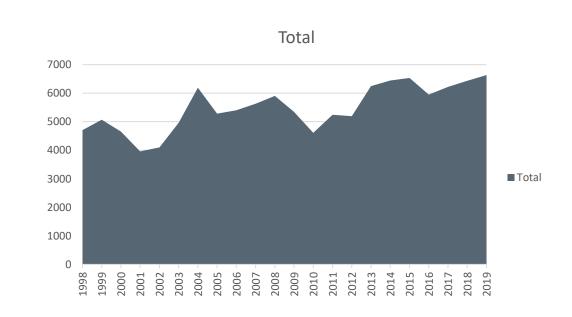


Increase in economy of scale

New vessels have been getting bigger...



....so the fleet average has been increasing





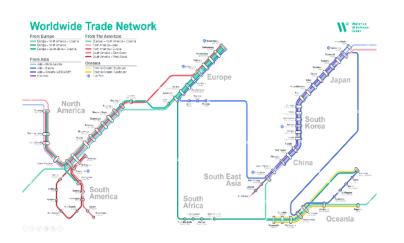
Panama canal expansion



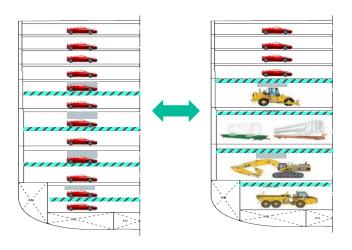




Other contributing factors









Toward 2030...





Digitalisation to extract efficiencies



Hull fouling management to reduce inefficiencies



No comment... for competitive reasons





Pushing progress



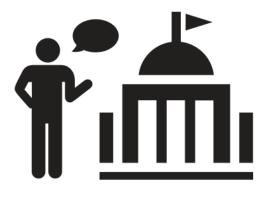
Our approach to achieving progress



Take the initiative to position for the future



Partner to find Lean:Green solutions



Engage in the regulatory process



Attract innovators to our industry



Progress imperatives: 3 perspectives



Incremental reduction

Business as usual



Step improvement

Carbon neutral



Final destination

Zero emissions

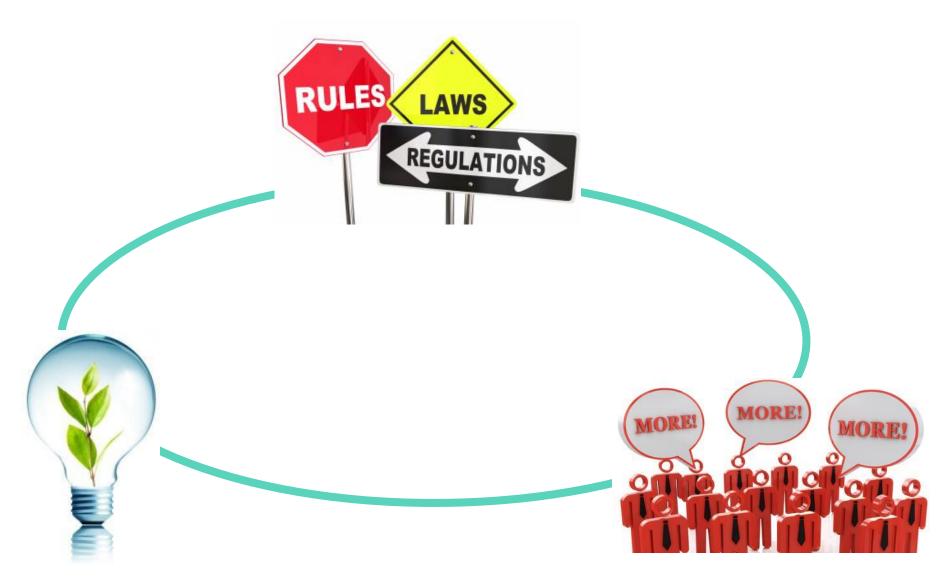


What makes an innovation stack up?





NB: Shifting frame of reference





N° 2020: Next-level transparency

- Addressing climate risk TCFD based on SASB
 - Physical and transition risks
 - TCFD: the 'what', SASB: the 'how'
- CDP: most widely used carbon reporting framework
- SBT: top-down target setting approach
 - Will inform new GHG target setting









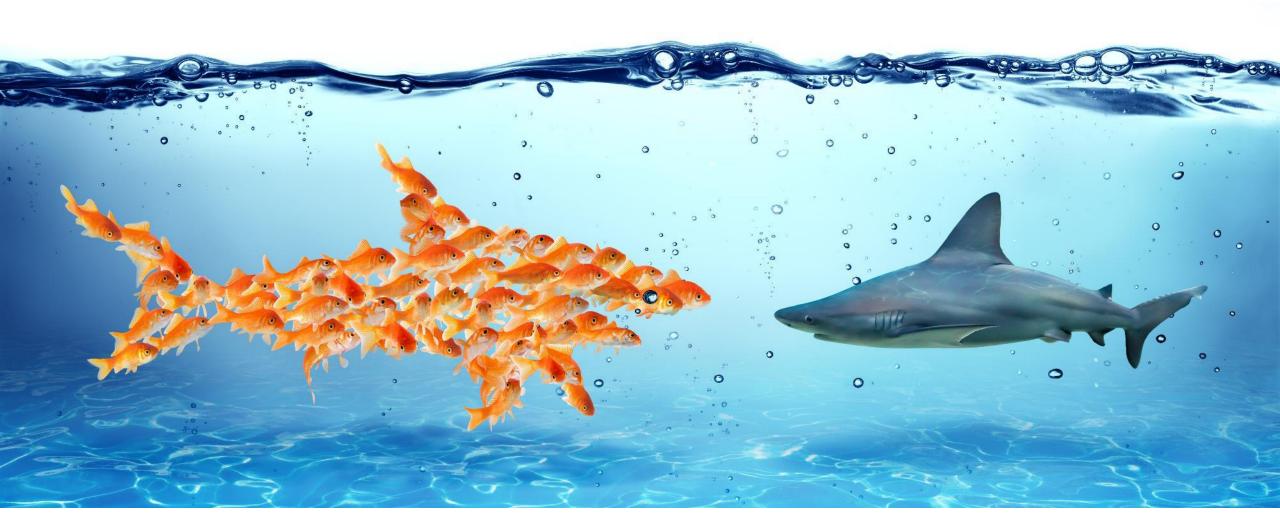
DRIVING AMBITIOUS CORPORATE CLIMATE ACTION



Into the future



Partnership: when the total is greater than the sum of the parts





Wind assisted propulsion



- WPCC: Wind Assisted Car Carrier
- Design development by Wallenius Marine
- Concept feasibly assessment underway
- o Conclusions expected H1 2020





Getting to zero 2030 – we're onboard







'Accelerating maritime shipping's decarbonisation with the development and deployment of commercially viable deep sea zero emission vessels by 2030'



Orcelle Award hosted by the Ocean Exchange



- Forum for accelerating sustainable innovation
- Wallenius Wilhelmsen proudly sponsor
- Helping close gap to zero emissions



- In-water hull cleaning with capture
- Significant operational savings



- Flow battery technology
- o Potential 'at-berth' solution



- 2019 Orcelle Winner
- Carbon-oxide battery





Lean:Green #Leadershipping

Thank you for your attention





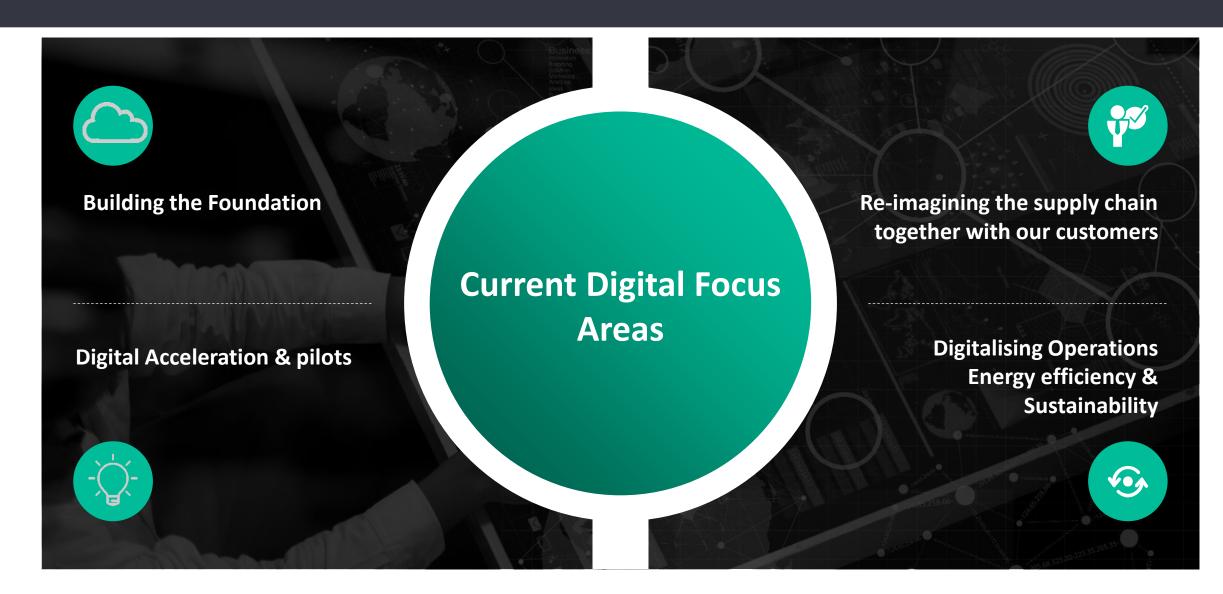
Digitalisation

Simon White EVP and Chief Digital Officer

Mats Amland
VP Head of Transformation Office



W° Digitalisation





Digital pilots



Current activities – Digital Pilots

Corporate Partnership

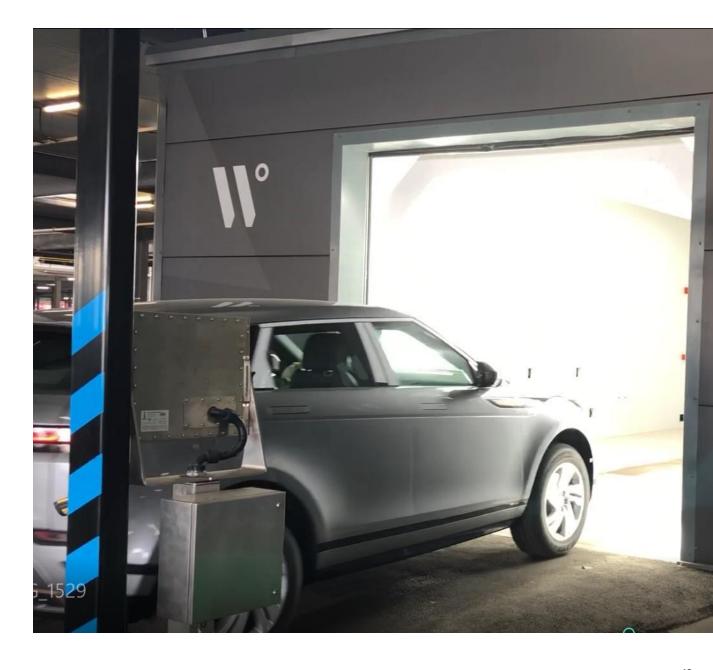
PLUGANDPLAY

- Digitisation of cargo survey
- o Digital Pilots initiated in the areas of
 - Cargo Risk and Biosecurity
 - Mixed reality training
 - Video AI Safety and efficiency
 - Worker safety technology
 - Cargo measurement and yard management
- Partnerships











Re-imagining the supply chain together with our customers

- Immediate opportunity to reduce emissions and lower costs by removing waste in the supply chain
- From track and trace to the intelligent supply chain
- Potential for the connected vehicle in the supply chain
- Digitalised solutions supporting *fleet and mobility* models

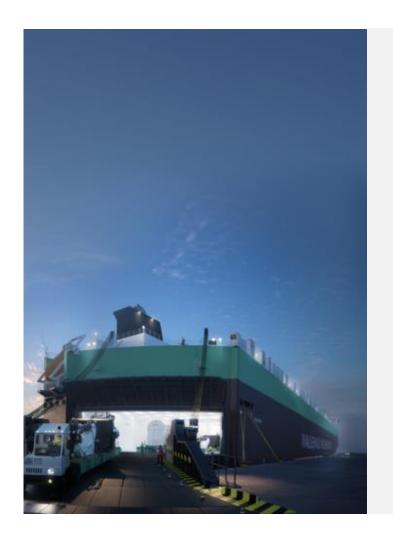




Digitalising Operations Energy efficiency & Sustainability



N° Data connectivity and data platform will form the basis for the digital transformation





Application development AI/ML



Data analysis / science



Digitalisation

The process of considering how best to apply digitised information to simplify specific operations.



Digital Transformation

The process of devising new business models that integrate all the digitised data and digitalised applications.



Data platform



Data connectivity

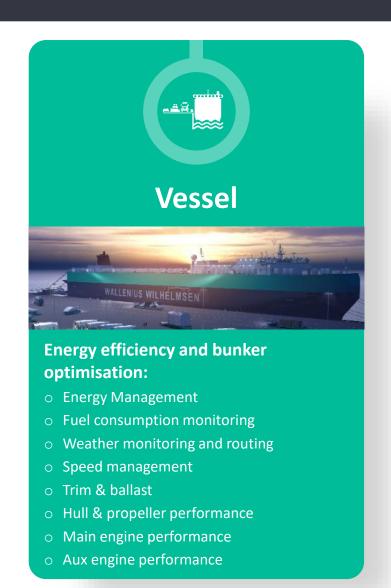


Digitisation

The process of making information available and accessible in a digital format.

W°

Vessel digitalisation has great potential to improve efficiency across vessel, voyage and cargo



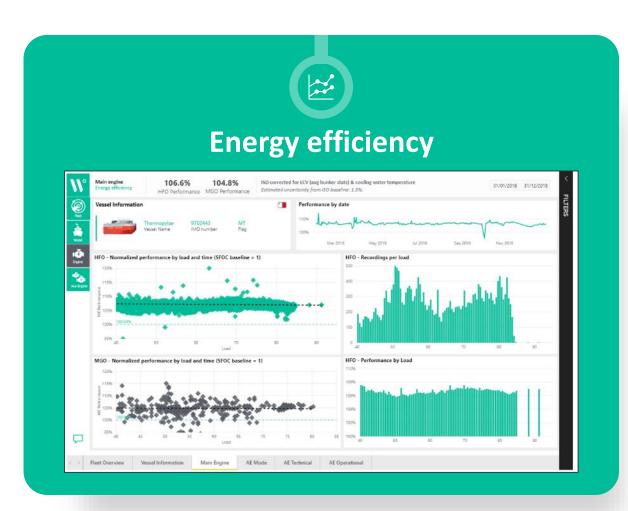


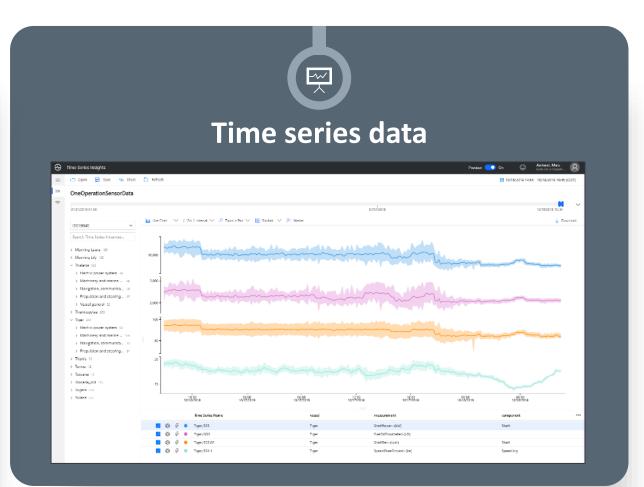
- Tonnage planning
- o Bunker management
- Voyage management (Trade)
- o Predictive maintenance
- Maintenance management
- o Performance management



- Stowage and cargo optimisation
- EDI, Customs++
- Customer data support

W High frequency data opens up opportunities through analysis and real time monitoring

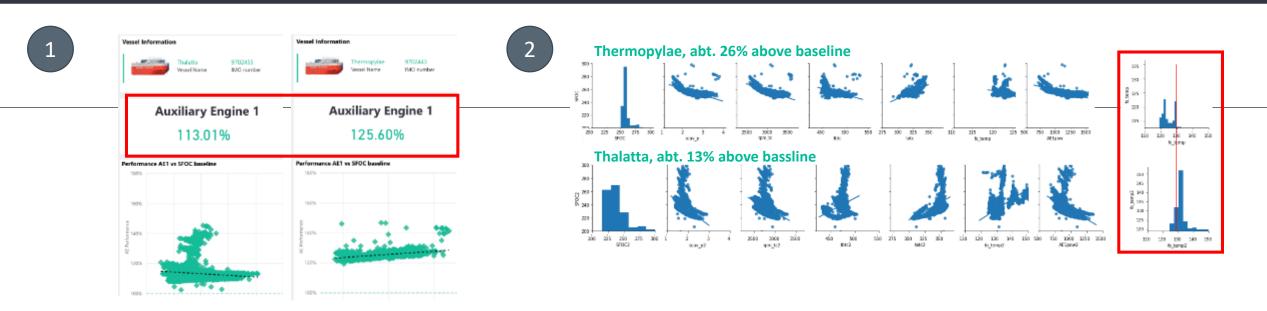




W°

A real-world example: finding inefficiencies based on granular data

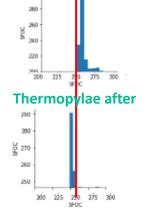
- and taking corrective action

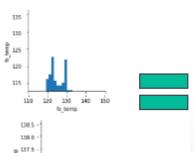


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Thermopylae before





\$ 137.0



N° Digitalisation benefits across the supply chain





Sustainable logistics for a world in motion

