

A greener Europe

APP4SEA

Improving preparedness for oil spill response in the Arctic



INTERact

European Regional Development Fund



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APP4SEA

Improving preparedness for oil spill response in the Arctic

- Objectives

- Sharing best practices on Arctic oil spill response (OSR) methods and technologies considering the ecological vulnerability of the Arctic
- Cross-border collaboration in OSR
- Raise awareness of local authorities and communities of oil spill risks
- Create an open access smart map and interactive educational materials
- **Funded** by the Northern Periphery and Arctic Programme 2014-2020
- **Partners** from Finland, Norway, Iceland and Scotland



What app for sea?

Smart map for professionals

Map:

OSR centres
Ship movements
Weather zones
Seabird vulnerability

Database:

Simulations and data
on oil behaviour in
cold waters

OpenDrift:

Access to Ocean
trajectory model

Case studies

Simulations
Reports
Useful links

A mobile interface for the general public

Interactive website:

To be aware of trends,
risks and readiness levels

Infographics:

To visualize info for
educational purposes

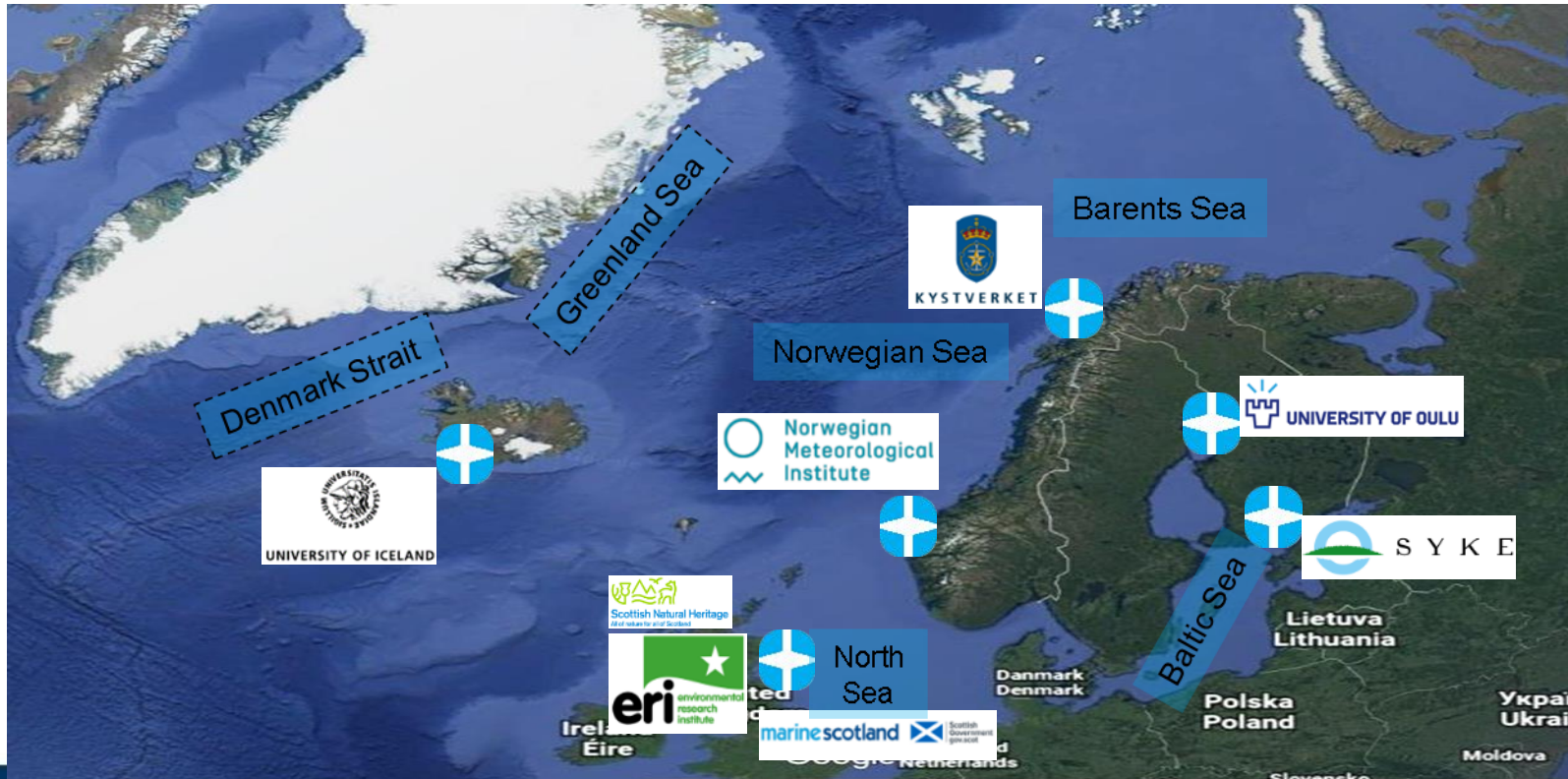
Animations and demos:

To visualize accidents
and their impacts

Social media posts

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The APP4SEA map



Multiple stressor and their cumulative impacts

Climate change impacts

- The Arctic is warming twice as fast at the rest of the planet
- Ocean acidification is closing critical levels
- Levels are higher in Arctic seas than globally
- A major pollution concern is marine plastics

Messages from APP4SEA

The importance of collaboration

Cooperation of research, environmental authorities and regional governance ensures that competing needs and interests are taken into consideration

Based on sound science, sharing best practices, action rooted in local communities

Benefits to local communities

Ultimately, our major stakeholders and major beneficiaries are the people of Arctic communities

The issue at hand is our future and of communities effected by climate change.

Raising awareness and communication are essential

Messages from APP4SEA

Challenges of the Arctic

The state of the Arctic environment indicates deepening in-sustainability

Cumulative impacts from several stressors are inhibiting the ability of ecosystems to resist and recover

What can we learn from the Arctic?

The Arctic seas unite, cooperation of Arctic nations and communication across sectors is necessary

The scale and pace of change is unprecedented, we need to act fast, adapt and mitigate in parallel and together