

## **Enhancing HNS** preparedness through training and exercising



MARINER is co-financed by the European Union in the framework of the Union Civil Protection Mechanism. DG-ECHO



## More than 2,000

Around 126 ship-source HNS incidents over 10 m<sup>3</sup> were reported in the period from 1998 to 2013 (Cedre).

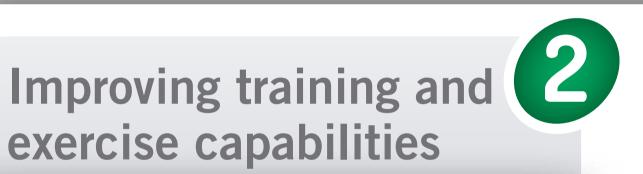
**Due to their great** complexity and variety, HNS preparedness and response is less well defined than that for oil spills.

types of Hazardous and Noxious Substances (HNS) are regularly transported by sea (IMO).

# Mariner Goal

Improve planning, preparedness and response to HNS spills in Europe by:

**Capitalizing and translating relevant HNS R&D outcomes into operational** resources applicable by planners and responders



Upgrading and/or improving tools to

exercise capabilities



4

## Mariner Key Outcomes

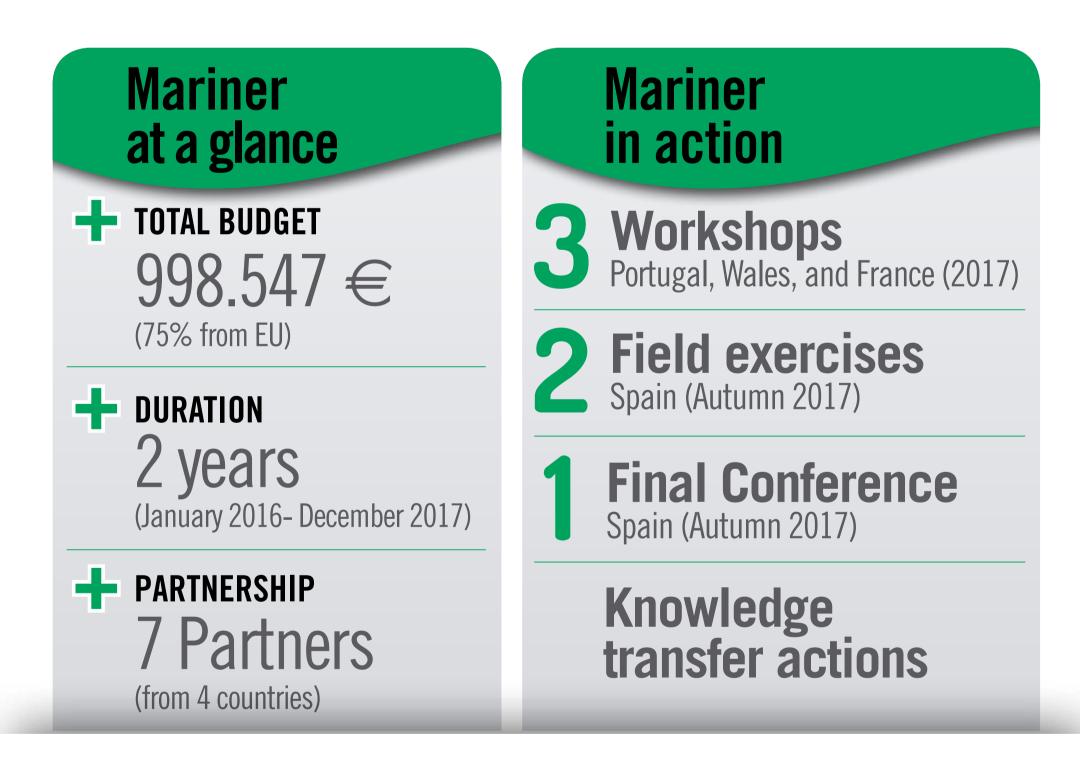
#### **Knowledge compilation** and facilitation

- Online user-friendly knowledge tool gathering relevant information on HNS preparedness and response.
- Transfer actions to assist end users on the implementation of selected knowledge/tools into their operational procedures.

#### Modelling and environmental impact

support decision making and response

**Increasing awareness and** encouraging information exchange



- Upgraded HNS spill model integrated into a Common Operating Picture.
- Cross border guidelines for HNS environmental impact assessment.

#### **Response protocols**

- HNS response protocols.
- •4 exercises to test the protocols.
- Video on training.

### Training

- Web based database exercise tool, as well as E-learning materials on exercises and risk assessment to assist users on the functioning of the tool.
- Training package on HNS spill management.
- Training package on HNS modelling.







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