

# Massterly is Kongsberg and Wilhelmsen's joint effort to develop the autonomous maritime market



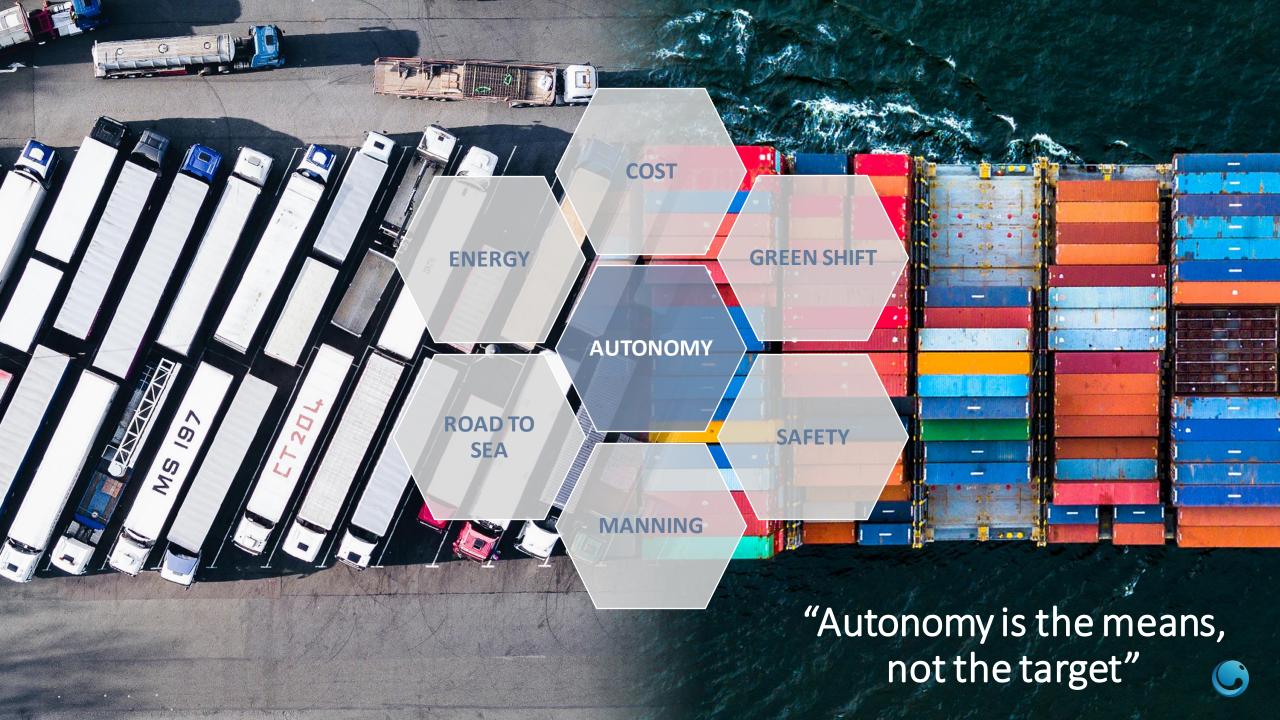
#### **TECHNOLOGY**

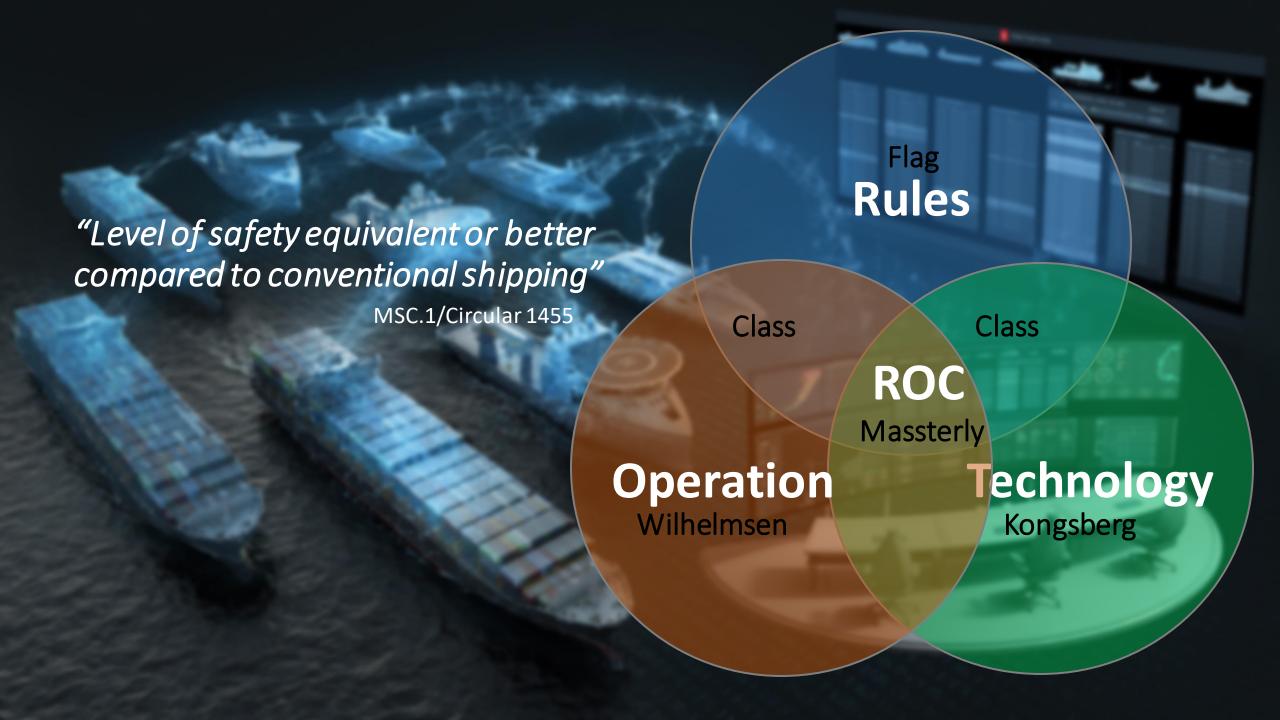
- Leading in development of autonomy
- Frontrunner in digital development
- Trusted on cyber security

#### **OPERATION**

- Experienced in vessel operation
- Major logistics operator at sea and on land
- One of the largest maritime network globally







## The pillars for autonomous operation









## VESSEL SYSTEMS PORT SYSTEMS

Enabling remote & autonomous operations with key digital orchestrators and existing products.

## CONNECTIVITY SYSTEM

Enabling secure and safe connection between the ROC and fleet of vessels.

## REMOTE OPERATIONS CENTRE

Enabling remote operations of vessels and other floating assets in a safe, efficient and secure manner.

#### **ROC OPERATOR**

Vessel operator providing required infrastructure and procedures for remote and autonomous operations.



### Categories of operations









#### **REMOTE SUPPORT**

Empowering the onboard crew by remote monitoring and support in an expert in the loop setting.

#### REMOTE CONTROL

Enabling manned/unmanned operations from a remote location with **direct control** capability.

Alleviate the workload of the onboard crew by providing assisted control capability.

#### **AUTONOMOUS**

Autonomous vessel operations with monitoring, supervision and intervention capability from a remote location.

#### FLEET

Large scale fleet operations solution including mission management, planning, scheduling, resource management supplementary to other categories of operations.





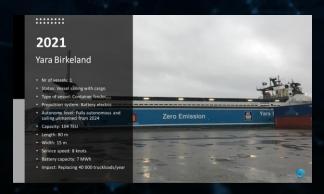


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Ekornes/DB Schenker

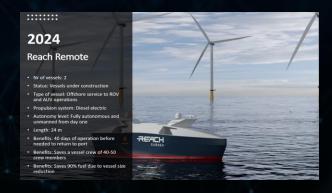
Nr of vessels: 1
Status: Concept development
Type of vessel: Container feeder
Capacity: 40 IEV
Proposion system: Battery electric
Autonomy level: Fully autonomous and unmanned from day one
Length: 67 m
Width: 15 m
Service speed: 8 knots
Battery capacity: 0.9 MWh

2020 2022

2021



2024



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