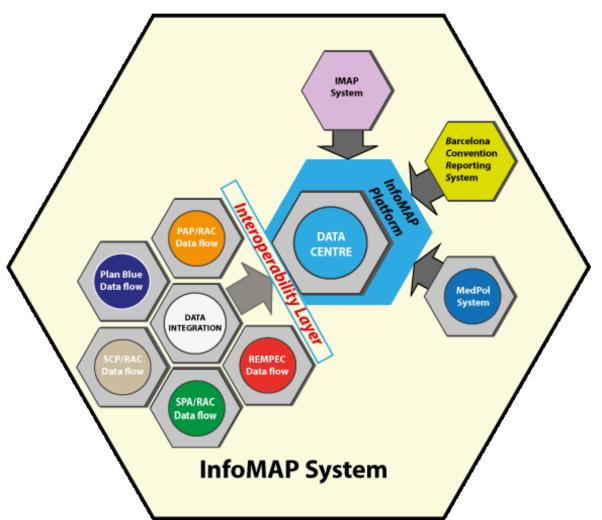
InfoMAP System and tools









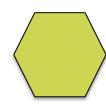
InfoMAP represents the
Information System to archive,
manage and share Environmental
data and information in the
Mediterranean Sea area, and also
to support the Barcelona
Convention, based on the SEIS
principles.











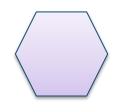
Barcelona Convention Report System

Data relate to protocol of Barcelona Convention, pollution from Land Based Sources, Hazardous Wastes, Dumping, Specially Protect Area & Biodiversity, Integrated Costal Zone Management, Prevention and emergency, offshore.



MED POL Info System

Data relate to protocol of Pollution Monitoring and National Budget Baseline.



IMAP Pilot System

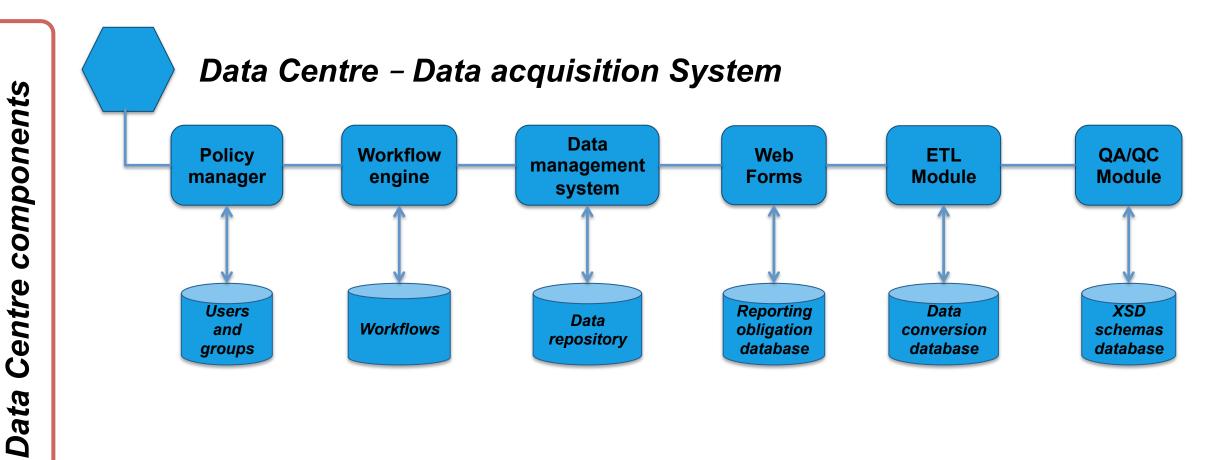
Data relate to protocol of Indicators on Monitoring to support Integrated Monitoring Assessment.

















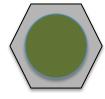


services of MAP components

Data



PAP/RAC Data services



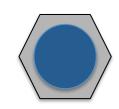
SPA/RAC Data services



REMPEC Data services



SCP/RAC Data services



PB/RAC Data services





MD Catalogue





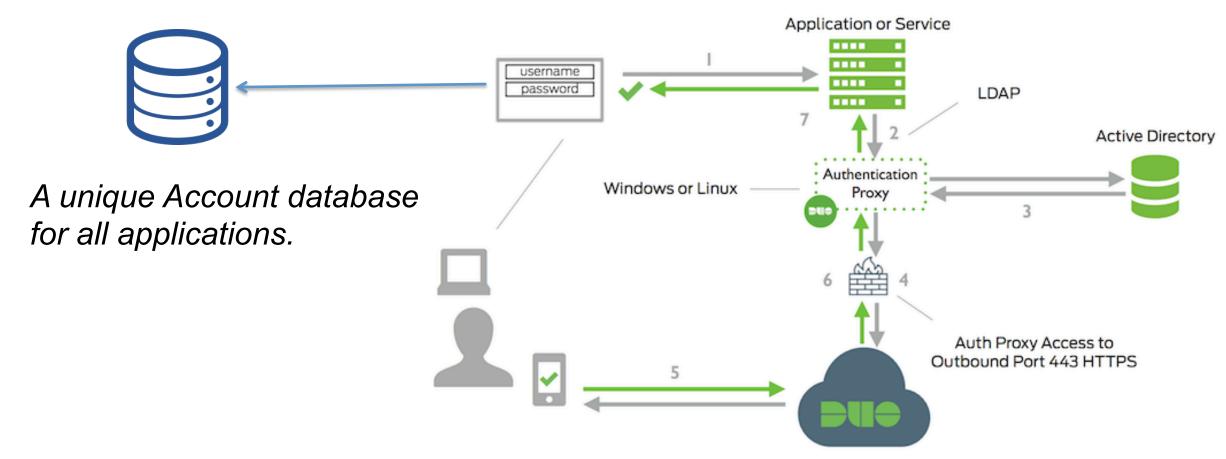






InfoMAP Security Service

A security system with a single-sign-on authentication system.



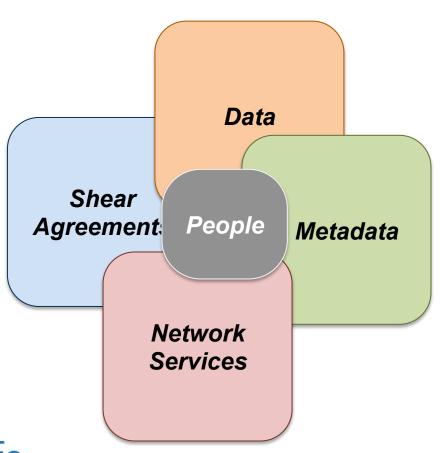








Spatial Data Infrastructure – main concept



SDI (Spatial Data Infrastructure) is a framework of technologies, policies, and institutional arrangements that together facilitate the creation, exchange, and use of geospatial data and related information resources across an information-sharing community.









Spatial Data Infrastructure – component

People

Data

Metadata

The Human resources to support the process

Data component involves different elements related to the data store system, normally the database software and applications to manage and ingest these, as well as the standardization, harmonization and validation processes tools that permit to have an high semantic interoperability, a quality check and an integration on data

Metadata component is composed by software application that provides a system to compile or charge metadata in a standard template and also define the rules how to fill in the template, but also the application to provide network service to access to this information









Spatial Data Infrastructure – component

Network Services **Network service** component represents the software applications and rules to make data, metadata and information in general approach available, accessible and interoperable in different systems.

Shear Agreements **Shear Agreements** is the legal framework that define Data policy for share data and information among the SDI.









Spatial Data Infrastructure – Middleware layer

Application and Portal layer

Network Service layer

Data Management layer

Middleware layer is the software architecture that provides services to software applications and provides main functionality for the users:

- Data Management and geocoding;
- Searching and view of data and metadata;
- Downloading datasets (in accord with their data policy);
- Publish and share documents, maps and layers.

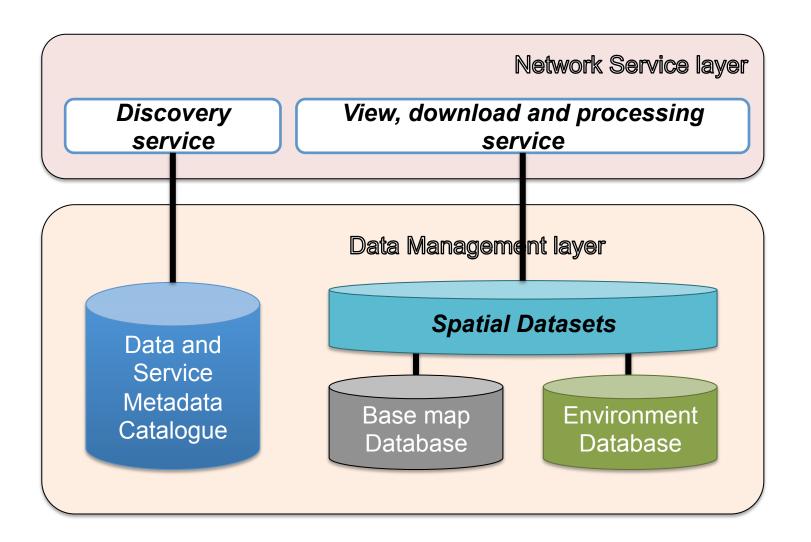








Spatial Data Infrastructure – Middleware layer





Internal user

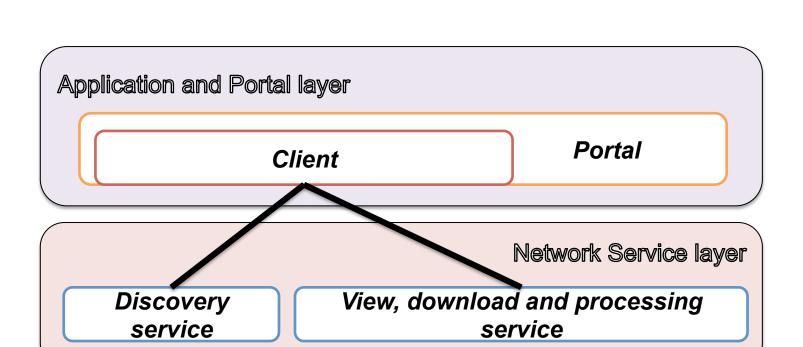




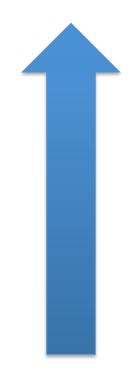




Spatial Data Infrastructure – Middleware layer



External user



Internal user

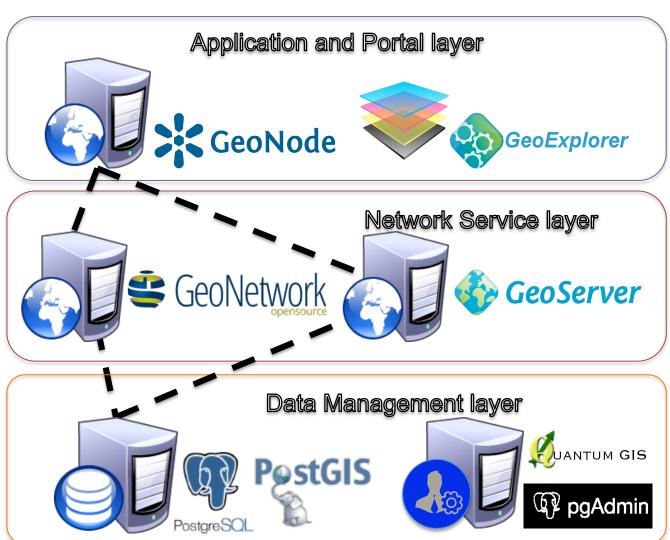








Spatial Data Infrastructure – Middleware system



The software architecture used in *InfoMapNode* SDI that is the InfoMAP interoperability layer

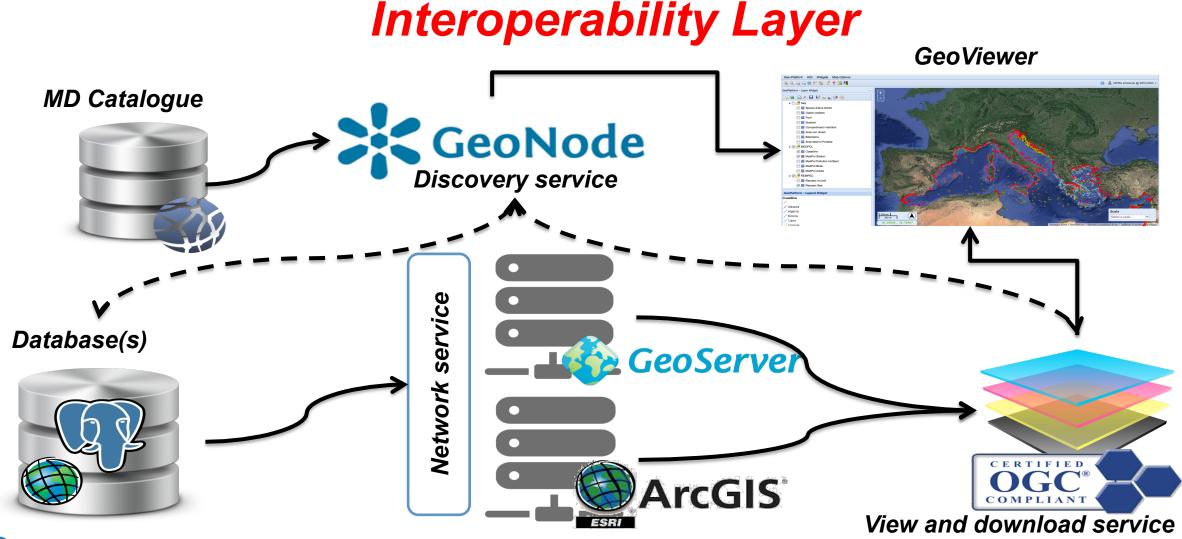








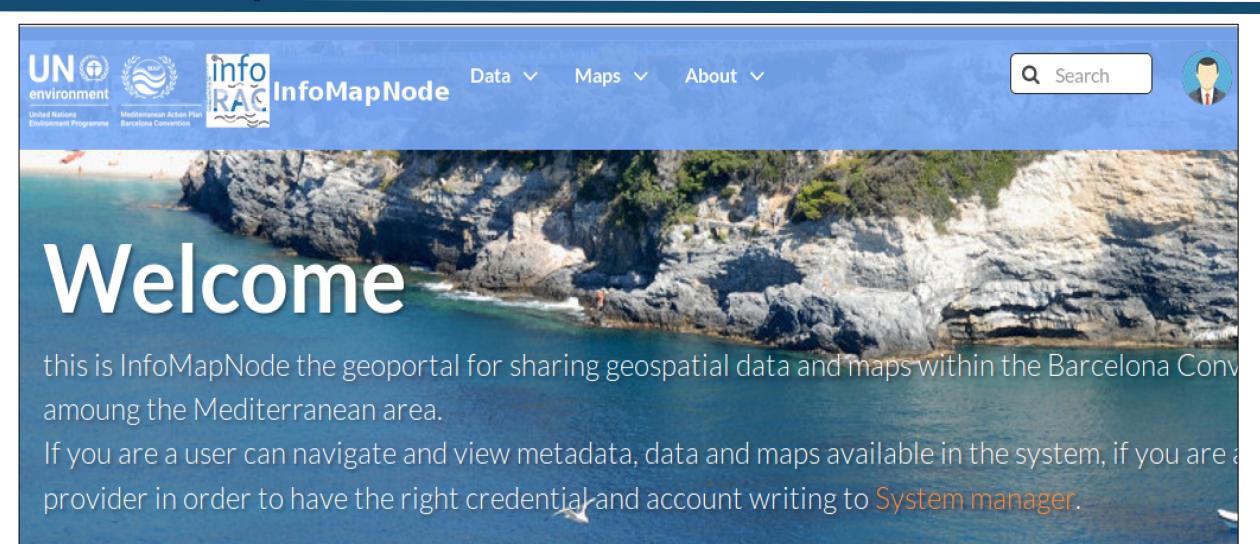
Spatial Data Infrastructure orchestration









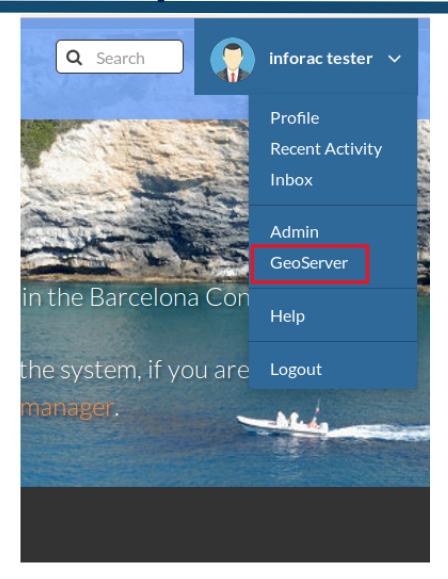












Network Service ebbeded InfoMapNode administration panel











From Geoserver system there is a direct connection with GeoNode system that is the management part of SDI.









1.1.1

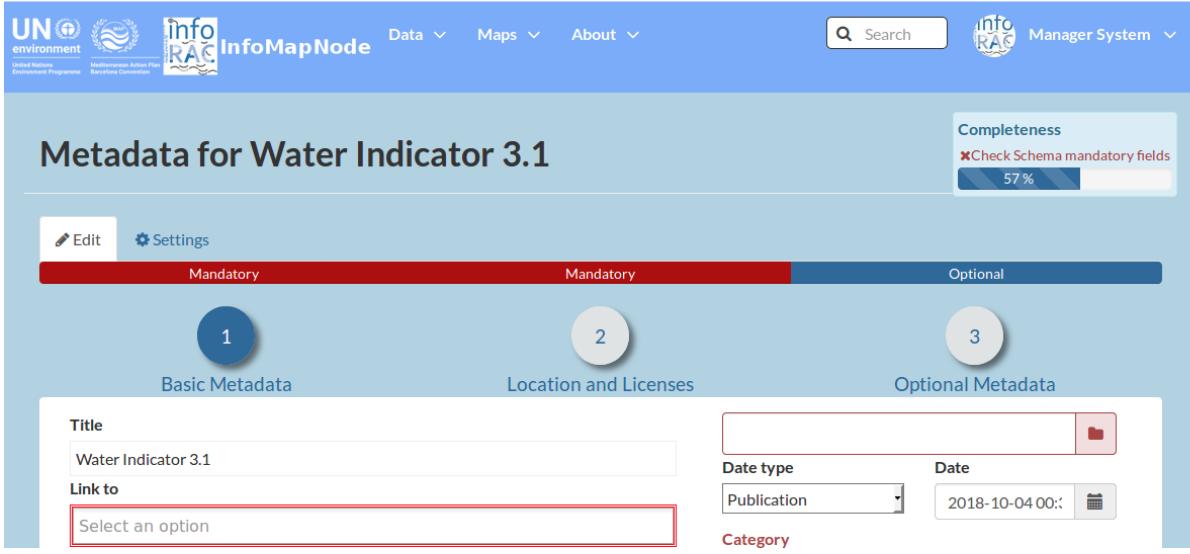
1.0.0

1.1.0 2.0.0 WMS 1.1.1 1.3.0

1.1 1.0.0

WFS

WPS



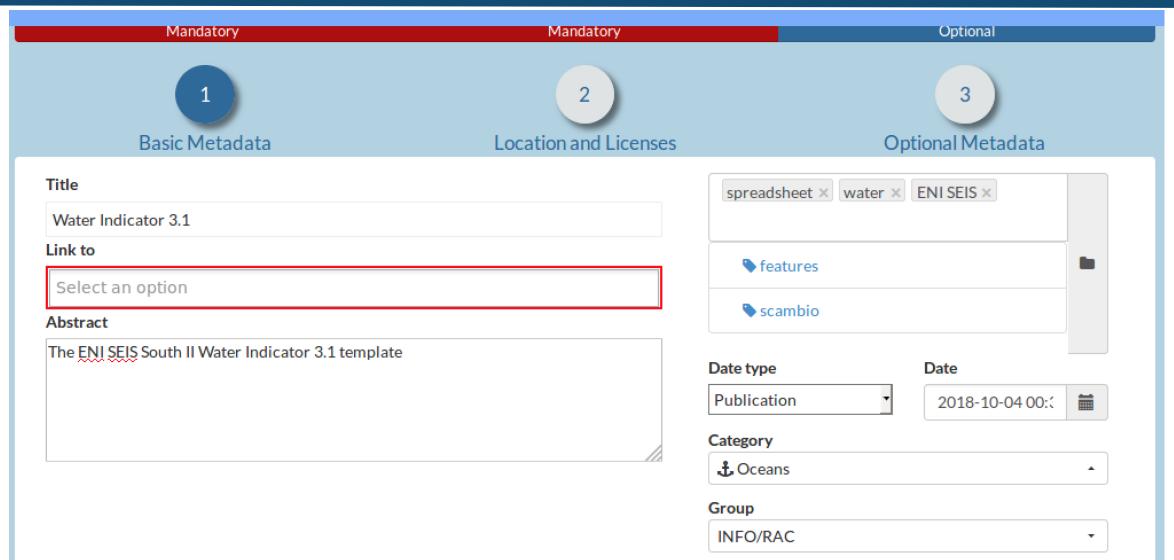








InfoMapNode – Metadata template



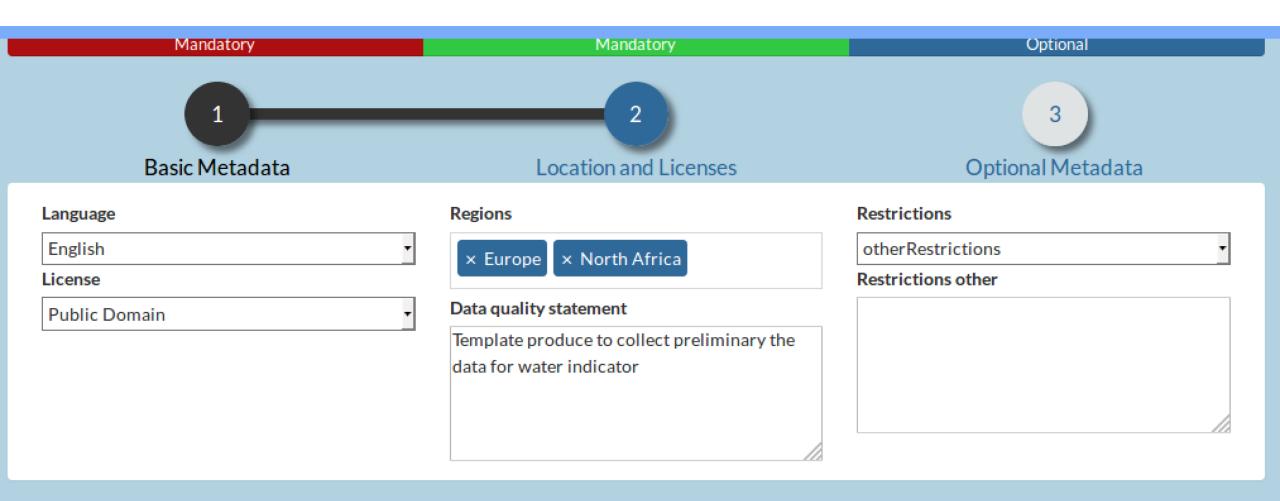








InfoMapNode – Metadata template



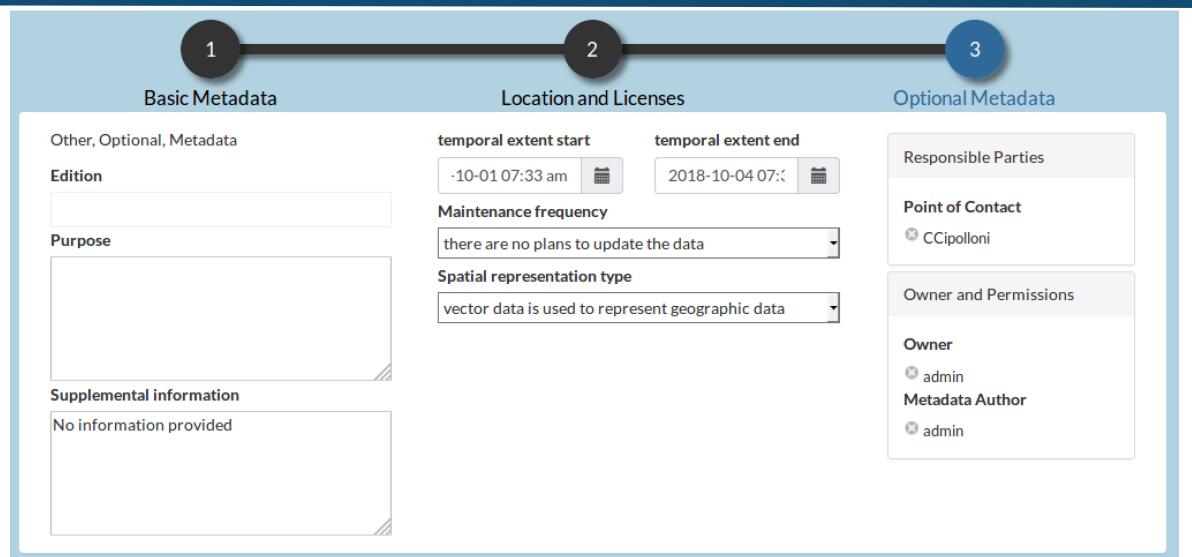








InfoMapNode – Metadata template

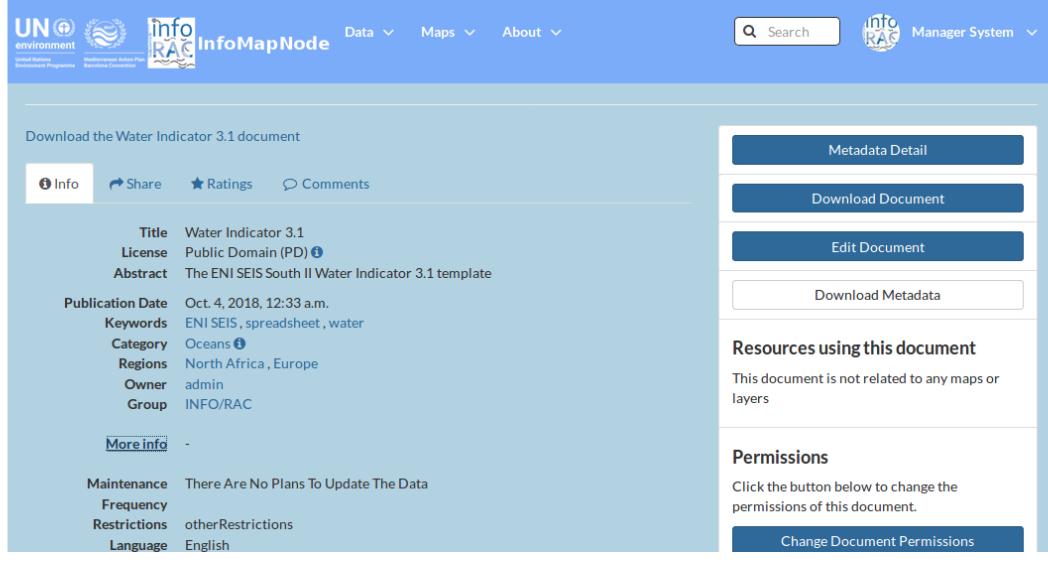








InfoMapNode – Metadata management



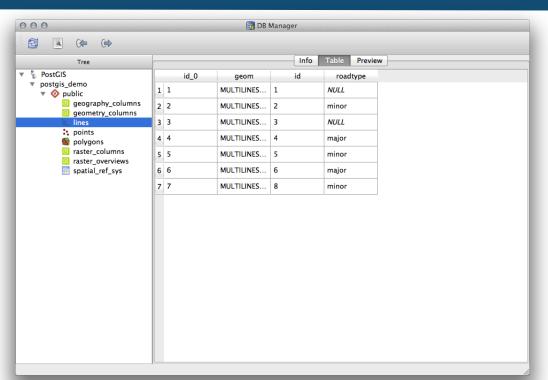


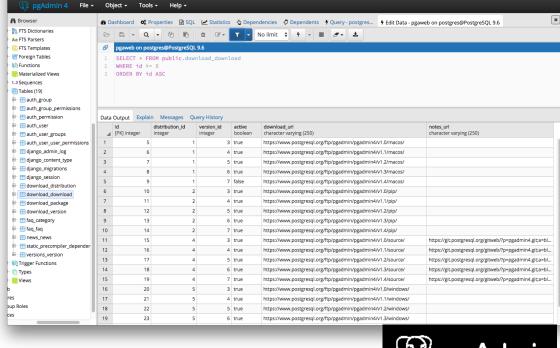






InfoMapNode – Data management











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От ☆





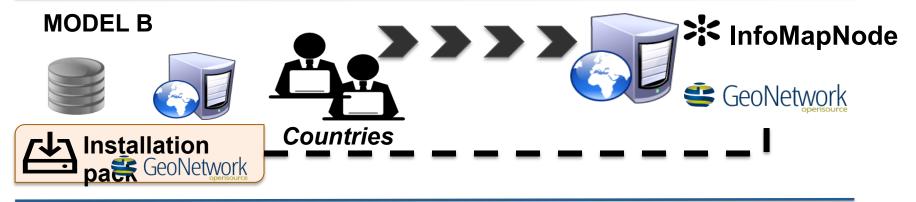






SDI Share and technical support models













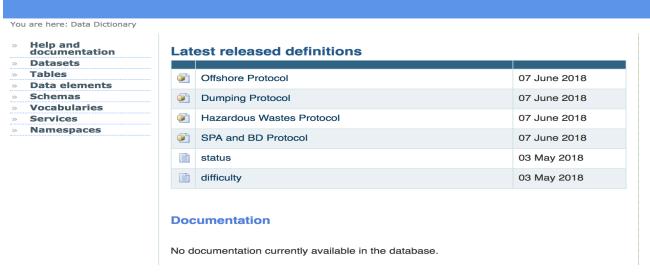


Description → Login → Login → Login

Data Dictonary

A component system able to manage the different data flow, defining for each one schema, Vocabularies/Code lists, quality control, etc.





https://dd.info-rac.org/









Logout (cornel) A



Data Repository

A share directory where each You are here: IDC country can upload their data reporting, following the different data flow procedures.

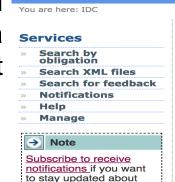






INFOMAP DATA REPOSITORY

Data Repository



events in this site.

The infoRAC Data Repository is like a bookshelf, with data reports on the environment as submitted to international clients.

Each country either has a collection (a) for its deliveries or a referral (b) to a different preferred repository. The data

ons within each country collection are arranged under the relevant reporting obligations of agreements.						
Countries———						
<u> Albania</u>	Algeria	Bosnia Herzegovina				
<u>Croatia</u>	Cyprus	<u> </u>				
European Community	France	☐ Greece				
□ Israel	🗀 <u>ltaly</u>	<u> Lebanon</u>				
의 <u>Libya</u>	Malta	Monaco				
Montenegro	Morocco	Palestine				
Slovenia	🗀 <u>Spain</u>	Syria				
□ <u>Tunisia</u>	Turkey					
	_					

http://idc.info-rac.org/













A web tool to compile the reporting obligation data flow, this is able to create an empty copy of report that each country can fill using web form or other tool procedure.









You are here: infoMap

Web Questionnaires

Web Questionnaires

This tool helps gather data for reporting obligations, using web questionnaires predefined by the EEA. Data entries are gathered in a session file (in XML format).
You can:

- start a new session, or
- upload a file from a previous session to edit it, or
- merge multiple XML files by either uploading XML files separately or multiple files packed into a zip archive.

Do not forget to save your file on your computer, and to do that often! The data will disappear if the session expires or if you close your browser.

Create new session file Or Upload session file

http://idc.info-rac.org/









Web form for reporting











You are here: infoMap **

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Create new session file Or Upload session file
Select questionnaire: Barcelona convention \$
Save file in session









Web form for reporting







You are here: infoMap »

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Create new session file Or Upload session file

My session files

File	Actions	File size	Last modified	
barcelona 1.xml	Edit with 'Barcelona convention' web form	1 KB	11 giu 2018 21:30:33	•

Delete selected files Merge s

Merge selected files

Rename

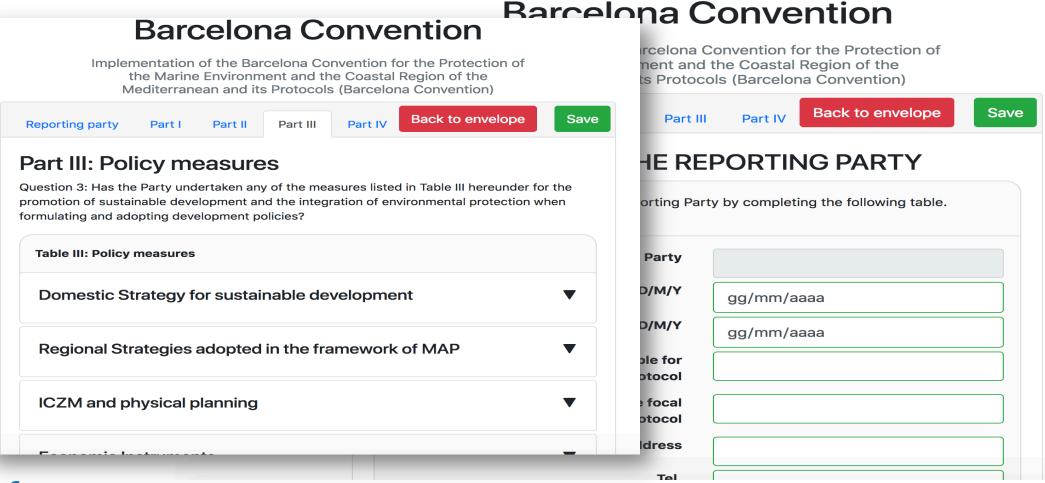








Web form for reporting











Thank you for your attention

www.info-rac.org info@info-rac.org









Reporting implementation chain

Data model

• UML

• XSD Schema

Data flow implementation











Data Dictionary

- Vocabulary
- Codelist

Schema validation generation







