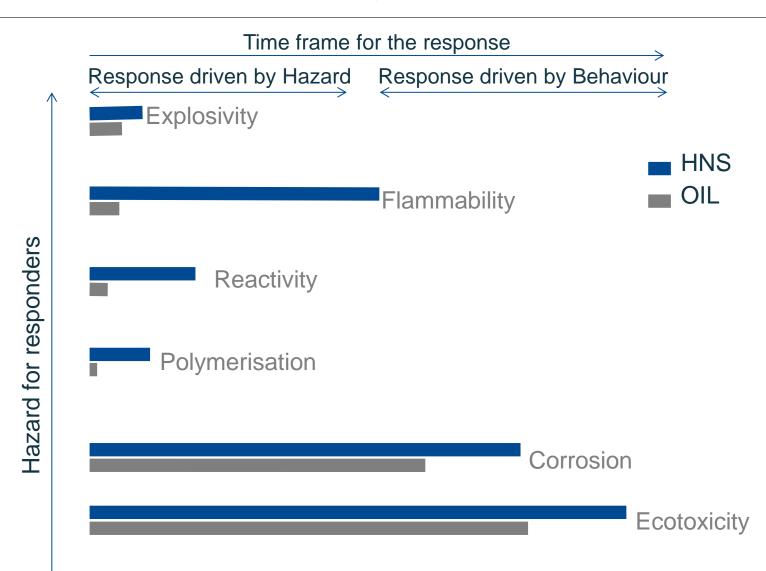


HNS Accidents :challenges, preparedness and response



HNS incidents : a complex challenge

- High variation of the substances, compared with oil ;
- Variation even higher when the incident involves a cocktail of HNS ;
- No « one size fits all » solution, depending on the HNS, response strategies, equipment, and communication shall vary;
- Necessity to identify a wider range of partners and expertise ;
- Need for a strong and standing connexion with the industry.



How first response actions driven initially by hazards and later by behaviour change over time



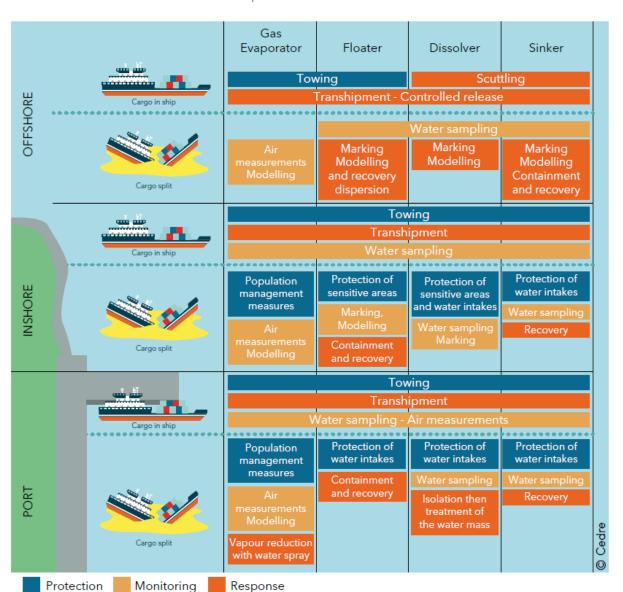


Preparedness and response :

✓ Organisation
✓ Equipment
✓ Training
✓ Assistance



Response options for cargo transported in bulk







MAR-ICE service - levei 1

Cedre 🕸 cefic

EMSA

24/7 expert information service for marine chemical emergencies – level 1

- Access to chemical expert(s) specialised in marine pollution response
- Product specific information & advice
- Input from chemical industry
- On a case-by-case basis:
 - # Risk assessment (responders & environment);
 - # 3D drift & weathering modelling results;
 - # Advice on response methods and options



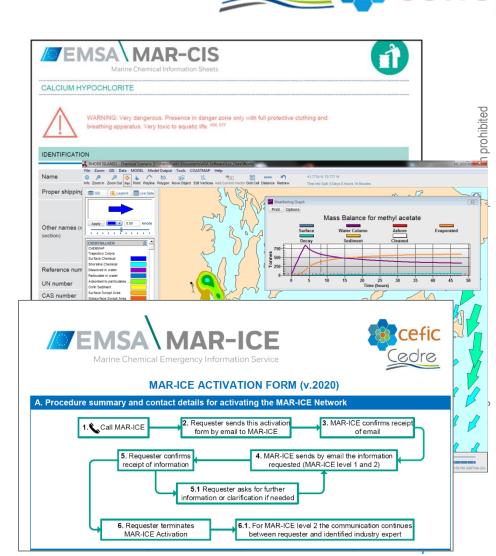




* Service is available to public administrations of EU/EFTA countries

Cedre Service activations – requests

- Cargo specific questions
- Hazards, PPE, …
- Drift modelling
- Response options
- Risk assessment
 (for responders & environment)
- Used in real incidents and exercises by 15 countries
- MAR-ICE tests w. chemical industry
- Well incorporated in national incident response procedures for chemicals spills at sea

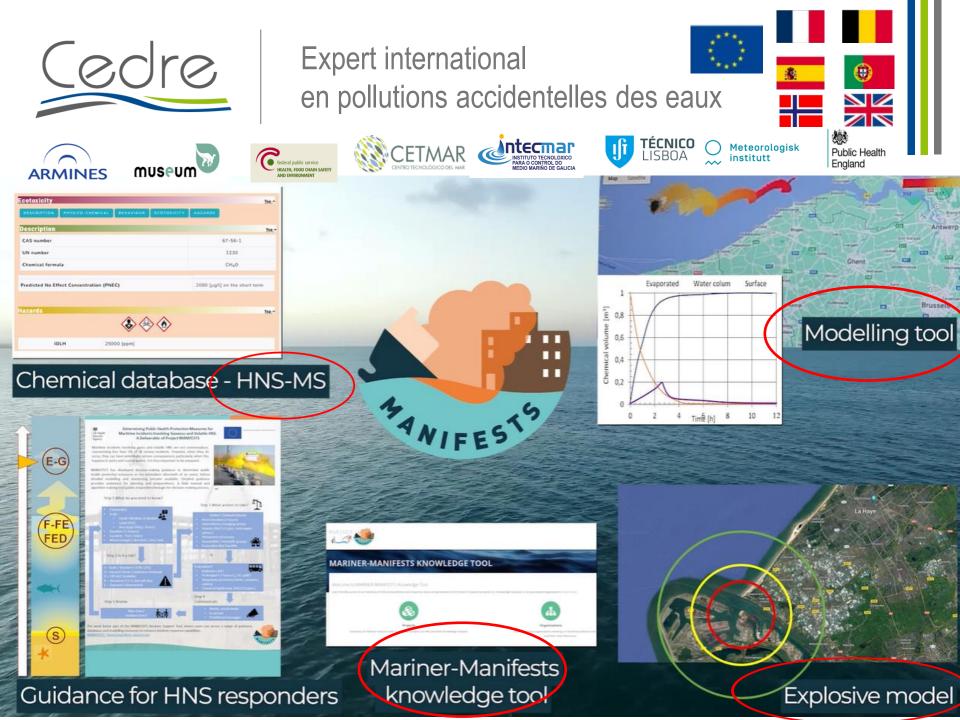


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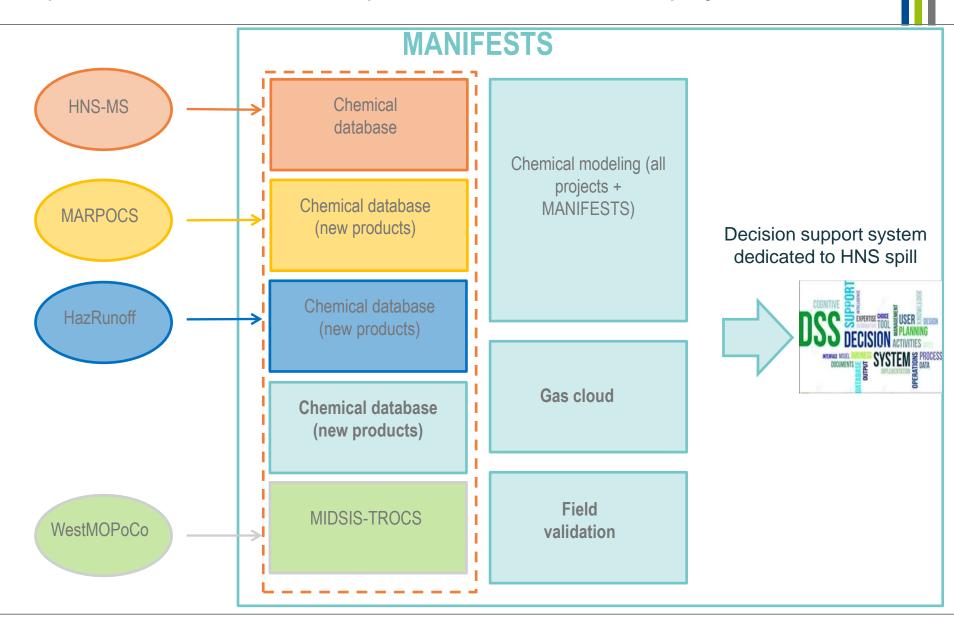


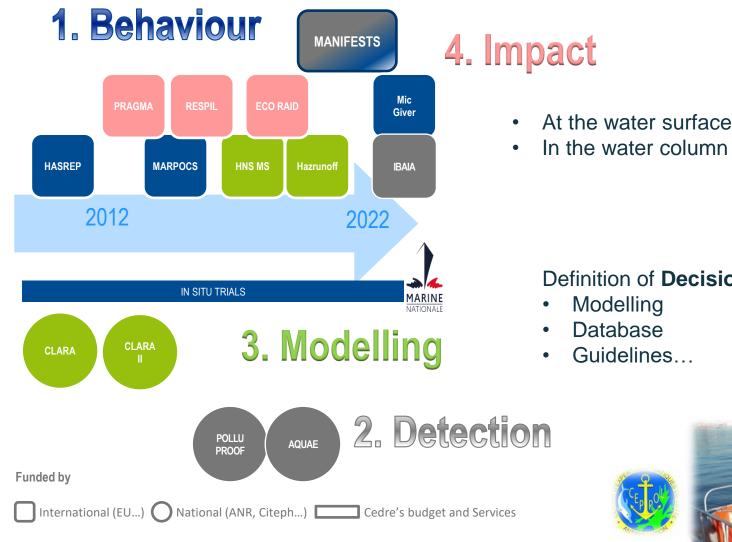
• Development of scientific knowledge :

✓ Risk analyses
 ✓ HNS dedicated tools, protocols, procedures and products
 ✓ Data on fate and behaviour on each substance
 ✓ Data on marine resources at risk, environment, human activities



Capitalization of the results of previous EU-funded HNS projects







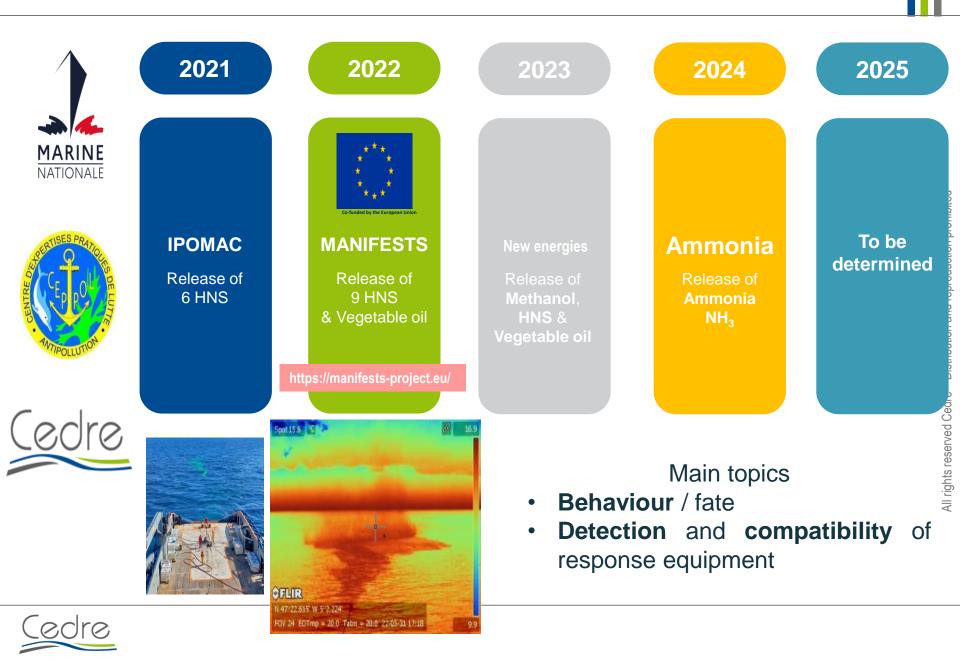
Definition of Decision Support System

- Modelling
- Database
- Guidelines...



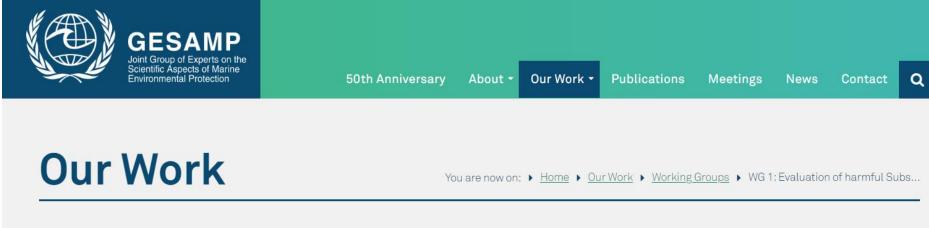


Sea trials: HNS behaviour and testing of sensors to validate modelling





International experts in spill preparedness and response



EHS Working Group: Environmental Hazards of Harmful Substances



Studying the behaviour of chemicals in the sea, identifying floaters at CEDRE (France)

WG 1: Evaluation of harmful Substances

SESSIONS' REPORTS

LATEST NEWS

New report from Working Group 38 available

S rom Working Group 38

Lead Agency: International Maritime Organization



