



## Erfaringer fra Yara Birkeland



massterly  
a Kongsberg Wilhelmsen joint venture

# Enabling sustainable logistics - through efficient autonomous shipping

Our aim is to enable a shift in transport from road to sea; through cost-effective, safe and environmentally friendly logistics.

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







# Interplay between technology and operation is crucial to succeed

Main focus in the debate is on autonomy technology, but operation is equally important

- How will these vessels be operated?
- Under what rules and guidelines?
- Is a Shore Control Centre (SCC) required?
- What is the approval process for SCC?
- Competency required for SCC operators?
- Legal aspects
- Division of responsibilities
- Insurance













