

# MANIFESTS

MANIFESTS: MANaging risks and Impacts From Evaporating and gaseous Substances To population Safety



Co-funded by the European Union Civil Protection

## Main activities

- **Theoretical and experimental studies**  
Enhancing knowledge on gases and evaporators
- **Modelling**  
Improving risks prediction (evaporation, explosion & fire risk modules)
- **Desktop and field trials**  
Validating response protocols & modelling predictions

Maritime accidents can result in the release of volatile Hazard Noxious Substances (HNS) at sea that are likely to form toxic, flammable or even explosive gas clouds presenting a danger for nearby populations and the environment. Currently, there is limited response guidance on dealing with such airborne releases and with decisions over sheltering or evacuation of the crew, responders and the coastal population. The ultimate objective of MANIFESTS is to tackle these gaps and to improve response and training capacities of marine pollution-response authorities by developing an operational Decision-Support System (DSS) for HNS spills.



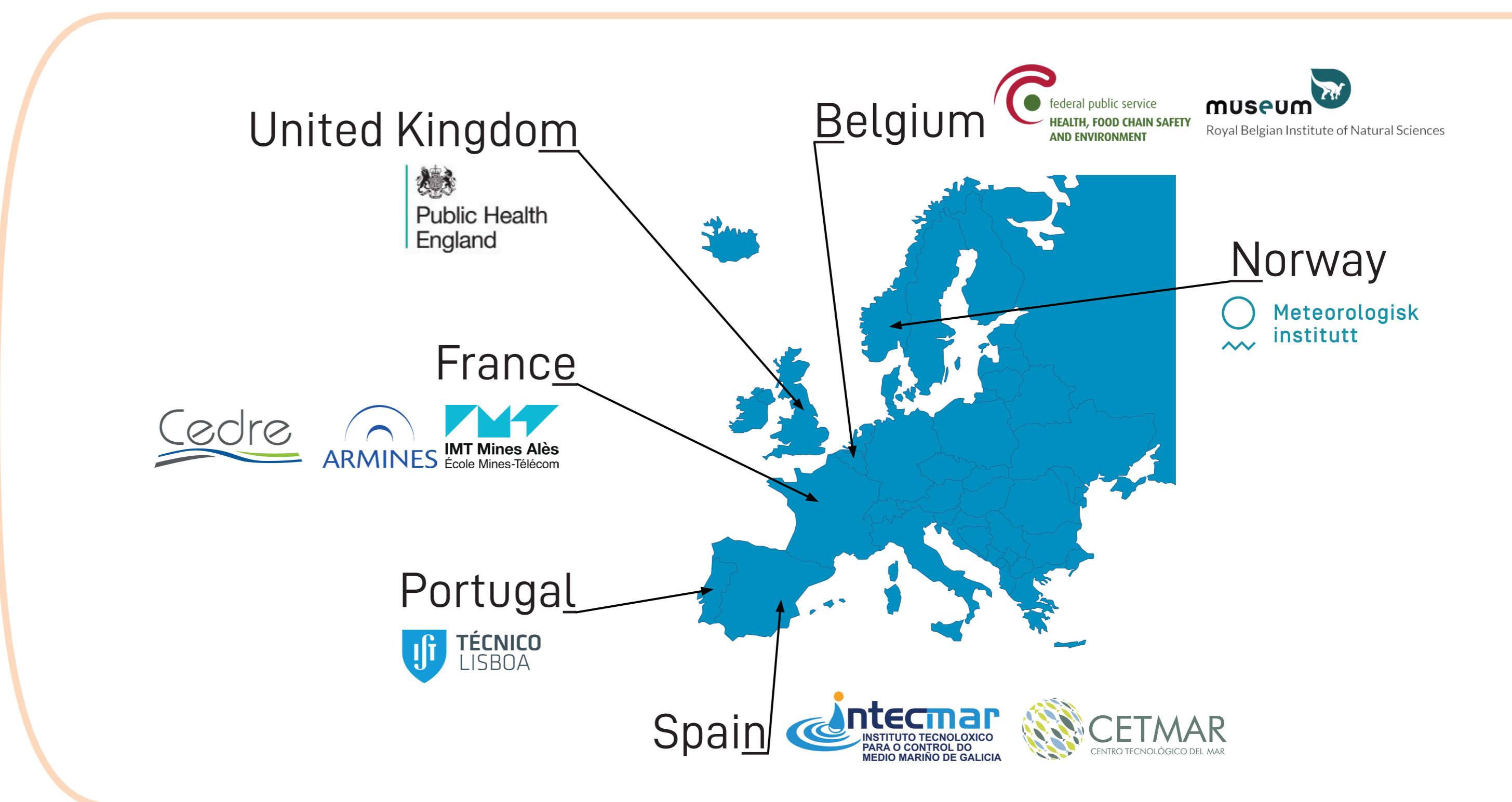
## Expected results

- **Experimental data on gas cloud formation and fate**
- **Improved HNS databases**
- **Enhanced modelling capabilities**
- **MANIFESTS Decision-Support-System**

## Expected impacts

- **Better preparedness** of national, regional and local maritime authorities responsible for marine pollution response
- Improvement of **contingency plans** for volatile HNS spills
- **Advanced training** of responders for volatile HNS spills
- Enhanced forecasting of the **fate and behaviour** of volatile HNS spills through widespread use of the MANIFESTS DSS

## Partnership



Leader

Cedre

Duration

24 months

Budget

1,0 M€

EU

874 K€



[www.manifests-project.eu](http://www.manifests-project.eu)

Contact points:



Cedre - Stéphane Le Floch & Laura Cotte  
715 rue Alain Colas - CS 41836 - 29200 Brest  
Tel: +33 (0)2 98 33 10 10  
Email: [documentation@cedre.fr](mailto:documentation@cedre.fr)

