



UNITED
NATIONS

EP

UNEP/MED WG.623/Inf. 6



UNITED NATIONS
ENVIRONMENT PROGRAMME
MEDITERRANEAN ACTION PLAN

20 April 2025
Original: English

INFO/RAC National Focal Points

Palermo, 20-21 May 2025

Agenda item 4. Data management and data flows implemented for UNEP/MAP reporting towards an integration into the Knowledge Management Platform.

Barcelona Convention Reporting System (BCRS): reporting implementation status and next steps

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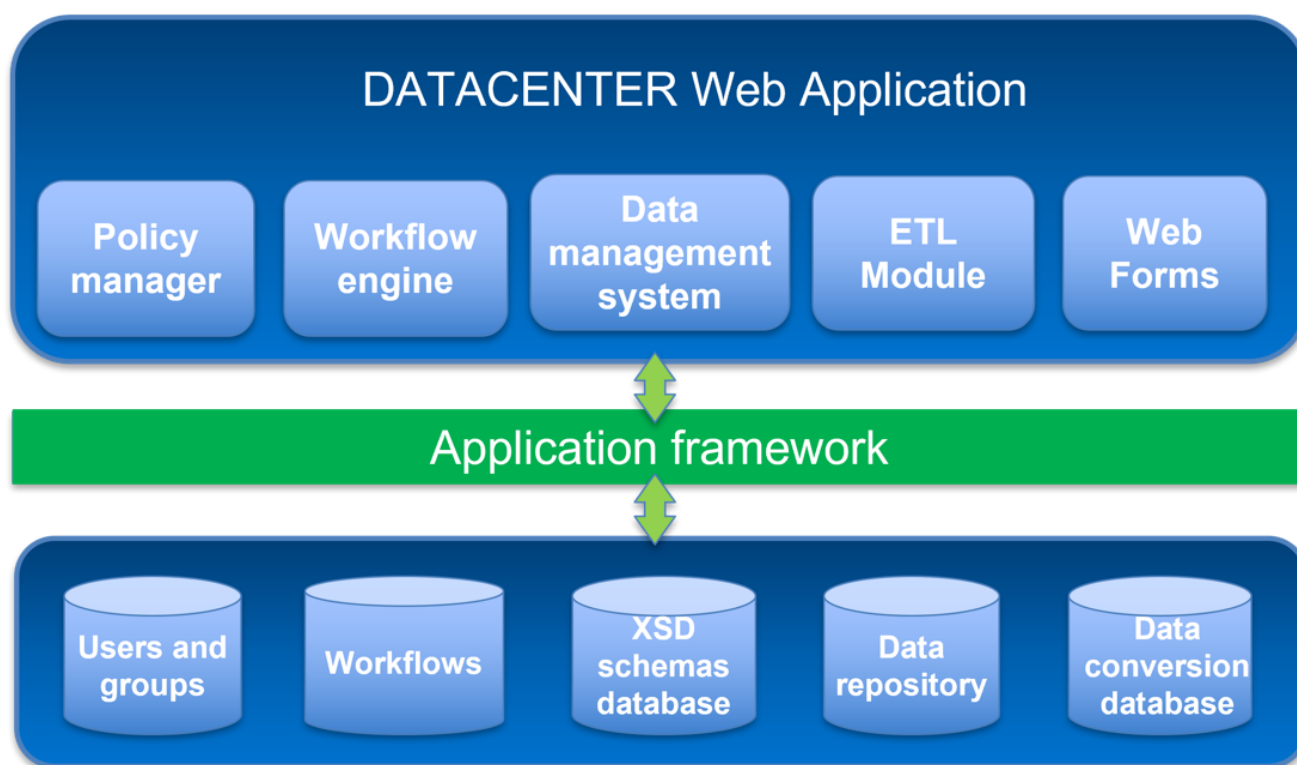
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1. Introduction

The Barcelona Convention Reporting Info System (BCRS) is an infrastructure to support reporting activities under article 26 of the amended Barcelona Convention and several articles of different Protocols of Mediterranean Action Plan. Article 26 of the Barcelona Convention stipulates that the Contracting Parties shall transmit to the Secretariat reports on (a) the legal, administrative or other measures taken by them for the implementation of the Convention, the Protocols, and the recommendations adopted by their meetings, (b) the effectiveness of the measures referred to sub-paragraph (a) and problems encountered in the implementation of the instruments as mentioned above. The Reporting Info System is the infrastructure which provides tools to support the report activity. The main target of the system is allowing collection, storage, management and process of Reporting data. Reporting data is the textual and numerical data regarding the implementation of the Barcelona Convention and its Protocols that the Contracting Parties are requested to provide to the Secretariat on a biannual basis. The collection, management and processing of reporting data are at the core of the Reporting Info system and reporting activities.

The architecture of the BCRS is shown in the figure:



A brief description of the individual components of the architectural scheme follows:

Policy manager: it interacts with the users database (Info RAC LDAP), manages users permissions and profiles (e.g. Country reporter-Data provider, MAP FP, Processor, etc.);

Workflow engine: manages the life cycle of reported data from the initial submission step to the final publication step, passing through the validation, update and finalization steps;

Data management system (DMS): main repository for data and reports delivered by the countries or CPs. It is organized with a folder structure for each country/CPs where the data or reports can be uploaded and available to others;

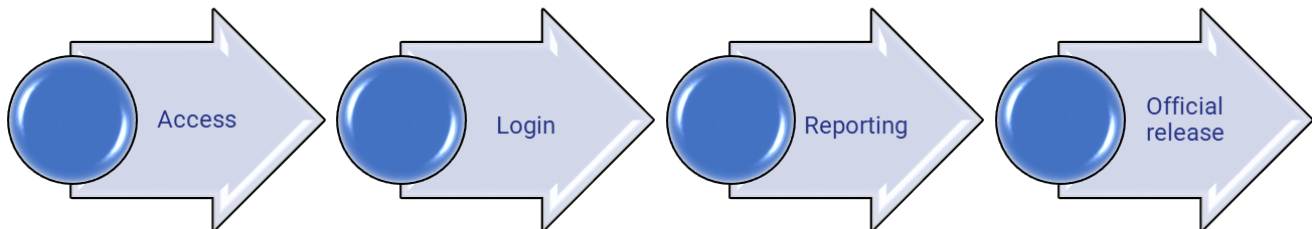
ETL Module: this module transforms data coming from XML deliveries, merges and transforms them into different formats (e.g. csv, excel files, mdb access, web services, etc) and makes it available for the data dissemination and publication phase;

Web Forms: allows data reporters to deliver validated data in XML format using online, easy to use and friendly webforms. A standard web browser with Javascript support is necessary.

The data are managed by INFO/RAC. NBB Info System has four access levels. INFO/RAC have access to all contents.

MAP components can access to public contents and can download the zip folder officially released by each CP and not yet published.

The Reporter of each CP can access, in addition to the public contents, to the specific section of the CP he/she belong to. Finally general public can access to all the data released to public by CPs.



The workflow, which allow allows the Contracting Parties to submit the data related to national reports (Barcelona Convention, Prevention and emergency protocol, Offshore protocol, Dumping protocol, LBS protocol, Hazardous Wastes protocol, SPA&BD Protocol, ICZM Protocol), starts accessing to Reporting system webpage from this url: <https://idc.info-rac.org/bcrs>

To access the reserved sections and proceeds entering data through the webform, **login is required**.

The workflow finishes when the Reporter (for each CP) officially releases the data. Only the files released to public are visible to all other CPs.

2. State of art of the BCRS reporting by Contracting Parties

Abbreviations

- BC: Convention for the Protection of the Marine Environment and the Coastal Region of the Mediterranean
- Dumping: Protocol for the Prevention and Elimination of Pollution of the Mediterranean Sea by Dumping from Ships and Aircraft or Incineration at Sea
- HW: Protocol on the Prevention of Pollution of the Mediterranean Sea by Transboundary Movements of Hazardous Wastes and their Disposal
- LBS: Protocol for the Protection of the Mediterranean Sea against Pollution from Land-Based Sources and Activities
- Offshore: Protocol for the Protection of the Mediterranean Sea against Pollution Resulting from Exploration and Exploitation of the Continental Shelf and the Seabed and its Subsoil
- Prev&Emerg.: Protocol Concerning Cooperation in Preventing Pollution from Ships and, in Cases of Emergency, Combating Pollution of the Mediterranean Sea
- SPA&BD: Protocol concerning Specially Protected Areas and Biological Diversity in the Mediterranean
- ICZM: Protocol on Integrated Coastal Zone Management in the Mediterranean

Albania

2016-2017: BC reported, HW, LBS, Offshore, Prev&Emerg., SPA&BD, ICZM in the draft status; 2018-2019: BC report complete, SPA&BD in draft status; The bienniums 2020-21 and 2022-23 not reported.

Algeria

2016-2017, 2018-2019 and 2022-23: SPA&BD protocol has been correctly completed in the bienniums, . It lacks in the biennium 2020-21. ICZM, BC, Dumping and HW draft reports have been submitted in 2016-17; ICZM draft report present in 2022-23.

Bosnia Herzegovina

2016-2017: reports completed but Dumping and HW missing; 2018-2019 and 2020-21 completed. 2022-23: all the draft reports present.

Croatia

2016-17 and 2018-19 completely reported. 2020-21: reports completed, SPA&BD still in draft status. In 2022-23 Prev&Emerg completed, all other reports still in draft status.

Cyprus

2016-17: all completed but HW, Prev&Emerg., ICZM still in draft status. 2018-19: all completed but HW missing and Prev&Emerg., ICZM still in draft status. 2020-21: all completed but HW missing and Dumping, ICZM still in draft status. 2022-23: all completed but HW missing and LBS, Offshore, Prev&Emerg., SPA&BD still in draft status.

Egypt

2016-17: completely reported but ICZM missing and BC, Dumping, HW, LBS, Offshore in draft status.

2018-19: not reported; 2020-21: BC, SPA&BD, ICZM reported; 2022-23: BC, SPA&BD reported, Prev&Emerg., ICZM in draft status.

European Community

2016-17 reported; 2018-19: reported but ICZM still in draft status; 2020-21 reported; 2022-23 reported in draft status.

France

2016-17: completely reported but HW, Offshore in draft status; 2018-19: reported but HW, Offshore missing and Prev&Emerg., ICZM in draft status; 2020-21: reported but HW, Offshore missing, and BC, LBS, Prev&Emerg., ICZM in draft status. 2022-23: reported in draft status, but HW, Offshore missing.

Greece

2016-17: completely reported; 2018-19: completely reported but HW missing; 2020-21: completely reported but HW missing and ICZM in draft status; 2022-23 reported in draft status but HW missing.

Israel

2016-17: completely reported but HW missing; 2018-19: completely reported but HW missing and BC, Dumping, LBS, Prev&Emerg. In draft status. 2020-21: completely reported but HW missing; 2022-23: completely reported in draft status but HW missing;

Italy

All bienniums completely reported.

Lebanon

2016-17: completely reported; 2018-19 and 2020-21: completely reported but Dumping, HW, LBS, Offshore, Prev&Emerg, SPA&BD in draft status. 2022-23: completely reported in draft status.

Libya

2016-17: completely reported in draft status. The other bienniums not reported.

Malta

2016-17: completely reported but Offshore in draft status; 2018-19: reported but LBS, Offshore, Prev&Emerg. SPA&BD missing; 2020-21: completely reported but Offshore report missing; 2022-23: completely reported but Offshore report missing and HW, LBS in draft status.

Monaco

2016-17: reported in draft status but LBS and SPA&BD completed; 2018-19: LBS and SPA&BD in draft mode, the other missing; 2020-21: SPA&BD in draft mode, the other missing; 2022-23: completely reported in draft status.

Montenegro

2016-17: completely reported but Dumping in draft status; 2018-19: completely reported but Dumping missing and LBS in draft status; 2020-21 and 2022-23: completely reported in draft status but Prev&Emerg, SPA&BD completed and Dumping missing;

Morocco

2016-17: completely reported but LBS in draft status; 2018-19: completely reported in draft status; 2020-21: completely reported but SPA&BD, ICZM in draft status; 2022-23: completely reported in draft status.

Slovenia

2016-17: completely reported but HW, Offshore in draft status; 2018-19, 2020-21 and 2022-23: completely reported but HW, Offshore missing.

Spain

All bienniums completely reported.

Syria

2016-17: completely reported in draft status; 2018-19, 2020-21, 2022-23: present the BC report in draft status.

Tunisia

2016-17: completely reported in draft status; 2018-19, 2020-21, 2022-23: missing.

Turkey

2016-17: completely reported but Offshore, ICZM in draft status; 2018-19, 2020-21: completely reported but Offshore, ICZM missing; 2022-23: completely reported but Offshore missing and ICZM in draft status.

3. Next Steps

The main coming developments of the BCRS are:

- Complete revision of the system for modernisation purposes
- Revision of dataflow process
- Application of new IT standards