



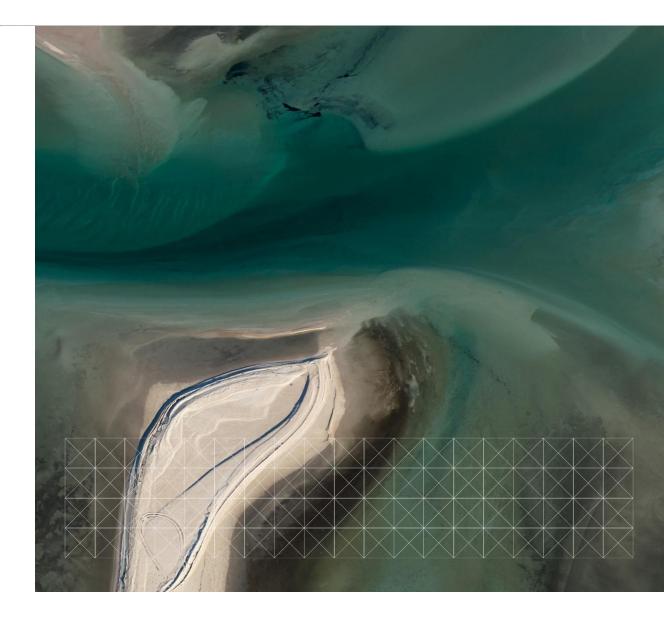
KONGSBERG

KONGSBERG MARITIME

The Value of Human Factors in the process of developing secure systems

18/10/2023

Oscar Kallerdahl, Director Automation & Control Cyber Security, Remote & Autonomy and Systems



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KONGSBERG SIZE AND SCOPE







KONGSBERG – 4 strong business areas





Kongsberg Maritime in brief

AUTOMATION & INTEGRATION 6,000+ employees & ENERGY CONTROL 19 BNOK revenues* PROPULSION 24/7 GLOBAL 32 CUSTOMER SUPPORT & HANDLING countries Equipment on **GLOBAL SALES AND OPERATIONS** 33,000 vessels

*2022 FY. Incl. Kongsberg Discovery

Protechting

people and planet



Remote & Autonomous

Integrated solutions



VESSEL SYSTEMS



CONNECTIVITY SYSTEM



REMOTE OPERATIONS CENTRE





The pioneer trail, towards an **autonomous future**



Remote & Autonomous

Integrated solutions



Fully electric autonomous coastal feeders- zero emissions

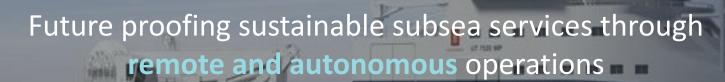






Remote & Autonomous

Integrated solutions







ROV operation Survey operation

ROC

ROV

(ROC)

Vessel

 \wedge

Other vessels

SHIP NAME

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WP4 O

Transit

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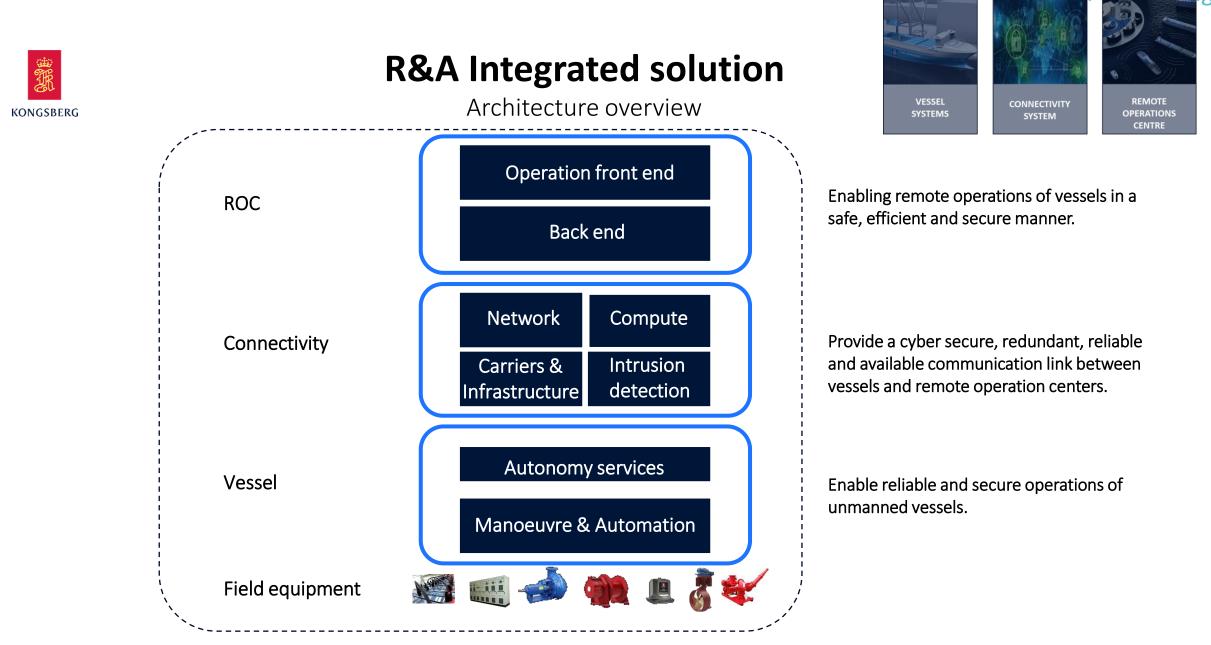


Remote & Autonomous

Integrated solutions

Fully electric autonomous road ferries - zero emission

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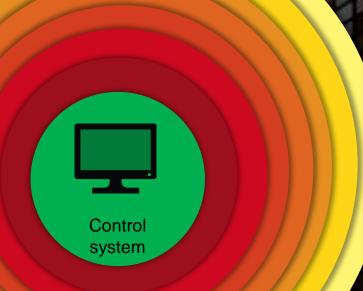


WORLD CLASS - Through people, technology and dedication

Cyber Security – Strategy









PUBLIC

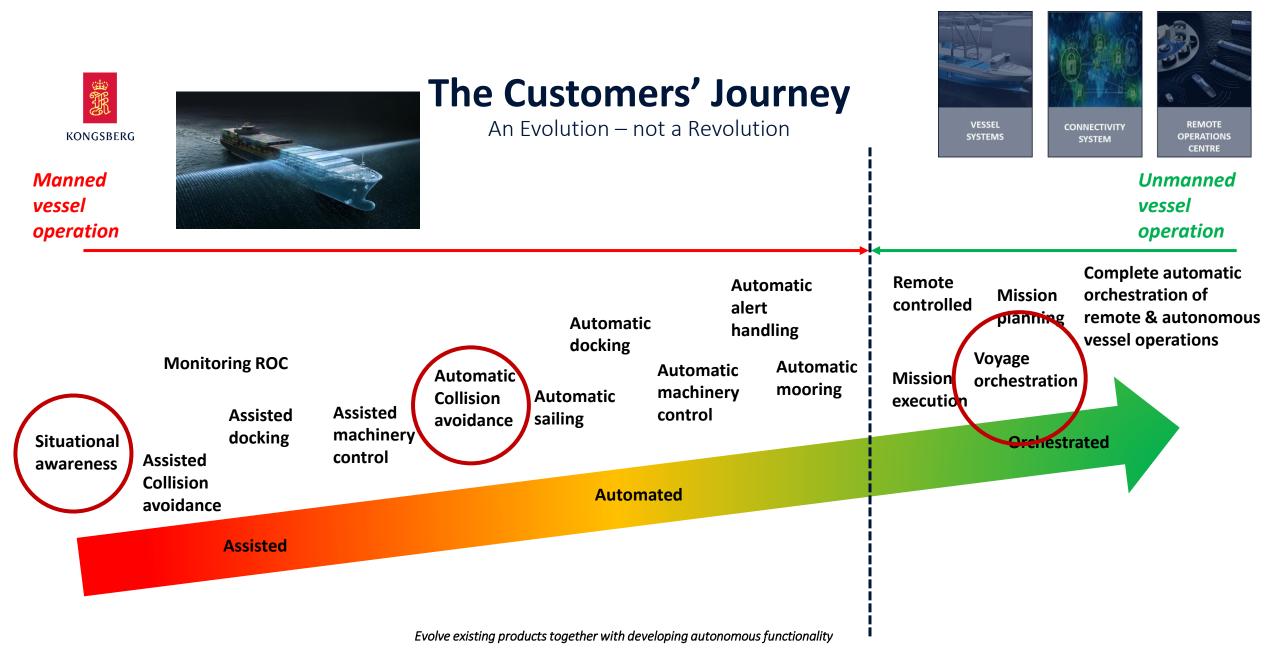
The Customer's Journey

A Conservative Industry





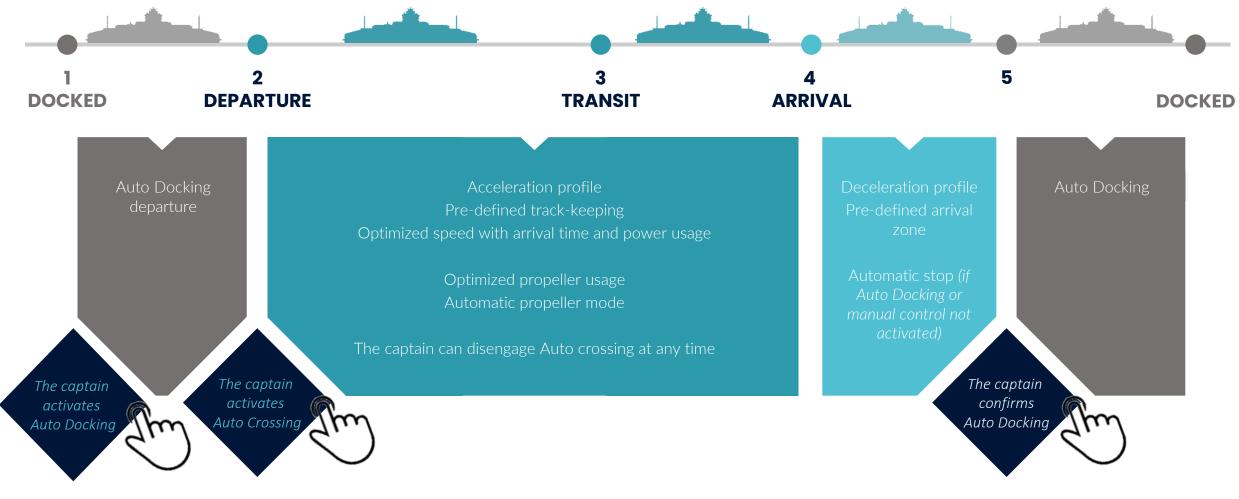
• 25 year vessel lifetime





System Operation

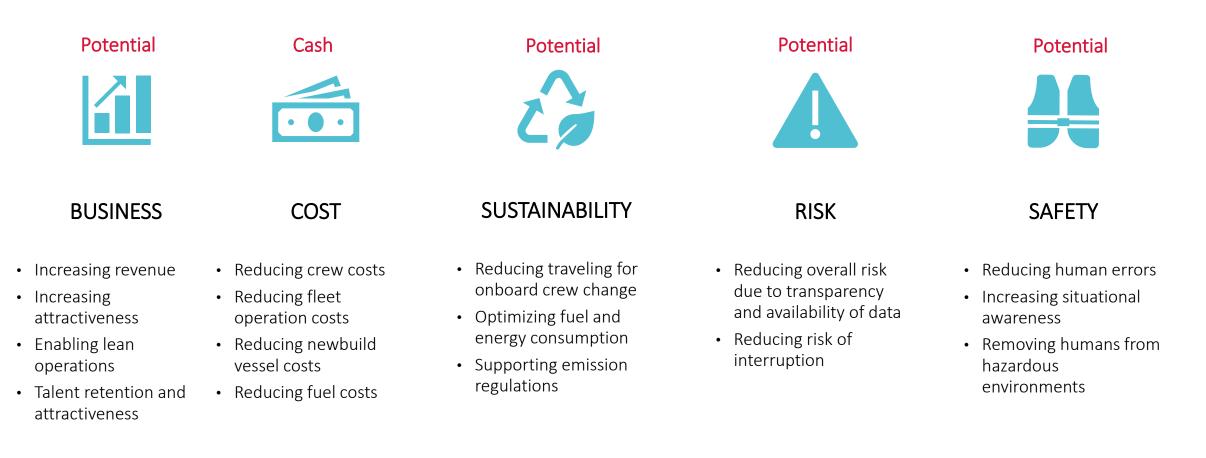
Auto Crossing and Docking





Value Proposition

People – Planet – Profit





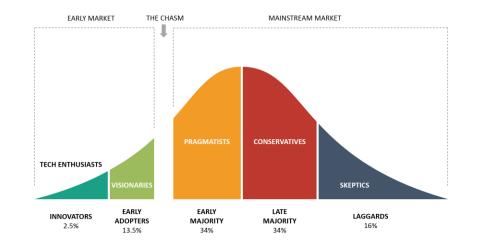


Value Proposition

Customers' Perceived Value

...depends on Customers'

- Speed of Adoption
- Risk Management Maturity
 - Risk Evaluation
- Long-term vs short-term focus
- Competitors







SAFETY



A Star

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W.



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Thank You.



Yara Birkeland

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