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Project Manager

IFSMA, Sandefjord, 5.6.2014





Vision:

Norway shall be world leading in planning, coordinating and executing search and rescue operations at sea in the High North.

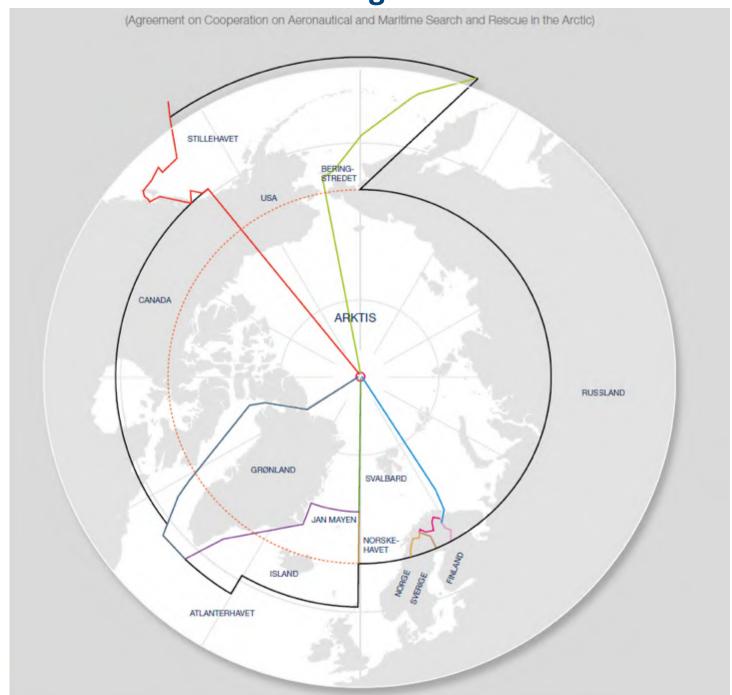


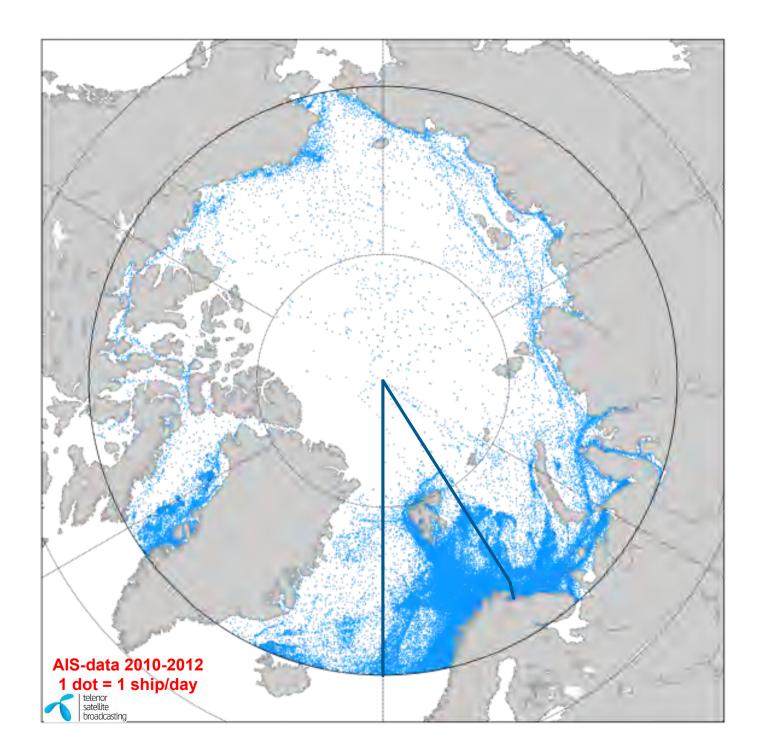




Arctic SAR-agreement









±80 % of Arctic shipping is in Norwegian waters

Large accidents will happen!

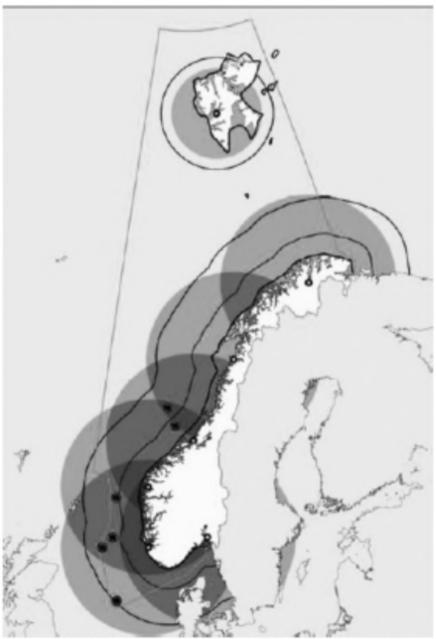
Are we prepared?

What do the experts say?

- 330 squadron

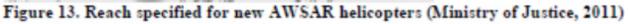
Norway's rescue ambition (2011)



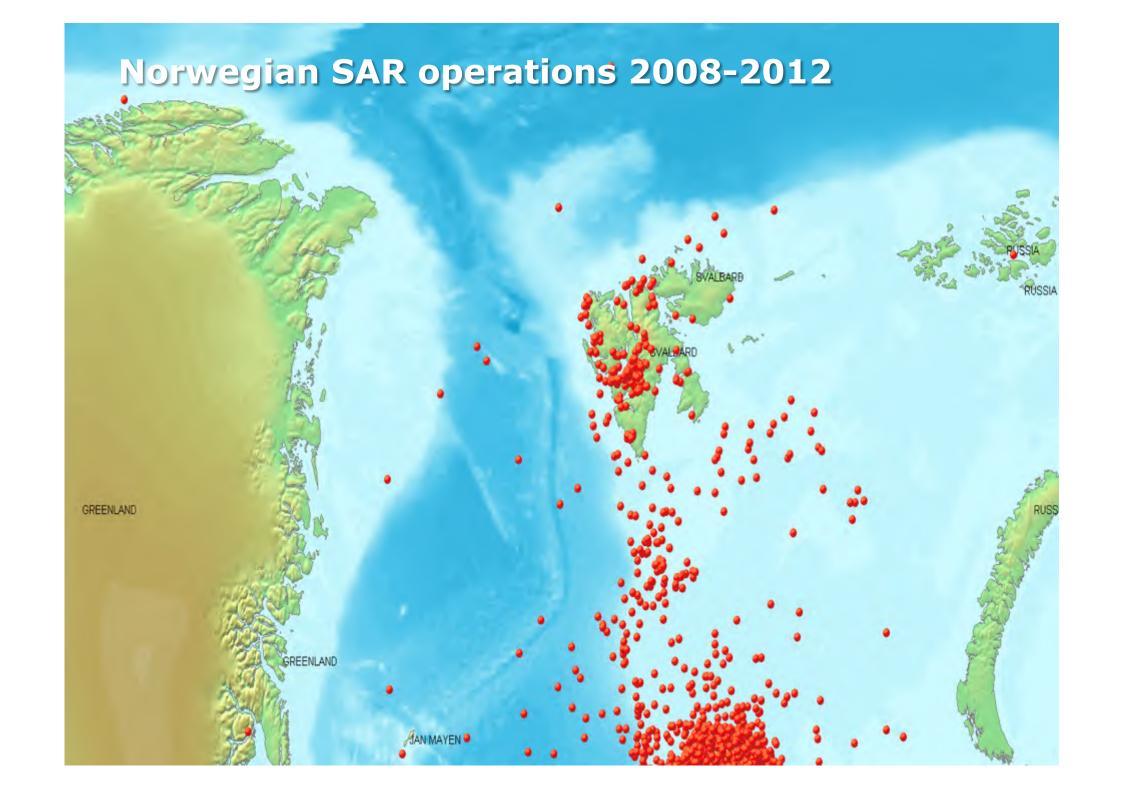


Shall have the ability to rescue and bring safety to shore:

- 20 persons in distress on every point 150 Nm off the baseline within two hours
- and additionally, 2 persons in distress at the periphery of Norway's SAR-area

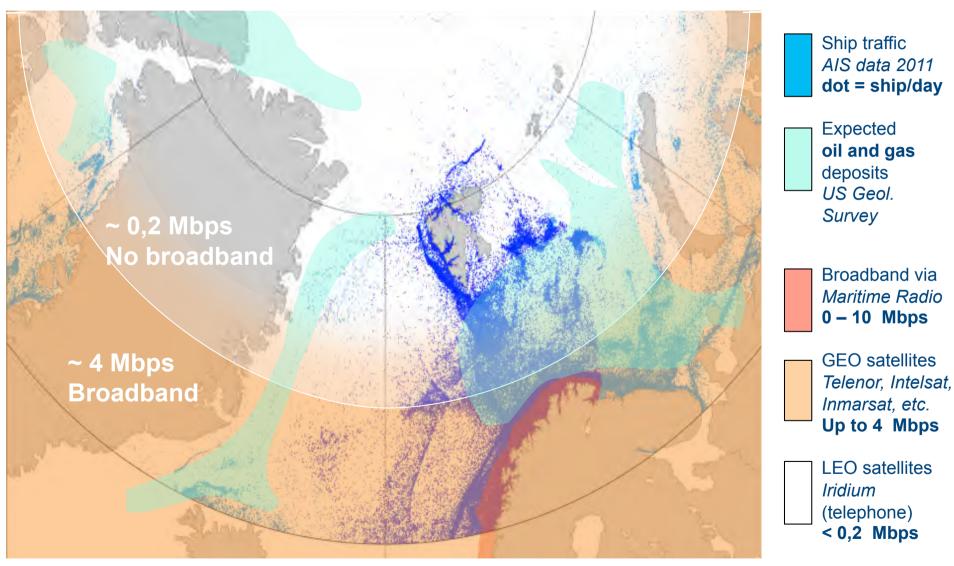






Arctic communication limitations





Kilde: U.S. Geological Survey Kilde: AIS-Sat 1 / Norsk Romsenter



Gov't. report on development in the North (2011)





"It is the responsibility of each company and their associations to systematically reduce risk of accidents and to a much larger extent handle crisis situations them selves compared to other areas"

"The government will facilitate openness on challenges, knowledge development and sharing of experiences"

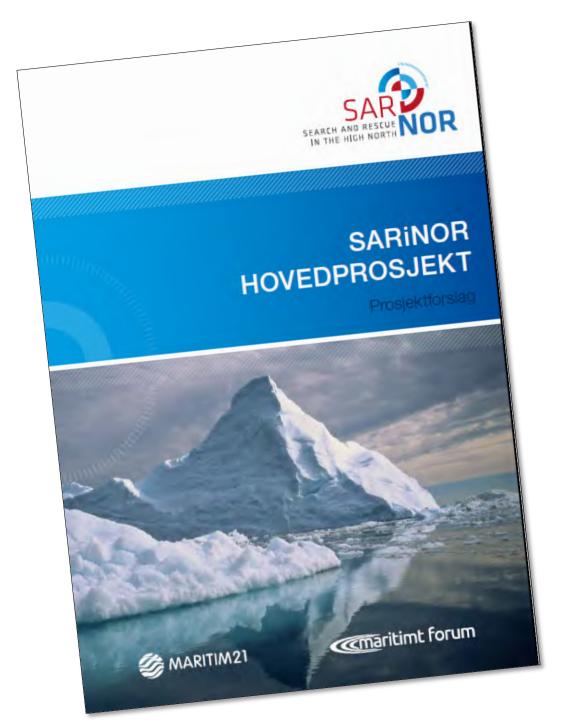






National cooperation on Search and Rescue in the high north:

- What level of SAR-preparedness shall we aim for?
- How can we coordinate and utilize our combined capacity
- SAR relies on contributions from all nearby resources
- SARiNOR is similar –
 all shall contribute per ability and
 need





SARINOR phase 1

> Start Q4 2013

Duration 3 years

Budget NOK 20 mill.

Financing 50 % public50 % private

Participants

- Ship-owners
- Oil and Gas companies
- Insurance companies
- Research institutes
- Consultancies
- Think tanks
- Governmental bodies



Project structure

WP8

PROJECT MANAGEMENT AND DISSEMINATION

WP4 RESCUE

WP3 SEARCH

WP2 ALARM

WARNING

WP5 SRUVIVAL IN COLD CLIMATE

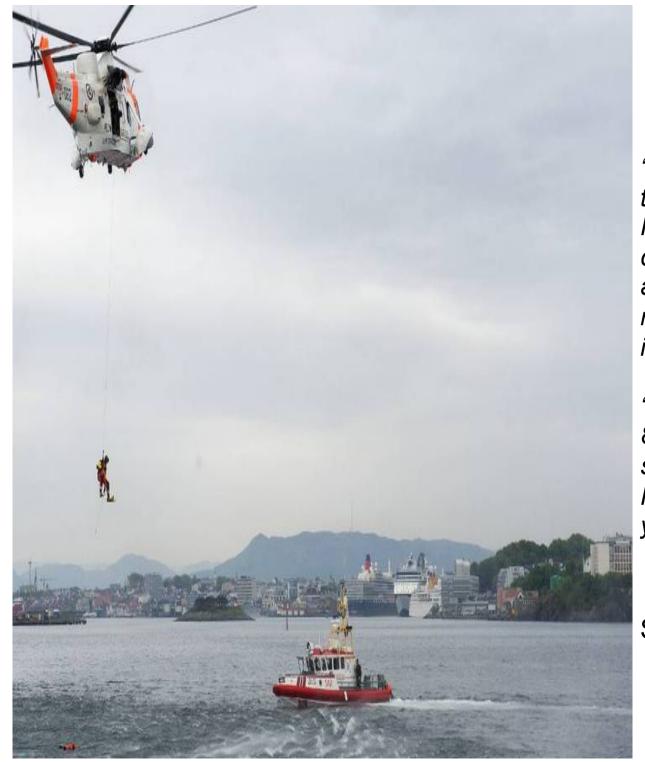
WP6 SHARED

SITUATIONAL

AWARENESS

WP7 TRAINING & **DEVELOPMENT** COMPETENCE

WP1 GAP ANALYSIS





"I warmly welcome the initiative taken by the maritime industry in North Norway to strengthen cooperation between the various actors involved in search and rescue operations and to improve the methods used."

"The Government has allocated 8 million kroner to a project on search and rescue in the High North (SARiNOR) over a three year period."

- Prime Minister Erna Solberg -

21.01.2014









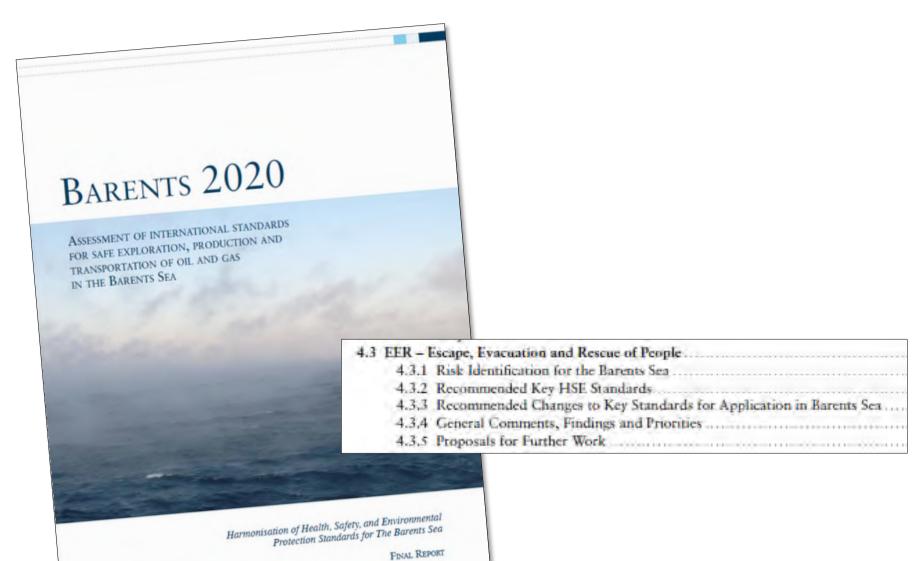


Tourism





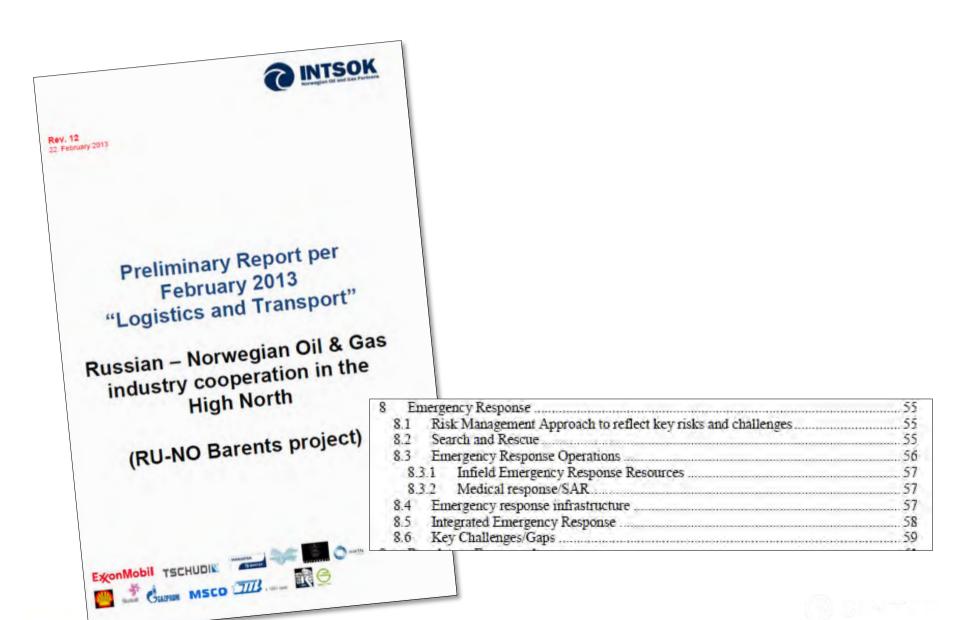
Utilizing recent analyses





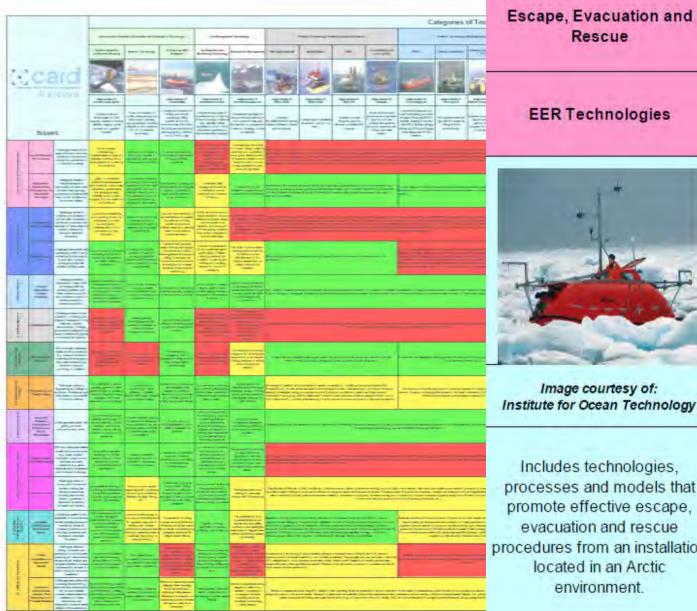


Utilizing existing project outcomes



The Arctic Development Roadmap R&D priority Matrix







Institute for Ocean Technology

Includes technologies, processes and models that promote effective escape, evacuation and rescue procedures from an installation located in an Arctic



Extended range/time on task













Liferafts 1935-2013



































Barents 2020







2013 safety culture....











The MARINTEK WiCAN® Concept (Wireless Coastal Area Network)





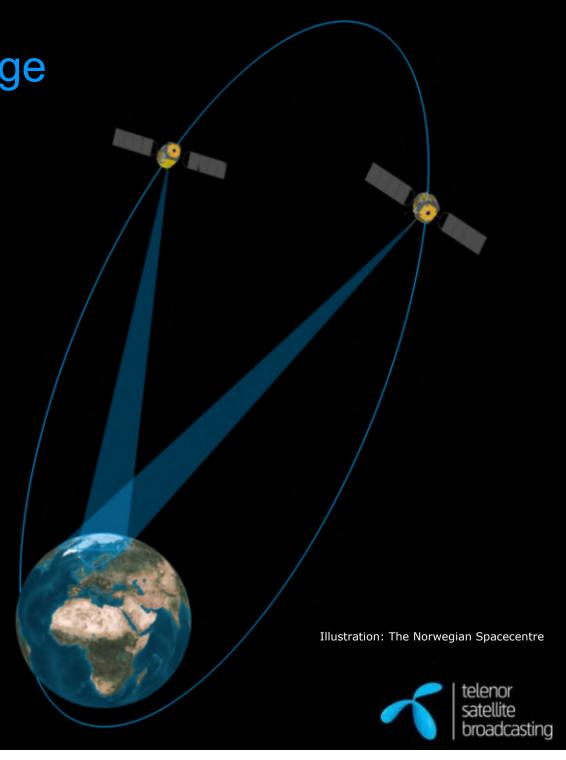
Continuous coverage with polar HEO satellites

Broadband via satellites in high elliptic polar orbits (HEO)

Two satellites sufficient for continuous coverage

Possibilities for roaming between satellites in equatorial orbits (GEO) and high elliptic orbit satellites (HEO)

Cost: \$ 350 – 530 mill.









Organizational structure







Key contributors – so far...

Samarbeidsparter











































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