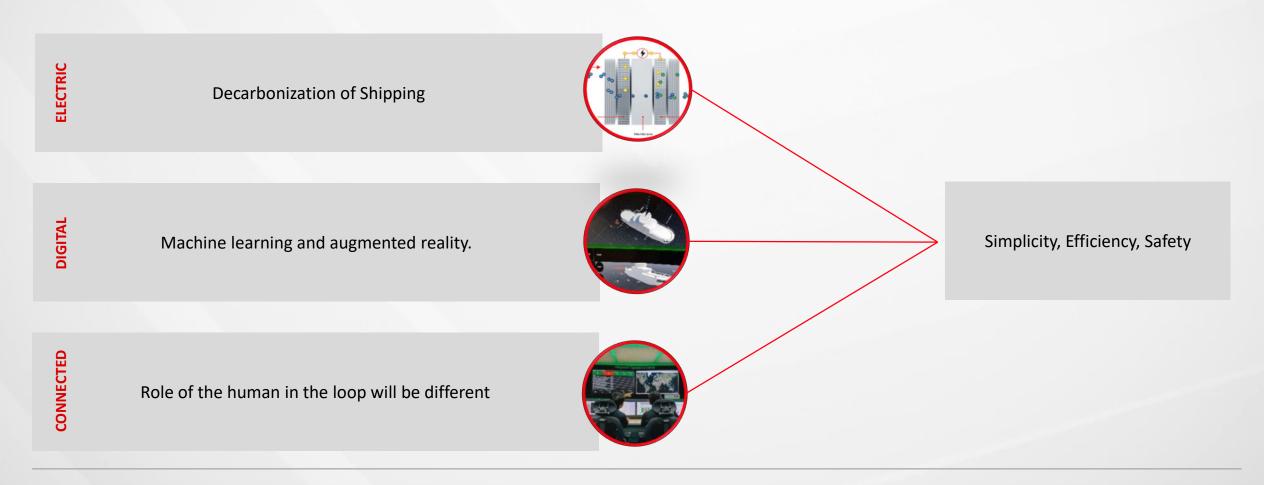


How to cope with disruption?

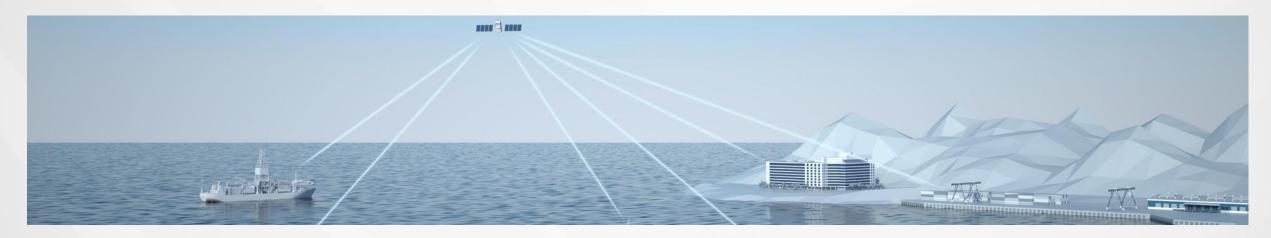
Foundations have changed. Operations will change.





Marine & Ports Business

Integrated solutions to improve our customers profitability



Marine

Our markets

- Cruise and ferry
- Offshore
- Icegoing
- Cargo
- Specialized vessels

Our offerings

- Propulsion products, Azipod[®] propulsion
- Electrical systems
- Automation and software
- Integrated operations

Ports

Our markets

- Container terminals
- Bulk cargo terminals
- Port infrastructure and shoreto-ship power

Our offerings

- Automated container and bulk handling
- Port infrastructure electrification and IT
- Remote operations



Shaping the world through innovation

Pioneering technology





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Intelligence

Component level data

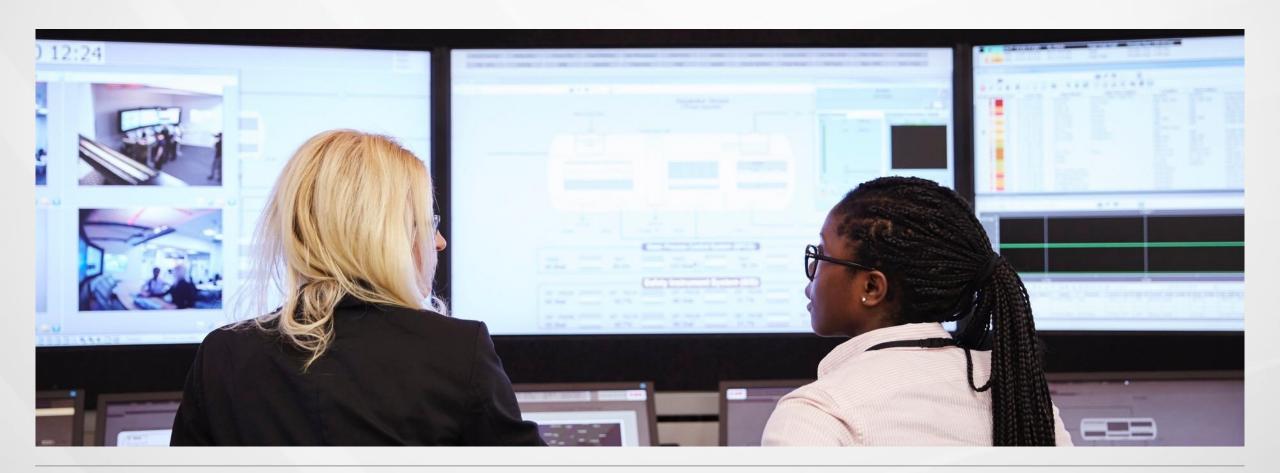




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Predictability

Underpinning business performance





Data sharing

Point to Point

Maersk blockchain insurance platform goes live

Partners including EY and Microsoft claim world first in marine hull sector.

May 25th, 2018 07:58 GMT by Gary Dixon

AP Moller-Maersk's blockchain marine hull insurance venture is now live.

The Danish giant first announced a plan to launch the platform, Insurwave, in September with EY, Microsoft, Guardtime and other industry participants.

The encryption technology will support more than half a million automated ledger transactions and help manage risk for more than 1,000 commercial vessels in the first year, it said.

Industry Wide



Liner giants plan trade association in digital drive

Maersk, ONE, CMA CGM, MSC and Hapag say group will strive for "less red tape and better transparency".

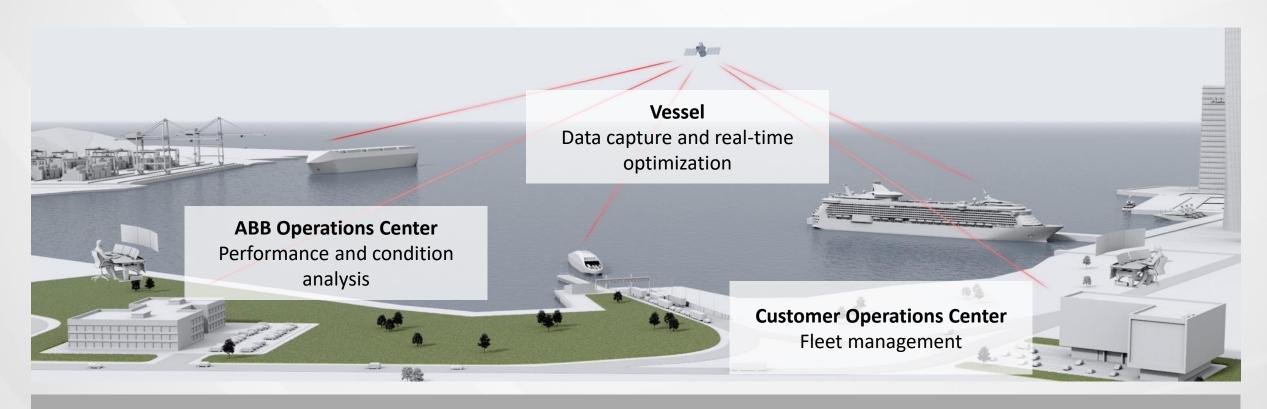
November 15th, 2018 00:39 GN

Data sharing produces exponential results across the industry



Electric. Digital. Connected.

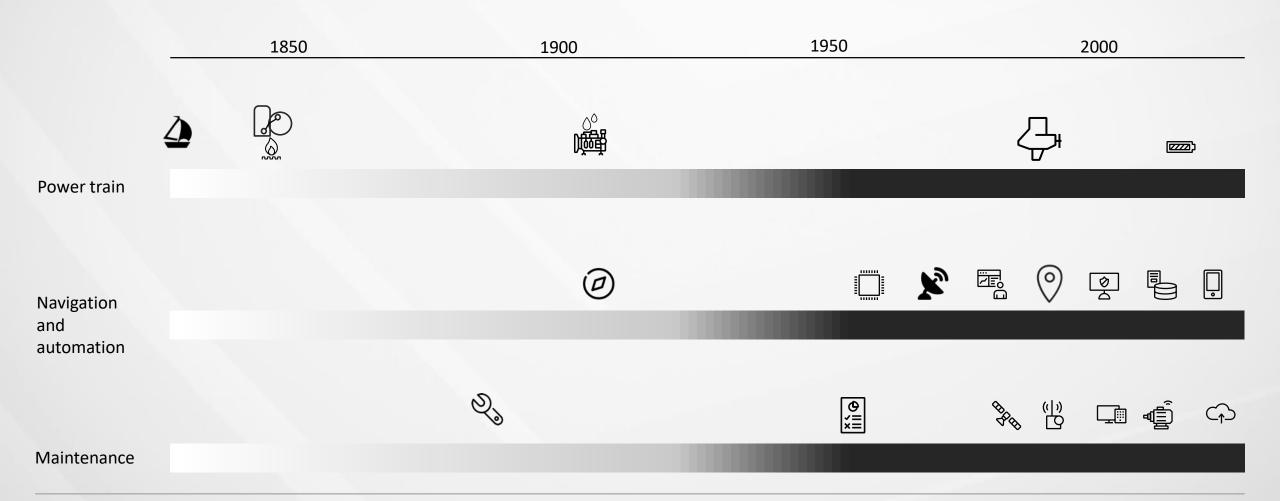
Transparency



Connecting vessels and shore operations with our experts



We do not want to change





Roadmap

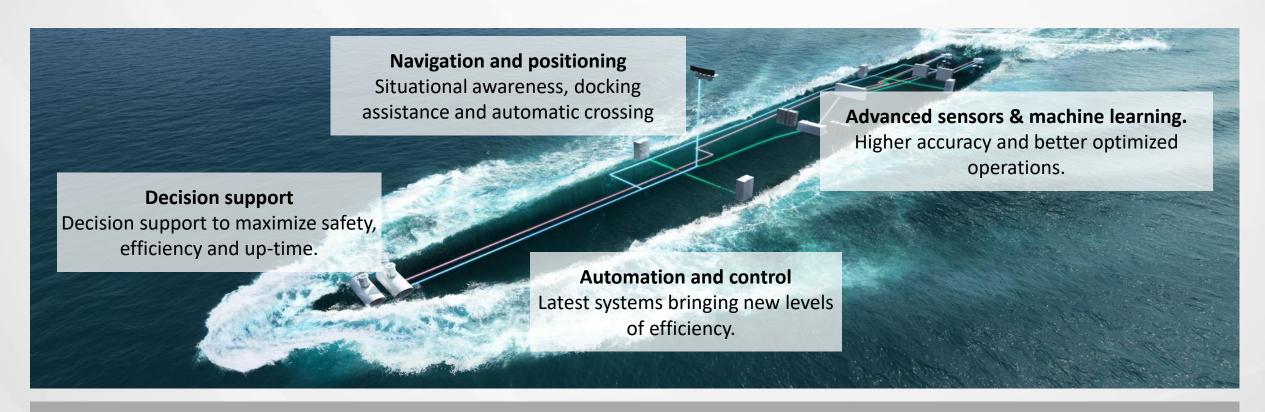
Onshore Onshore situation Remote control Fleet situation and intervention awareness awareness Onboard Advisory Docking assistance & Collision prevention Situation awareness advisory Onboard Control B0 bridge Automatic collision Automatic operation Automatic docking (conditionally unmanned) prevention Optimized vessel control Advanced manoeuvring control



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Electric. Digital. Connected.

Digital



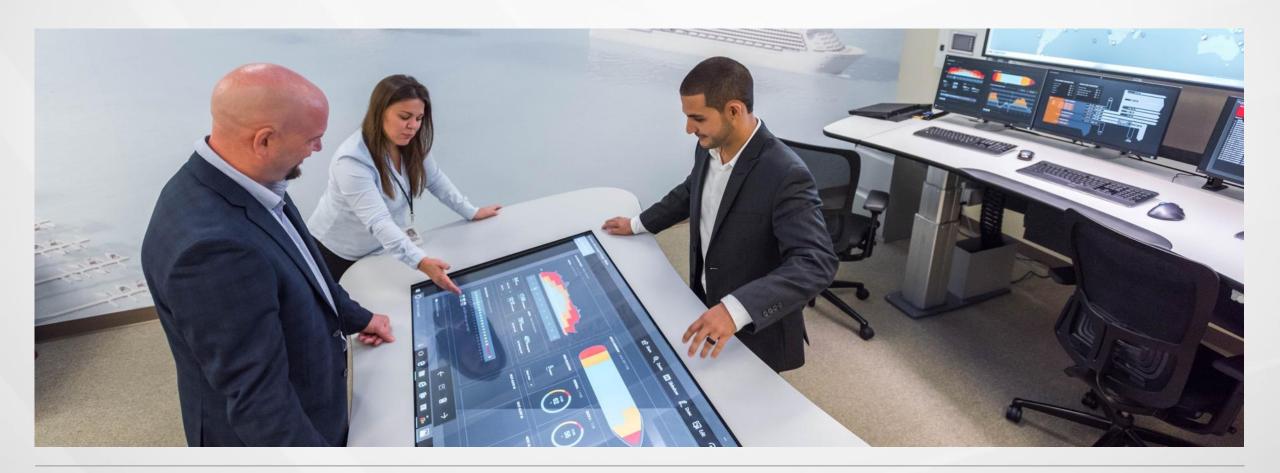
Digitalization is changing the way ships are designed and operated



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ABB AbilityTM Collaborative Operations

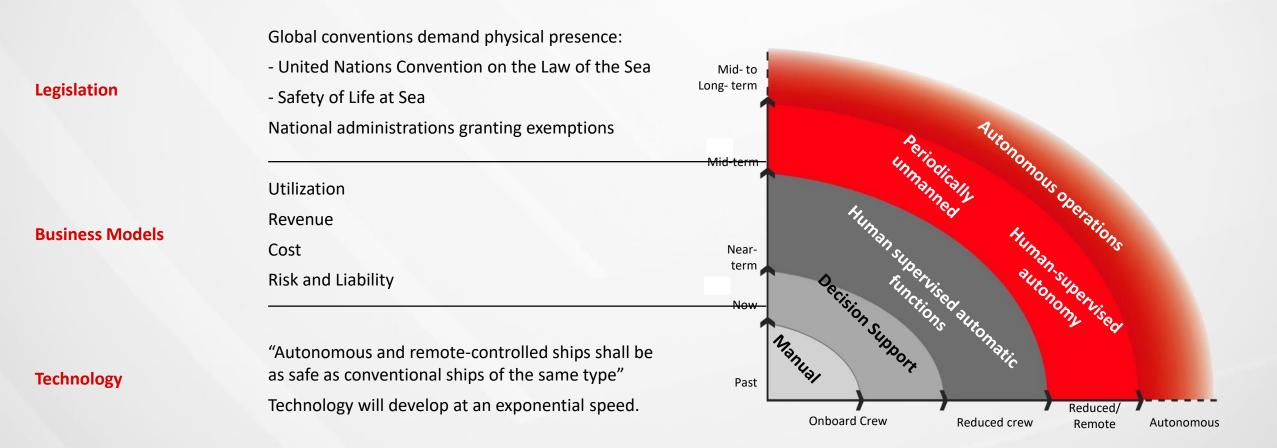
Always on watch





Market will develop gradually

Decisive factors





Market will develop gradually

Local traffic



Innovations applied differently



Situational awareness

Motion control



Collision avoidance & Object recognition

Electric and self-healing machinery

Ocean Going



Same technology – different applications



How to cope with disruption in shipping?

Electric.

Digital.

Connected.







... something we know a whole lot about.

