

Safety Efficency Accuray

in the Baltic Sea and Beyond





What is a Motorway at Sea?

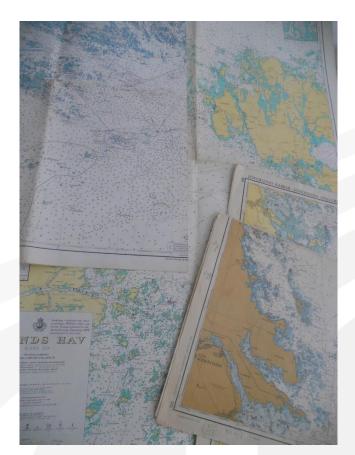






Yesterday: Paper Charts

Today: Electronic Navigational Systems





ENC

Electronic Navigational Charts – from Hydrographic Offices

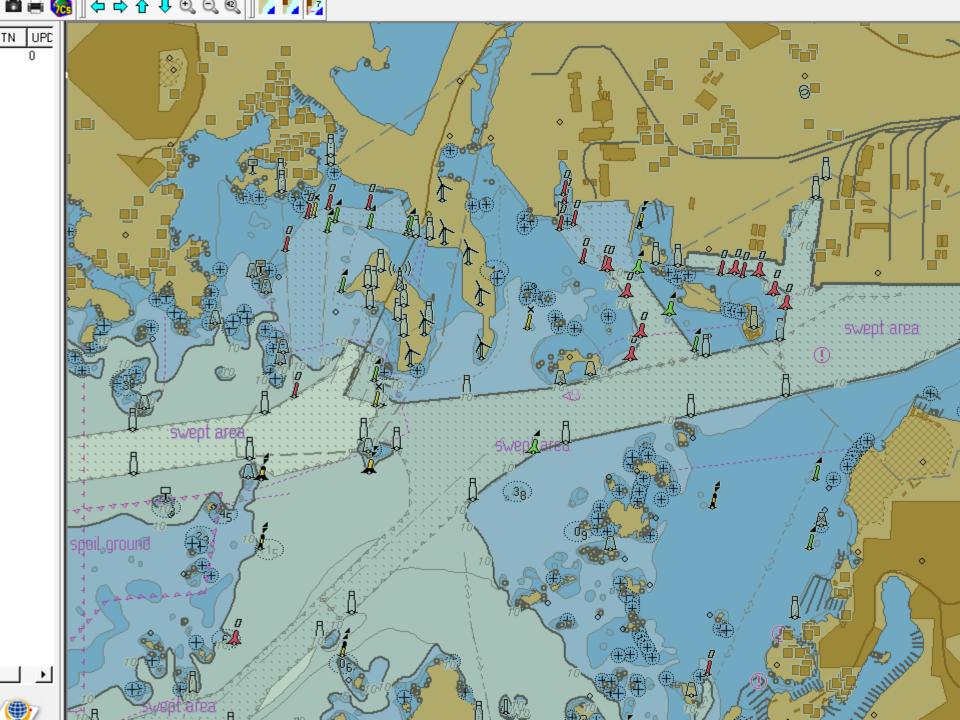


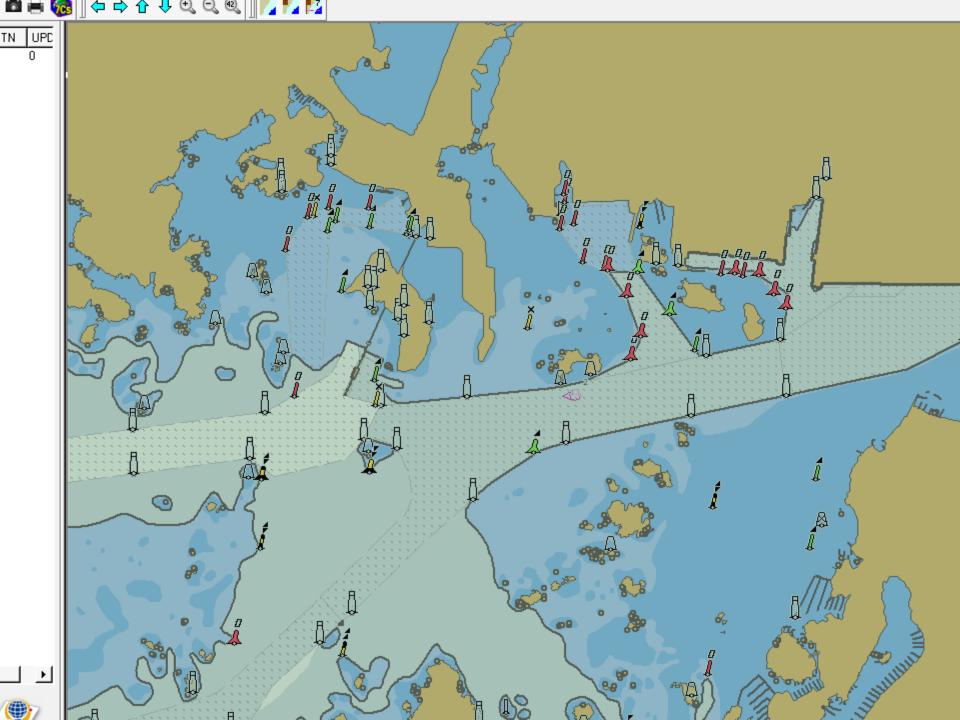
ECDIS

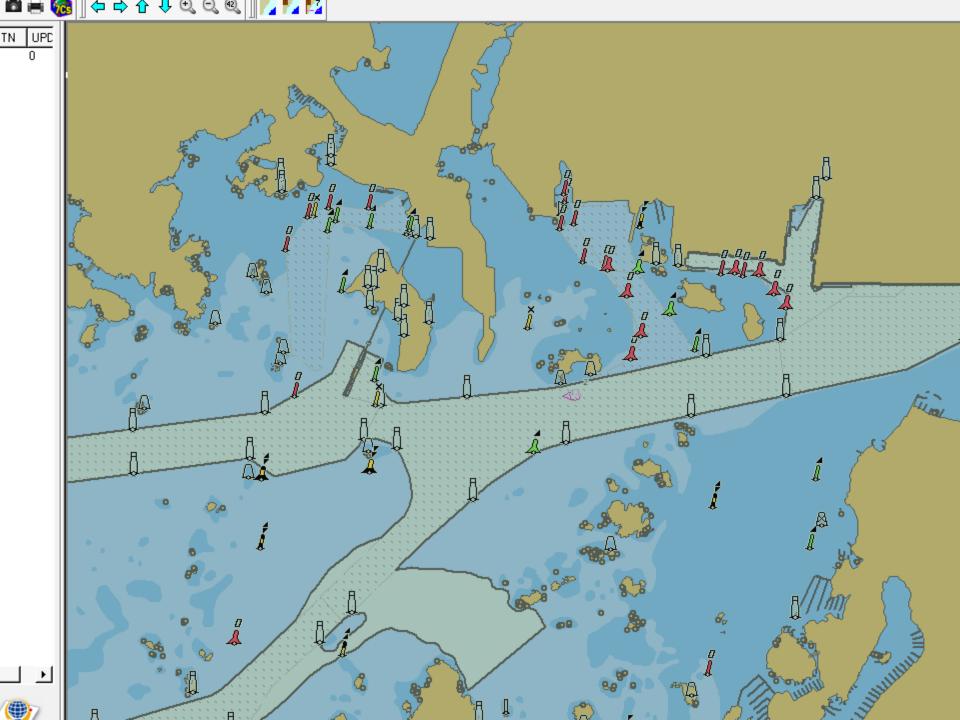
Electronic Chart Display and Information
System
Co-financed by the European Union

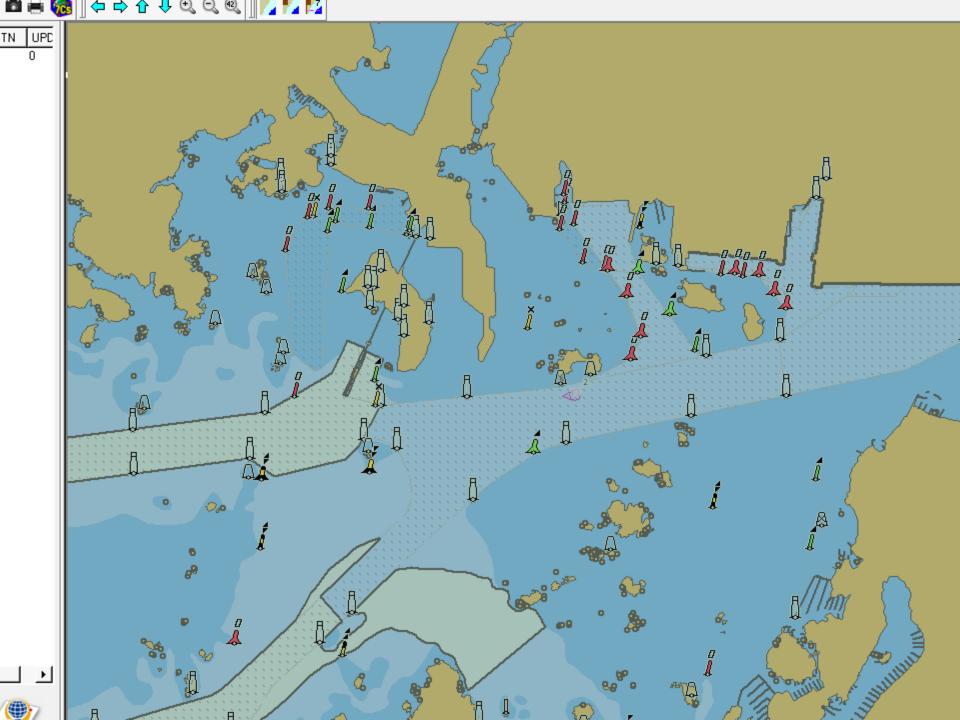
Connecting Europe Facility











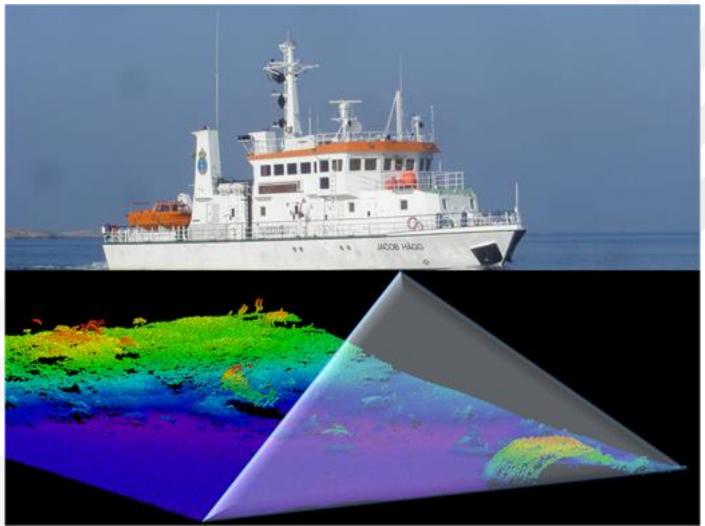
Carriage Requirements for ECDIS





ean Union

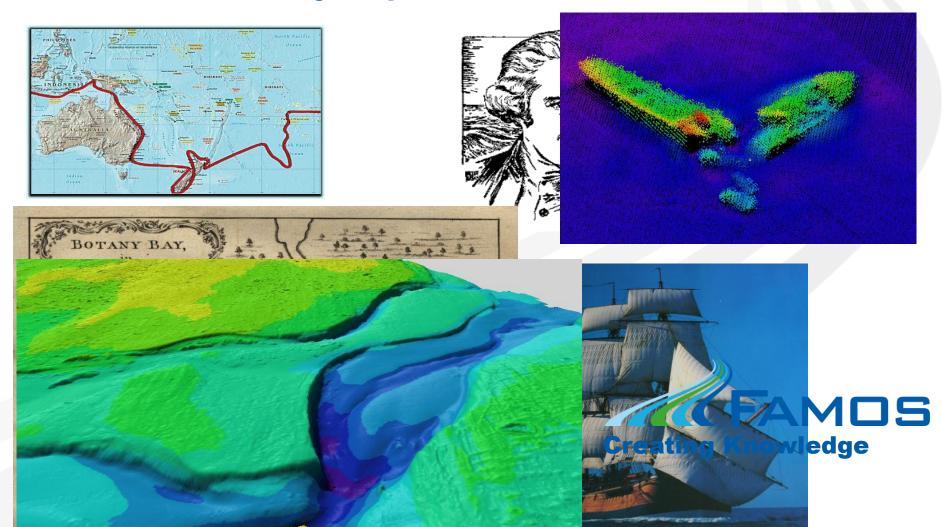
Demands for High Resolution Bathymetry





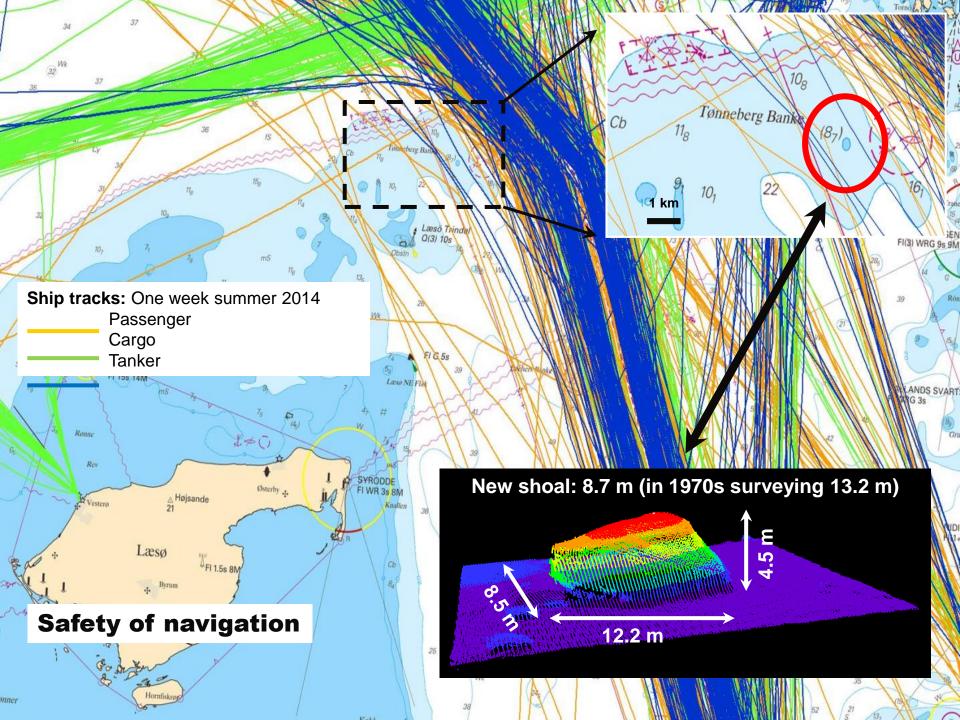


Are we these days Captain Cook?

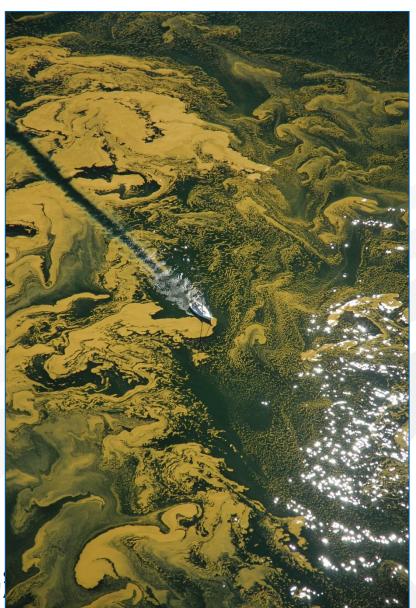








FAMOS Deliverable 1 – Safety and Sustainable Environment in the Baltic Sea



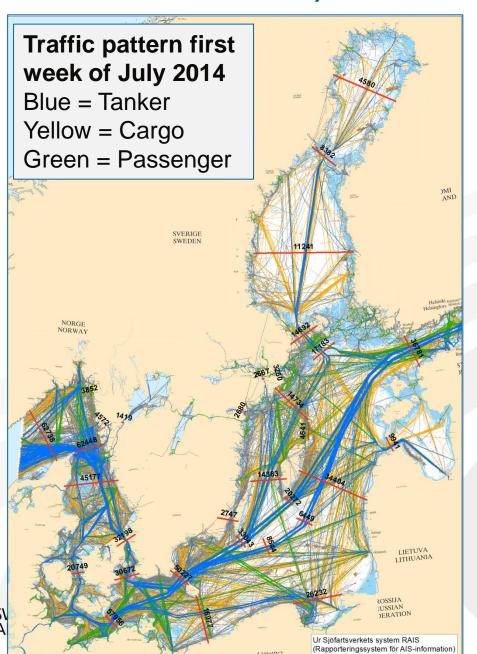








FAMOS Deliverable 2) – Route Efficiency in the Baltic Sea







Minimum consumption for specific ETA

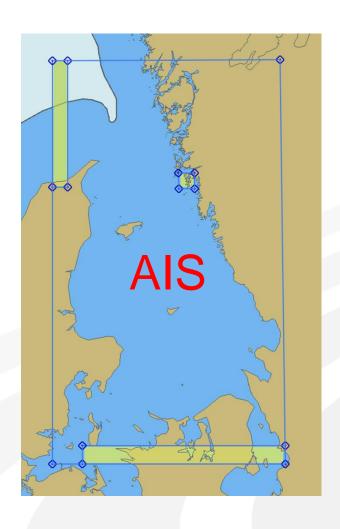


Route with waypoints and speed on each leg









- AIS data for one month of transiting trafic i Kattegat, 1700 ship movements.
- · Passenger, cargo and tankers.
- Voyages between Skaw, Gothenburg, Great Belt or the Sound.
- Typical weather conditions.

Historical routes from AIS was replaced by simulated optimised routes.

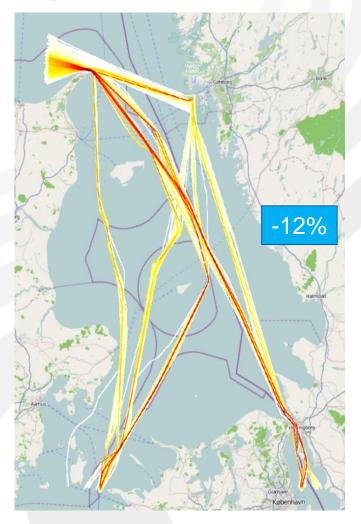






Actual AIS tracks

Optimised routes



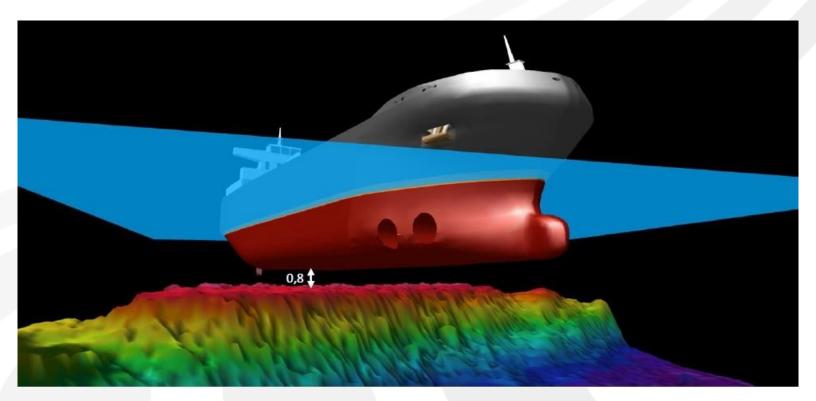






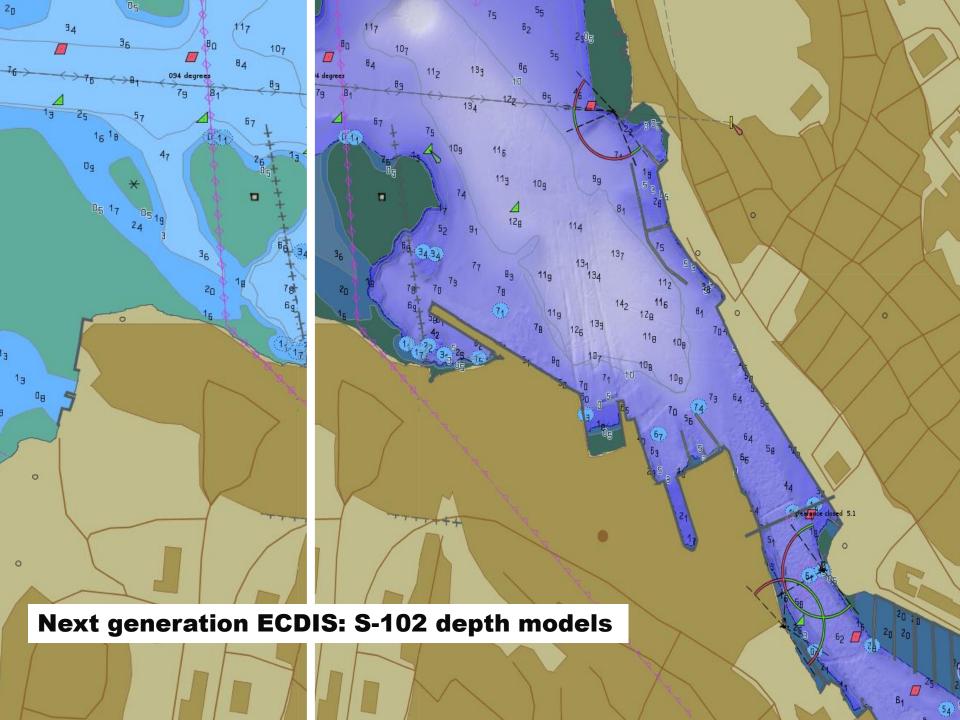
Deliverable 3) – Optimized loading Monitored and Predicted Under Keel Clearance



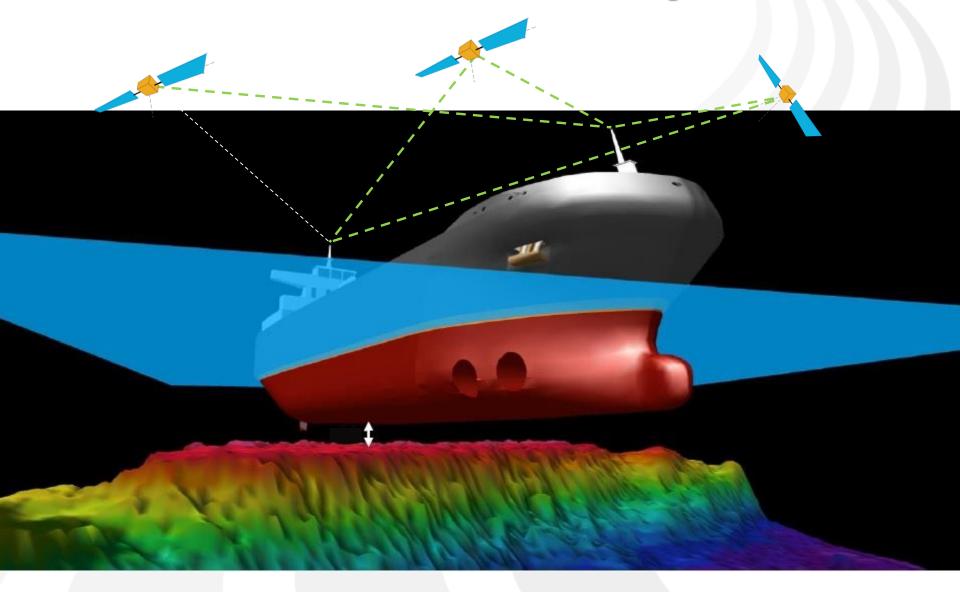








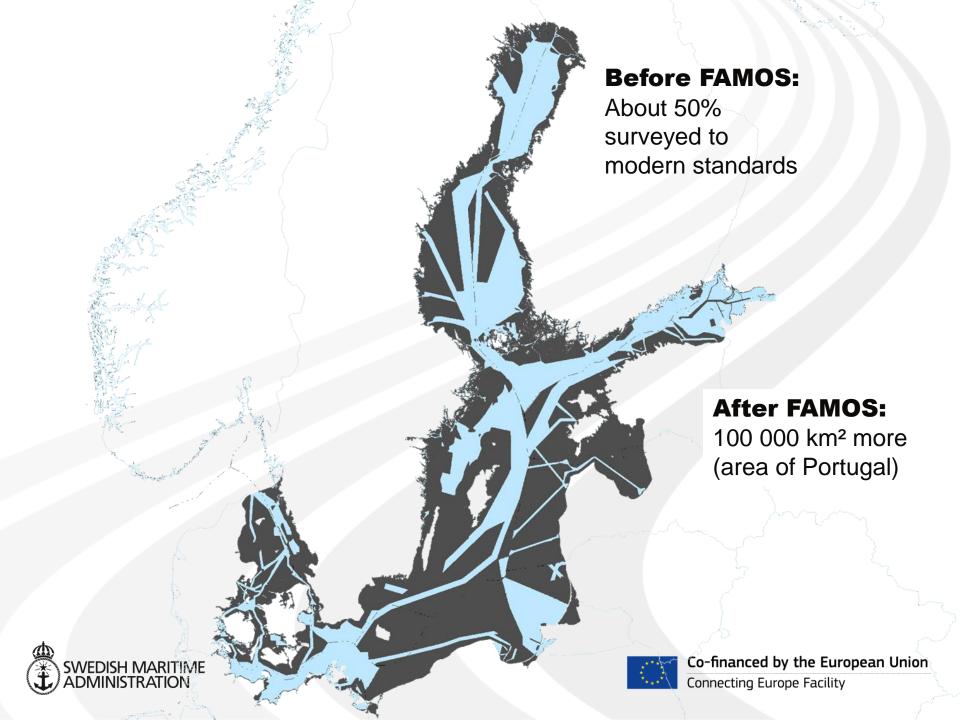
Under Keel Clearance aware navigation











Partners

Sjöfartsverket – Lead partner





































