

Title *Efficient, Safe and Sustainable Traffic at Sea*

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***e-Navigation test bed with a suitable
infrastructure including necessary
communication links***

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Authors

<i>Name</i>	<i>Organisation</i>
Ole Borup	DMA

Reviewers

<i>Name</i>	<i>Organisation</i>
Thomas Christensen	DMA

Approval of report

<i>Name</i>	<i>Organisation</i>	<i>Signature</i>	<i>Date</i>
Morten Brix Laursen	DMA		

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Introduction

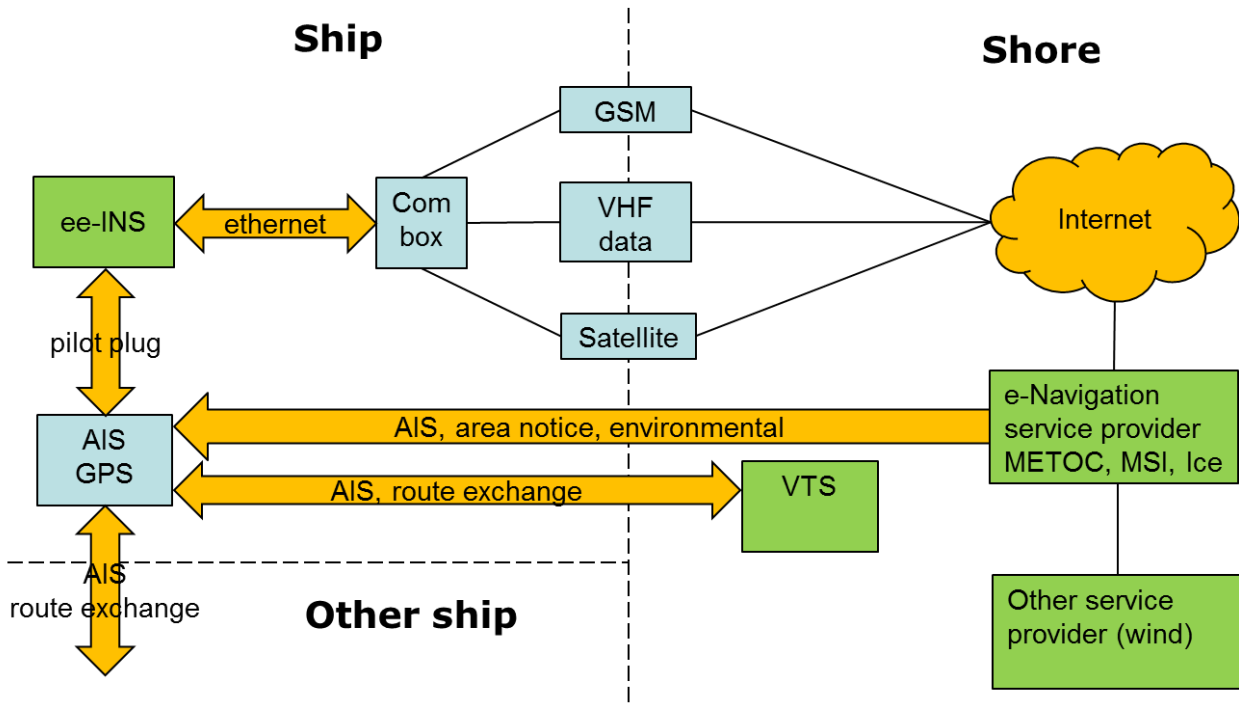
This deliverable is the actual test bed which has been established during the project. Installations have mainly been made on board vessels, but also at shore user sites. The following vessels were equipped with e-Navigation equipment for testing:

Name	Type	Shipowner
Crown Seaways	Passenger / cruise	DFDS
Pearl Seaways	Passenger / cruise	DFDS
MHV 911 BOPA	Patrol	Naval Home Guard
Mars	Tug	Switzer
Tycho Brahe	Ferry	Scandlines
Kronprins Frederik	Ferry	Scandlines
Wisby Wave	Tanker	Wisby Tankers
Gedser redningsstation	SAR vessel	Danish Royal Navy
?	Pilot	Danish Maritime Authority
?	Pilot	Danish Maritime Authority
Poul Løwenørn	Buoy tender	Danish Maritime Authority
Katharina	Training vessel	Finnish Transport Agency
Tucana	Bouy tender	Polish Maritime Administration
?	Bouy tender	Estonian Maritime Administration

The above vessels have all been equipped with Laptop + screen with e-Navigation prototype (ee-INS), cabling to pilot plug (for AIS communication) and internet communication equipment. The internet communication equipment varies from vessel to vessel, but included: 3G GSM, VHF data and satellite equipment. The communication equipment included antennas and cabling.

In addition to the installations on vessels, shore installations have been made at the Danish Maritime Authority, Finish Transport Agency, Swedish Maritime Administration and the Sound VTS.

These installations only consisted of Laptops with extra screens connected to the internet, and fitted with e-Navigation prototype software.



The above drawing shows the interconnection between equipment on vessels and on shore.