

# Improving safety at sea in cold climate regions

Presentation at TRANSBALTIC Foresight  
Debate

Bodø

By

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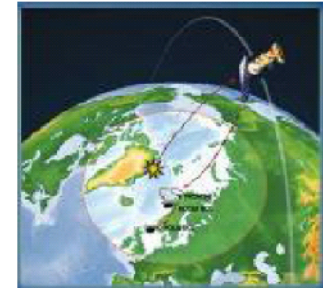
# Sea transport in the High North



## Norwegian Challenges: Geography and economic activity



Source: ACIA



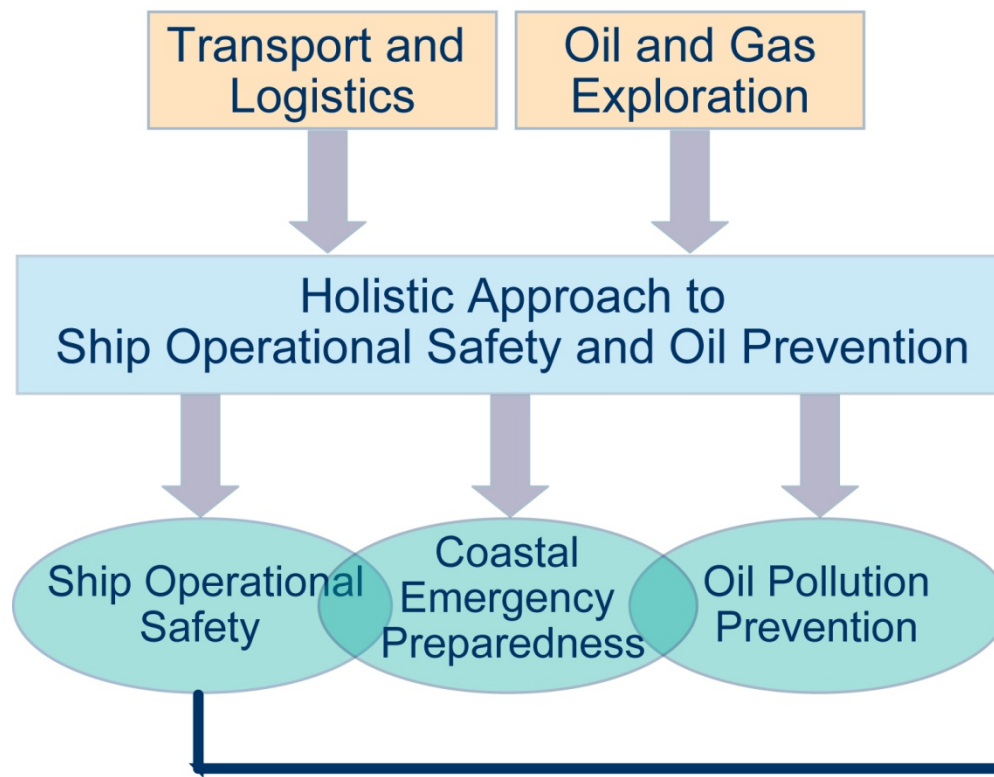
Source: Norwegian Space Centre

### Key items:

- Large territory
- Long distances
- Small population
- Arctic islands
- Large economic zone
- Fisheries, oil and gas
- Big shipping nation
- Fragile environment



Source: www.HYDRO.com



## Norwegian Maritime R&D Strategy - **MARITIM 21**

### Horizontal Topics

- Knowledge HUB and infrastructure
- Business development - Idea to value creation
- Maritime policy and framework
- Qualification of new technology

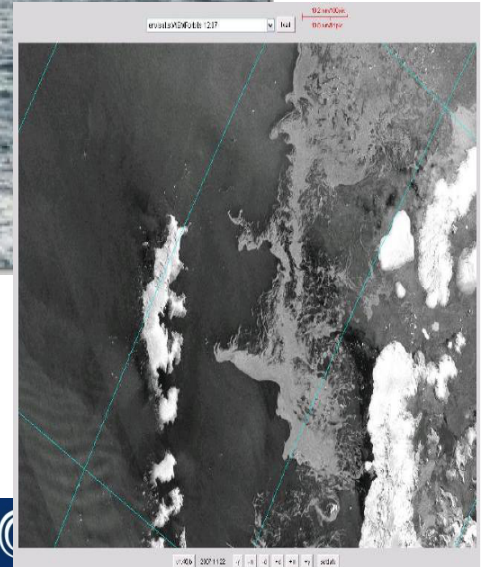
### Specific Priorities

- Environmental friendly use of energy
- LNG - Distribution and usage
- Ship design, equipment and ship production for demanding vessel operation
- Maritime transport and operation in Arctic waters



# Accidents in cold climate regions

- Explorer
- Fram – Grounding in Antarctica
- Hanseatic – Svalbard 1997
- Maxim Gorky





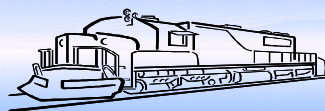
# Ice challenges in the Gulf of Bothnia

-may it influence the industries financial outcome?



“Close to night wind strengthened up to 20 meters/sec, it was rather unpleasant and sometimes felt like crucial, but later at night wind quieted down, now it’s calm. We’re off Kokkola, Finnish coast Gulf of Bothnia. I, with some 20 vessels around stuck in ice and waiting for icebreakers.”

Report from the Swedish tanker Bit Oktanla  
(Maritime Bulletin, March 4-2010)



## Ishavsbanen

# Norwegian Coastal Administration – zero total loss vision

Kirsti Slotsvik, Director General launched the Vision for Zero ship losses and groundings on the Annual Conference in Svolvær, Norway in February 2010

- This is not an Utopian Idea , but a realistic and ambitious goal.



Present situation: 80- 100 groundings along the Norwegian coast annually

# Norwegian Coastal Administration – key parameters for risk assessment

- Number of passengers
- Dangerous/toxic cargo
- Confined waters
- Vulnerable areas
- Heavy traffic



Foto: Bjørn Frantzen



# BarentsWatch



<http://www.regjeringen.no/nb/dep/ud/kampanjer/nordomradeportalen/marine-ressurser/barentswatch.html?id=546594>

# Emergency response operations

- Rescue of ship personnel
- Medical assistance to ship and offshore personnel
- Handling of acute spills (oil /toxic substances)
- Assisting vessels in distress
- Emergency lightering to prevent oil spills
- Emergency towing
  - Prevent drifting vessels from grounding/stranding
  - Assist vessel to port of refuge



# KV Chieftain waiting to connect an emergency towline



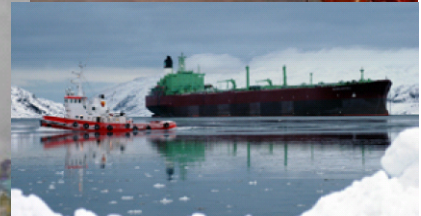
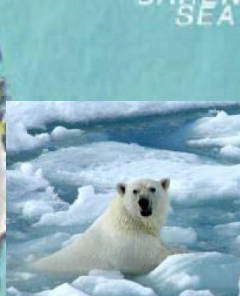
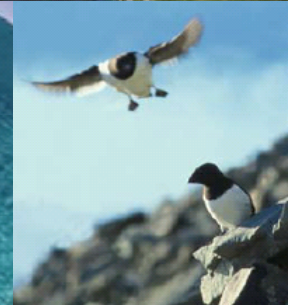
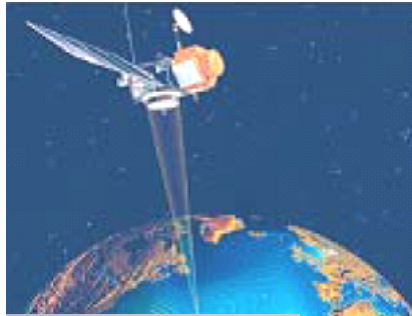
Towing "Urvaag"  
13 February 2008





# MarSafe North

## Maritime Safety Management in the High North





# Objectives for Norwegian work on an holistic approach to safety at sea

- Specify requirements for an improved system for safety at sea in Norwegian territorial waters
  - Time to reach a vessel in distress with airborne resources
  - Time to reach a vessel in distress with seaborne resources
  - Requirements for rescue capability
  - Ability to give assistance under harsh weather conditions
  - Requirements to a system for surveillance of vessel motions in Norwegian waters
  - Criteria for governmental intervention in situations that may result in accidents

# Project activities

- Support work to develop, test and implement:
  - National service on surveillance of ship traffic
  - International collaboration on exchange of ship traffic
  - Methods to measure effects of actions to improve safety at sea
  - New emergency response vessels for an improved safety at sea system
- Special challenges for Norwegian cold climate regions
  - Coast of Nordland, Troms and Finnmark
  - Svalbard region
  - Norwegian part of the Barents Sea
- Support national and international sharing of expertise
  - National – through Maritimt forum
  - Nordic Council and Arctic Council
  - Nordic North Atlantic cooperation
  - European Maritime Safety Agency
  - IMO



# Thank you for your attention



Selendang Ayu incident at  
Unalaskan Islands

