

imaros

Project Overview and
Introduction to Work Packages

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Norwegian Coastal Administration

Title: Improving response capacities and understanding the environmental impacts of new generation low sulphur **MARine** fuel **Oil Spills**

Duration: 1.1.2020 – 30.6.2022

Total eligible cost: 879 421 €

EU Co-financing: 85 %
European Union Civil Protection Mechanism
– Prevention and preparedness projects in civil protection and marine pollution



Union Civil Protection Mechanism (UCPM)

The IMAROS project serves the objectives defined in the call for UCPM prevention and preparedness projects:

General objective:

Strengthening preparedness for responding to multi-sector emergencies, including health, CBRN, environment and marine pollution in Europe and its Neighbourhoods

Specific objective:







Strengthening capacities for emergency response

Outcomes:

- Options for adapting existing response capacities for land / maritime emergencies are devised
- A knowledge base on response options to new environmental risks is available

- The overall aim is to develop recommendations for oil spill response involving the new generation of fuel oils.
 - capacities and methods for response at sea as well as on shorelines.
 - gain knowledge about the best possible methods in oil spill response to the new generation of fuel oils.
- Increase knowledge to understand potential environmental impacts from an accidental spill.

Project partners

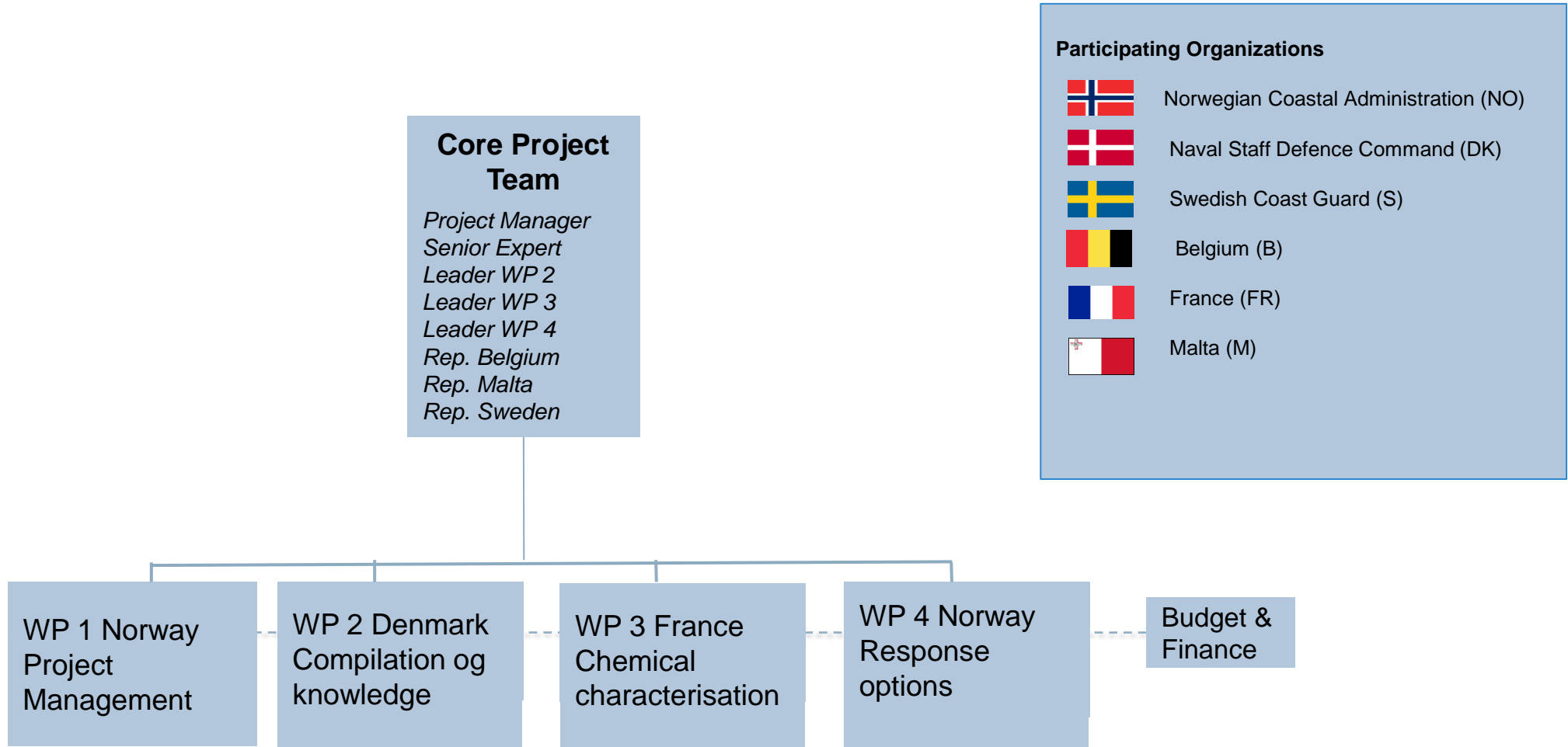
Number	Role	Name	Short name	Country
1	COO	Norwegian Coastal Administration	NCA	Norway 
2	BEN	Swedish Coast Guard	KBV	Sweden 
3	BEN	Institut Royal des Sciences Naturelles de Belgique	RBINS	Belgium 
4	BEN	Royal Danish Navy Command	RDNC	Denmark 
5	BEN	CEDRE - Centre de Documentation de Recherches et d'Experimentation sur les Pollutions accidentelles des Eaux Association	CEDRE	France 
6	BEN	Transport Malta	TM	Malta 

WP 1
Project
management

WP 2
Compilation of
knowledge

WP 3
Chemical
characterisation

WP 4
Response
options



	A. Personnel	B. Travel & subsistence	C. Sub-contracting	E. Other goods & services		F. Indirect costs	Total
				E. 1 Equipment	E.2 Goods & services		
WP 1	229 227	59 525			37 250	22 820	348 822
WP 2	99 793	14 936	2 000	0	72 000	13 211	201 940
WP 3	135 040		3 000	1 667	12 000	10 620	162 327
WP 4	99 351	14 500	7 000	0	34 600	10 881	166 332
TOTAL COSTS	563 411	88 961	12 000	1 667	155 850	57 532	879 421

Total eligible cost:

879 421 €

EU co-financing:

85 %

Lead beneficiary: NCA, Norway
Contribution: All partners
Duration: January 2020 – June 2022
Objectives: Project management and crosscutting activities

Description of work:

- Planning
- Meetings
- Workshops
- Project monitoring and evaluation
- Financial management
- Reporting



Lead beneficiary: RDNC, Denmark
Contribution: All partners
Duration: February 2020 – June 2021

Objectives:

- Gather an overview over new generation marine fuel products (ECA compliant fuels) that are frequently encountered in European waters, supplied from European refineries or through European bunker suppliers.
- Acquire small volume samples from the prevailing, and hence most relevant products for WP 3, as well as identify possible access points for acquiring larger samples for WP4.
- Acquire large volume samples of the most relevant products for testing in WP 4.

Description of work:

- Overview of new products
 - Identify the most prevailing and relevant ECA compliant fuel products in European waters, based on input from each project partner.
 - Input from statistics and existing databases.
 - Gather input from industry – refineries, bunker fuel suppliers and shipping.
 - Decide on most relevant products for further investigation in WP 3 and WP 4.
 - Identify challenges and experiences related to the products, if available.
- Collect small samples for WP 3
- Collect large samples for WP 4



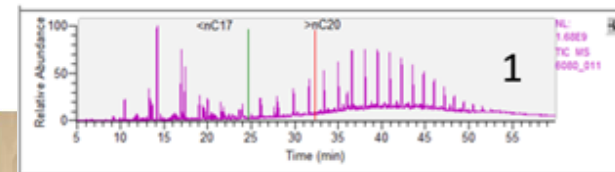
Lead beneficiary: CEDRE, France
Contribution: Belgium, Norway
Duration: July 2020 – April 2022

Objectives:

- Gather knowledge of the chemical composition and physical properties of relevant products. Knowledge of chemical and physical properties of the oil is crucial in order to evaluate response strategy and potential environmental impacts.
- Results from the chemical characterisation will form the basis for the selection of representative oils for testing in WP 4
- Data from WP 3 will also be reference data for oil spill identification for spills from unknown sources (Oil spill forensics, COSIWEB)
- Data from WP 3 will be input data to existing modelling tools and databases for decision support

Description of work:

- Physico-chemical characterisation
- Oil weathering
- Ecotoxicity
- Identification /forensics
- Modelling weathering of Low Sulphur Fuel Oil



Lead beneficiary:

NCA, Norway

Contribution

France, Sweden

Duration :

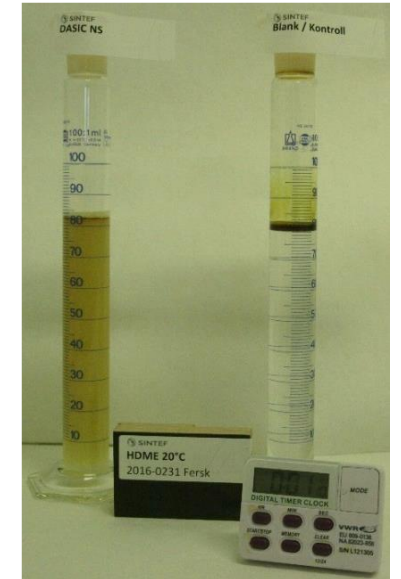
January 2021 – May 2022

Objectives :

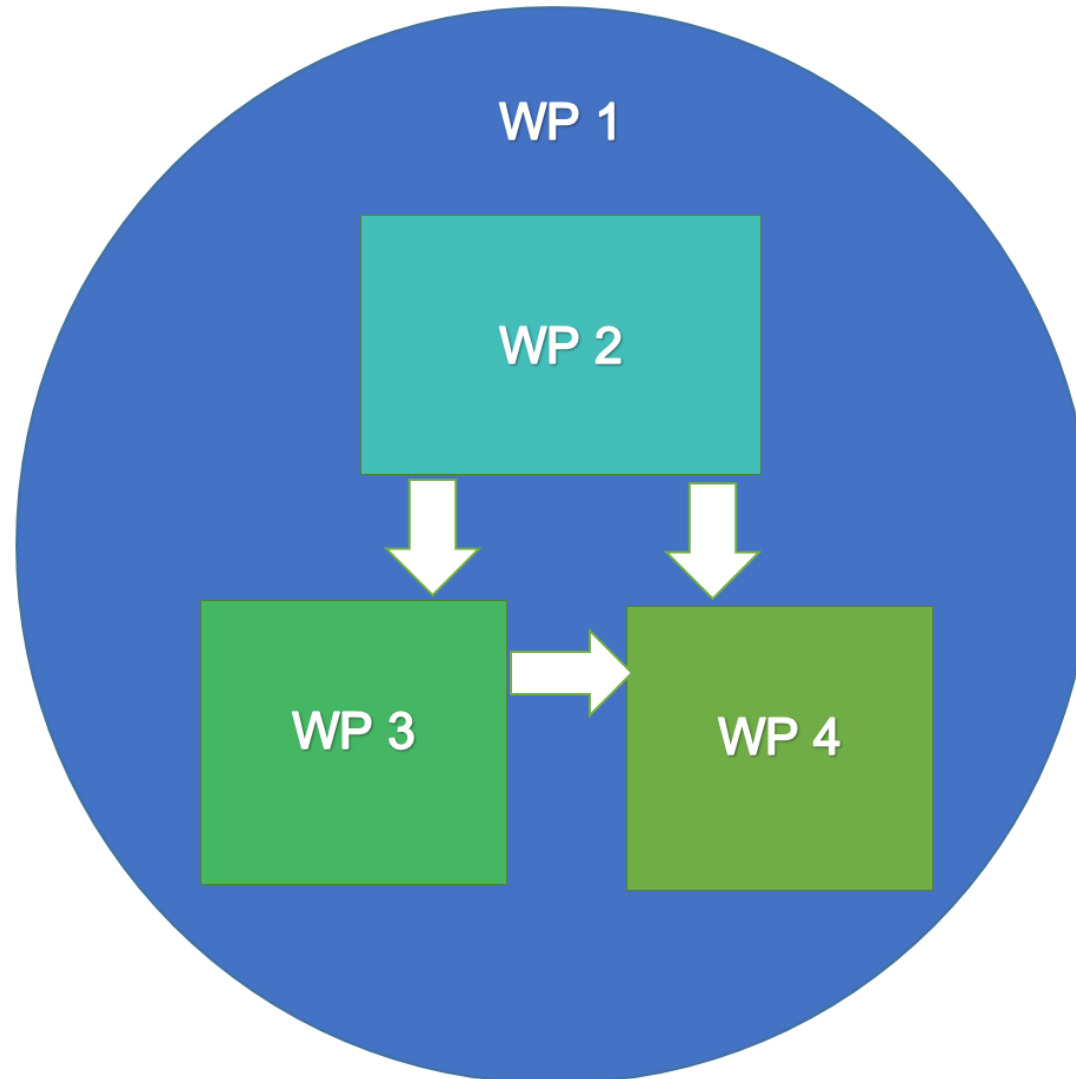
The objective of WP 4 is to be able to give recommendations regarding the applicability of different response methods and equipment to the new generation fuel oils.

Description of work:

- Mechanical recovery
- Dispersants
- *In situ* burning
- Shoreline clean-up



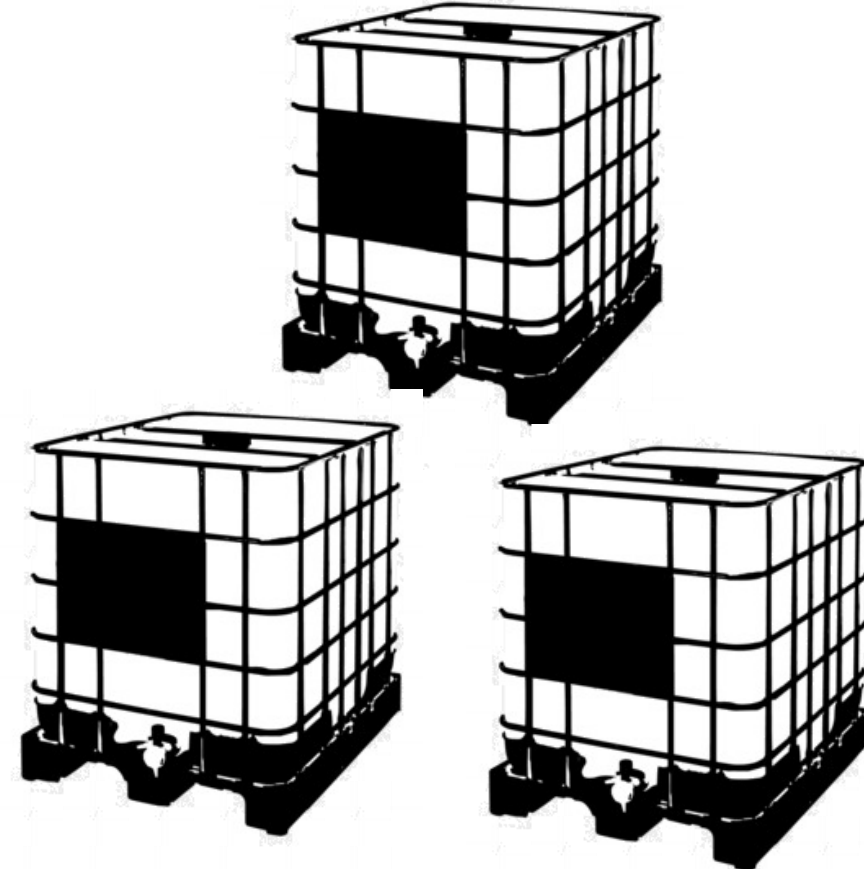
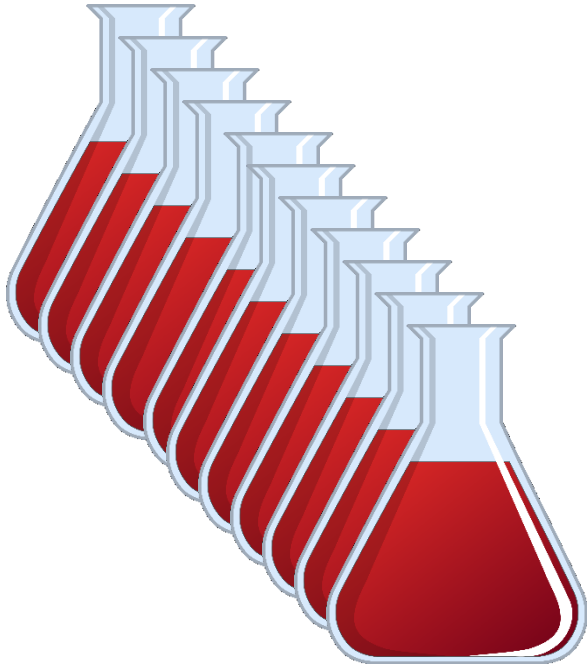
	2020												2021												2022					
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
WP 1	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
WP 2	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
WP 3										█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	
WP 4					█												█	█	█	█	█	█	█	█	█	█	█	█	█	



2020

2021

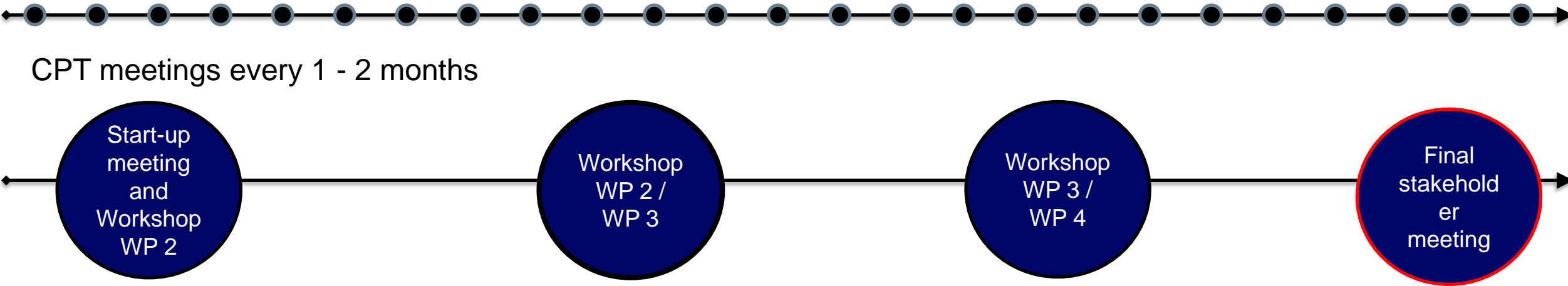
2022



2020

2021

2022



- Workshop WP 2: Copenhagen, Denmark, 4.-6. February 2020
- Workshop WP 3: Virtual (Brest, France), 1.- 4. March 2021
- Workshop WP 4: Horten, Norway, 6. - 9. September 2021
- Final Stakeholder Meeting: St. Julian's, Malta, 31. May - 1. June 2022