

European Maritime Safety Agency

# Update on EMSA's activities 2019 - 2020


16<sup>th</sup> Inter-Secretariat meeting

Brussels / 5 February 2020













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## Main updates



✓ **5-year Strategy (2020-2024) / New Agency Structure**



 Sustainability	as	 Service provider
 Safety		 Reliable partner
 Security		 International reference
 Simplification		 Knowledge-hub
 Surveillance		

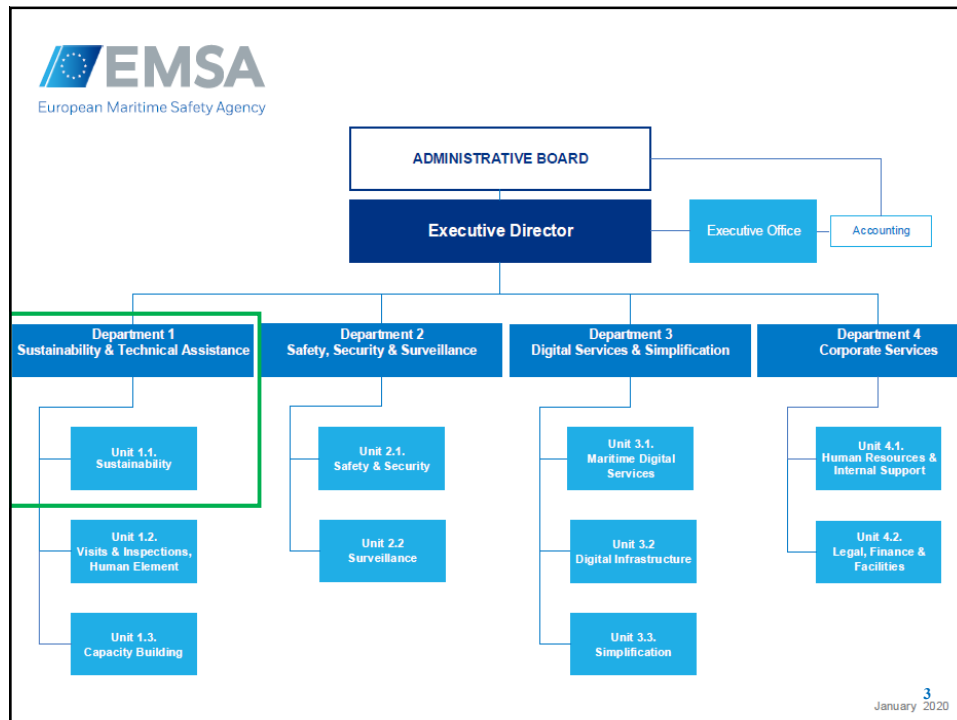
✓ **Sustainability: Prevention & Response (Environmental & PRS)**

✓ **March Admin Board – Session on sustainability (APM & ML)**

✓ **Adjust scope of information exchange under this forum?**

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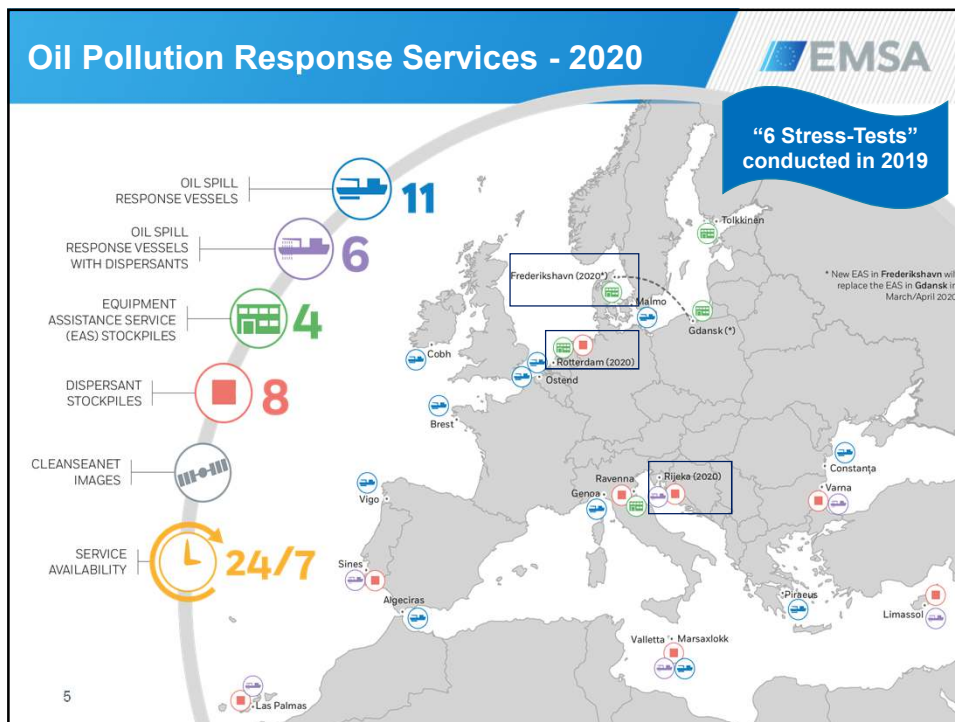
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### Regional "Stress tests" - EMSA's oil pollution response services (1)

**EMSA**


#### Scope and objectives

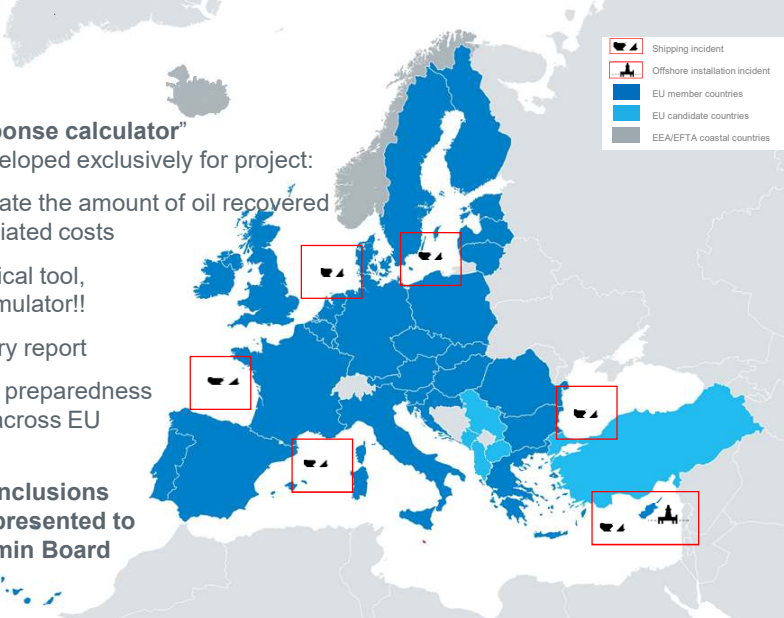
- Admin Board Recommendation to further analyse the efficiency of EMSA's oil pollution response services
- Review the various response options used during a major pollution incident; same "incident" all around.
- Review how the various resources available from neighbouring countries and EMSA could be pooled together in order to optimize the efficiency of the response;
- Highlight the bottlenecks that could be encountered (e.g. waste management from floating storage capacity to shore waste facilities...)
- Identify areas where EMSA's services could be adapted to **better** assist MSs at regional level.






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## Regional “Stress tests” (2)






-  Shipping incident
-  Offshore installation incident
-  EU member countries
-  EU candidate countries
-  EEA/EFTA coastal countries

- A “**Response calculator**” tool developed exclusively for project:
- to estimate the amount of oil recovered & associated costs
- Theoretical tool, not a simulator!!
- Summary report
- Level of preparedness **varies** across EU

**Key conclusions will be presented to the Admin Board**

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## Vessel Network: Main developments




### Main improvements 2019


- Setting-up dispersant application capability on Galaxy Eco, Varna (Bulgaria)
- Overhauling: HCS vessel *Norden* (2019)
- Continued participation in **Exercises**: *strengthen integration*
- 5 OPR vessels equipped **with RPAS, progressively**:
  - Ria de Vigo (Spain)
  - Partisan (France)
  - Aktea (Greece)
  - Norden (Sweden)
  - Alexandria (Cyprus)

### 2020 plans

- + 2/3 OPR vessels with RPAS: Black Sea, Atlantic.
- Replacement with HCS in 1/2 vessel arrangements



VN Partisan



Ria de Vigo

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## EAS: Main developments



### Main improvements 2019

- Portable floating storage tanks (100 m3) for all EAS stockpiles
- Portable spraying nozzels / equipment for 2 EAS with associated 200t dispersant stock (Ravenna & Rotterdam)



### Ongoing enhancement EAS arrangements

- Delivery of 2 Arctic skimmers for EAS Northern Baltic
- Declassification of old/obsolete equipment
- Procurement for medium-sized equipment to pair with medium sized VOOs
- 2 hands-on trainings planned (S. Europe & S. Baltic)



- As of mid-2020: 4 EAS arrangements

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## Operational Cooperation



### Operational Arrangement EMSA-Croatia

Temporary transfer of 2 EAS systems for use on board vessel *Faust Vrančić*  
Croatian Coast Guard



### Cooperation on Coastguard functions: EFCA-EMSA SLA

EFCA vessel *Lundy Sentinel* equipped for Pollution Response



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## Supporting Grande America incident



### Mobilisation of EMSA vessels and RPAS contractor

- General cargo **Grande America** caught fire / sunk, 12 March, Biscay Bay.
- Following FR Authorities request → EMSA provided emergency assistance:
  - Earth observation services - CleanSeaNet images
  - Two EMSA OPR vessels including lightweight RPAS on board (RPAS Pilots) were mobilised 13 March, in operations until 2 April 2019

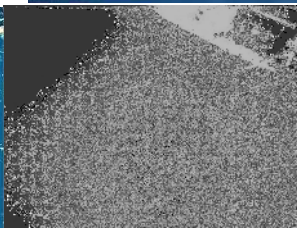


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## Remotely Piloted Aircrafts for marine pollution monitoring



### Oil spill detection and support for recovery



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## Remotely Piloted Aircrafts for surveillance of air emissions by ships

**EMSA**

**SOx emission monitoring**

**Integration in Thetis-EU**









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## Operational RPAS portfolio

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**Emission monitoring**




230kg, >4h, EO/IR, sniffer




230kg, >4h, EO/IR, sniffer


**Multipurpose Maritime surveillance**



1150kg, >12h, EO/IR, Mar./SAR radar, SATCOM, anti-icing




150kg, >8h, EO/IR, Mar. radar, SATCOM




230kg, >4h, EO/IR, opt. scanner

**Pollution response**



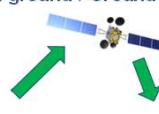
<5kg, >35min, EO/IR

**Payload and SATCOM**




**SAT-COM**

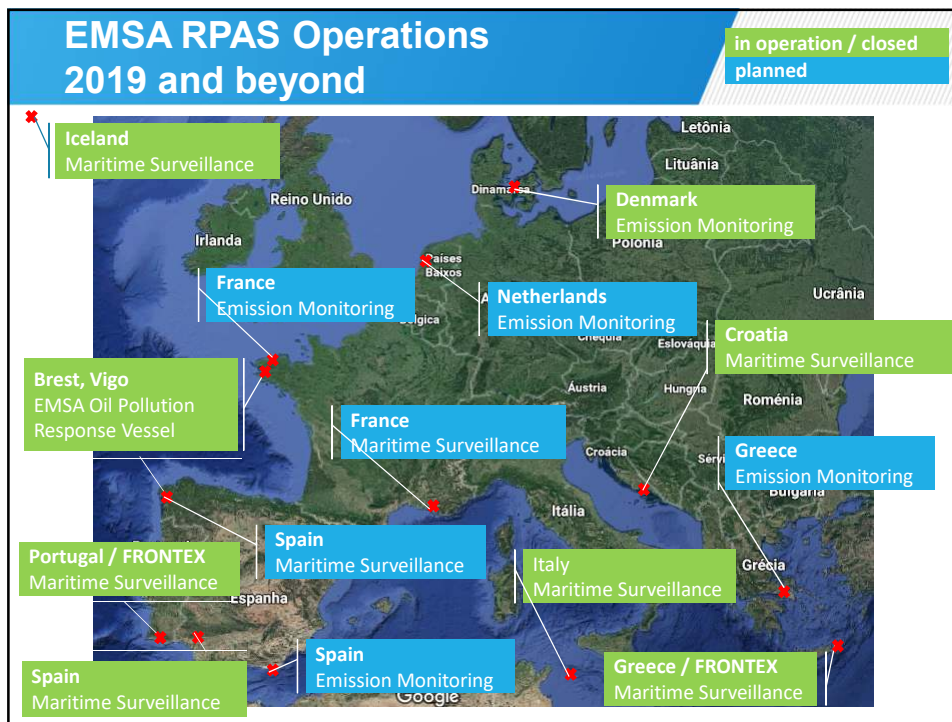
RPAS-ground / Ground to ground



**Data Centre**



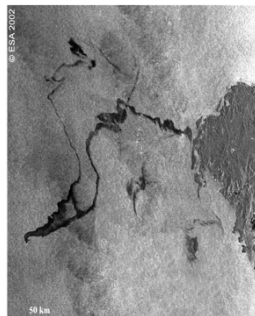

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### CleanSeaNet

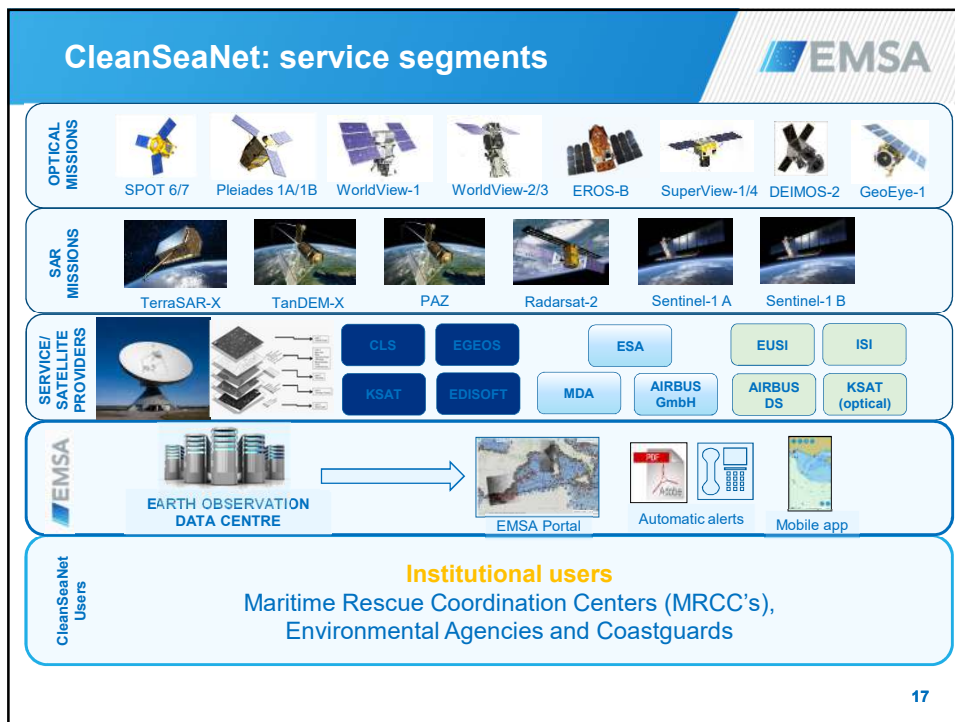
- European **satellite-based** oil spill detection & monitoring service operated by EMSA
- **Available to** EU Member States, candidate countries and EFTA: MRCC's, Environmental Agencies and Coastguards
- **Identification of polluters** by combining satellite information and vessel traffic data
- Analysed information is delivered to users in **quasi real time** (20 min. after satellite overpass)
- **Regular monitoring** of European waters
- **24/7/365 support** in case of emergencies

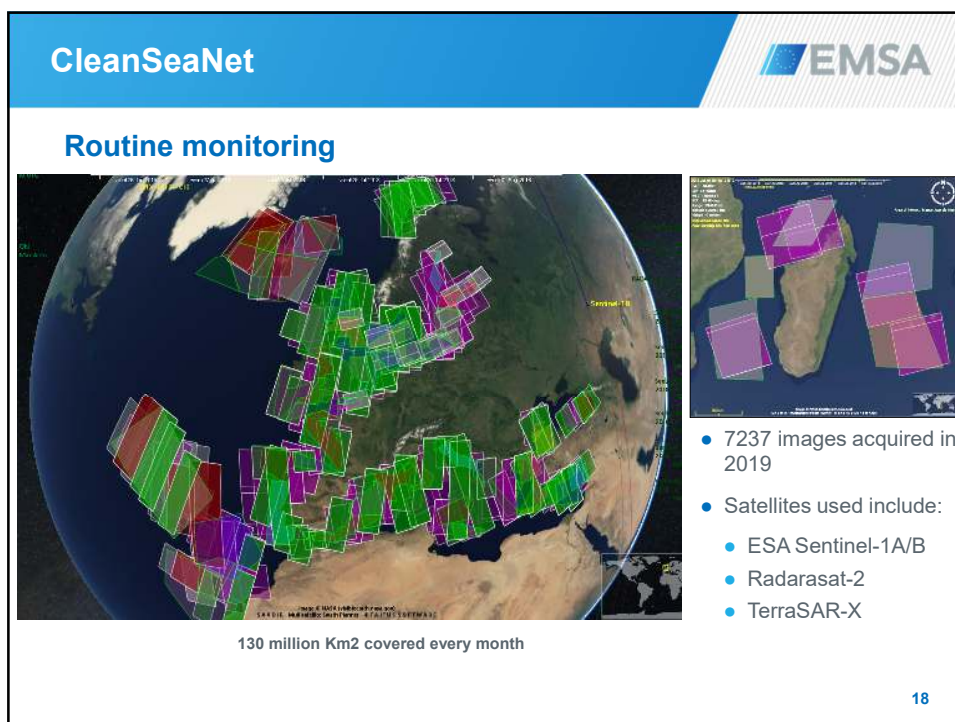
**EMSA**

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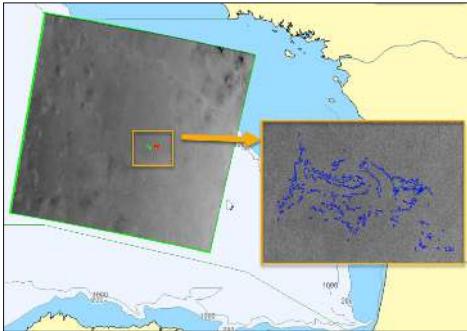

## Service Results: supporting Grande America incident





### CleanSeaNet support to Emergencies

#### ‘Grande America’ sinking 2019

- Oil spill detection, containers detection
- RPAS to support pollution response on site

Grande America on fire (11 March 2019)





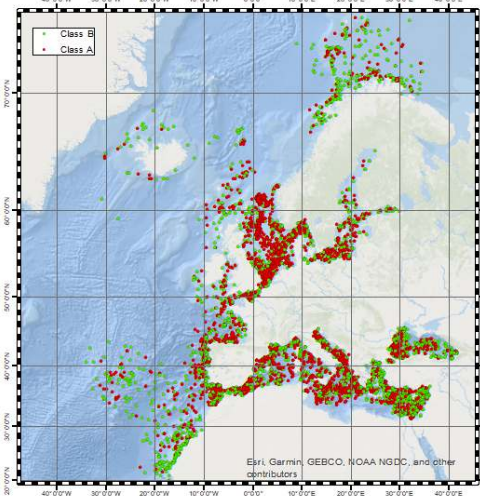
© EMSA RPAS take off and support to on site operations, 18-Mar-2019

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## CleanSeaNet Service Results 2019






- **Class A** – (2019 results: 4668) – the detected spill has a **higher** detection confidence level (2018 results: 3104)
- **Class B** – (2019 results: 3087) – the detected spill has a **lower** detection confidence level (2018 results: 3023)

Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

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## Key messages

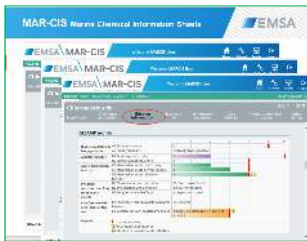



### 1) MAR-CIS Information:

- Static information focused on maritime incidents
- Initial stages of response

### 2) MAR-ICE Service:

- 24/7 expert available to talk to
- “Open door” to the industry
- Interpretation of information

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## Main developments






### MAR-ICE service: Single entry / rapid access to

- Remote **expert** product specific information, documents & advice
- Input from chemical industry (via ICE Network)
- **Also provide chemical experts on-site**  
(@ command centre) / “Level – 2 support”



1h

### MAR-CIS information:

Improve and update the MAR-CIS information for emergency responders  
(48 datasheets were reviewed in 2019)


### HNS multi-stakeholder workshop (Sept’20)



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CTG MPPR / PRS UG work



## 2019 / 2020

- **7<sup>th</sup> Surveillance Training**  
(November 2019, NL)
- **8<sup>th</sup> surveillance training....combine with a regional coordinated operation?**
- **TCG-HNS:** 'Training' curriculum on chemical spill response
- **WG HSE:** Health and Safety Guidelines for oil spill responders
- **Oil spill sampling WG:** Guidelines on Oil Spill Sampling
- Work on a **common glossary** for international ops





EMSA 7TH AERIAL SURVEILLANCE TRAINING

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Re-cap





Sustainability

Safety

Security

Simplification

Surveillance

as

Service provider

Reliable partner

International reference

Knowledge-hub

- ✓ **Sustainability:** Prevention & Response (Environmental & PRS)
- ✓ **Cooperation with RAs:** Marine Litter; Exercises; surveillance workshop / operation; other environmental topics?
- ✓ **Explore adjusting scope of information exchange under this forum?**

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**Any questions?**

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