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Autonomous Solutions

Debunking 5 myths on Autonomy

WorkBoat Show, New-Orleans, 1-Dec 2021

Olivier Cadet, SVP Global Operations, Americas

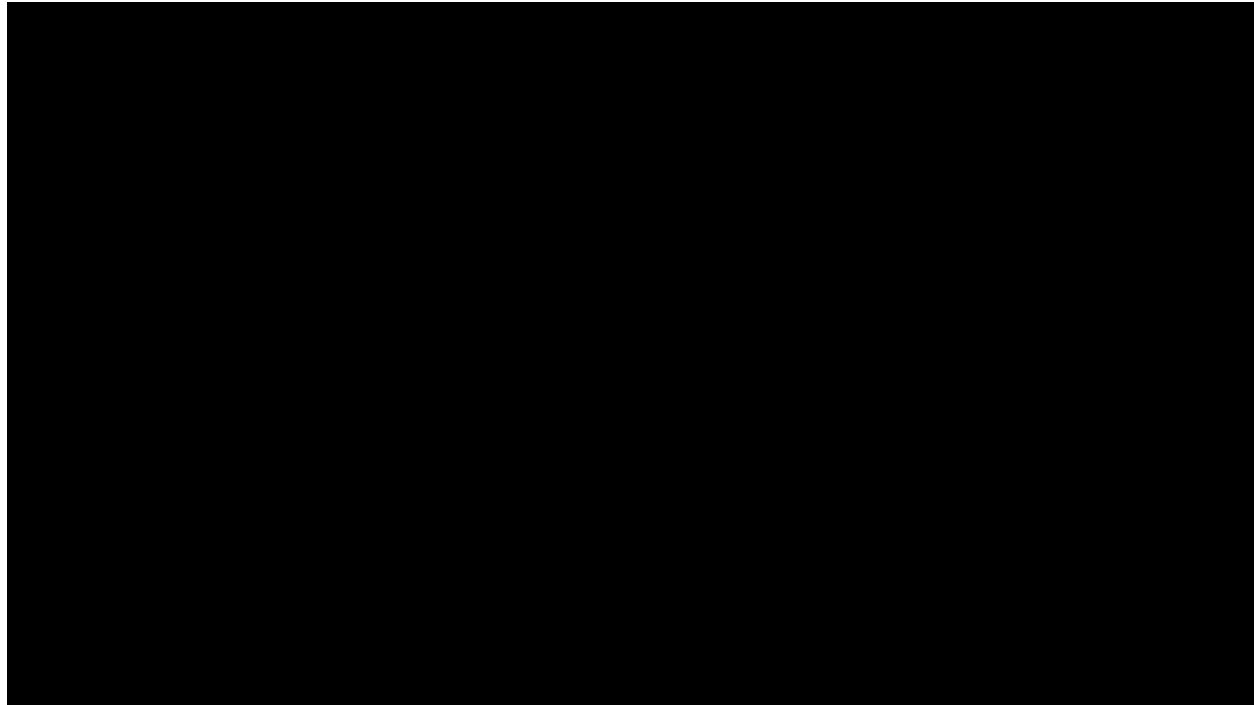


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We Are on a Collaborative Journey



Zero Emission Autonomous Container Feeder
Concept introduced in 2018



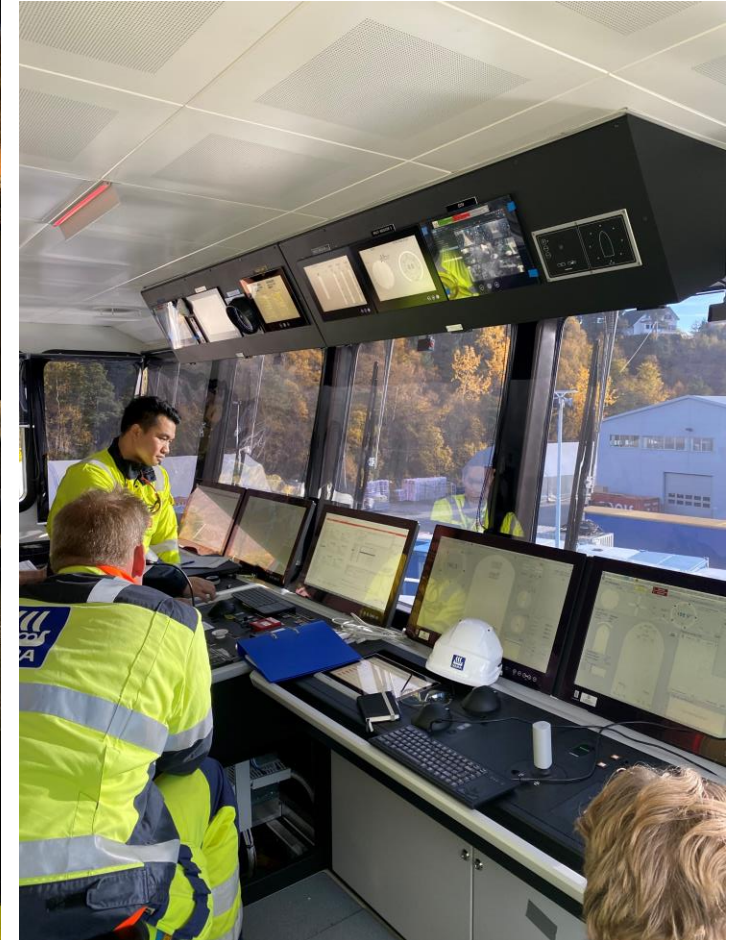
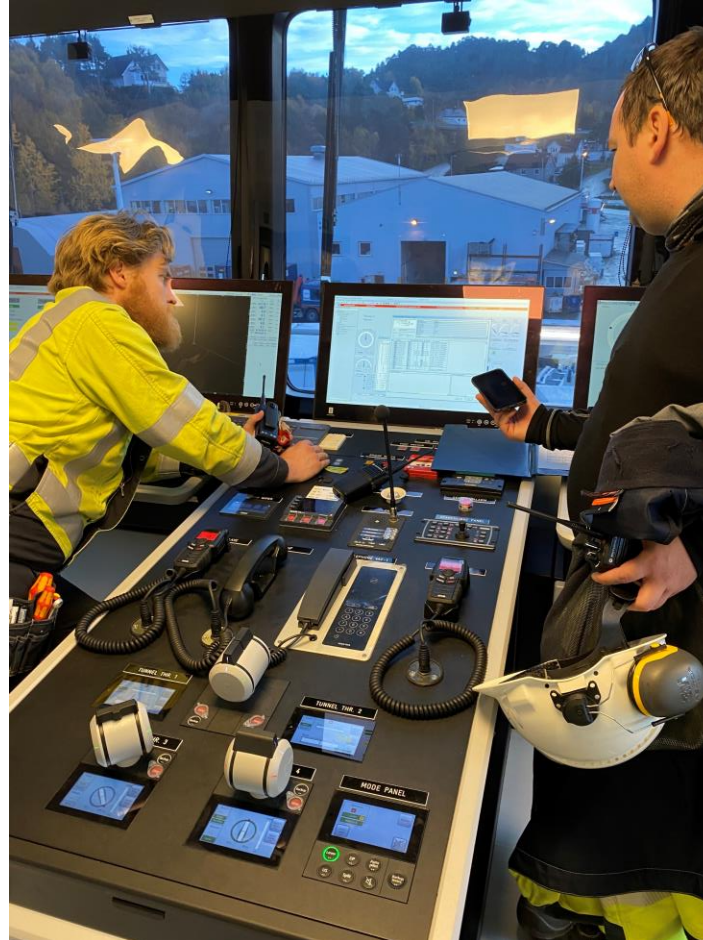
Vessel under test in 2021



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Yara Birkeland

From Reduced Crew to Fully Autonomous





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Myth #1

Autonomy or Automation?





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Myth #2

Remote and autonomy is new for the maritime industry





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Learn From Current Applications

Re-purpose what works in other applications and let's not reinvent the wheel!



Sensors & Robotics

HUGIN



Integrated Solutions

Dynamic Positioning, Automation & Propulsion



Next Generation Control System

KCS – Safety Automation System on Johan Sverdrup platforms handling 160,000 I/O



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Myth #3

Any vessel can be made autonomous by adding the right sensors and control logic





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Design for safe, reliable, predictable and efficient autonomous operations

- Manage mission
- Navigate vessel
- Operate ship systems
- Monitor equipment
- Backup options





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Myth #4

*Autonomy will happen as
a step-change for the
maritime industry*

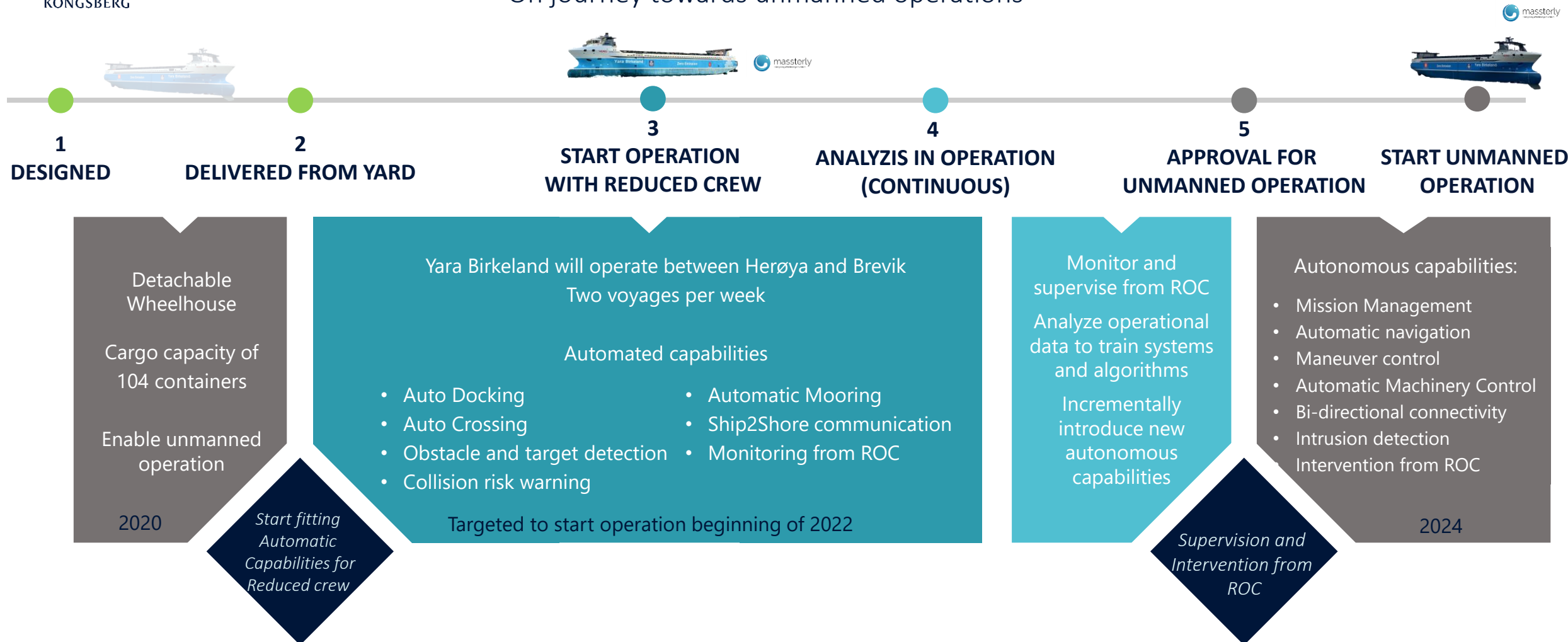




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On journey towards unmanned operations





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Myth #5

Autonomy means that seafarers will lose their jobs

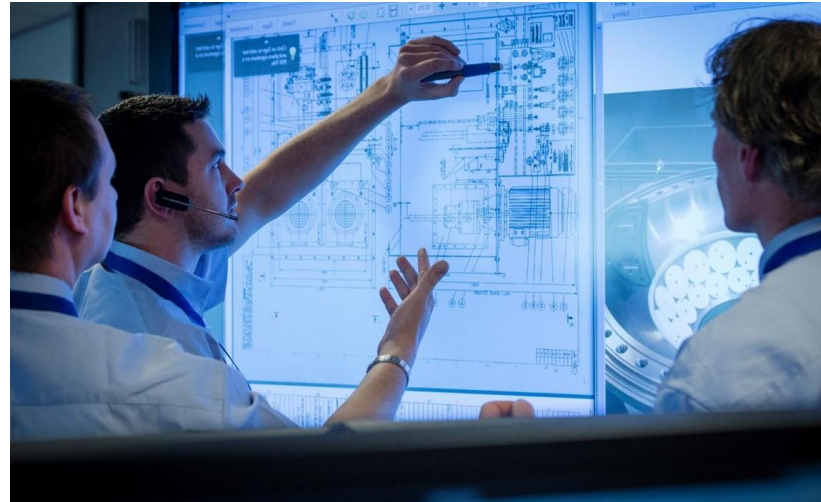




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The Human Will ALWAYS Be in the Loop

But where in the loop?



Design
Testing and Validating
Mission Planning
Exceptions Handling
Regulating

Do we have the right skillsets to handle Autonomous Operations in the maritime industry? And how are we approaching training of the next generation seafarers?



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Culture of Relentless Continuous Improvement and Knowledge Sharing





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Thank You

