

Project deliverables:

TRANSNATIONAL POOL OF EXPERTS:

- Sharing knowledge on oil behavior on sea, oil spill response methods, experience with tools and models;
- Introducing cutting edge technologies;
- Providing local authorities and general public with access to the knowledge bank;

WEBSITE AND MOBILE APPLICATION:

The project will develop and open access, interactive smart map showing:

- Search and rescue centers;
- Weather zones;
- Oil shipping routes;
- Protected natural areas.
- Infographics for education;

PROFESSIONAL ACCESS PRODUCTS:

- Shared oil weathering database;
- Shared oil spill response model;
- Predictive decision making tool;

BEST PRACTICE REPORTS ON:

- OSR technologies in the Arctic;
- OSR gaps in the NPA region;
- Recommendations to improve OSR infrastructure.

Project partners:

APP4SEA unites coastal authorities, researchers and experts in oil spill response technologies and computer models. The following organizations form the partnership:

FINLAND:

University of Oulu (lead partner)
Finnish Environment Institute

NORWAY:

Norwegian Meteorological Institute
Norwegian Coastal Administration

ICELAND:

University of Iceland

SCOTLAND:

Environmental Research Institute
Scottish Natural Heritage
Marine Scotland



KYSTVERKET
NORWEGIAN COASTAL ADMINISTRATION



UNIVERSITY OF ICELAND



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



Project solution

The APP4SEA project will contribute to environmental protection of the Arctic waters and saving the habitual lifestyle of local communities. It will improve oil spill preparedness of local authorities and public awareness about potential oil tanker accidents at sea.

The main goal of APP4SEA is to improve oil spill response (OSR) preparedness in the NPA region by:

- Pooling competences across the region: partners in Finland, Norway, Iceland and Scotland;
- Upskilling local authorities in charge of oil spill response at sea: transferring best practices and tools;
- Raising awareness in coastal communities: risks associated with increased marine traffic;
- Protecting natural and cultural heritage: marine bird species, livelihood of coastal communities.

Project background

The 21st century brought unprecedented interest in Arctic resources, turning the region from the world's periphery into the center of global attention. At the same time, few regions have experienced the kind of dramatic changes due to climate change as witnessed in the Arctic environment.

Within the next 50 years, Arctic coastal communities, their habitual environment and traditional lifestyle will undergo severe changes, caused by the combined impacts of climate change, exploitation of Arctic gas and oil resources and increased maritime traffic.

Problem

With increased maritime traffic, the risks of oil spill accidents increases as well. A large-scale oil spill in the Arctic marine environment is, luckily, unprecedented. Currently, the Arctic lacks both the awareness of the risks associated with future activities, as well as the infrastructure and adequate response technologies.

The Northern Periphery and Arctic Programme area needs improved public and organizational awareness, map gaps in preparedness, sharing expert insights and modern software for efficient modeling and supportive solutions in sustainable environmental management.

