

EMSA's new Regulation and the Risk Assessment work initiated under its implementation

OpenRisk II Project Final Conference

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Unit 1.1. Sustainability / Dep.1 Sustainability and Technical Assistance

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The European Maritime Safety Agency at a glance

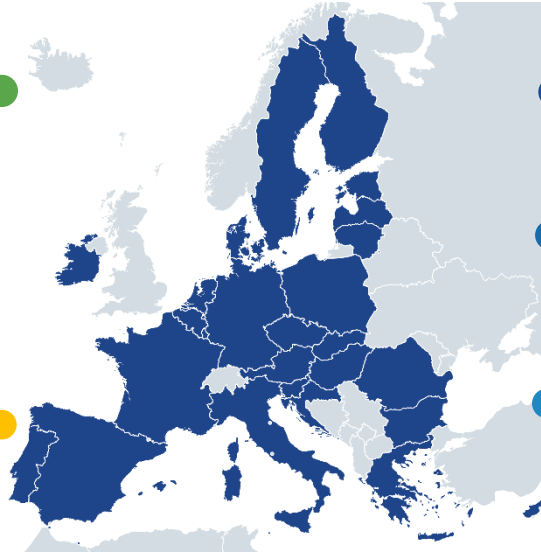


Scientific
assistance

Technical
assistance

Operational
assistance

EU
Member States



Sustainability



Safety



Security



Surveillance



Simplification
& Digitalisation

Budget: €120M + €20M
Staff: 340



Strategic Objective: Develop a future-proof, risk-based Pollution Response Services (PRS) framework that strengthens preparedness and response to evolving marine pollution risks, including alternative fuels and new pollutant profiles.

BASELINE



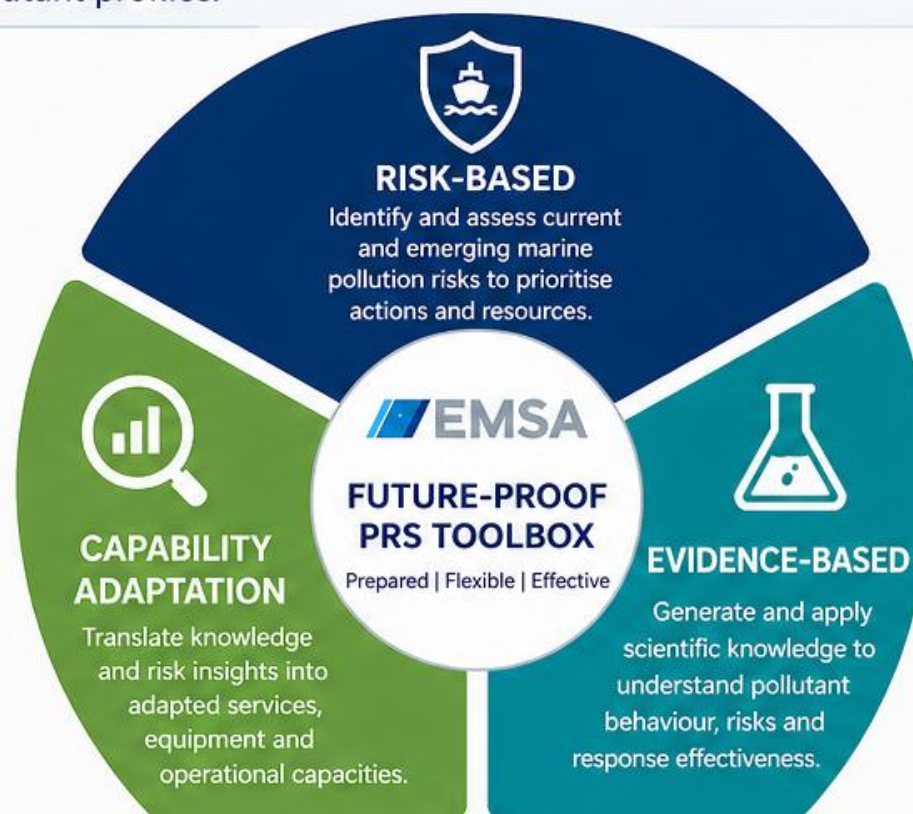
PRS FUTURE-PROOFING

Adapt the PRS toolbox to evolving risks, traffic patterns and technologies.



NEW MANDATE RISK-BASED APPROACH

Embed a risk-based approach to guide planning, prioritisation and decision-making.



NEW & EMERGING CHALLENGES



RESPONSE TO ALTERNATIVE FUELS

Emerging fuels (e.g. biofuels, e-fuels, ammonia, methanol) pose new risks and unknowns.



ENHANCE RESPONSE FOR LOW SULPHUR FUELS

Low sulphur fuels have different behaviour and require adapted response approaches and equipment.

The new EMSA's Founding Regulation provides a new tool to work further in this area, as per new Article 5.2.

“The Agency shall prepare and update a risk assessment for all European sea basins which shall serve as a basis for the location of the Agency’s oil and chemical pollution response vessels for supporting the Member States in marine pollution response activities.”

Stage 1_Step1: EU Risk Analysis of marine oil pollution by ships and by oil and gas installations.

Timeline		2026	2027	2028	2029
Stage 1	Risk Assessment Oil spills	Step 1 - Risk Analysis	*Step 2 - Risk Evaluation and Risk Treatment		
*Stage 2	Risk Assessment “software toolbox”	Preliminary market consultation	Outsourcing or development of “software toolbox”		
*Stage 3	Risk Assessment other pollutants	Risk Assessment other pollutants			

* Activities to be confirmed.

EU Risk Analysis of marine oil pollution by ships and by oil and gas installations

Risk Assessment Framework: **Stage 1 - Risk Assessment Oil spills**

- **Step 1 - Risk Analysis**
- **Step 2 (Activity TBC) - Risk Evaluation and Risk Treatment**



Step 1 - Risk Analysis

- ☐ Open Procurement Procedure: EMSA/2026/OP/0004
- ☐ **Contract signed on 30 June 2026**
- ☐ Duration 14 months

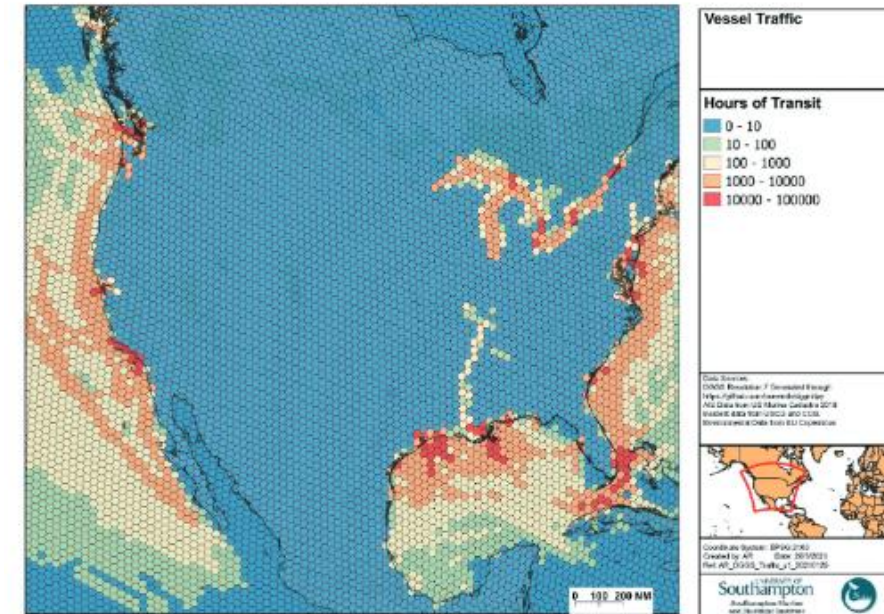
Objective

- ☐ Comparable Risk Analysis, to quantify and map marine oil pollution risks across all EU sea basins.
- ☐ Two timeframes: current risk scenario and predictive risk scenario (5y Horizon).
- ☐ Spatial risk maps to provide a detailed picture of risk levels by European sea basin.

EU Risk Analysis of marine oil pollution by ships and by oil and gas installations

Methodology

- ☐ Follow the ISO 31000:2018 standard, and cover Risk Identification and Risk Analysis phases of Risk Assessment.
- ☐ Risk – spill sources: Ships, STS, PPW, Offshore installations.
- ☐ Ship traffic: AIS data.
- ☐ Various types of Oil cargo and Fuel oil.
- ☐ Spatial units (i.e., Grid cells).
- ☐ Backbone of the Risk Analysis, IT software toolbox, around three layers: Input layer, Processing layer (Frequency model, Consequence model), Output layer (Risk mapping and visualisation).
- ☐ Environmental and socio-economic consequences of spills not included in the Risk Analysis.



Workshop with MS CTG Experts at EMSA:

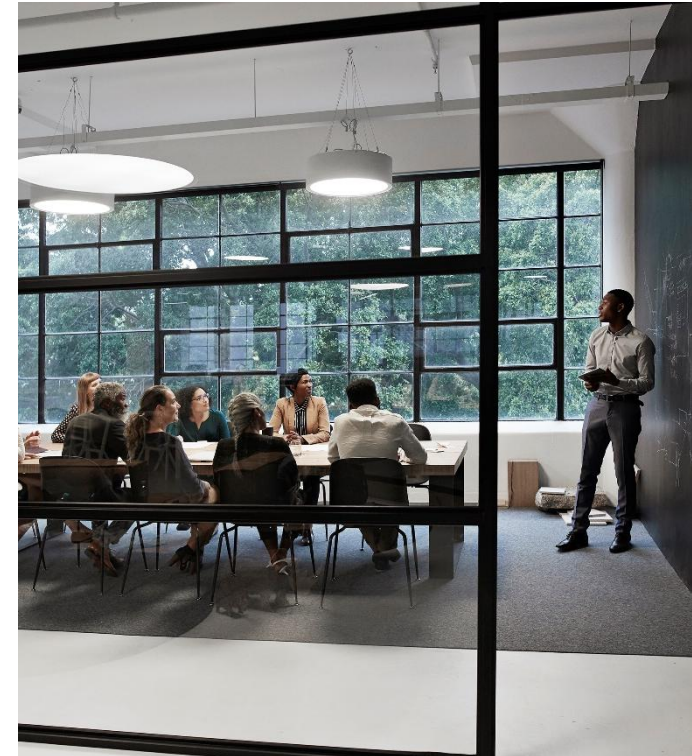
- 8 October 2026:
Presenting method of the study, architecture and parameters of the RA tool.

- ✓ **Under CTG MPPR**
- ✓ Established in January 2024
- ✓ **Platform of experts from MS and RA, led by EMSA**
- ✓ Timeline: 2024-2026

CG-DRA Tasks:

Task 1. Map the data needs and gaps of the marine pollution preparedness and response' user community in support of risk assessment. **Completed**

Task 2. Define a possible common ground (including a common terminology) that could be used by the Member States and Regional Agreements when performing risk assessment for marine pollution. *Ongoing*



3 Sub-tasks:

- ❑ (1) Map existing resources and approaches for risk assessment for marine pollution → Completed work
(2023 data) Short Overview of current practices and national approaches prepared (EMSA)
 - (2) Develop a common terminology → common Glossary document → Ongoing work
Document prepared by DG ECHO re. marine pollution terminology under UCPM disaster risk management reporting → Template for input /feedback by CTG
 - (3) Identify main building blocks for risk assessment (methodology) → Best practice Guidance document
Base work on the Guidelines for Arctic Marine Risk Assessment
→ Norway proposed to review this electronic tailor-made platform & adjust it for the work under the CTG
→ EMSA has adapted the Guidelines into a broader Guidance document → Ongoing work
- ❖ Work is progressing slowly → CTG meeting 7 October 2026



Thank you! Any questions?

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