


“EMSA’s operational pollution response assistance: oil recovery vessels & marine pollution response experts ”

28.02.2007

**Pollution Response Workshop for
Bulgaria & Romania**

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A large, dark blue ocean wave with white foam is breaking, set against a clear blue sky. This image serves as the background for the bottom half of the slide.

Lech Auriga - Unit F - Pollution Response

EMSA's operational pollution response assistance: oil recovery vessels & marine pollution response experts

Background:

- The European Maritime Safety Agency (EMSA) was tasked in April 2004 to *“support on request with additional means, in a cost efficient way, the pollution response mechanisms of Member States”* (Art. 2 c) (iii) of Regulation (EC) 1406/2002 as amended.

EMSA to:

- Provide **‘technical and scientific assistance** in the field of ship-sourced pollution’ and
- **‘support, on request, with additional means in a cost efficient way** the pollution response mechanisms of Member States’

EMSA's operational pollution response assistance:

The Agency fulfils this operational role in the field of pollution response by:

- Making available at-sea oil recovery vessels for pollution response operations.
- Providing a satellite imagery service for monitoring spills to complement activities currently undertaken by aircraft (to be operational in 2007).
- Making available pollution response experts to assist national authorities operations. They can provide operational and technical support.

Operational Support: Network of stand-by Recovery Vessels

- “Top-up” MS’s pollution response capabilities
- Mechanical recovery of oil most appropriate at EU level
- Assistance provided at request of MS via MIC
- Under “command & control” of affected Member State
- Public/Private Partnership with industry
- Vessels: short notice transformation into oil recovery vessels
- Equipment: “State of the art” sweeping arms, booms and skimmers, slick detection systems, etc.

Vessels/Equipment stockpiles location

- Baltic Sea:

1 arrangement

- Atlantic Coast:

2 arrangements

- Mediterranean Sea:

2 arrangements

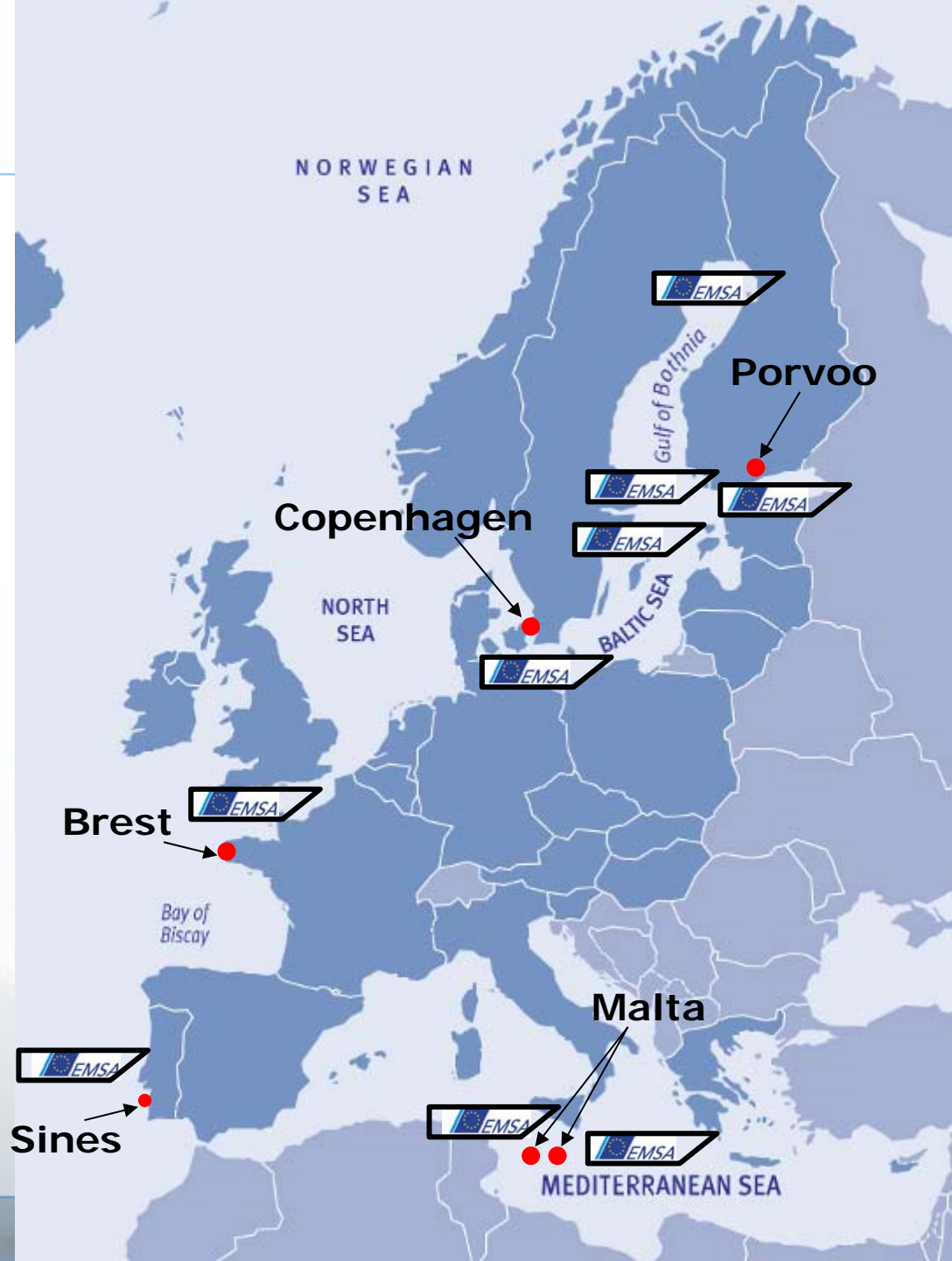
2007: 3rd round of Contracts:



- OSR Vessels



- Equipment stockpiles



Baltic Sea vessels



M/T Tinka

Call sign: LAUF5
IMO Number: 7126152
Storage capacity 1800m³
Length 84.05m
Breadth 13.72m
Depth 6.00m
Draught 5.3m
Speed 13 knots
Heating 3096kW
Pumping rate 1225m³/h
Bow thruster 150kW



M/T Breeze

Call sign: LASV5
IMO Number: 7427659
Storage capacity 2005m³
Length 74.9m
Breadth 14.0m
Depth 6.85m
Draught 5.7m
Speed 13.5 knots
Heating 4648Kw
Pumping rate 1450m³/h
Bow thruster: 270Kw



M/T Otilia

Call sign: OVIP2
Imo Number: 8813697
Storage capacity 9889m³
Length 105.0m
Breadth 18.0m
Draught 7.925m
Speed 13.5 knots
Heating 6823kW
Pumping Rate 3150m³/h
Bow thruster 442kW

Baltic Sea vessels



M/T Kasla

Call sign: LAQQ5
IMO Number: 7347500
Storage capacity 8639m³
Length 124.39m
Breadth 17.60m
Depth 8.00m
Draught 6.28m
Speed 14.5 knots
Heating 5270kW
Pumping rate 2550m³/h
Bow thruster 650kW



M/T Ophelia

Call sign: LATF5
IMO Number: 8010427
Storage capacity 6936m³
Length 106.2m
Breadth 15.99m
Draught 7.17m
Speed 14.5 knots
Heating 5202kW
Pumping Rate 2330m³/h
Bow thruster 257kW

Western approaches to the Channel and Atlantic Coast vessels



Ile de Brehat

Call sign: FOUC

IMO Number: 9247053

Storage Capacity: 4000m³

Length: 123.9m, Breadth: 23.40m

Depth(1st Deck) : 12.00m, Draught : 8.02m

Speed (max.): 15.4 knots

Heating: 1000kW

Pumping Rate: 1125m³/h

Dynamic Position DP2 BV

Electrical Propulsion

Main Power: 17280kW

Bow thrusters: 2x1500kW

Aft thrusters: 2x1500kW

Retractable thruster: 1500kW

Bollard Pull: 130 tons



M/T Galp Marine

Call sign: CSAG

IMO Number: 9334222

Storage Capacity: 3023m³

Flashpoint < 60°C

Double Hull

Built: 2005 (China)

Speed (max.): 13.25 kn

Bow thruster

Heating: 3200kW

Pumping: 1470m³/h

Mediterranean Sea vessels



M/T Mistra Bay

Call sign: 9HQ07
IMO Number: 8009430
Storage Capacity: 1805m³
Length: 86.03m
Breadth: 13.40m
Depth: 6.29m
Draught : 5.19m
Speed (max.): 12 knots
Heating: 2326kW
Pumping Rate: 1200m³/h
Bow thruster: 185kW



M/T Santa Maria

Call sign: 9HLQ8
IMO Number: 7423732
Storage Capacity: 2421m³
Speed (max.): 14 knots
CPP and Bow thruster
Lloyds Register
Heating: 3630kW
Unrestricted Navigation
Pumping: 1430m³/h

Baltic Sea equipment



Norlense Rough Weather Boom

Quantity: 400m

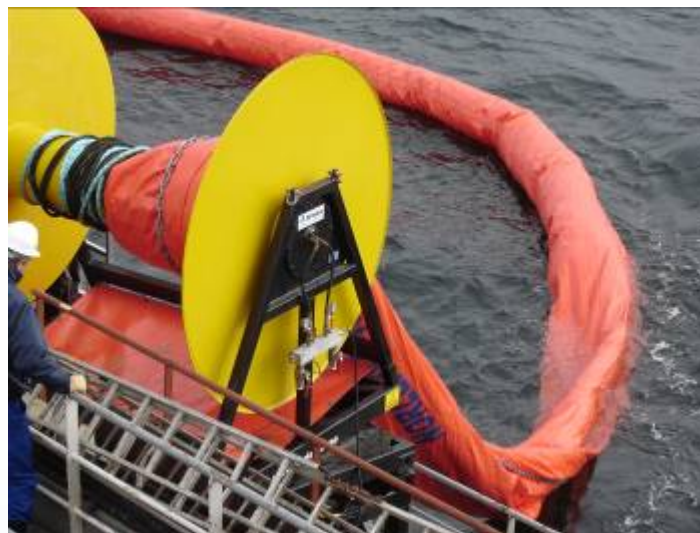
Type: Norlense NO-450S

Max. wave height: 1m

Freeboard: 450mm

Self-inflatable

Excellent performance in bad weather conditions



Norlense Rough Weather Boom

Quantity: 2 x 250m

Type: Norlense NO-800R

Max. wave height: 3m

Freeboard: 800mm

Self-inflatable

Excellent performance in bad weather conditions

Baltic Sea equipment



Arctic Skimmer

Quantity: 2
Type: Ice deflection
pipes/brush wheels
Skimmer flow: 115m³ /h
Max. pump flow: 115m³ /h
Max. pump pressure: 12bar
Free floating



Brush Skimmer

Quantity: 2
Type: Brush Wheels
Pump Type: PDAS with pre-
installed hot water current
radial system
Skimmer Flow: 150m³/h
Max. Pump Flow: 140m³/h
Max. Pump Pressure: 12bar
Remotely operated
Dedicated power-pack
with integrated crane

Baltic Sea equipment

Lamor Flexible Sweeping Arm Oil Recovery System (LSC-4 C/3500)

Quantity: 1 set Porvoo, 1
Copenhagen (both Port &
Starboard)

Type: inflatable with
integrated brush conveyor
belt skimmer

Pump Type: PDAS with pre-
installed hot water current
radial system

Skimmer Flow: 164m³/h

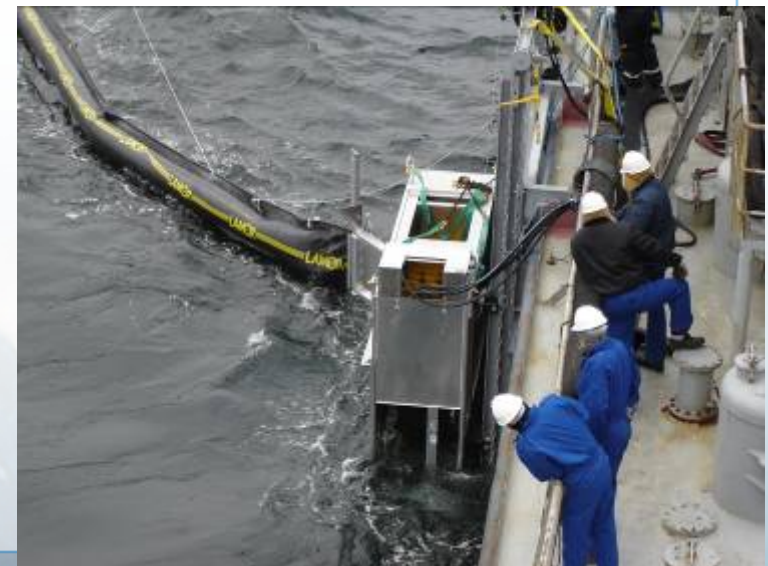
Max. Pump Flow: 140m³/h

Max. Pump Pressure: 12bar

Length 15.6m each

Semi-Automatic sweep boom
with out-rigging arm

Containerised



Baltic Sea equipment



SeaDarq Oil Slick Detection System

- Mobile system
- No necessity to stop operations during the night or in foggy conditions
- Prediction of Spill Motion
- Vessel Movement Compensation
- Estimation of Spill size

Western approaches to the Channel and Atlantic Coast equipment



Sweeping Arms

Quantity: 2

Type: Ice deflection pipes/brush wheels

Type: Rigid with adjustable weir skimmer

Length: 15m

Pump Type: PDAS with pre-installed hot water current radial system

Pump Cap.: 125m³/h@10bar

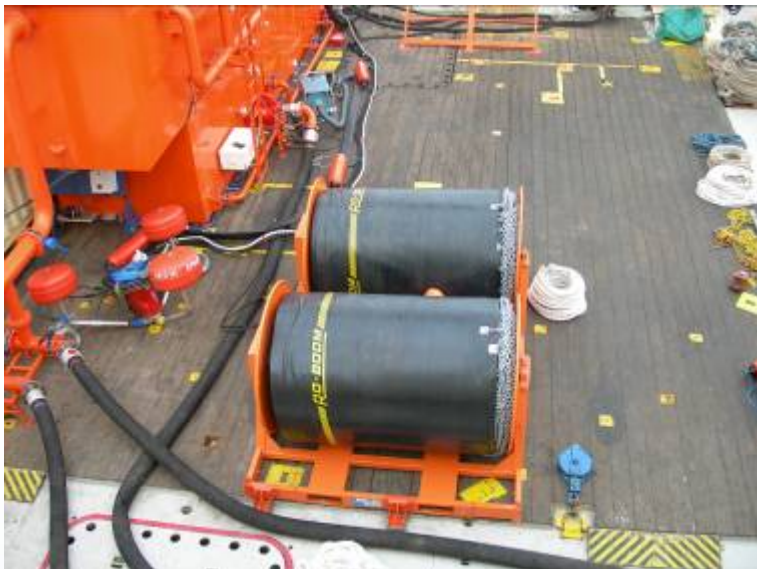
Remotely controlled

Not sensitive to Debris

Davits integrated



Western approaches to the Channel and Atlantic Coast equipment



Heavy duty boom

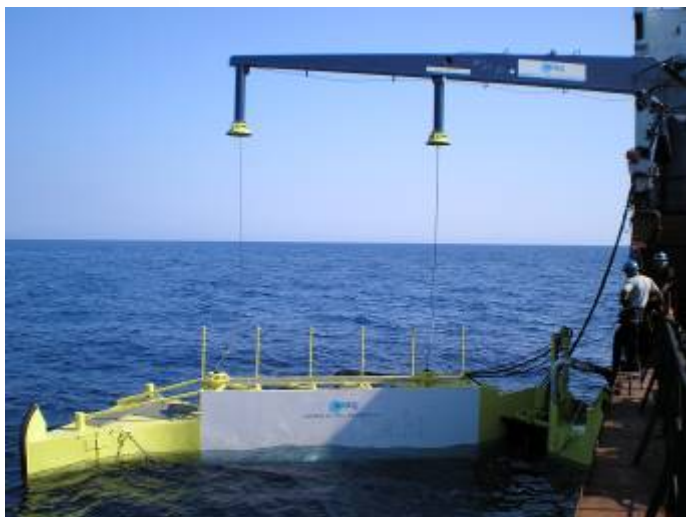
Type: Curtain
Height: 2000mm
Length: 2x250m
Material: vulcanised neoprene rubber
Standard ASTM Connector
Containerised



Ro-Clean Desmi Terminator Weir Skimmer

Quantity: 2 x 125m
Type: advancing weir skimmer
Pump type: PDAS with pre-installed hot water current radial system
Pump capacity: 125m³/h @ 10 bar
Self-Adjusting weir
Not sensitive to debris
Deployed with vessel A-frame
Remotely operated
Containerised

Mediterranean Sea equipment



Koseq Sweeping Arms

Type: Rigid with adjustable weir skimmer

Length: 12m

Pump Type: PDAS with pre-installed hot water current radial system

Pump Cap.: 125m³/h@10bar

Remotely controlled

Not sensitive to Debris

Cranes integrated



Ro-Clean Desmi Tarantula Offshore Weir Skimmer

Type: Advancing weir skimmer

Pump type: 2xPDAS

Pump Cap.: 250m³/h @ 10 bar

Self-adjusting weir

Not sensitive to Debris

Deployed with dedicated crane integrated with power-pack

Remotely operated

Containerised

Mediterranean Sea equipment



Heavy duty boom

Type: Curtain

Height: 2000mm

Length: 2x250m

Material: vulcanised
neoprene rubber

Standard ASTM Connector

Containerised

EMSA Experts

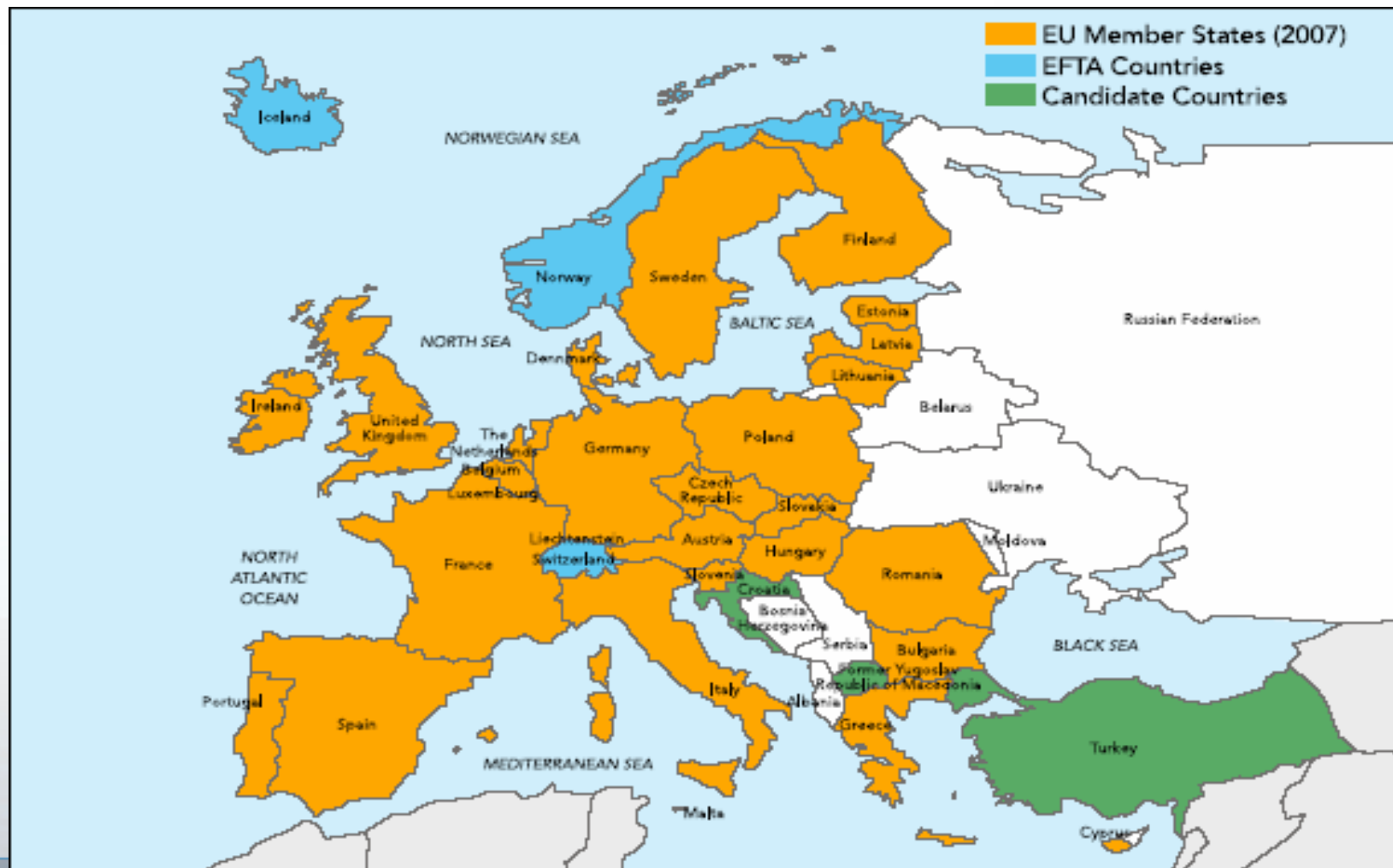
Selected fields of expertise

- **Planning, organisation & co-ordination of the pollution response action at sea and on shore;**
- **Oil spill assessment, behaviour & fate of spilled oil, environmental impacts of oil pollution;**
- **Pollution response strategies & techniques;**
- **Pollution Response Equipment;**
- **Oil spill response management;**
- **Liaison between parties involved in pollution response at all levels;**
- **Aerial Surveillance with Remote Sensing Equipment;**
- **Satellite monitoring and data analyses.**

PARTIES ENTITLED TO REQUEST POLLUTION RESPONSE ASSISTANCE FROM EMSA

- European Union (EU) Member States
- European Free Trade Agreement (EFTA) Contracting Parties
- European Union Candidate Countries
- European Commission

PARTIES ENTITLED TO REQUEST POLLUTION RESPONSE ASSISTANCE FROM EMSA

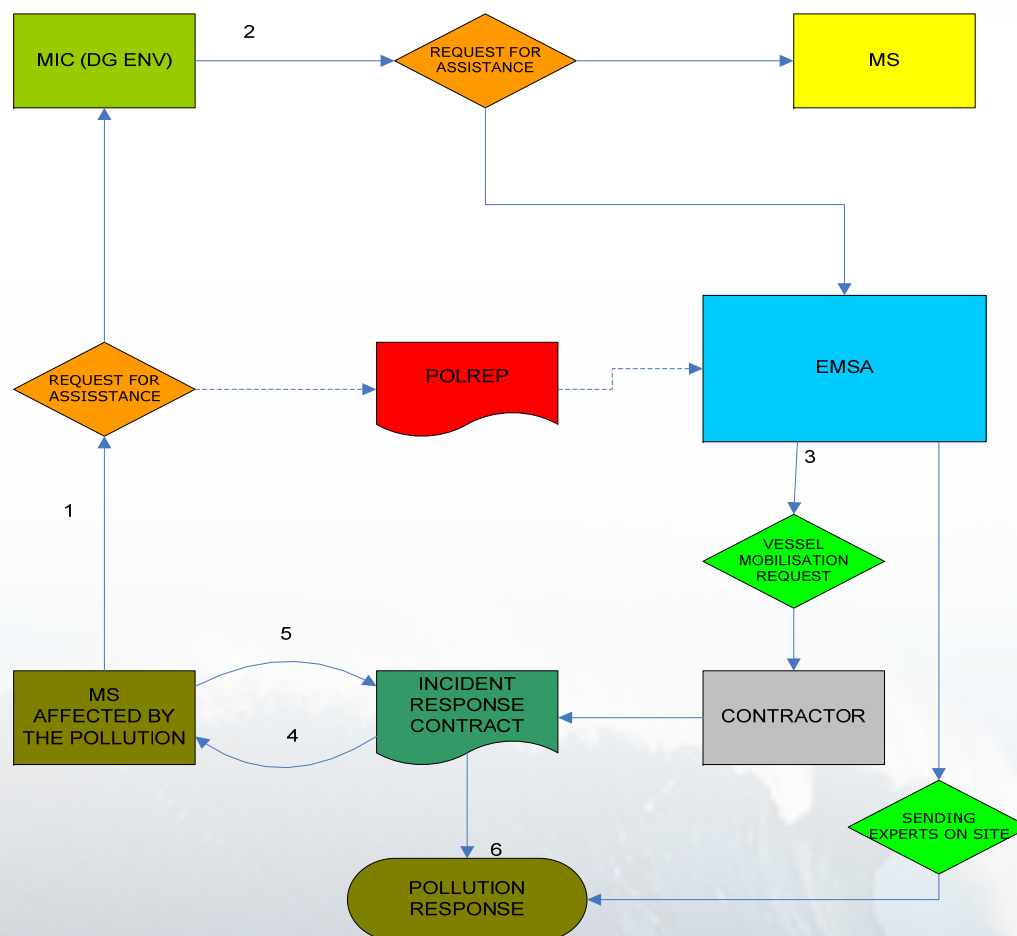


CHANNEL AND PROCESS TO REQUEST EMSA POLLUTION RESPONSE ASSISTANCE

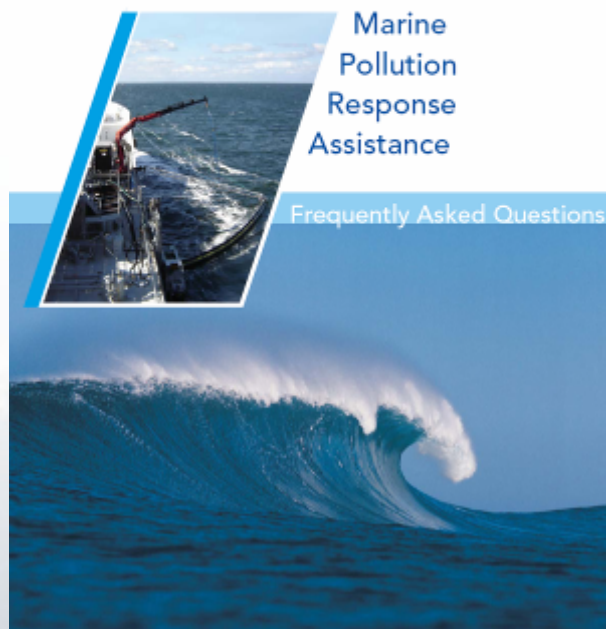
- Council Decision 2001/792/EC, Euratom of 23 October 2001 establishing a Community mechanism to facilitate reinforced cooperation in civil protection assistance interventions
- Community Monitoring and Information Centre (MIC).

The MIC is accessible 24 hours a day and managed by the Directorate General for Environment of the European Commission in Brussels, Belgium

CHANNEL AND PROCESS TO REQUEST EMSA POLLUTION RESPONSE ASSISTANCE



Information: Website - **www.emsa.eu.int**



Thank You

