

ATOMEX:

Collaboration Complexity in Nuclear Emergency Preparedness in the Maritime Arctic

Project period: 2023-2026



BACKGROUND

The increased maritime transportation, flow of goods, and populations changes the risk picture in the Arctic. A recent sharp increase in nuclear-propelled vessels and ships transporting spent nuclear fuel and radioactive materials adds new uncertainties into risk assessments, risk perceptions, and challenges of inter-sectoral collaboration complexity in case of response to maritime radiation emergencies in the Arctic.

OBJECTIVES

- Building shared knowledge on collaboration competences and development of exercises to deal with complexity within Arctic maritime nuclear emergency preparedness
- Research studies on shared understanding of risk evaluation for safety and complexity in the Arctic
- Visualization of risk evaluation for better safety in the Arctic
- Designing an algorithm to support decision-making and risk awareness of nuclear emergencies

Interdisciplinary partnership



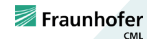
Academic partners



Nord University (Norway)



Laurea University of Applied Sciences (Finland)



Fraunhofer Center for Maritime Logistics and Services (Germany)

Emergency preparedness and response authorities

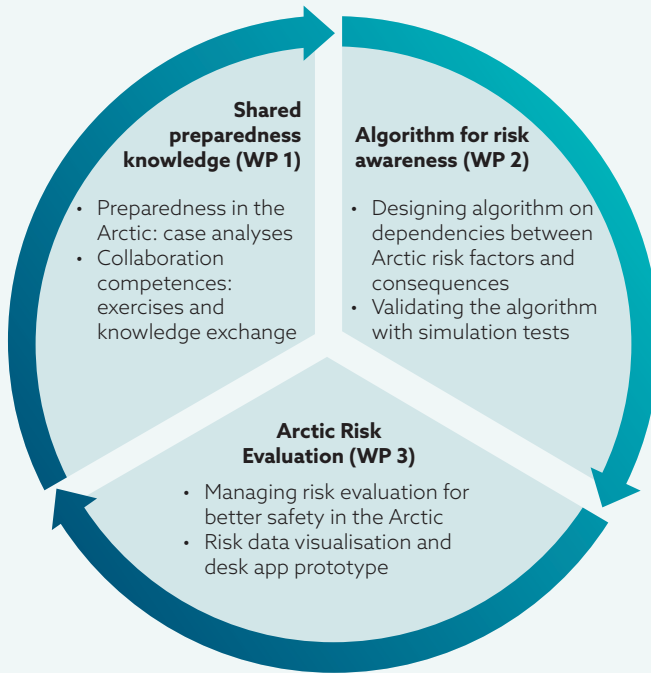


Norwegian Radiation and Nuclear Safety Authority



Joint Rescue Coordination Centre Norway





Natalia Andreassen natalia.andreassen@nord.no

Rune Elvegaard rune.elvegard@nord.no

Andrey Kazakov andrey.kazakov@nord.no

Emmi Ikonen emmi.susanna.ikonen@hovedredningscentralen.no

Johan Mannsaaker johan.mannsaaker@hovedredningscentralen.no

Inger Eikermann Inger.eikermann@dsa.no

Oscar Mork oscar.mork@dsa.no

Øyvind Gjølme Selnæs oyvind.selnæs@dsa.no

Robert Grundmann robert.grundmann@cml.fraunhofer.de

Ashwarya Kumar ashwarya.kumar@cml.fraunhofer.de

Johanna Karvonen johanna.karvonen@laurea.fi

Minna Markkanen minna.markkanen@laurea.fi

Matti Kropsu Matti.Kropsu.matti.kropsu@laurea.fi

