3rd STEERING COMMITTEE OF THE ENI SEIS II SOUTH SUPPORT MECHANISM PROJECT / 9TH MEETING OF THE H200 REVIEW AND MONITORING (RM) GROUP

Latest developments with respect to the regional infrastructure

6-7 November 2018 – Vienna

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Progress on Activities – WP 4: Infrastructure and Data Management

PROGRESS ACHIEVED:

1. Online survey: analysis of answers and report writing;

2. All Data Dictionaries drafted and shared with the countries;

3. Presentation to the countries of the SDI platform during the 1st Workshop on Infrastructure and Data Management, in particular the 3 different SDI user models to collect and share the data;

4. Elaboration of the spreadsheets (water and Industrial Emissions) based on Data Dictionaries;

Workshop Output

1st ENI SEIS South Supporting Mechanism Regional Workshop on Infrastructure and Data Management was held on 4-5 October 2018 at Rome, Italy, at the hotel H10 Rome.

- **Goals**: to propose to national experts training activities to collect and share data through the SDI as reporting infrastructure developed by UNEP/MAP-INFO/RAC in the framework of ENI SEIS Project;

- **Objectives**: To discuss and agree the data dictionaries developed for H2020 indicators.

Workshop Output

- **Session 1 -** Overview of the Regional Information System (InfoMAP System) and tools of InfoMAP System (Data Center & Spatial Data Infrastructure-SDI**)**

- **Session 2 -** Demo / Training session on the management data flow of NBB/PRTR Information System of MED POL

- **Session 3 -** Introduction to the ENI SEIS indicators: Final review, mapping of databases and Data Dictionaries

- **Session 4 -** Discussion and next steps

Workshop Output

Session 1

- INFO/RAC presented the Regional Information System (InfoMAP System) for the data flow reporting composed mainly by BCRS, MED POL Information System and IMAP Information System, and the relative tools as the Data Centre and the Spatial Data Infrastructure (SDI) platform named too InfoMAPNode.

- The meeting discussed on the accessibility of data, the definition of the different roles and profiles to access and manage the data and the need of a data policy document for the data.

INFO/RAC proposed three different models to the countries

SDI User Models

- **Model A**: A country haven't SDI and do not want to replicate it in the Organization or to require for security reasons to not federate own system with the central INFO/RAC node, can use only the central one developed by INFO/RAC.

- **Model B:** A country has a SDI, but it's not at all developed to be interoperable with central node and it wants also to improve its technological components, or it wants to build a new one. In this case it can replicate one or more software part and after a configuration procedure, it can federate its SDI with the central one.

- **Model C:** A country has a SDI well organized and also interoperable in according with the international standard; it can federate directly with central node of INFO/RAC.

SDI User Models

COUNTRY	USER MODELS		
	A	**B**	**C**
ALGERIA	X	X	
EGYPT	X		
ISRAEL	X		
JORDAN	X	X	
LEBANON			
LIBYA			
MOROCCO		X	
PALESTINE	X	X	
TUNISIA	X		

Support to the Countries

Supporting Countries in SDI implementation: from mid January 2019 to June 2019:

- **SDI Users Model A:** training via Webinar on the use of SDI

- **SDI Users Model B**: Country visits in order to check the compatibility of the SDIs. Proposed date by INFO/RAC
  - Morocco: 28 January 2019
  - Jordan: 11 February 2019
  - Algeria: Beginning of March 2019

Each Country needs to communicate to INFO/RAC their availability for the support, in order to organize better the training and the country visits

Workshop Output

Session 2

INFO/RAC presented the new NBB/PRTR MED POL Info System giving explanations on it and making a demo on the use of it for the data flow implementation, from the acquisition data via the web form for reporting, to the validation data through the quality check and the quality assessment. It was illustrated, in particular, the 4 kind of users levels with relative domain access (Anonymous users or public users; National users; National Focal Point users; MED POL officer).

Workshop Output

Session 3

- INFO/RAC presented a short review of links among ENISEIS indicators, IMAP and MED POL, based on data dictionaries and parameters defined, in order to identify the resources available to create some synergies.

- Each thematic experts presented the Data Dictionaries explaining mainly their definition and the steps of preparation, their development and their relevance to H2020 Indicators. Some gaps related to the Data Dictionaries were discussed, i.e. coastal hydrologic basins; the definition of the coastal areas; and the administrative regions.

Workshop Output

Session 3

- EEA presented the issue related to organization of data managers, explaining the roles of data reporters and data reviewers.

- INFO/RAC informed that a spreadsheet will be distributed on 18th of October, aiming at collecting the data till the end of November 2018.

Data Managers and Spreadsheets

- **Data manager**: each Country needs to identify data managers responsible for collection, sharing and validation of data.

- **SDI Platform credential:** platform accounts will be extrapolated from the data manager list provided by the Countries

Spreadsheets

6.1.1 -Total BOD load discharged from industrial installations to the Mediterranean marine environment

Country code	Regions	Year	BOD	ID_of_Sectors	ID_of_Subsector	Data_Collection_Method	Remarks

Example of a Spreadsheet for Inustrial Emission

Spreadsheets

3.1 - Share of total, urban and rural population with access to an improved (ISS) sanitation system

Country code	Year	Total_Population	Urban_Population	Rural_Population	Total_Population_ISS	Urban_Population_ISS	Rural_Population_ISS	Data_Collection_Method	Remarks

Example of a Spreadsheet for Water

Workshop Output

Session 4

- INFO/RAC illustrated the **data policy assumption** and presented the roadmap relative to the future activities for ENI SEIS II Project regarding data and infrastructure. The Data Policy Document will be prepared pertaining to the project and will be ready for the end of November.

Data Policy

The policy will covers environmental data collected, acquired, processed and disseminated by INFO/RAC System and EEA within the ENI SEIS South II project. The general SEIS (Shared Environmental Information System) principles establish that information should be:

- managed as close as possible to its source;
- collected once and shared with others for many purposes; readily available to easily fulfil;
- reporting obligations;
- readily accessible to end-users at all levels for the design of new policies;
- accessible to enable comparisons of the environment at the appropriate geographic scale;
- fully available to the general public, to enable citizen participation; supported through common, free and open software standards.
- based on an interoperable Infrastructure for Spatial Information in the Mediterranean area.

Data Policy

The document will be based on two axis: one the granularity's security of Authentication and roles defined in the InfoMAP system, the second is the data granularity due to the different data flows.

- **Basic layer**: Administrative units, hydrographic basins; coastal line

- **Water Raw** Data: Indicators of DD

- **IE Raw Data**: Indicators of DD

- **Waste raw** data: Indicators of DD

- **Water aggregate data**: Assessment on water

- **IE aggregate data**: Assessment on data industrial emission

- **Waste aggregate data**: assessment on waste

- **Integrate data layer**: Environmental assessment on Mediterranean area

Data Policy

	BASIC LAYER	WATER RAW DATA	IE RAW DATA	WASTE RAW DATA	WATER AGGREGATE DATA	IE AGGREGATE DATA	WASTE AGGREGATE DATA	INTEGRATE DATA LAYER
INFO/RAC								
UNEP CU								
EEA								
MedPol								
PlanBleu								
MAP FP								
WASTE FP								
IE FP								
WATER FP								
REPORTER WASTE								
REPORTER IE								
REPORTER WATER								
USER								

Granularity concept

ROADMAP

Roadmap for ENI SEIS H2020 Indicator implementation	M1 (oct)	M2 (nov)	M3 (dec)	M4 (jan)	M5 (feb)	M6 (mar)	M7 (apr)	M8 (may)	M9 (jun)
Data policy proposal	▓	▓							
Spreadsheetbased on DD distribution		▓							
Spreadsheet collected			▓	▓					
Data Dictionary xml schema definition	▓	▓							
Spatial Data Infrastructure share system bilateral (maybe country visit)	▓	▓	▓	▓	▓				
Data Dictionary H2020 implementation in Data centre		▓	▓	▓					
Support Countries in SDI implementation			▓	▓	▓	▓	▓	▓	▓
software procedures for indicator calculation			▓	▓	▓	▓	▓		

UN environment
United Nations Environment Programme

Mediterranean Action Plan
Barcelona Convention

info RAC

European Environment Agency

THANK YOU FOR YOUR ATTENTION!

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