

APP4SEA

ARCTIC PREPAREDNESS PLATFORM
FOR OIL SPILL AND OTHER ENVIRONMENTAL ACCIDENTS



**Northern Periphery and
Arctic Programme**
2014–2020



EUROPEAN UNION

Investing in your future
European Regional Development Fund



UNIVERSITY OF OULU



NPA 2014-2020
programme



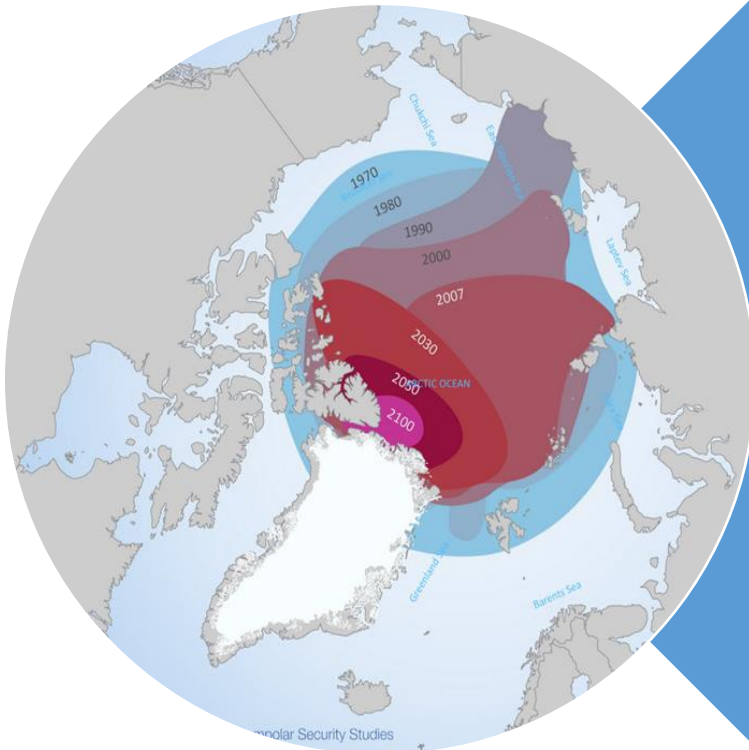
University of
Oulu, Finland



FIN, ICE, NOR, SCO

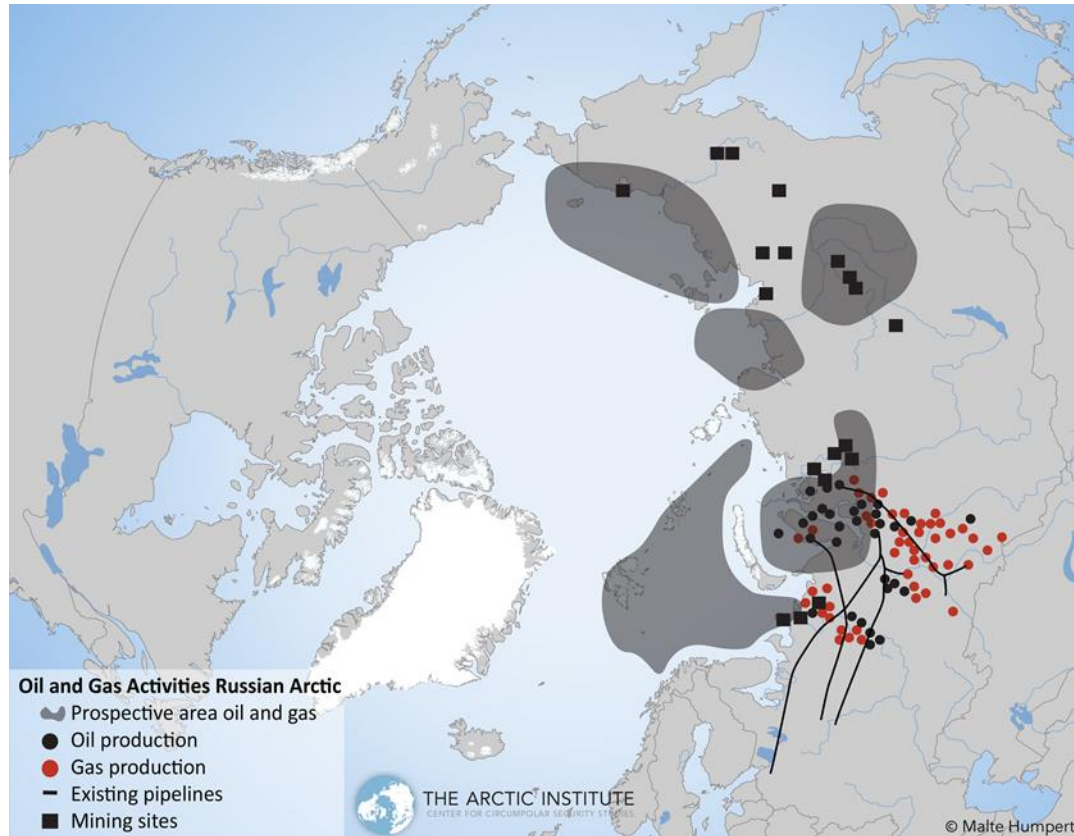


May 2017-April
2020

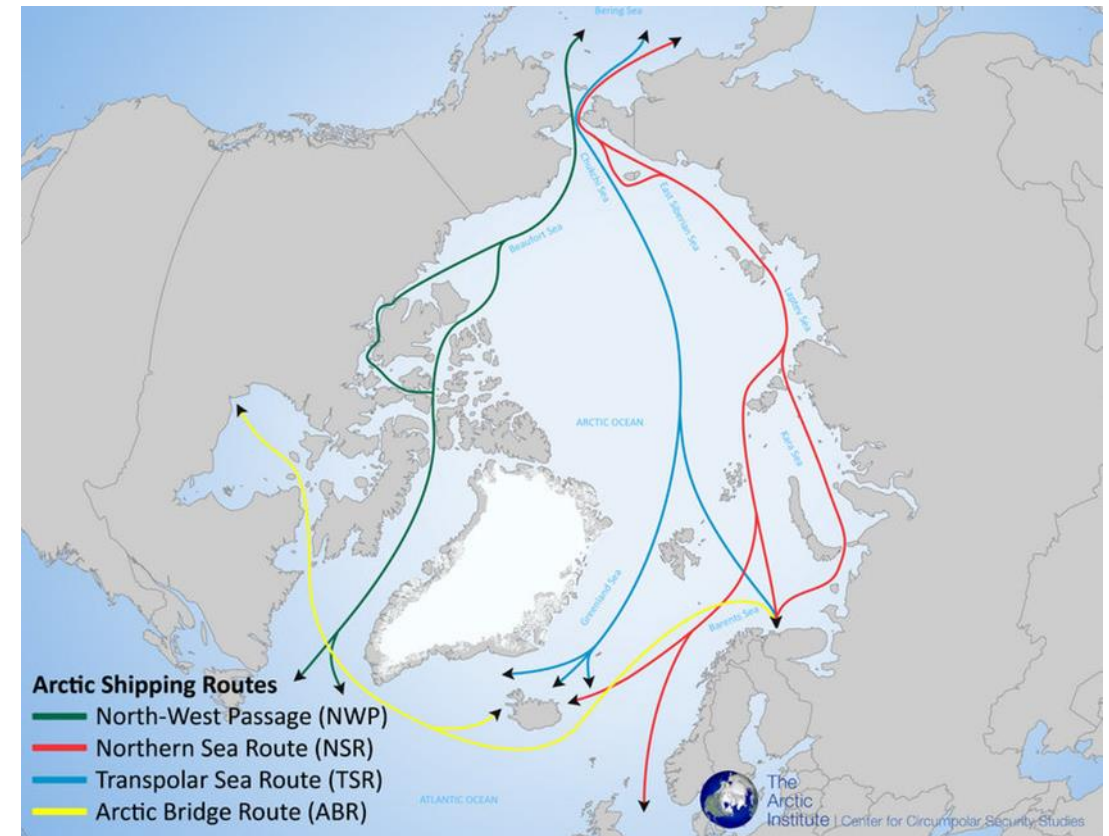


- * The extent of Arctic sea has been monitored by satellites since the 1970's
- * Arctic Summer ice extent has decreased by 40 percent and the ice is much thinner than earlier
- * This development is expected to continue at a faster pace in near future

What kind of changes does the shrinking arctic ice cap enable?



Extraction of oil and gas



Increased maritime traffic



Arctic SAR responsibility areas

- SAR responsibilities of the Arctic countries were agreed on in 2011
 - 80 Percent of the current Arctic maritime traffic is in the Norwegian SAR responsibility area
 - Traffic along the Northern Sea Route is increasing as it becomes ice-free
 - Norway and Russia are developing offshore oil and gas extraction further away from mainland
 - Risks of oil spills and related accidents are increasing at the same time
 - Northern nature is vulnerable
 - Pollution does not recognise borders
- ⇒ Increased human activity on the Arctic seas is a common challenge for all coastal communities

- Raising the Preparedness level of Oil Spill Response

- Expert pool of Arctic OSR specialists
- Current OSR infra and best practices in Arctic OSR
- Gap analysis and suggestions to improve OSR infra and preparedness level

Best technological practices



- Shipping routes and extraction areas
- Weather zones
- Shared oil weathering databases
- Common response model

Where and how to response to oil spills?



- Workshops with stakeholders
- Species inventory for Northern Periphery and Arctic
- Sensitivity and vulnerability of bird and marine species to shipping routes and extraction sites

Ecological impacts



Oil Spills in Arctic Areas, Oulu 7.3.-8.3.2018:
<http://www.syke.fi/projects/mospa2018>

Marine and bird species vulnerability workshop, 29th of September 2017



Interactive Smart Map



Shipping activities



Weather zones



Search & rescue centers

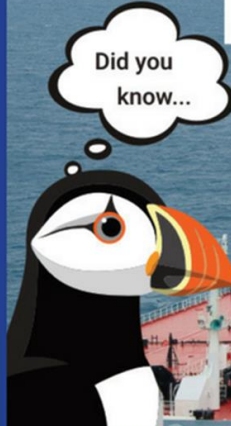


Endangered species





COOL FACTS ABOUT THE ARCTIC



Did you know...



...that half of the world's oil transportations are carried by oil tankers?



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