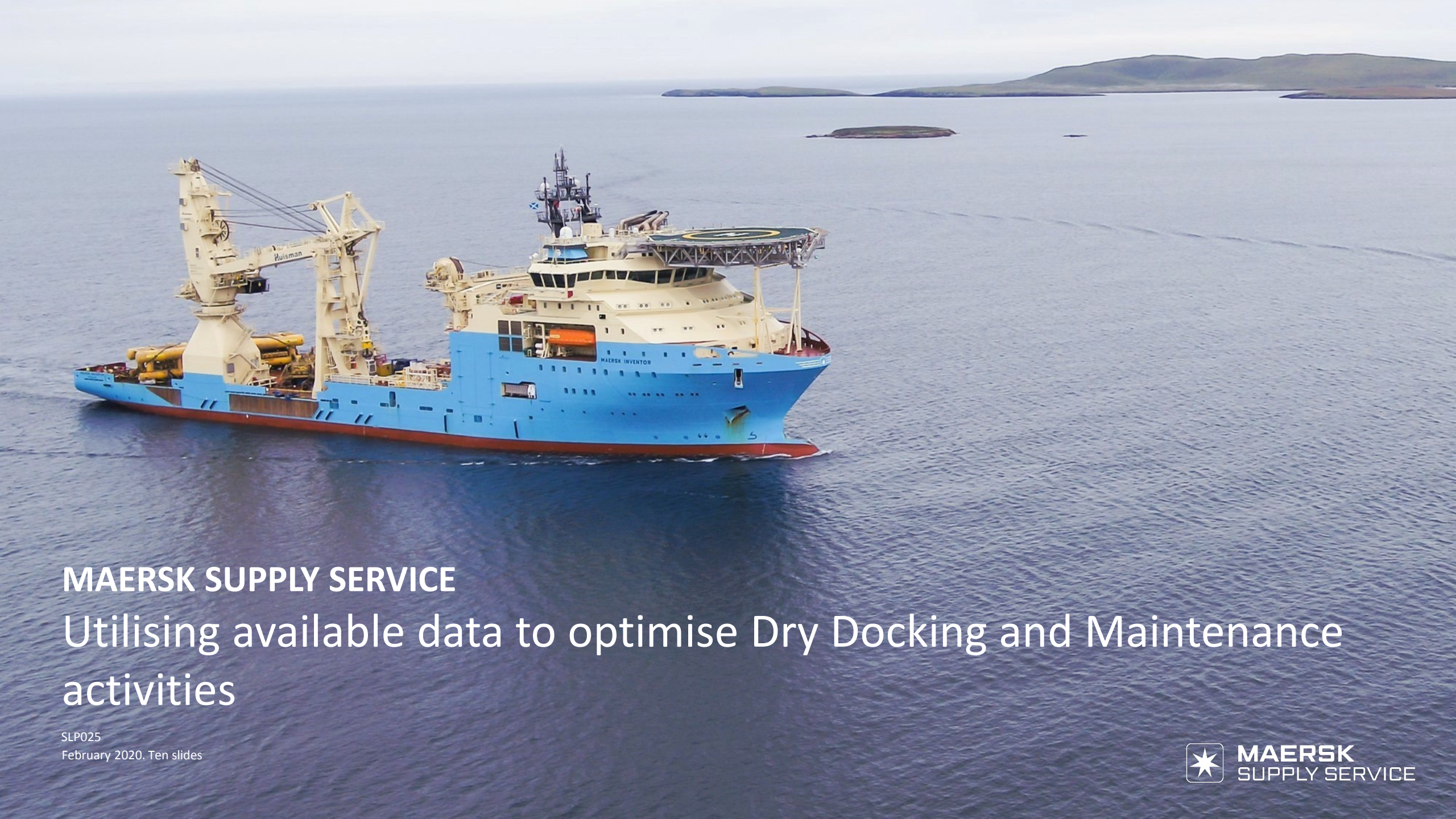


MAERSK SUPPLY SERVICE

Utilising available data to optimise Dry Docking and Maintenance activities

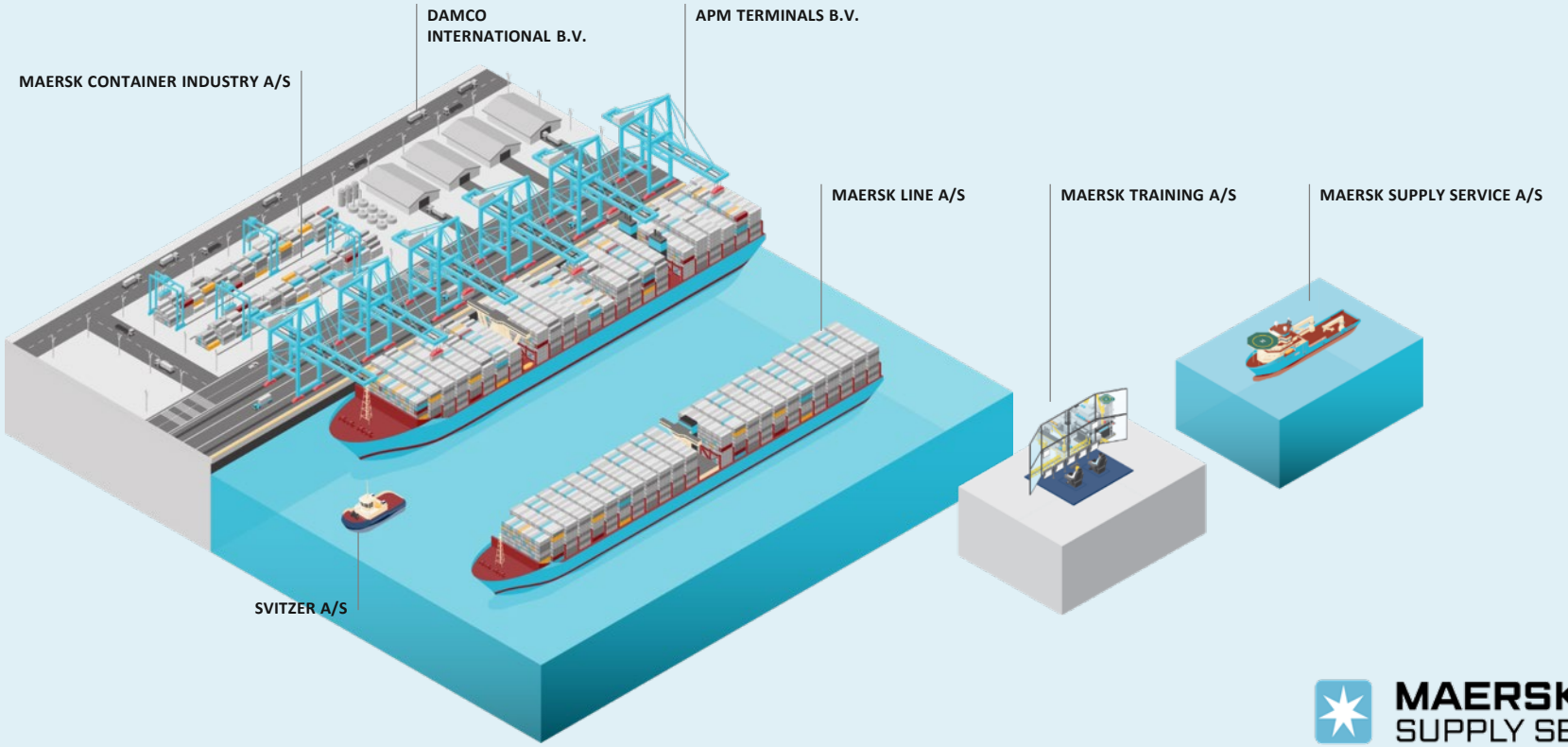
SLP025
February 2020. Ten slides

MAERSK
SUPPLY SERVICE

Ownership structure

A. P. Møller Holding A/S	The Møller Family Foundation	A.P. Møller Relief Foundation	Other shareholders
41.51% (51.23%)	8.54% (12.94%)	3.00% (5.91%)	47%

A.P. Møller – Mærsk A/S



Liner business includes Safmarine, SeaLand – A Maersk company and Hamburg Süd

Share capital in %
Percentages in () = Votes

MAERSK SUPPLY SERVICE

A global player with a 50 year solid track record

INDUSTRIES

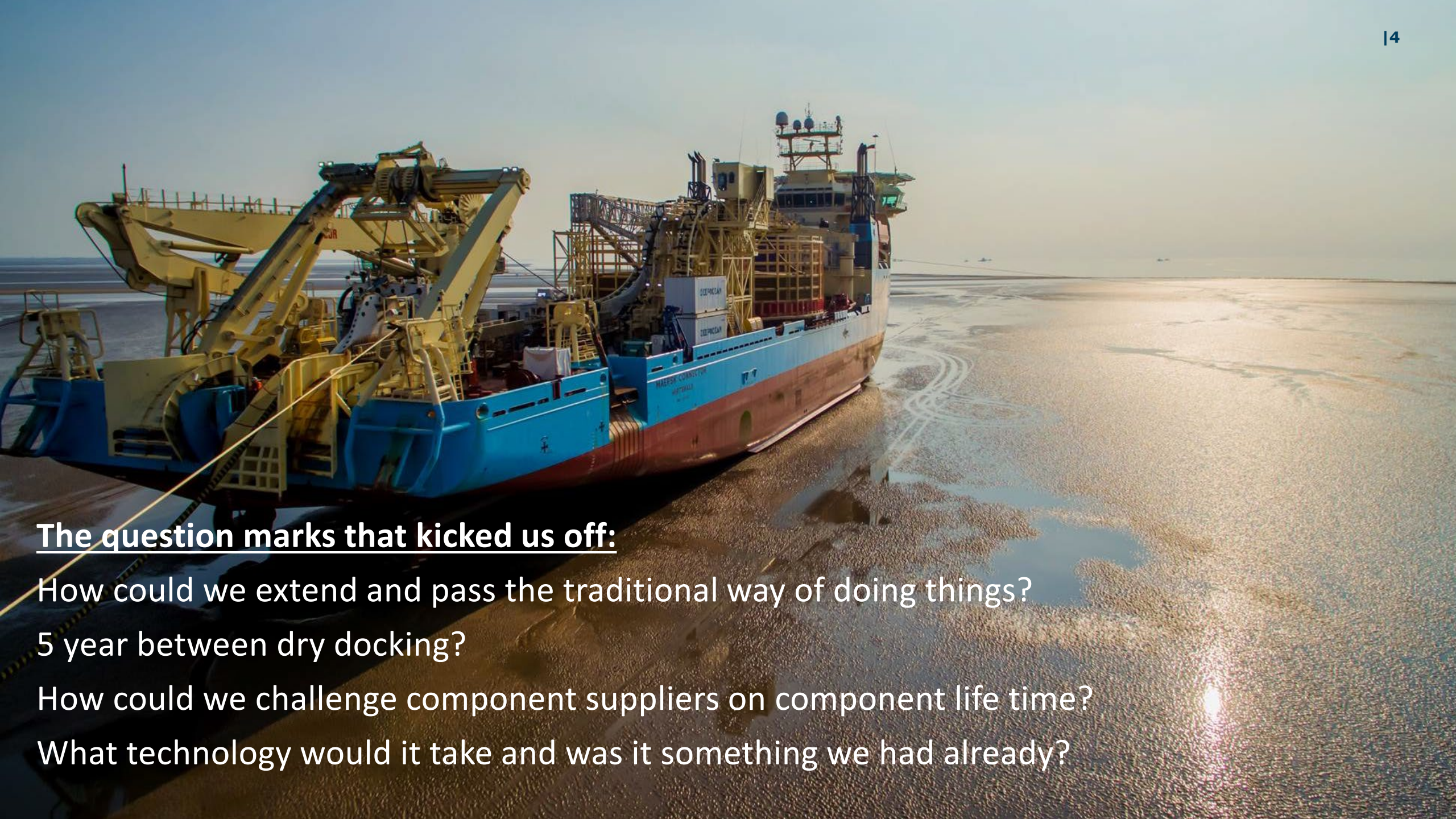
- Oil and Gas
- Wind
- Ocean Cleaning
- Decommissioning
- Deep Sea Metals

CAPABILITIES

- Rig support
- Supply and cargo
- Subsea construction
- Decommissioning
- Well intervention
- Cable-laying
- Iceberg management
- Surveying and sampling

1967	1021	260	44	10
established	Offshore employees	Onshore employees	vessels	Global locations

MAERSK SUPPLY SERVICE



The question marks that kicked us off:

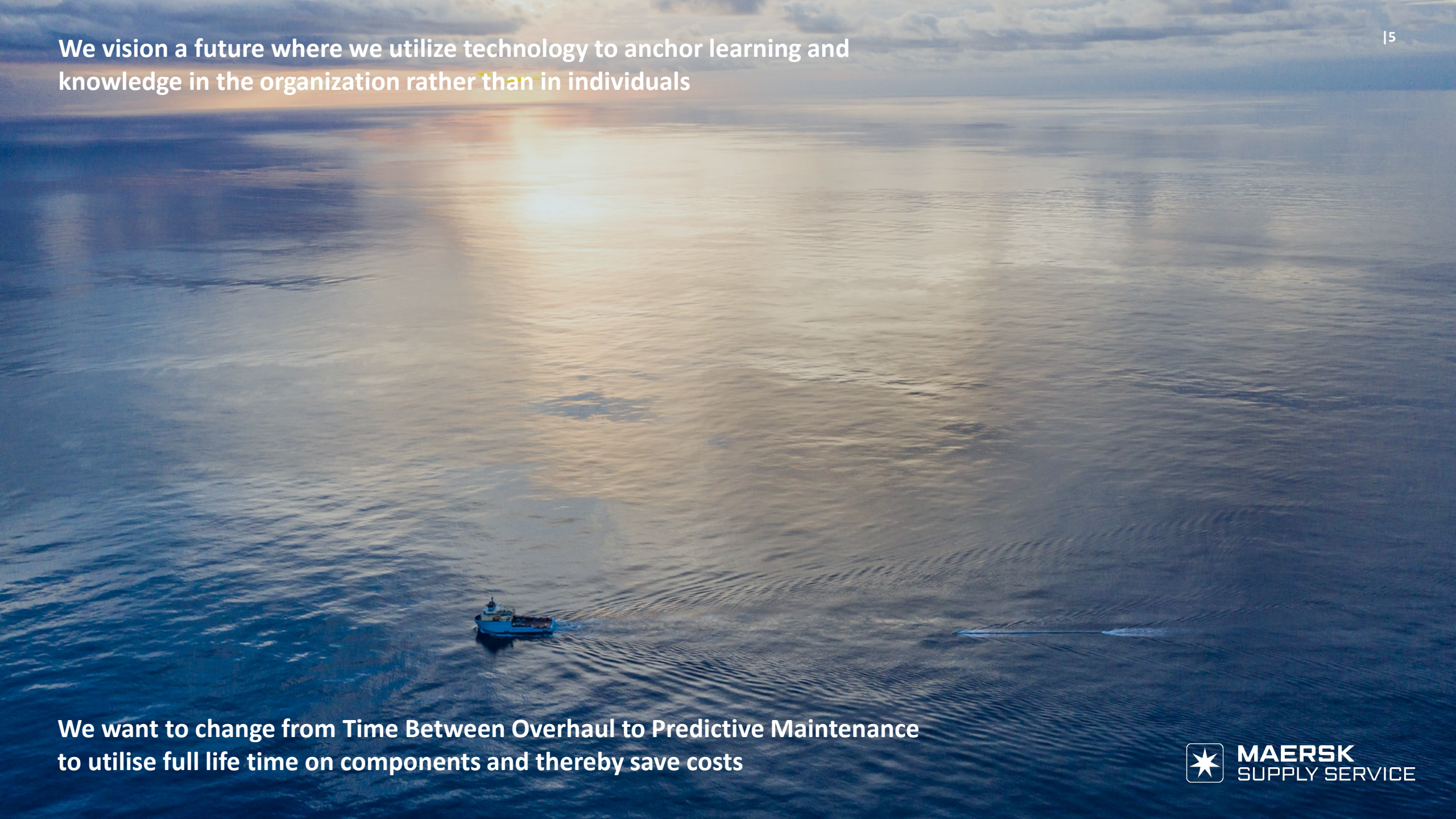
How could we extend and pass the traditional way of doing things?

5 year between dry docking?

How could we challenge component suppliers on component life time?

What technology would it take and was it something we had already?

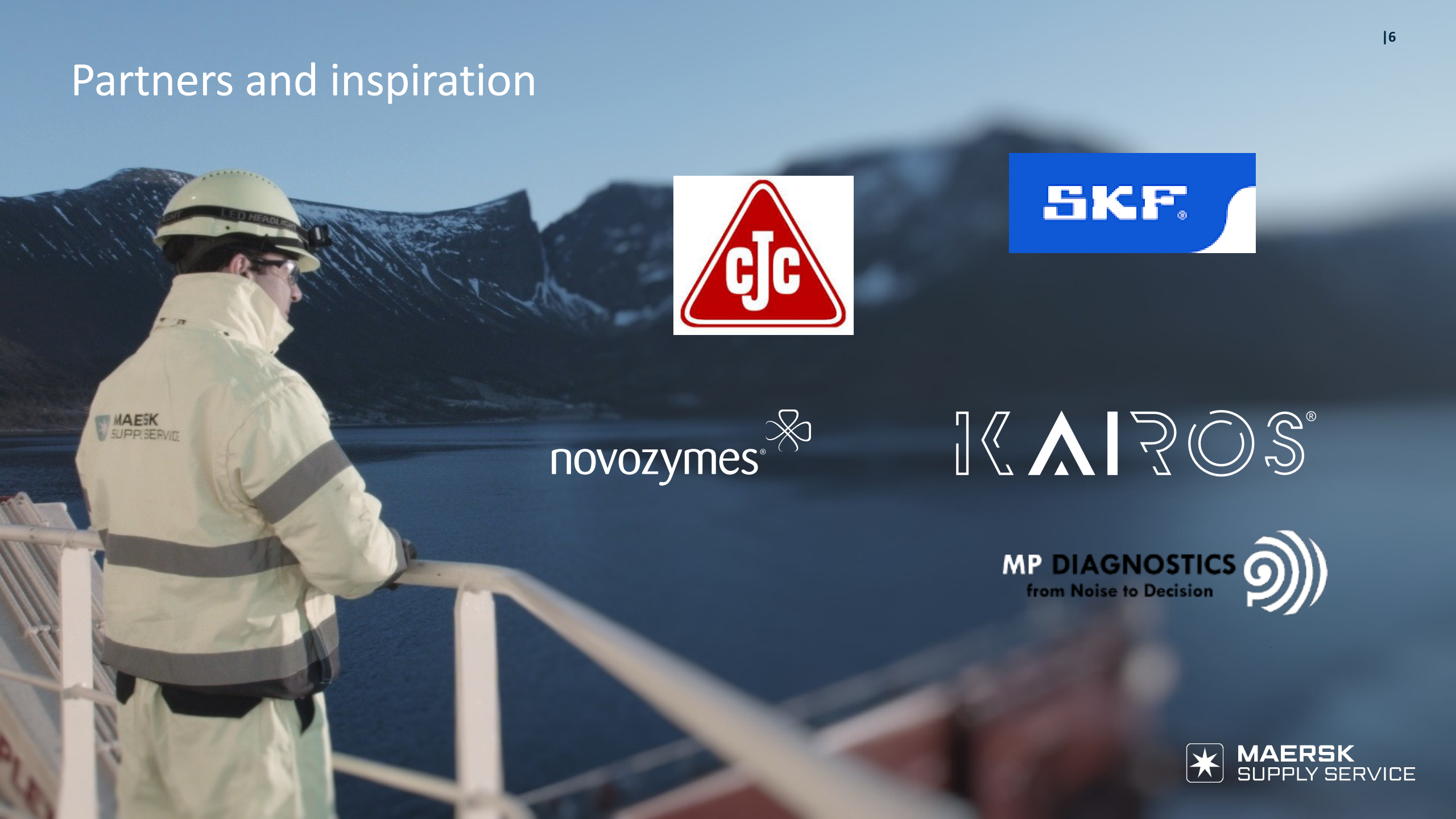
We vision a future where we utilize technology to anchor learning and knowledge in the organization rather than in individuals



We want to change from Time Between Overhaul to Predictive Maintenance to utilise full life time on components and thereby save costs

MAERSK SUPPLY SERVICE

Partners and inspiration



The selected vessels, our newest (Danish and IOM Flag)

- SSV Maersk Connector
- 138 m LOA / Breadth 27 m
- 9,300 DWT
- 2,200 m2 free deck
- 7,000ts carousel
- 50T knuckle boom crane
- Delivery completed 2016

1x Cable-laying

- I-Class series
- 137 m LOA / Breadth 27 m
- 400ts AHC crane at 3,000 m water depth
- 2,000 m2 free deck
- Prepared for cable carousel, lay tower, well stimulation etc.
- Delivery completed 2018

4x Subsea Support

- M-Class series
- Hybrid propulsion
- 19,600 BHP & 17,320 kW installed power
- 95 m LOA / Breadth 25 m
- 250+ ts BP
- 3x drum configuration
- 822+ m2 free deck
- Delivery completed 2019

6x Anchor handlers

MAERSK SUPPLY SERVICE

Questions

- Are the price we pay for 99% uptime too high
- Could we run to fail instead of maintaining
- How do we use the data we already have
- What data is it we want and what about the data we don’t want
- How do we become more digital
- Do we have the right competencies
- How do we optimise our operation
- How do we combine human knowledge with knowledge we will get from data
- When are we able to make use of artificial intelligence
- We want to use the data we collect in a practical way

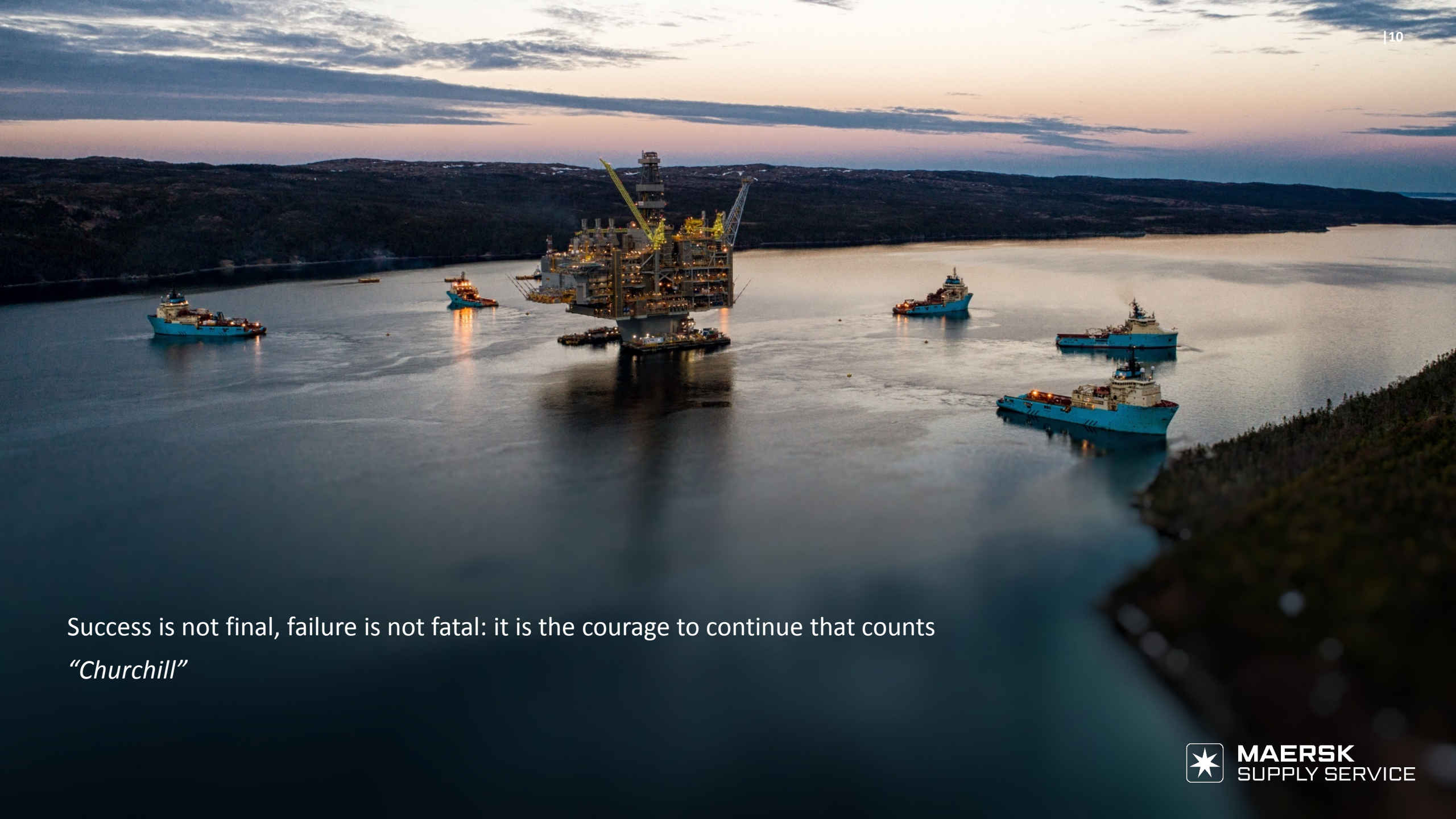
MAERSK
SUPPLY SERVICE

Well positioned for the future

DIVERSIFICATION
Optimize our operation to be competitive in a volatile and depressed market

Utilization
Combine data with the knowledge we hold to make better decissions

Predict
Pridict what will hit us and plan with our clients



Success is not final, failure is not fatal: it is the courage to continue that counts

“Churchill”

MAERSK
SUPPLY SERVICE