



One of the main achievement

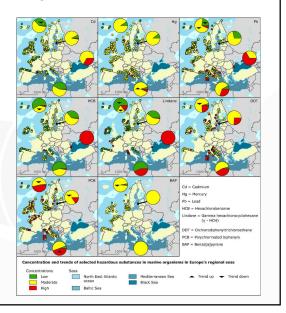
- Interaction with TG DATA, developing recommendations for MS for Accessing data and information according to MSFD Art. 19(3) ...
- EMODnet Chemistry use case mapping INSPIRE data models for D5C1 "Nutrients concentrations in water"
- Both EMODnet and SeaDataNet standards feature heavily in the 'art 19.3 recommendations on publication of datasets'

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Interaction with EEA

The beginning of the end? of the EIONET dataflow and shift to EMODnet/ICES dataflow for EEA indicators



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Interaction with EEA - II

Proof of concept:

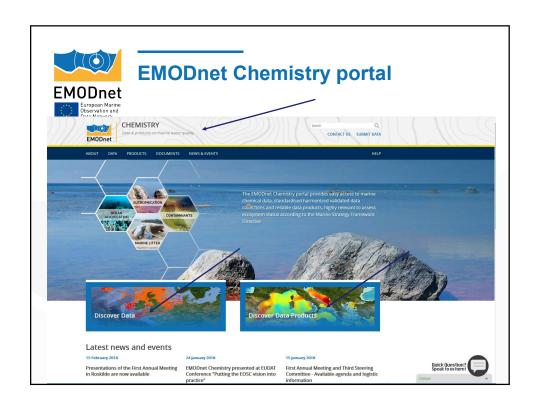
- End April 2018 deadline to release eutrophication dataset to EEA
- Followed by contaminants dataset
- Task 1 (access data) + Task 2 (products): dialogue with EEA for tuning access methods
- Task 3 (machine-to-machine): APIs tuned for querying regional aggregated and validated datasets are under development

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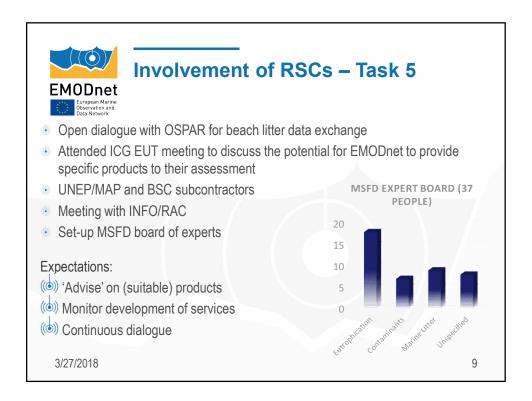


New portal launched - Task 4

- EMODnet Chemistry web portal has been completely restyled (launched Nov 2017). New features:
 - Direct link to Data and Products
 - Latest news and events
 - Following pages with side menu on the left and a presentation page to explain the topic











Involvement of RSCs – MSFD Experts

- Contaminants Online Workshop (16th March 2018)
 - Looked for specific feedback on selection of substances and planed dedicated maps
 - Major changes
 - Feedback from RSCs, JRC and Ifremer
 - Recorded
 - New edition when ready

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Interoperability with non-EU - Task 6

- EMODnet Chemistry includes several non-EU members from eastern countries and north Africa
- EMODnet Chemistry is linked to ODIP (Interoperability platform with Australia, Canada, USA)
- EMODnet Chemistry contributes to IODE ODIS
- EMODnet Chemistry potentials for UN SDG 14.3 (Ocean Acidification)... IAEG (Inter-agency Expert Group)
 - Methodology fact sheet to be submitted to the next IAEG-SDG meeting in October 2018



User feedback and help desk – Task 7 and 8

- Dedicated WP coordinated by ICES
- Help desk active (chat, e-mail and phone)
- Focus on MSFD stakeholders
- EMODnet promoted to private sector (in synergy with Data Ingestion)
 Adriatic LNG

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Use cases for EMD Chemistry

A series of MoUs are discussed **to formalise data exchange mechanisms** and cooperation:

- With BSCS and UNEP/MAP (involved as subcontractors)
- With EEA for Data supply to Eutrophication and Contaminants thematic assessments (2017)
- With INFO-RAC for synergy between information systems
- With OSPAR/MCS and ICES for marine litter data exchange
- With the Copernicus Marine Environment Monitoring Service IN Situ Thematic Assembling Centre



Cooperation with Copernicus

- CMEMS INSTAC started preparing global biochemical data collections (oxygen, chlorophyll and nutrients) as input for the CMEMS modelers and to be published for downloading at the CMEMS user portal.
- EMODnet Chemistry has already been working since 2009 on gathering biochemical data and metadata, and generating aggregated, validated and harmonised data collections for e.g. eutrophication.
- At present EMODnet Chemistry has brought together more than > 0.5 million eutrophication data sets over a large time period from > 50 data providers.

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Data exchange from EMODnet Chemistry to CMEMS

- CMEMS, SeaDataNet and EMODnet Chemistry are infrastructures aiming to become sustainable.
- Cooperation and exchange between the infrastructures must be 2-way oriented, well balanced, providing a win-win situation, providing complementarity, and preventing mutual competition.

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Marine Litter

- Currently gathering data for generating data products on a European scale on:
 - Beach litter (modelled after the OSPAR-MCS, TG ML and UNEP/MAP approach)
 - Seafloor litter (modelled after the ICES-DATRAS, TG ML and MEDITS approach)
 - Micro litter (SeaDataNet infrastructure with CDI metadata and ODV data standards proposed approach)

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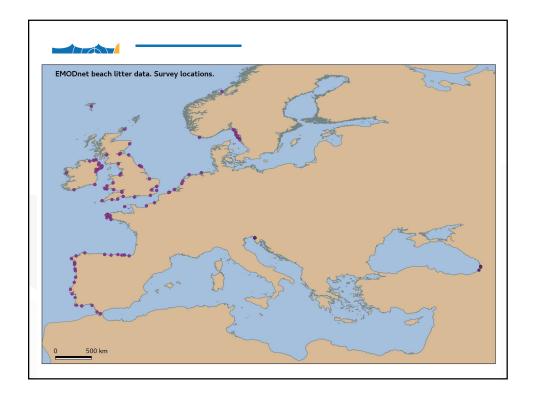
Marine Litter - II

- Central submission facilities for relevant regional systems + organizations outside existing systems
- Digital layers maps of beach and seafloor litter are made available
- Approach discussed at TG ML
- Cooperation with JRC for ML Baselines (beach, macro items, regional, sub-regional, national, 2012-2016)
 - 19 different formats
 - large heterogeneity in sampling method (50m 3km)
 - high spatial-temporal heterogeneity



Present situation – beach litter

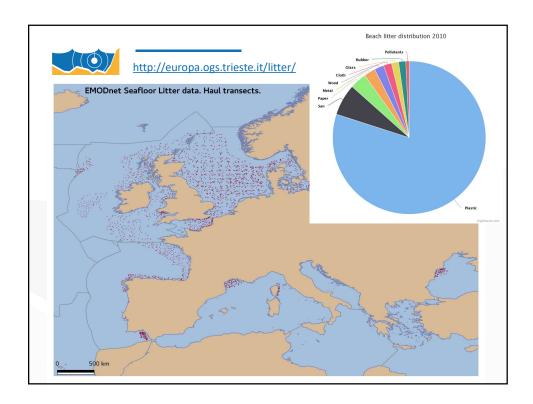
- OSPAR-MCS dataset includes 58 beaches from 2000 to 2010 plus 91 beaches from 2011 to 2015 (survey at 100 m)
- JRC collected data from 23 Member States
 - Permission to provide all available data for future accessibility through EMODnet by 31-03-2018
- EMODnet data received from TSU (Georgia)
- Dialogue open with EEA (Marine Litter Watch)
- Next steps: DeFishGear (Adriatic-Ionian region)





Present situation - seafloor litter

- ICES-DATRAS dataset includes 5,415 hauls
- EMODnet will be presented to 2018 MEDITS Coordination Meeting, 18-19-04-2018
- EMODnet data received from Ifremer, NIMRD
- Next steps: **DeFishGear** (Adriatic-Ionian region)





Present situation - micro litter

- The approach for marine micro litter data gathering, including metadata/data formats is under endorsement by TG ML
- **EMODnet** data received from Ifremer, METU (Turkey), TU (Estonia)

