

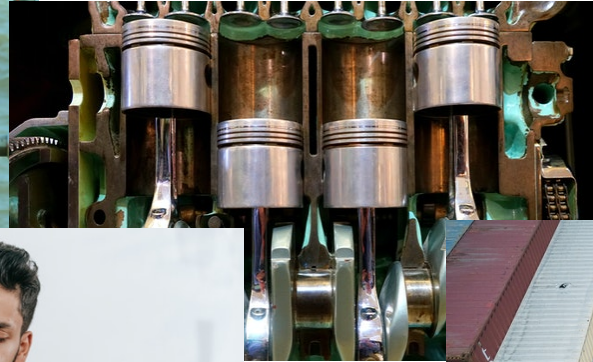
The background of the entire image is an aerial, high-angle view of a container ship's deck. The ship is moving through a vast, clear blue ocean under a bright blue sky with scattered white clouds. The deck is densely packed with stacks of colorful shipping containers in shades of red, yellow, blue, and green. The perspective is from the front of the ship, looking down the length of the deck towards the horizon. In the distance, another container ship is visible on the left, and a large red and white vessel is on the right. The overall scene conveys a sense of global maritime trade and logistics.

INFORMATION SHARING THE FOUNDATION FOR THE FUTURE

Who wants information

- Crew
- Ship owner
- Ship manager
- Goods owner
- Freight forwarders
- Equipment providers
- Service providers
- Terminals
- Ports
- Customs
- Port state
- Flag state
- Insurance companies
- Classification societies
- ...and the list goes on and on

What information do they want



Navigation Performance Time stamps Goods Reporting Safety



Information sharing

- Global standards for ships and port actors
 - Route sharing
 - Port time stamps



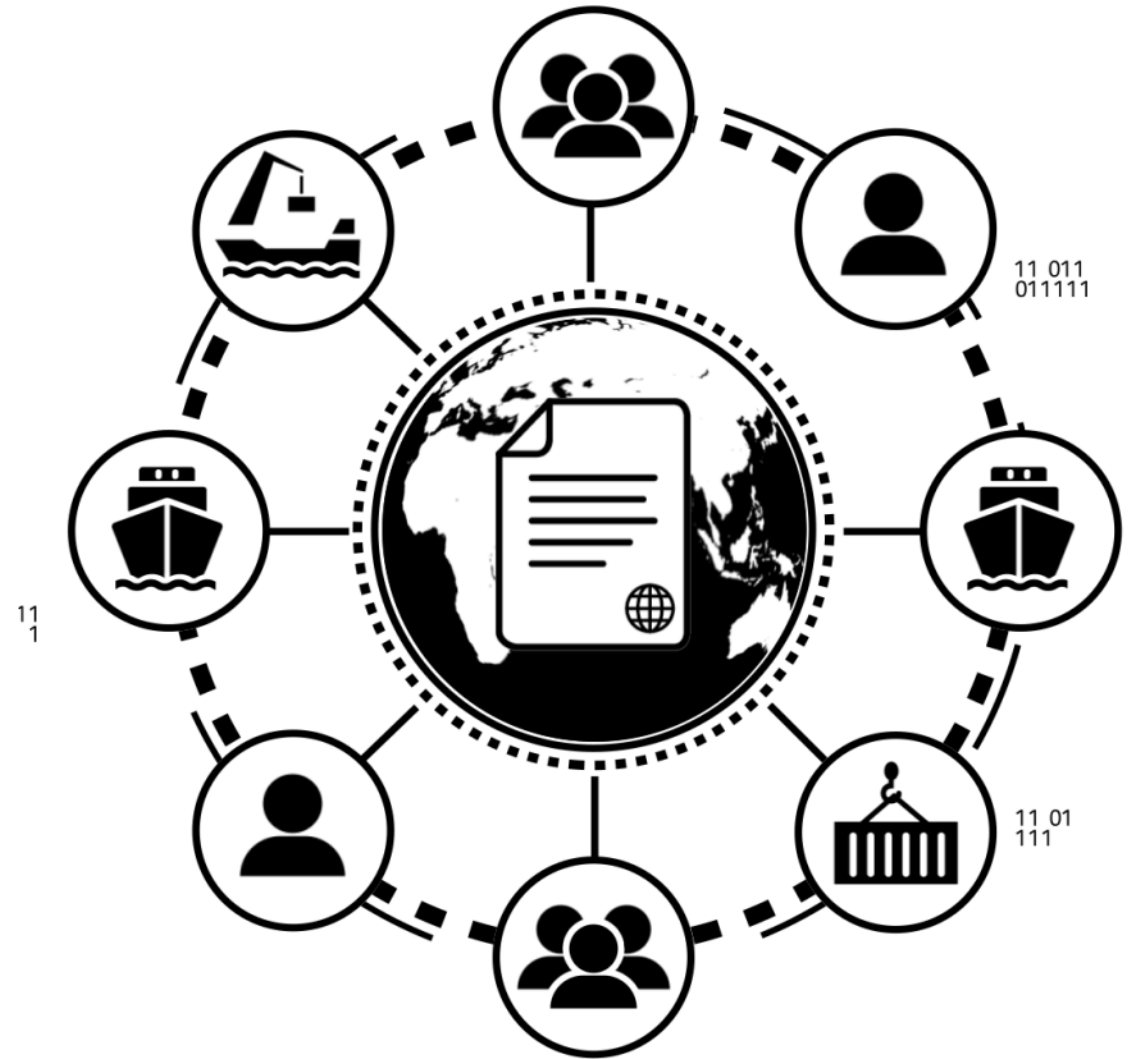
Information sharing

- Global standards for ships and port actors
- Global reliable infrastructure
 - Maritime Connectivity Platform, MCP – Navelink
 - Cybersecurity standard - SECOM



Information sharing

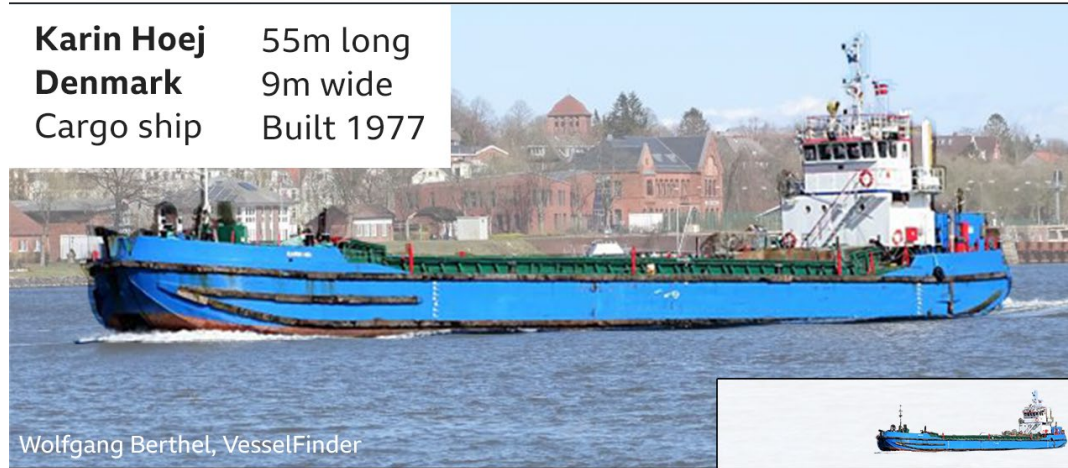
- Global standards for ships and port actors
- Global reliable infrastructure
- Software and services using this global ecosystem
 - Onboard
 - VTS, Ports, Advice, etc



Before

Cargo ships comparison

Karin Hoej 55m long
Denmark 9m wide
Cargo ship Built 1977

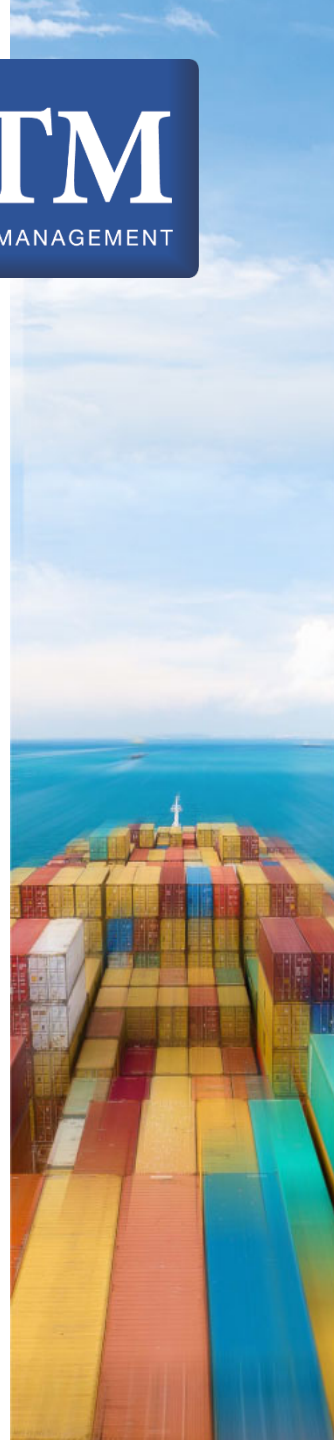
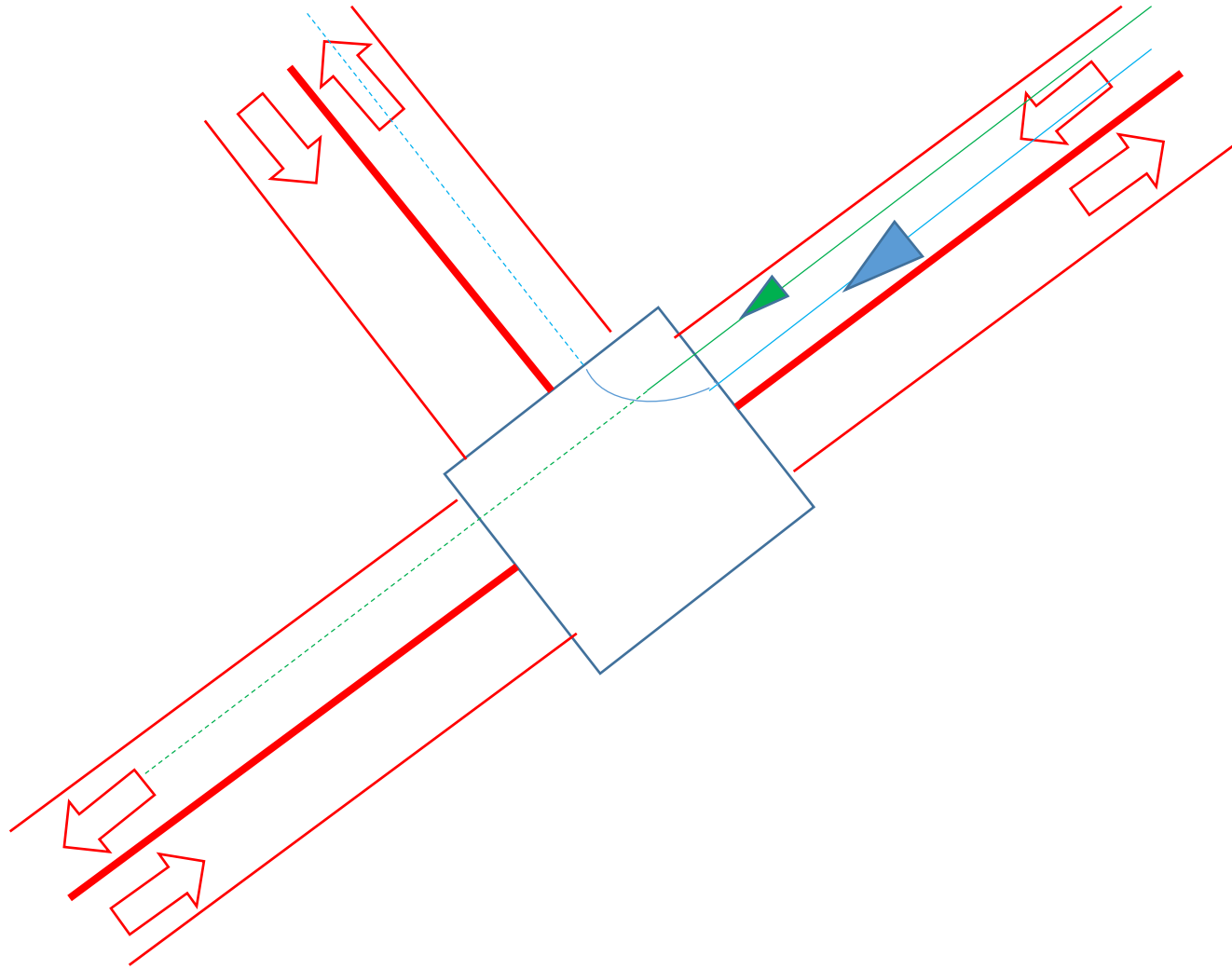


Scot Carrier 90m long
UK 15m wide
Cargo ship Built 2018



Source: Marine Traffic

Right turn – but wrong



After

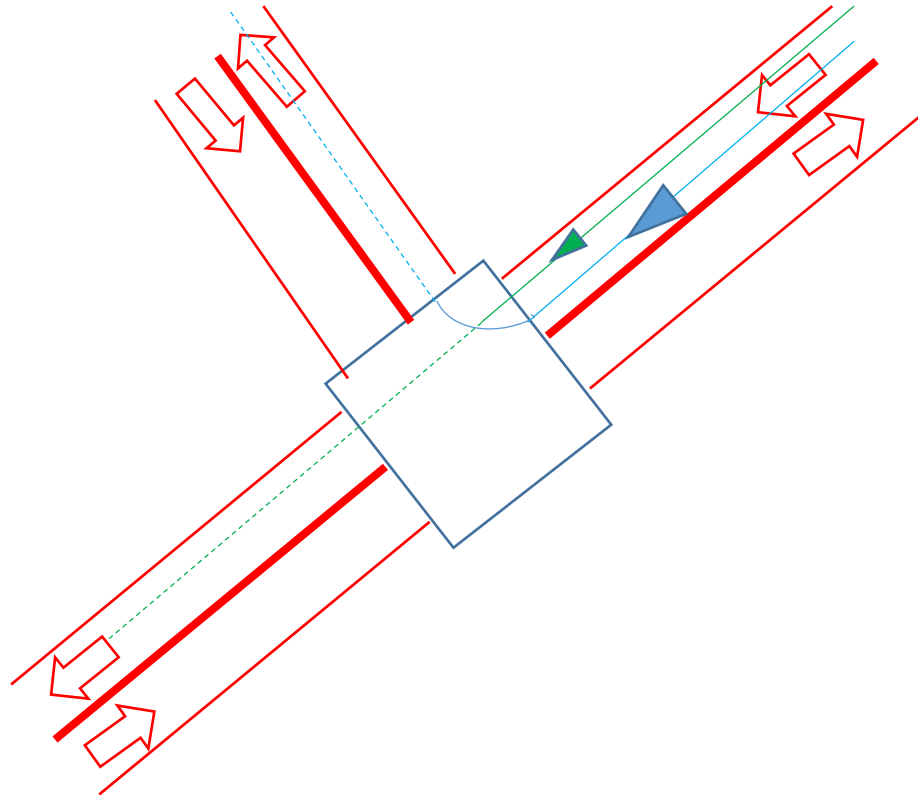


Both crew
members died



Photos: TT

Sharing route



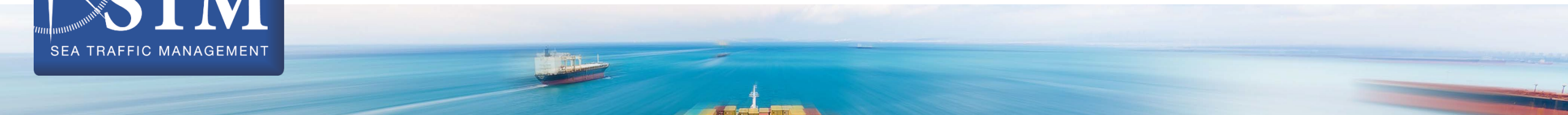
Ship system – Warning: upcoming close situation

Shore centre: "You have an upcoming risk situation in one hour. We suggest that Scot Carrier slows down 2 knots for the next hour. Then you will have plenty of room."

Shore centre: " You have an upcoming risk situation in one hour. Scot Carrier did not answer our call. We suggest that Karin Hoej slows down 1 knots for the next hour, and then Scot Carrier will pass you before its turn."



Sharing time





Thank you – Kiitos!

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