



# RESPIL – Response means to chemicals spilled at sea and environmental damage



# Background and rationale

- Are the current **knowledge and practices** sufficient to monitor and assess the **environmental status** following **accidental chemical spill at sea** ?
  - Can we propose additional methods based on **actual biological effects** with ecological relevance ?
  - Can these methods be used for ***in situ* monitoring** and recovery assessment **post-spill**
  - How to use them in a way to **harmonise communication** of the environmental status to decision-makers at the European level ?
- ⇒ Recommend their use and integration in **environmental monitoring guidelines** at the European level



## Respil in brief (1) ...

- **Task ID-2.** Selection of chemicals and knowledge of their environmental impact
  - ✓ Use existing information from projects like HASREP, classification and hazard criteria defined within IMO/GESAMP, Bonn agreement, recent accidents in European waters etc...
- **Task ID-3.** Experimental study in laboratory-controlled conditions
  - ✓ Realistic exposures of sentinel marine species to chemicals
  - ✓ Measurements of relevant parameters in organisms indicating environmental changes following exposure & monitoring during recovery phase



## Respil in brief (2) ...

- **Task ID-4.** *In situ* validation using a pilot mesocosm study
  - ✓ Validate the methodologies used in laboratory conditions for field application
  - ✓ Carry-out exposures with sentinel species in floating cells deployed at sea – Measurements of biological responses
- **Task ID-5.** Dissemination and input to EU environmental guidelines
  - ✓ Integration of methodologies in current guidelines
  - ✓ Communicate results in a simplified way, harmonise within EU Member States (link with on-going EU-PRAGMA - <http://www.iris.no/pragma>)



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