A risk analysis approach for pollution response fleet management in the Northern Baltic

**CONTEXT**

Maritime traffic  
Sea ice  
Wintertime operations  
Oil spill in ice

**RESEARCH & POLICY QUESTIONS**

- What is the risk of maritime accidental oil pollution in the Northern Baltic?
- What preparedness level is required for oil spill response in ice?
- How to organize the response fleet, focusing on vessel location and equipment?

**METHODOLOGY**

- **ACCIDENT ANALYSIS**
- **TRAFFIC SYSTEM ANALYSIS**
- **COLLISION & GROUNDING DAMAGE MODELS**
- **OIL OUTFLOW MODEL**
- **EXPERT ELICITATIONS**
- **CLIMATE SCENARIO ANALYSIS**
- **TRAFFIC DEVELOPMENT ANALYSIS**
- **SPATIAL OPERATION-SPECIFIC RISKS**
- **SPILL EQUIPMENT EFFICIENCY**
- **FLEET & STORAGE ANALYSIS**

**RISK PICTURE**

Bayesian Network model  
Knowledge dimension  
Surprises

**CONTACT & INFORMATION**

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**CONSORTIUM**

[Images of various institutions and logos]