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OpenRisk II – ideas

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Objective

To develop a single window software platform for the Pollution Preparedness and Response (PPR) authorities, which can provide useful risk-related information to support the PPR authorities risk management in national and regional levels.

To give some examples, it can support decisions related to allocation of PPR resources, investments on new response vessels and equipment, updating of operational procedures and the like.

Objective

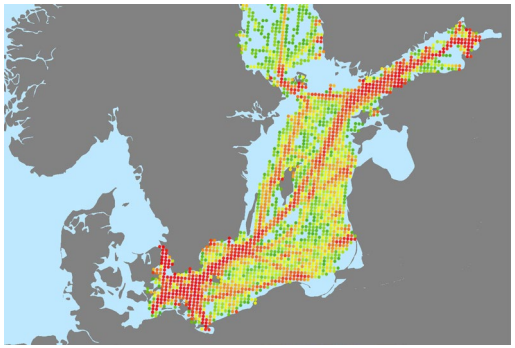
The platform enables to conduct each step of the ISO 31000:2018 based risk assessment process with state-of-the-art risk assessment tools.

Moreover, this product will be open access and easy to use.

Objective

1. First, we will explore **possibilities to integrate already existing approaches**, which can be utilized as components for designing our software platform.
   - For example, risk assessment tools such as AISyRISK of Norwegian Coastal Administration (NCA) and NG-SRW (BONUS STORMWINDS) could be used for this purpose.

2. Second, we will **explore ways to improve and extend the usability** of these components through results of BONUS BALTIMARI project.
   - For instance, AISyRISK is currently missing a module which considers the risk of accidental oil pollution in ice conditions.



Objective

3. Third, we will explore the ways for **integrating these different components with each other to provide a streamlined software interface** for end users.
    - For example, one component we plan to integrate to risk assessment framework is the oil spill calculation model that provides an estimate of oil spilled depending on the accident scenario and resulting damage in ship structures.
    - Such calculation model has been developed earlier and has been already adopted to ADSAM online tool (http://www.sea.ee/adsam) in BONUS STORMWINDS project.
    - However, this early phase adoption lacks user friendliness and has limited integration with other tools, which limits its potential impact on the safety of Baltic Sea.

4. Finally, the aim is to **get the PPRs to adopt the software platform into their risk management practices**. To achieve that goal, the project develops a suitable user training concept and material.

Objective

Through harmonizing the current risk assessment practices of this field, the project enhances transnational co-operation of the PPR authorities and supports their ability to work together during a spill accident.

In addition to the Baltic Sea, the results of this project could be used in other areas as well, such as the Arctic PPR risk management.

Project consortium

The project partners will include both the end-users and academics.

The first consists of national authorities such as the ones of the HELCOM Response Group and Norwegian Coastal Administration. Their role is to ensure that the outcome of the projects complies with the practical needs of this field.

The second is formed by research organizations, who are responsible for the actual work, i.e. of designing and establishing the risk assessment software platform to support the PPR risk management activities.

Project consortium – the list is open

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TRAFICOM
Finnish Transport and Communications Agency

KYSTVERKET
NORWEGIAN COASTAL ADMINISTRATION

TALLINN UNIVERSITY OF TECHNOLOGY

HELCOM

Aalto University

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Potential funding sources

- Interreg Baltic Sea Region Programme
- BANOS (BONUS Programme successor)
- Horizon 2020 (or Horizon Europe), appropriate calls
- Central Baltic Interreg (if continuing)

Contribution to EUSBSR

- OpenRisk II contributes to the EUSBSR Policy Area on Maritime Safety and Security (PA Safe) – To become a leading region in maritime safety and security.

- More specifically, it is linked to the updated EUSBSR PA Safe's (currently a draft version) fourth action, "Ensure accurate preparedness and response for maritime accidents and security issues".

- There the focus is on topics such as improving coordination of crisis management capacities and resources, as well as development and standardization of risk management practices of the response authorities.

- Both are on the spot with the project objectives.

Contribution to EUSBSR

- In addition, the application also supports the EUSBSR Policy Area Ship by helping the environmental monitoring and management of emissions and pollutants from ships.
- OpenRisk II is also linked to EUSBSR HA Neighbours, as negotiations to address risk monitoring and management together with Norway are ongoing.
- Also, potential for co-operation with Russian PPR stakeholders within the main project is investigated.

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Thank you !

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