



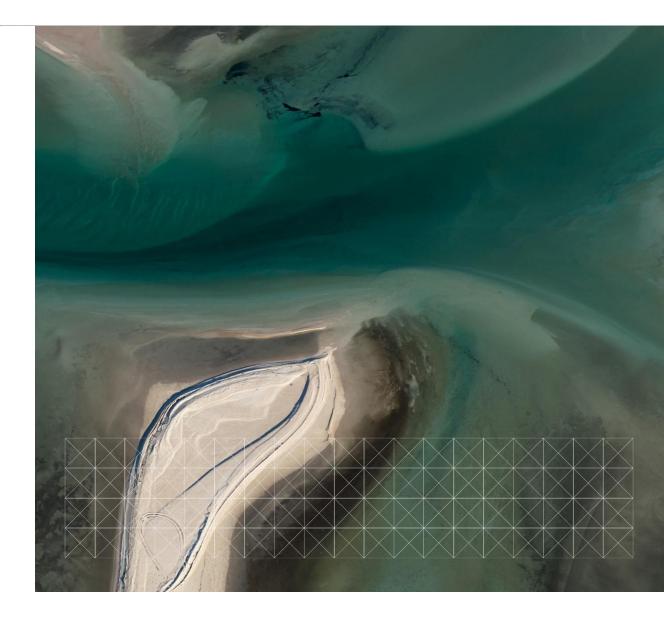
KONGSBERG

#### 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

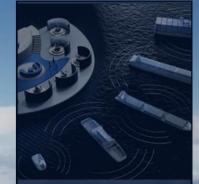
Integrated solutions



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

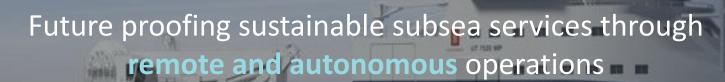






# Remote & Autonomous

Integrated solutions







ROV operation Survey operation

ROC

ROV

(ROC)

Vessel

 $\wedge$ 

Other vessels

SHIP NAME

**о**<sup>wp3</sup> О

WP4 O

Transit

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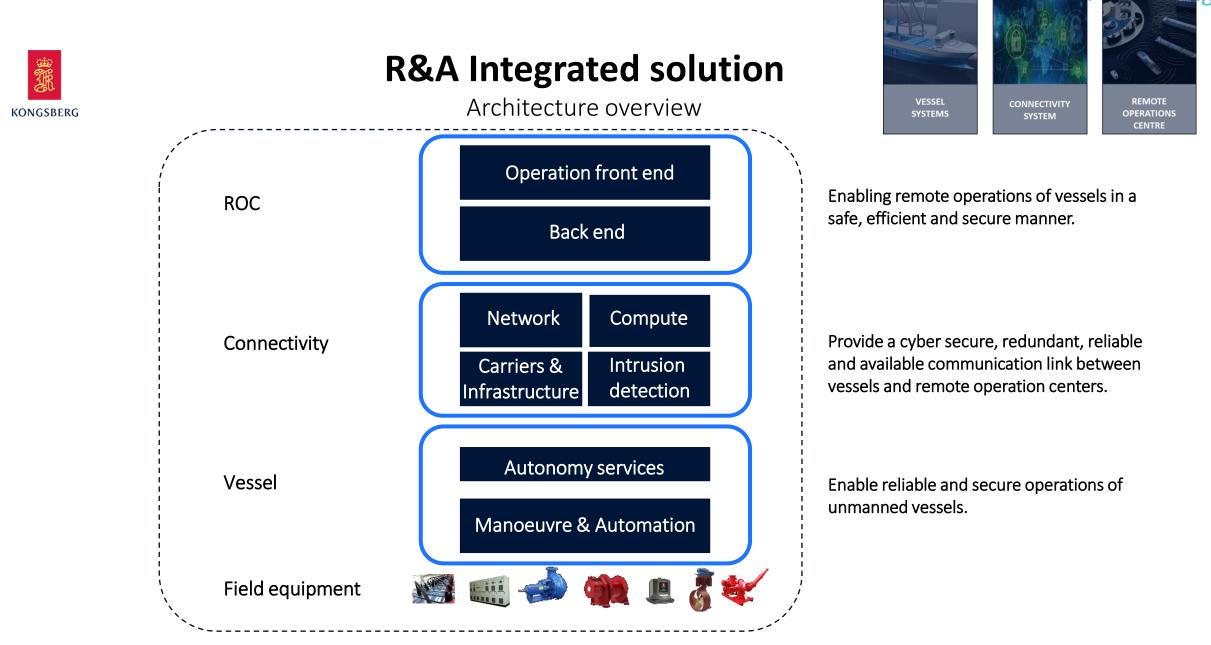


### **Remote & Autonomous**

**Integrated solutions** 

## Fully electric autonomous road ferries - zero emission

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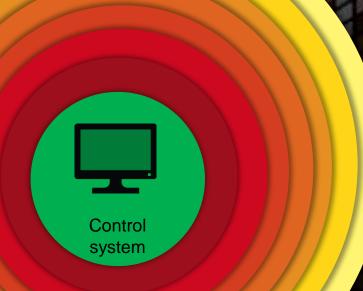


WORLD CLASS - Through people, technology and dedication

# **Cyber Security – Strategy**









PUBLIC

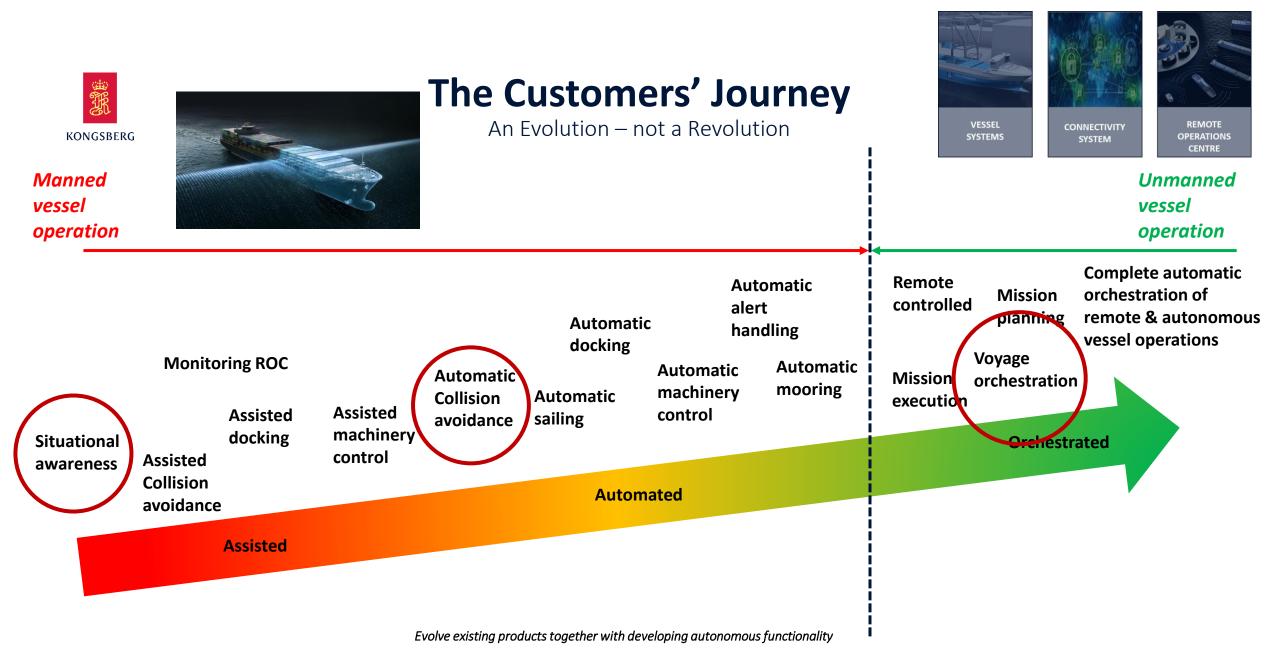
### The Customer's Journey

A Conservative Industry





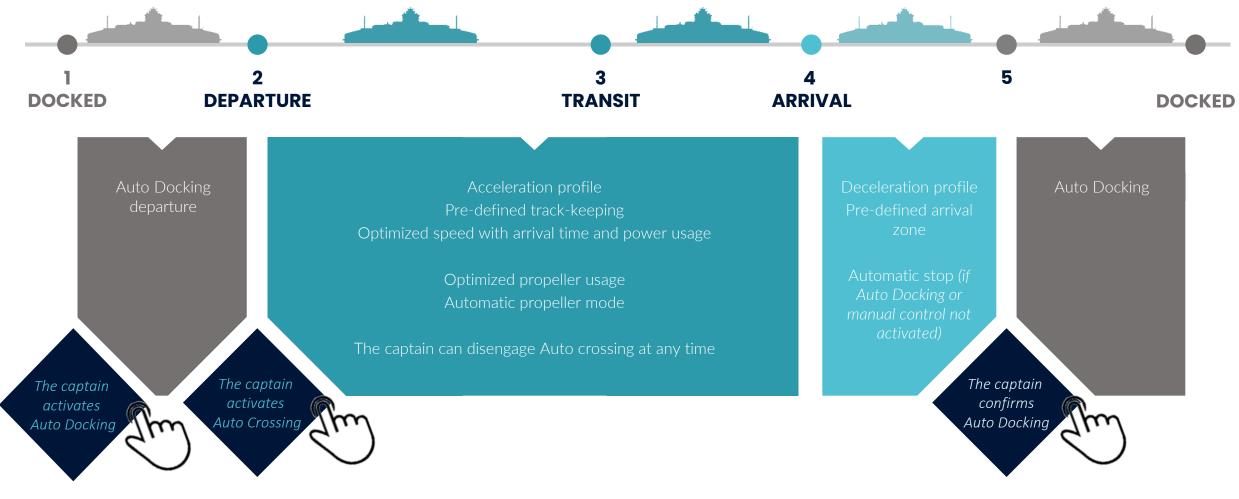
• 25 year vessel lifetime





### **System Operation**

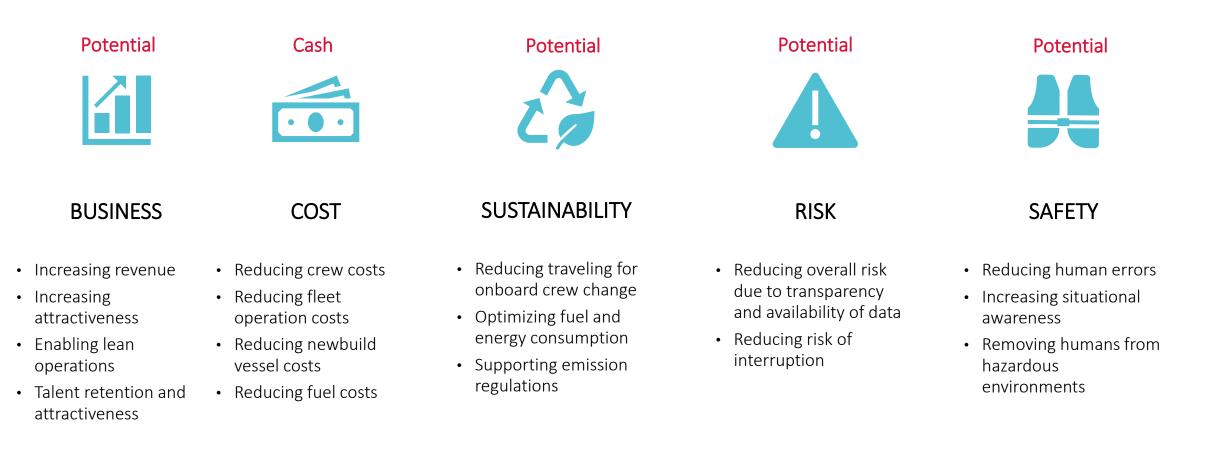
Auto Crossing and Docking





# **Value Proposition**

People – Planet – Profit





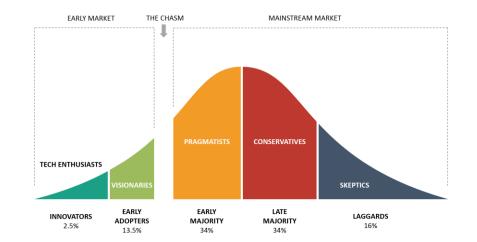


# **Value Proposition**

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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# Protechting people and planet

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