

How is Artificial Intelligence Changing Shipping?



“The development of full artificial intelligence could spell the end of the human race!”



“We should not fear AI. In the last 30 years we make people like the machine, in the next 30 years we make machine like the people”



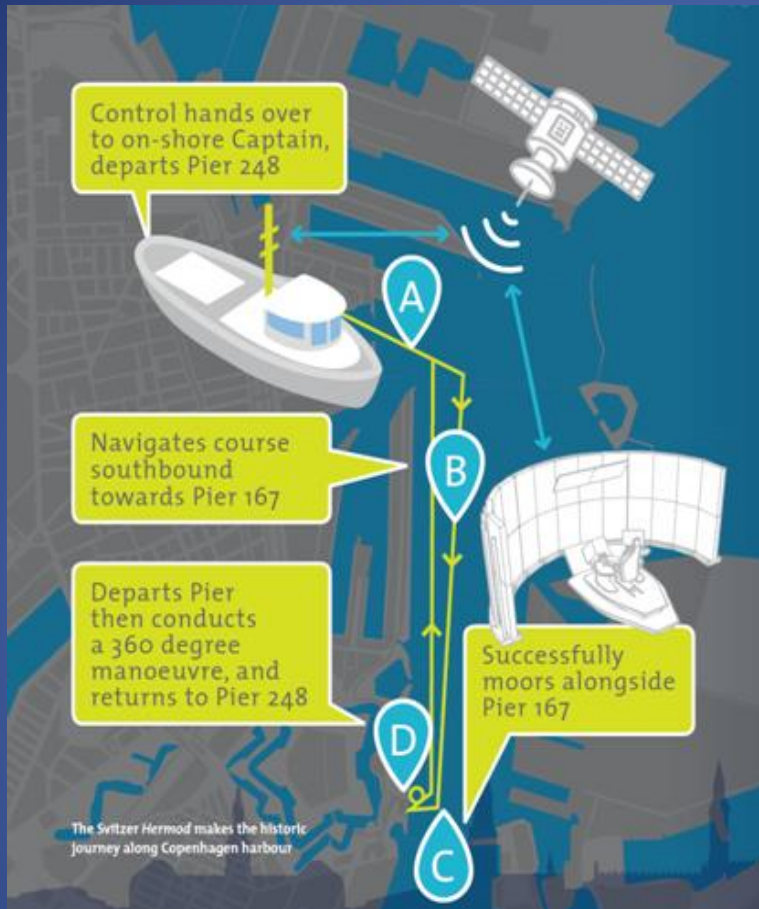
“AI will do more for humanity than fire or electricity”

How is AI changing Shipping?

1. The Vessel
2. The Port
3. Management



1) The Vessel



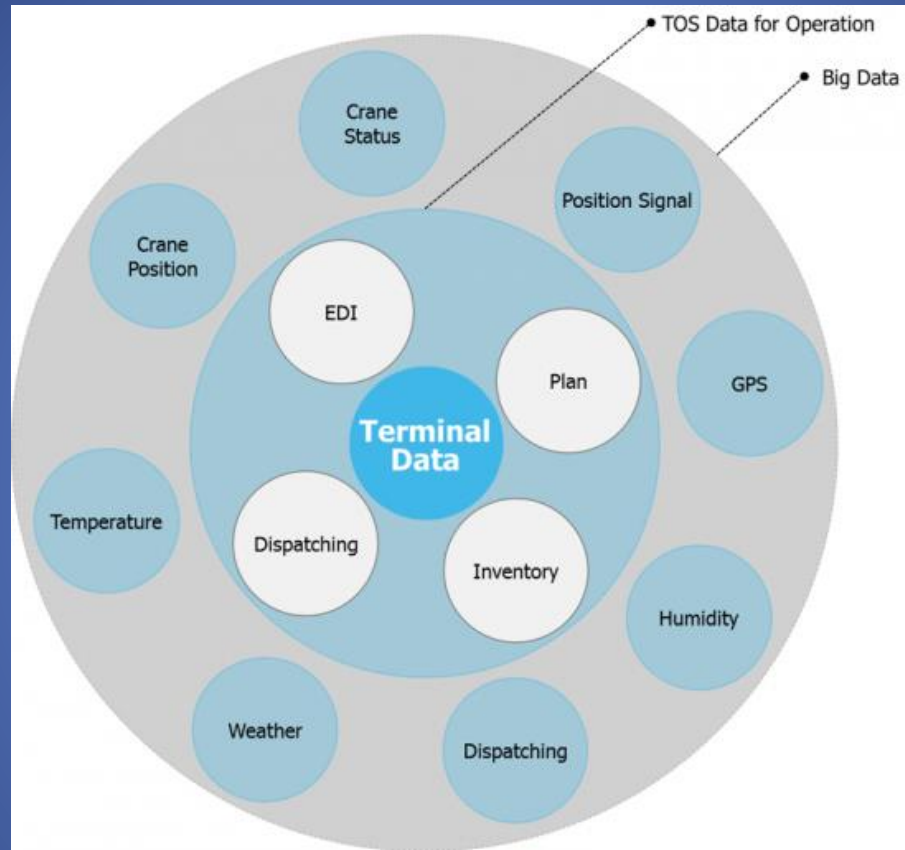
Rolls Royce successfully trial remote control vessel in Copenhagen Harbour



DNV view of the future



2) The Port

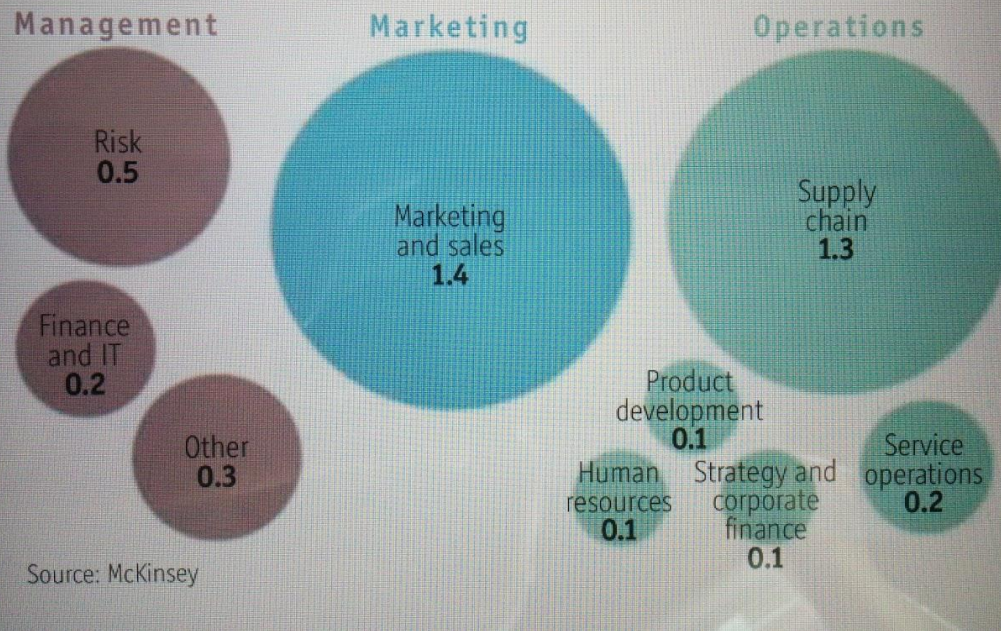


Source: CyberLogitec

Different data groups in a port

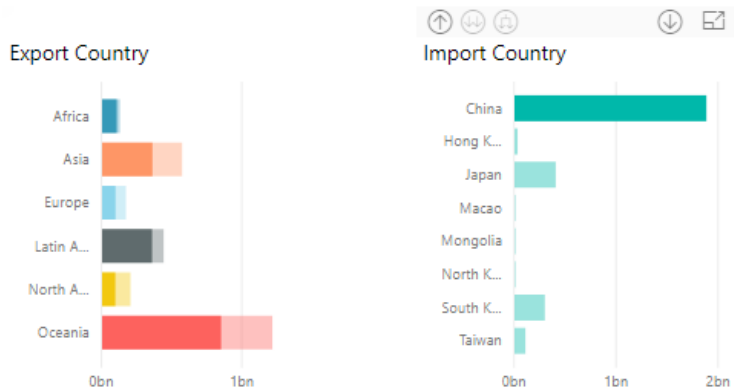
Ballooning

Potential economic-value creation from AI in the next 20 years
\$trn

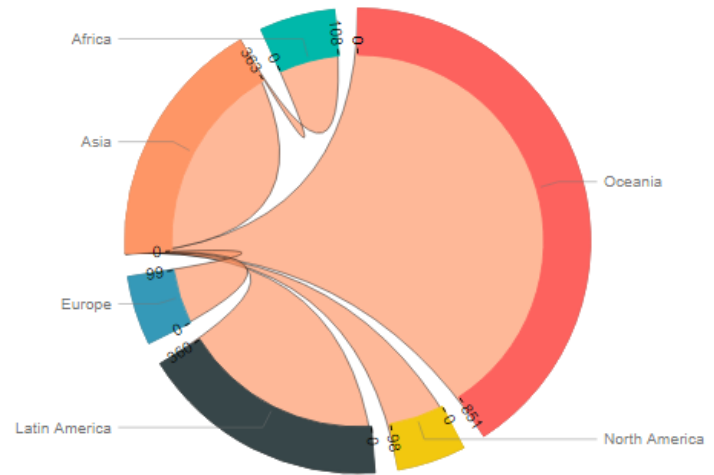


3) Management

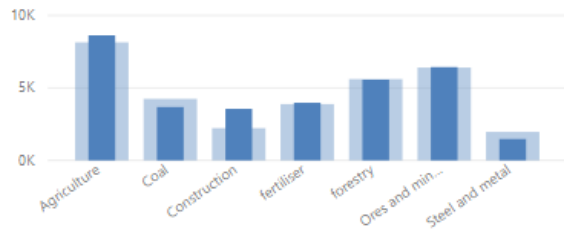
Tonne Mile Analysis



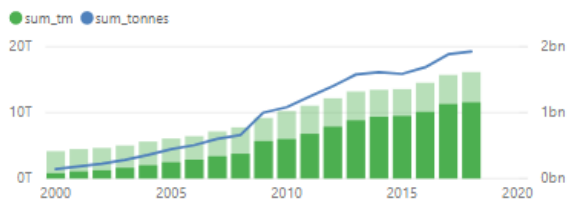
Tradeflow in Million Tonnes



Average Mile by Cargo



Tonne vs Tonne mile

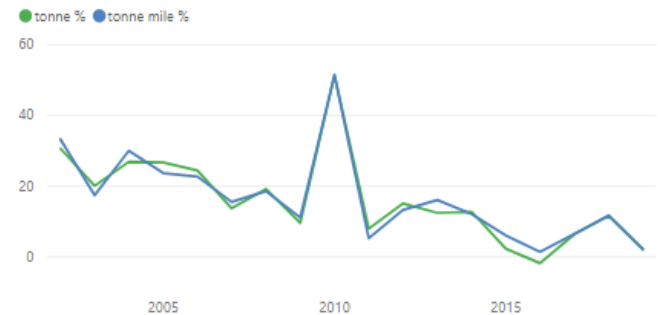


2017

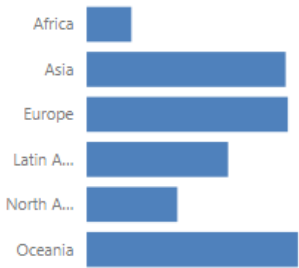
Tonnes
1.89bn

6.00K
Average Miles

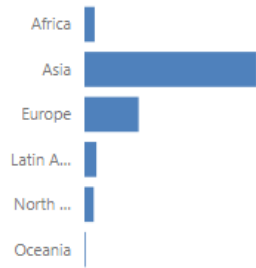
Cargo Growth



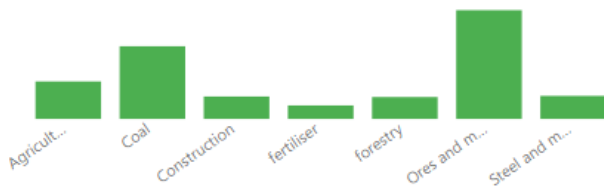
Export



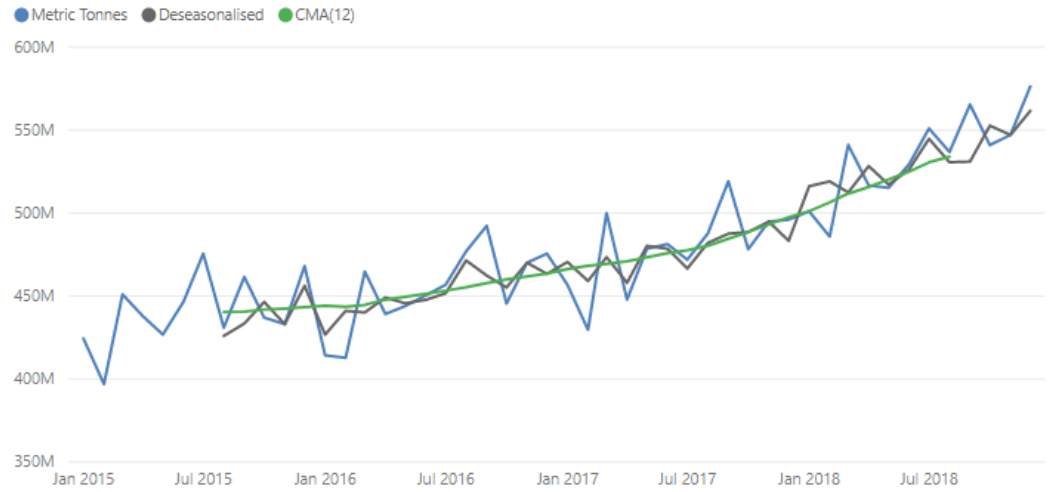
Import



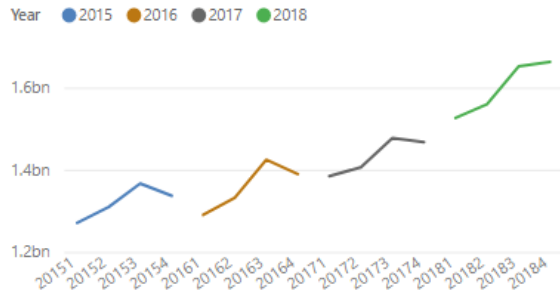
Cargo



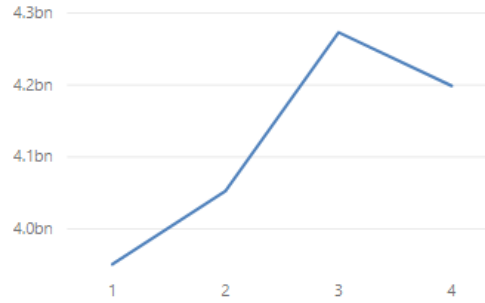
Monthly Trade



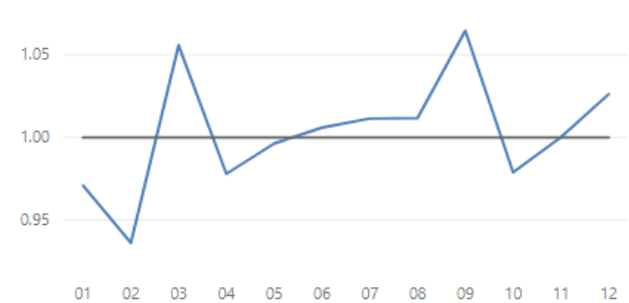
Quarterly Trade



Trade by Quarter

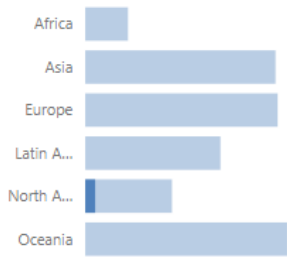


Calculated Seasonal Variance by Month

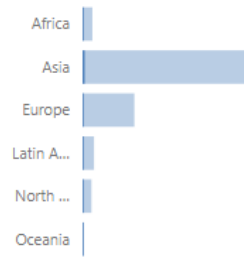


Seasonality of Dry Cargo fleet

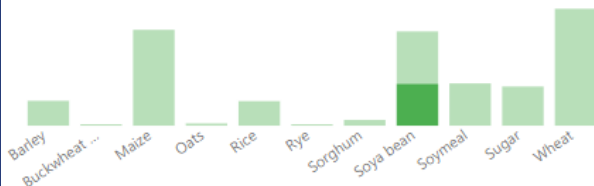
Export



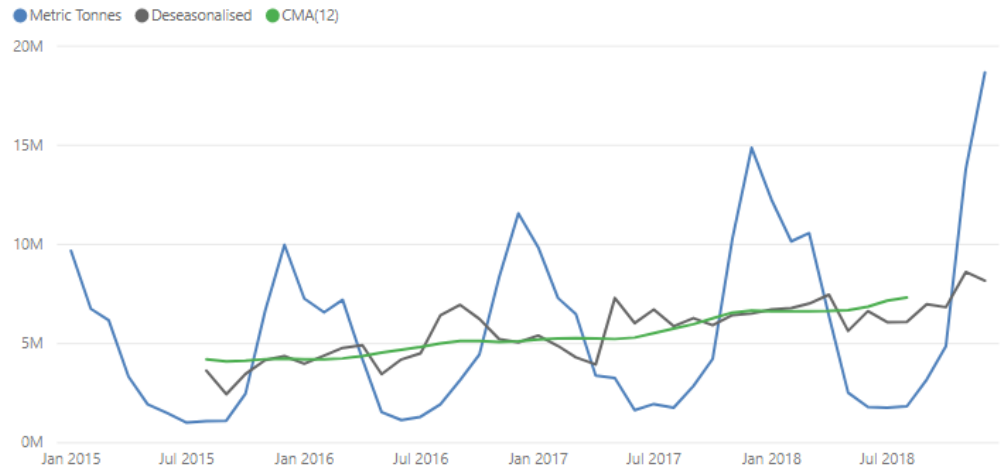
Import



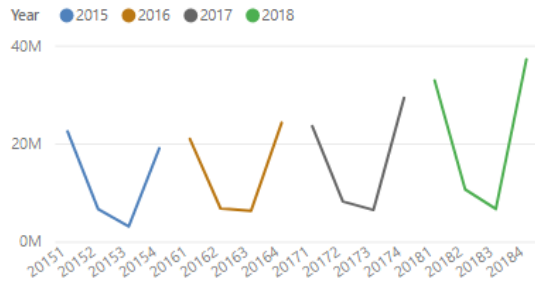
Cargo



Monthly Trade



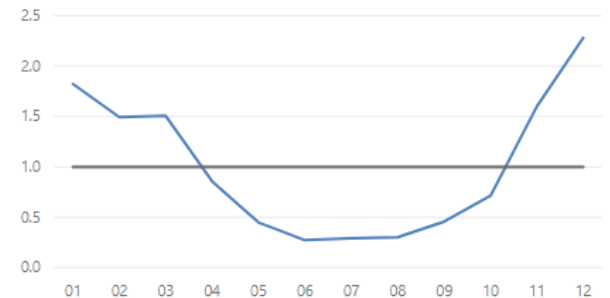
Quarterly Trade



Trade by Quarter



Calculated Seasonal Variance by Month



Seasonality of Soya bean in North America

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