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# Data management and infrastructure

ENI SEIS II South Regional Workshop on H2020 Water cluster

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# Data flow Horizon 2020

- Implementation of SEIS principles in the Mediterranean region use of data for several reporting obligations (Barcelona Convention, SDGs, etc.)
- Data collection for the 2<sup>nd</sup> assessment report [Horizon 2020 Mediterranean report Toward shared environmental information systems EEA-UNEP/MAP joint report EEA Technical report](#)
- Development of a regional infrastructure for the H2020 indicator reporting regarding 3 thematic: waste, waste water and industrial emissions, including extension (marine litter, bathing water quality)
- Close collaboration with INFO/RAC in charge of the development of the INFO MAP system for the Barcelona Convention.
- Reporting of standardised quantitative data
- Update of spatial datasets
- Continuous update (beyond ENI SEIS II South Project)
- Capacity building in the countries through technical assistance: interoperability of the national information systems, data collection, work on standards, etc.
- Enlargement to the EIONET countries and west Balkans
- Convergence with the EcAP process and the Marine Strategy Framework Directive (MSFD)
- Implementation of a strong network between EIONET (Mediterranean NRC) and InfoRAC National Focal Points



# Data reporters nomination

- Creation of a users list (credentials) and rights for the use of the reporting tools at national level
- Distribution of a guide to define roles and responsibilities
- Distribution of a standardised model for data reporters nomination
- Nomination of ENI SEIS II National Focal Points as data reporter for data validation
- Possible extension of data reporters to the national team



# Data reporting with INFO/RAC Data Centre (IDC)

- As part of the INFO MAP system the IDC represents the technological framework within which the Mediterranean countries can organise their reporting and fulfil their obligation toward the Barcelona Convention
- Demonstration of the tools during the workshop in Rome on data management and infrastructure October 2018
- Creation of envelopes for each countries and each data flow
- Distribution of excel tables « spreadsheets » for the H2020 indicators. Implementation of Quality Checks QC first via code lists to ensure consistency and comparability of data.
- Launch of the data call in December 2018 – 2 following updates (February and July 2019)
- Use of web forms for data reporting as per the Convention de Barcelone (IMAP, BCRS, BBN, MEDPOL)
- Creation of user guidelines with advanced functionalities (in English) “ Spatial Data Infrastructure and Reporting system User guideline”
- Distribution of guidelines (in English) with all data reporting steps “Procedure for Reporter to produce H2020 indicators data flow and spatial data collection under ENI SEIS South II project Guidance document - 12.12.2018”



# Update of spatial data

- Update spatial layers taking into consideration the right labelling, by providing time series, spatial units (following country reforms for instance)
- Providing a tool « GeoNodeSDI » free and open sources softwares (Geonode, geonetwork, etc.) and international standards (normes ISO)
- 3 options based on countries needs to put in place a spatial data infrastructure (model a,b,c)
- Collecting all spatial layers to compute H2020 indicators
- Build a geospatial reference for different reporting
- Creation of a user guideline with advanced functionalities “ Spatial Data Infrastructure and Reporting system User guideline”



# Mediterranean catalogue of metadata

- A metadata catalogue to represent the sources of information
- Ensuring links with partners countries' catalogues
- Adoption of European standards (INSPIRE) and adoption of iso norms (19115)
- Collect of metadata from the countries concerning: availability, quality, formats, spatial coverage, formats, licence for use, etc.)
- Unique access for indicators environmental based at regional level
- Integration with the European Environment Agency (EEA) catalogue
- Continuous updates country side



# Capacity building in the countries

- Identification of activities to reinforce institutional and expert capacity to collect, share and report data
- Technical assistance (Morocco, Tunisia – Avril 2019, Jordan - September 2019) to ensure interoperability of the systems and detail reporting processes, etc.
- Remote learning – 3 webinars are planned to share difficulties or exchange experiences – 1. Reporting processes; 2. Use of SDI 3. Thematic reporting on waste 3. industrial emissions 4. water
- Implement a spatial data infrastructure by choosing 3 models (a,b,c) – Possibility to federate national SDI
- Helpdesk at your disposal [info@info-rac.org](mailto:info@info-rac.org)



# Data Policy

- Proposal of a data policy in the region to serve SEIS principles (access, share, (re)use, etc.)
- ENI SEIS II South Project driver of the Barcelona Convention data policy taking inspiration from the EEA data policy adopted in March 2013 and updated in February 2018

<https://www.eea.europa.eu/legal/eea-data-policy>

- System of licences (data sets and users) according to the « Creative Commons »
- Data management: describe the full chain from the access to the usability covering also metadata aspects, formats, distribution, etc.
- CC-BY based licence, except for sensitive data that require specific agreements with countries
- Analysis on a case by case following a granularity for dastes and users





# Communication

- ENI SEIS II South Support Mechanism Website

<https://eni-seis.eionet.europa.eu/south>

- Development of country pages with facts and figures

<https://eni-seis.eionet.europa.eu/south/countries/algeria>

- Upload of documentation related to indicators specifications, guidelines, etc.

<https://eni-seis.eionet.europa.eu/south/areas-of-work/data-management-and-infrastructure>

- Online registration to events and upload of materiel (presentations, minutes, etc.)

<https://eni-seis.eionet.europa.eu/south/communication/events/project-related-events/country-visit-to-tunsia-seis-national-workshop>

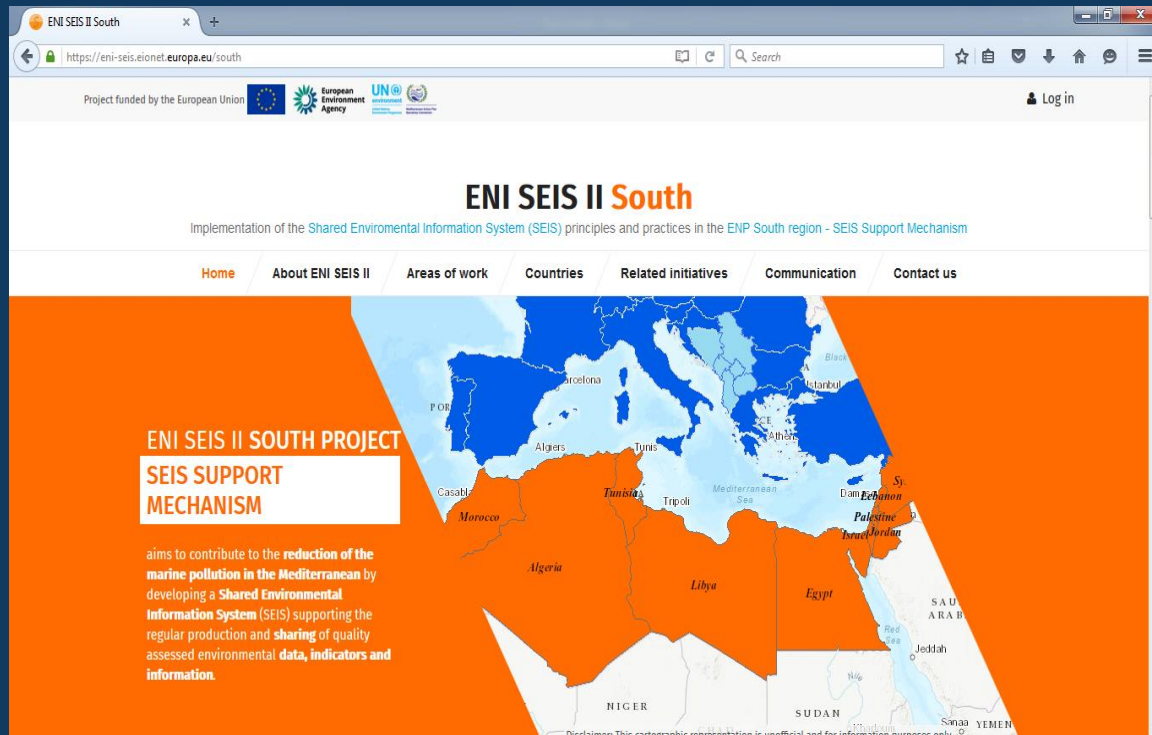
- Newsletter distribution

- 4 newsletter already distributed

<https://eni-seis.eionet.europa.eu/south/communication>



# Thank you for your attention!



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