10° Meeting of the H2020 Review and Monitoring Group and Assessment Workshop, Athens 23-24 September 2019.

InfoMAP system Knowledge base: Overview for inputs H2020

Carlo Cipolloni Deputy Director of INFO/RAC Céline Ndong ENI-SEIS Project Officer INFO/RAC







Data Reporting obligation - Main data flow

Barcelona Convention Report System

is the module that allows Contracting Parties to report under article 26 of the amended Barcelona Convention and **several articles of different Protocols** of MAP. The system is able to collect, store, manage and process **compliance reporting data** regarding the implementation of the seven Protocols. **MED POL Info System**

Is the module to collect data related to the Pollution monitoring and control protocol and **National Budget Baseline dataflow**.



IMAP Pilot Info System

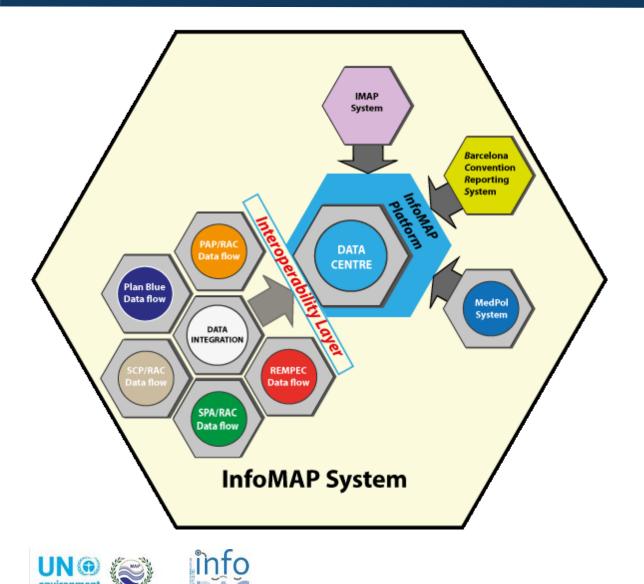
Is the new platform developed within the EcAP MED II project to test the collection **IMAP Ecological Objectives (EOs) and Indicators**.

Reporting data flow





InfoMAP Overview

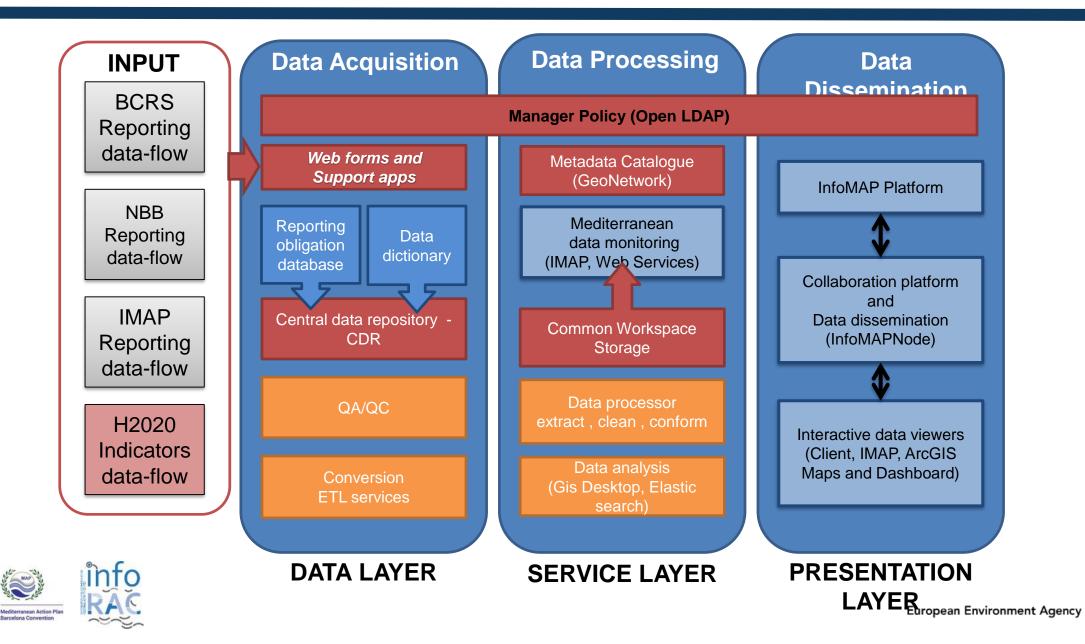


InfoMAP is the UN Mediterranean knowledge platform System conceived to provide and share data, information services and knowledge for the benefit of the Mediterranean Action Plan components and Contracting Parties, based on the SEIS principles.



Data chain architecture

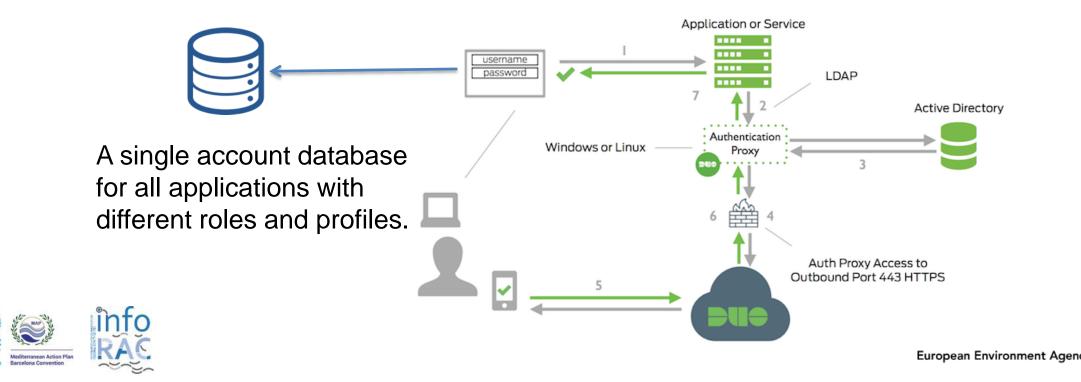
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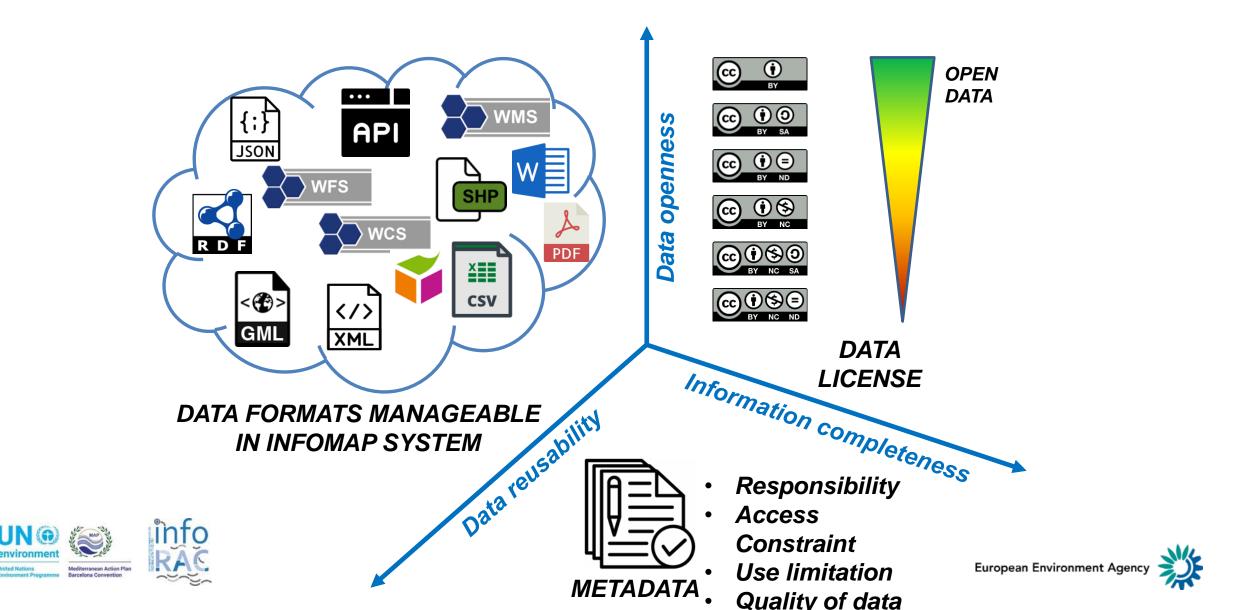
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Manager Policy (Open LDAP)

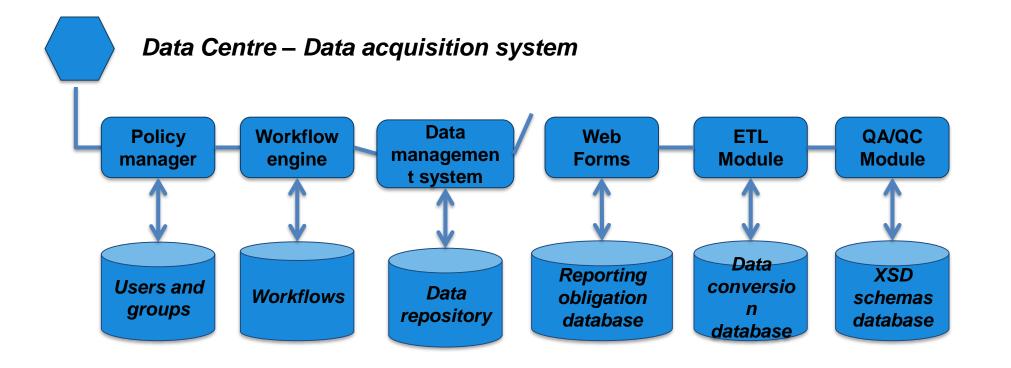
A security system with a single Sing-on authentication system.



InfoMAP Data Management



InfoMAP overview - DATA LAYER



Data Centre components

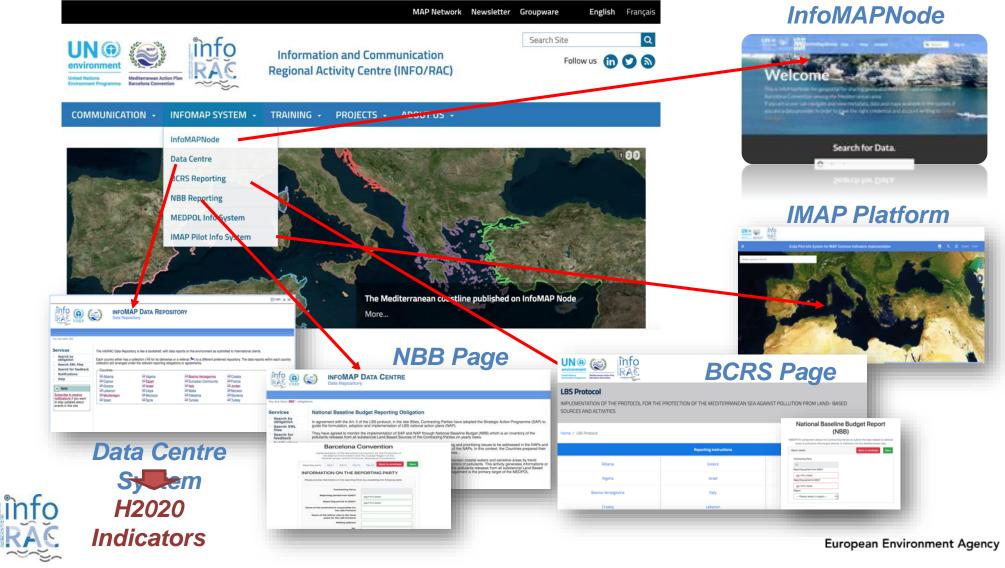




How I can enter in the InfoMAP platform parts?

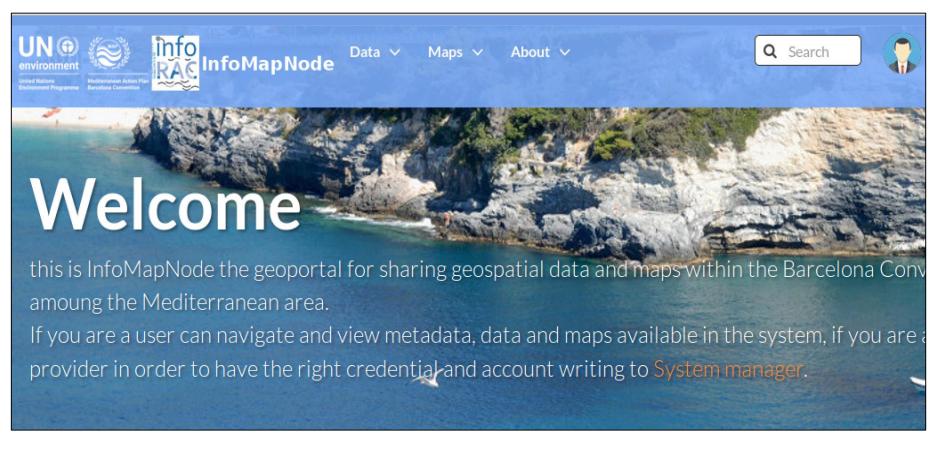
http://www.info-rac.org/en

Mediterranean Action Pla Barcelona Convention



InfoMapNode - InfoMAP SDI

InfoMapNode is the geoportal interface to interact with SDI.



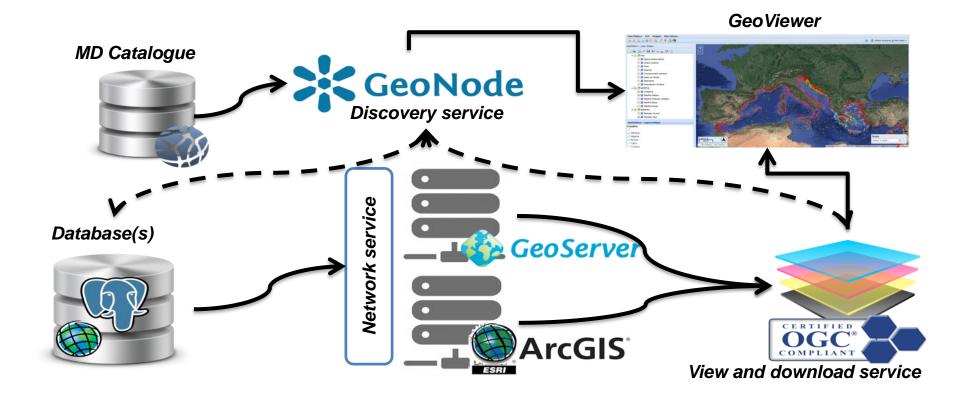


http://infomapnode.info-rac.org/



Spatial Data Infrastructure - Orchestration

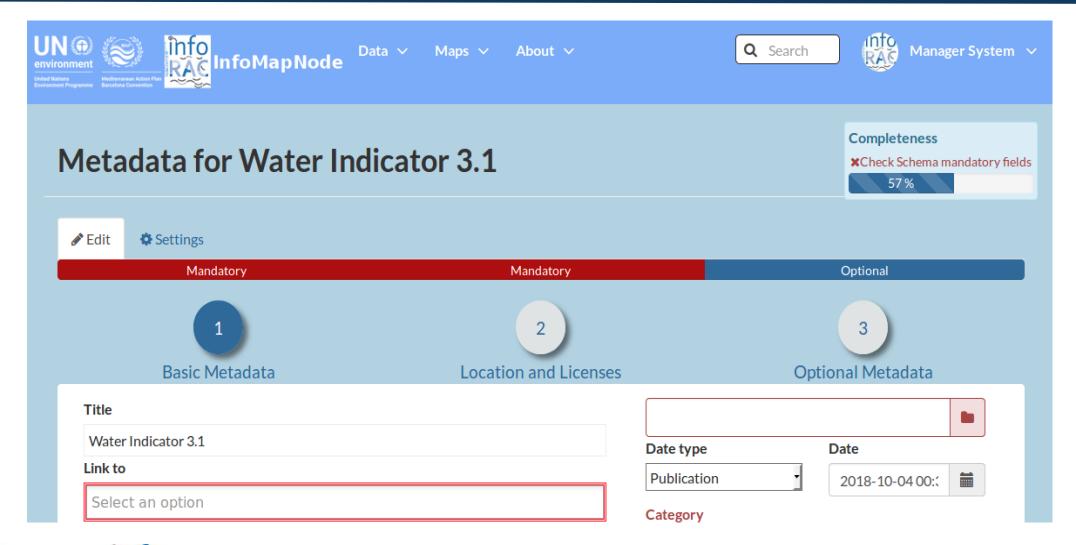
Interoperability Layer







InfoMapNode - Metadata Editor







InfoMapNode - Metadata management

http://infomapnode.info-rac.org/catalogue/csw?service=CSW&request=GetCapabilities

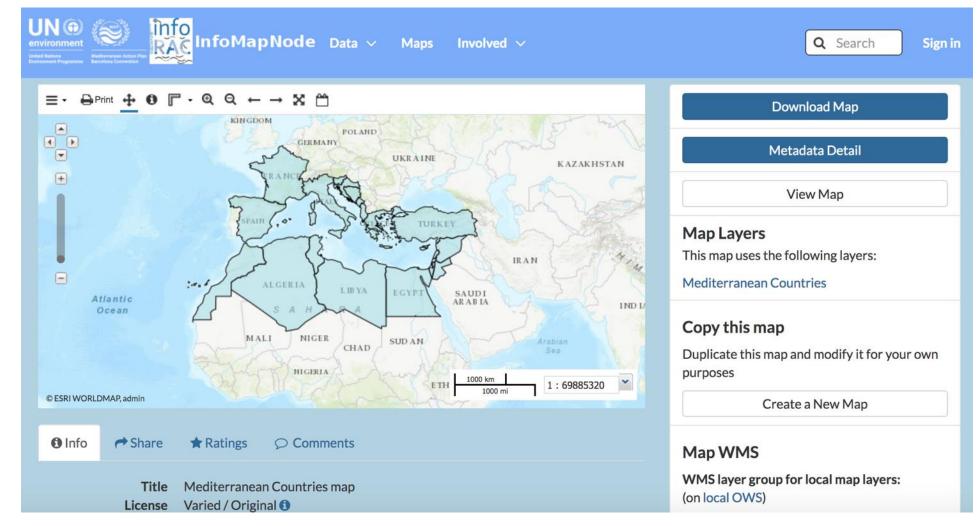
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InfoMapNode - Spatial datasets consultation







GeoServer	username password	Remember me 🗍 🛃 Login
Ĭ	Welcome	
About & Status Ø About GeoServer	Welcome	
Data	This GeoServer belongs to INFO/RAC UNEP-MAP.	Service Capabilities
💹 Layer Preview		TMS
Demos	This GeoServer instance is running version 2.12-SNAPSHOT . For more information please contact the administrator.	1.0.0
	information please contact the administrator.	WMS-C
		1.1.1
		WMTS
		1.0.0
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rom the Geo	oserver system (web service	1.1.1
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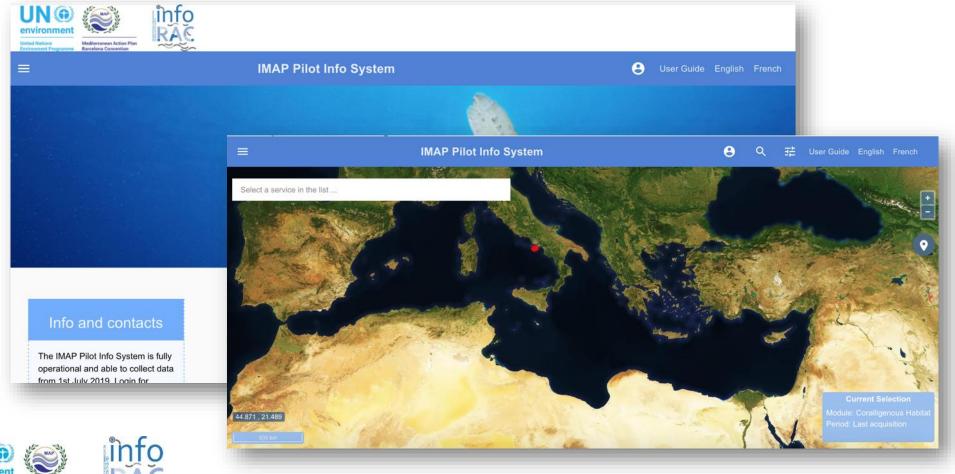


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IMAP Pilot Info System

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The IMAP (Integrated Monitoring and Assessment Programme) Ecological Objectives (EOs) and Indicators data flow





Barcelona Convention Reporting System

UN (in control of the second o		
taken by them for the implementation of the Convention, the Protocols, and the recommendations adopted by their meeting	nvention and several articles of different Protocols of Mediterranean Action Plan. Article 26 of the Barcelona Convention stipula gs, (b) the effectiveness of the measures referred to sub-paragraph (a) and problems encountered in the implementation of the g data is the textual and numerical data regarding the implementation of the Barcelona Convention and its Protocols that the C	instruments as mentioned above. The Reporting Info System is the infrastructure which provides tools to support the
Home		
Barcelona Convention IMPLEMENTATION OF THE BARCELONA CONVENTION FOR THE PROTECTION OF THE MARINE ENVIRONMENT AND THE COASTAL REGION OF THE MEDITERRANEAN AND ITS PROTOCOLS (BARCELONA CONVENTION)	Prevention and Emergency Protocol Implementation of the protocol concerning cooperation in preventing pollution from ships and, in cases of emergency, combating pollution of the mediterranean sea	Offshore Protocol IMPLEMENTATION OF THE PROTOCOL FOR THE PROTECTION OF THE MEDITERRANEAN SEA AGAINST POLLUTION RESULTING FROM EXPLORATION AND EXPLOITATION OF THE CONTINENTAL SHELF AND THE SEA BED AND ITS SUBSOIL
Dumping Protocol IMPLEMENTATION OF THE PROTOCOL FOR THE PREVENTION AND ELIMINATION OF POLLUTION OF THE MEDITERRANEAN SEA BY DUMPING FROM SHIPS AND AIRCRAFTS OR INCINERATION AT SEA	LBS Protocol Implementation of the protocol for the protection of the mediterranean sea against pollution from land- based sources and activities	Hazardous Wastes Protocol IMPLEMENTATION OF THE PROTOCOL ON THE PREVENTION OF POLLUTION OF THE MEDITERRANEAN SEA BY TRANSBOUNDARY MOVEMENTS OF HAZARDOUS WASTES AND THEIR DISPOSAL



The BCRS (Barcelona Convention Reporting System) has a dedicated page to submit each of the seven protocole open Environment Agency



ative or other measures tools to support the report nagement and processin,

InfoMAP Reporting System components

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Info RAC UNEP	INFOMAP DATA CENTRE Data Repository	http://idc.info- rac.org/	
You are here: IDC » Tunisia			
Services	Overview		
» Search by obligation	Tunisia		
» Search XML files	Envelopes and subcollections		
» Search for feedback			
» Notifications	Barcelona Convention		12 Jul 2019
» Help	Dumping Protocol		12 Jul 2019
	H2020 Indicators		28 Aug 2019
→ Note	Hazardous Wastes Protocol		12 Jul 2019
Subscribe to receive	G ICZM in the Mediterranean		12 Jul 2019
notifications if you want to stay updated about	LBS Protocol		12 Jul 2019
events in this site.	National Baseline Budget		11 Jun 2019
l	Offshore Protocol		12 Jul 2019
	Prevention and Emergency Protocol		12 Jul 2019
	SPA and Biodiversity Protocol		12 Jul 2019

Data Repository



A share directory where each country can upload their data reporting, following the different data flow procedures.

InfoMAP One data flow for NBB

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Search by obligation	Tunisia	
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events in this site.	National Baseline Budget	11 Jun 2019
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	Prevention and Emergency Protocol	12 Jul 2019





InfoMAP One data flow for H2020

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Search XML files Search for feedback	Envelopes and subcollections	
Notifications Help	 Barcelona Convention Dumping Protocol 	12 Jul 2019 12 Jul 2019
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	SPA and Biodiversity Protocol	12 Jul 2019





InfoMAP One data flow for H2020

UN®

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Mediterranean Action Plan Barcelona Convention

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	Data Repository	
CALL ONE		
You are here: IDC» Tunisia» H20	20 Indicators	
Services	Overview	
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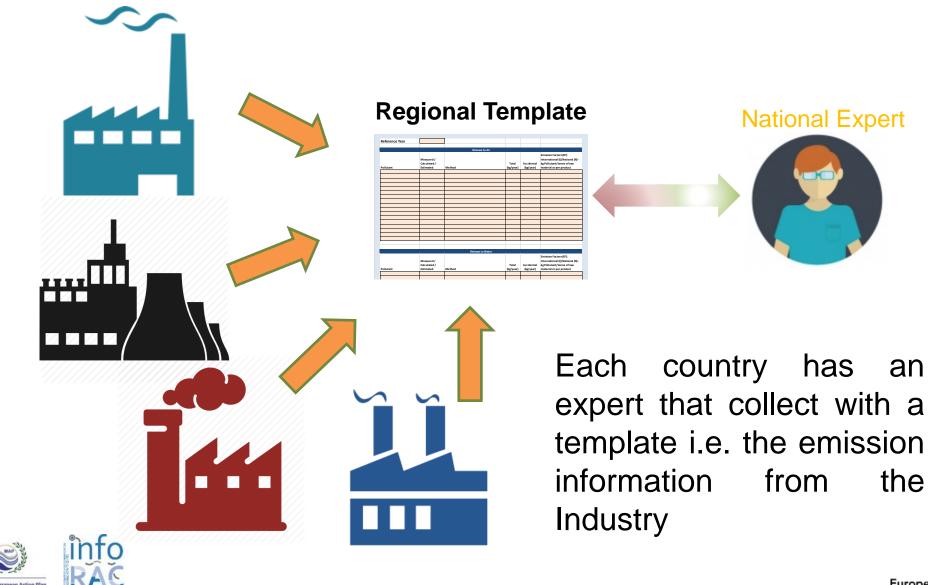
Reporting System How it works now?

	NEP Data Repos	sitory					
You are here: IDC»	Italy» National Baseline Budget» Report 20	2016-17					
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Title	IE6-3_2018_MNE_201	190910	6.3.1 -Total quan	tity of generated hazardous	waste from industrial installat	ions	
File	Sfoglia Nessun file selezion		Generated hazardous waste	ID_of_Sectors	ID_of_Subsector	Data_Collection_Method	Rema
ld		(optional)					
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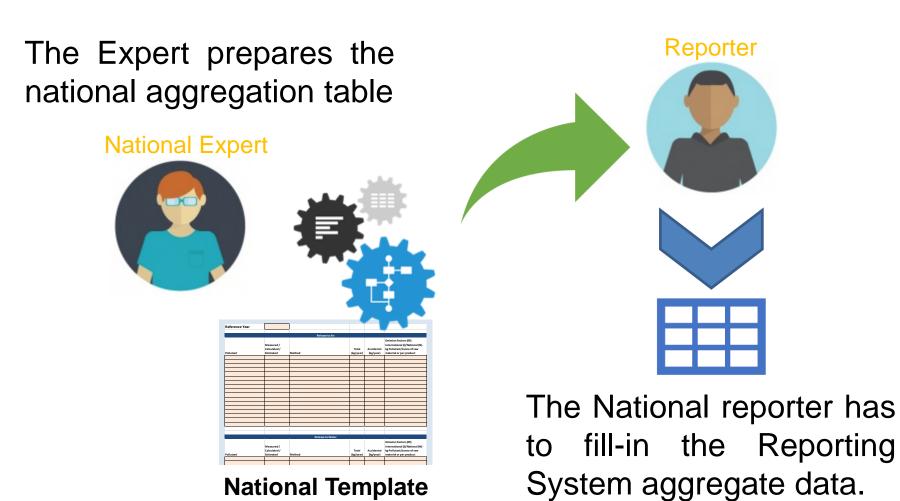


Report demo exercise

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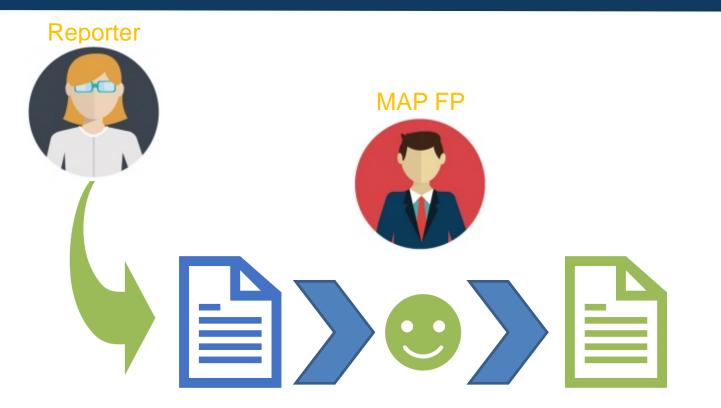
European Environment Agency



United Nations Environment Programme Inited Nations Environment Programme



Report demo exercise

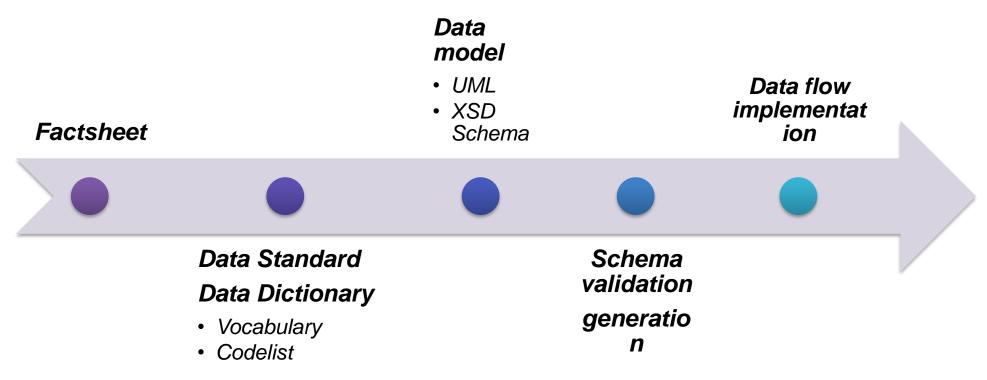


When the Reporter has finished the submission the NFP will receive a notification and he must validate the report and finalise it, creating the <u>Release to final draft</u>.





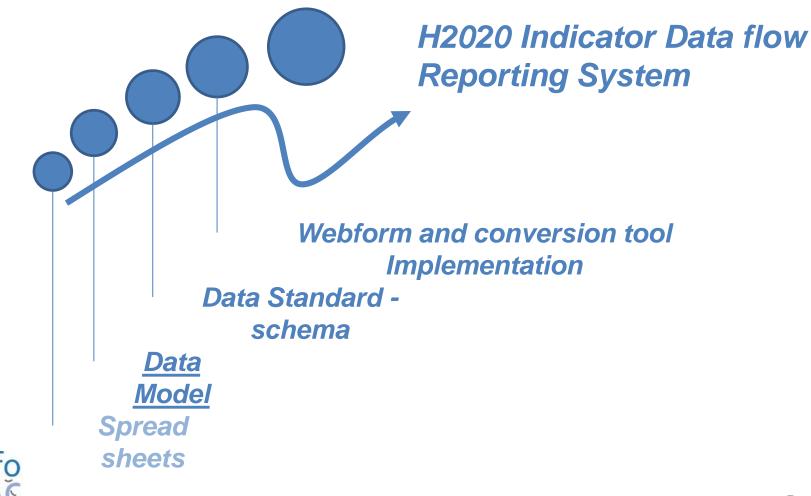
Reporting implementation chain







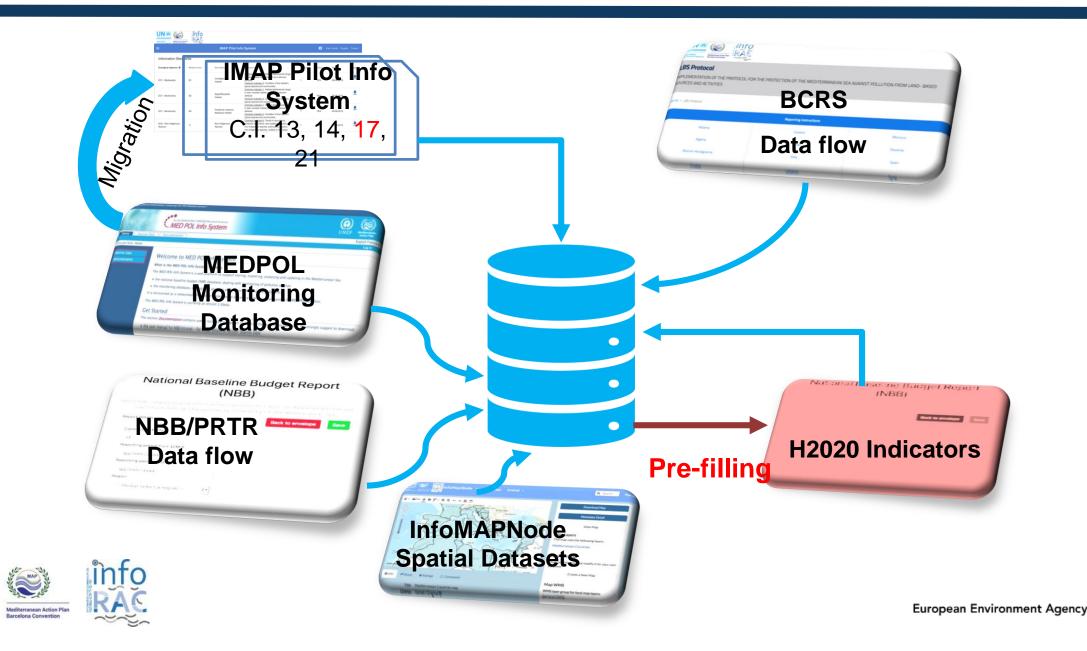
Reporting System Next Steps







Reporting System - Data integration in InfoMAP database



H2020 Indicators data requirements - WATER

H2020 Thematic Area	Indicator	nr/Title	Indicator Specificati on Factsheets	Data Dictionar y	IMAP	NBB/PRTR	BCRS	
	3.1	Share of total, urban and rural population with access to an improved sanitation system (ISS)	IND 3 - EN		5.1 CI13: Concentration of key			
	3.2	Proportion of population using safely managed sanitation services (SMSS)	<u>IND 3 - FR</u>		nutrients in water column (EO5); CI14:			
WATER	4.1	Municipal wastewater collected and wastewater treated	d ter s	Water DD	Chlorophyll-a concentration in water column (EO5)	4.1 & 4.3 Plants for municipal	4.2 LBS NAP on re-use of treated	
	4.2	Direct use of treated municipal wastewater			<u>- EN (</u> V6)	5.2 CI21 : Percentage of intestinal	wastewater collection and treatments	municipal wastewater
	4.3	Release of nutrients from municipal effluents					enterococci concentration	
	5.1	Nutrient concentrations in transitional, coastal and marine waters	<u>IND 5 - EN</u> IND 5 - FR		measurement s within established standards (EO9)			
înfo	5.2	Bathing water quality						



European Environment Agency

H2020 Indicators data requirements - INDUSTRIAL EMISSION

Mediterranean Action Plan

Barcelona Convention

H2020 Thematic Area	Indicat	tor nr/Title	Indicator Specificatio n Factsheets	Data Dictionary	IMAP	NBB/PRTR	BCRS
	6.1	Release of nutrients from industrial sectors	IND 61 English, IND 61 French		Link to 6.1 &6.2 with Cl 17:		
	6.2	Release of toxic substances from industrial sectors	<u>IND 6.2</u> English, IND <u>6.2 French</u>		Concentratio n of key harmful contaminants measured in	6.1 Amount of nutrients released from plants and diffuse	6.1 LBS NAF
	6.3	Industrial hazardous waste disposed in environmentally sound manner	IND 6.3 English, IND 6.3 French	<u>IE DD - EN</u> (V2.1)	the relevant matrix (EO9, related to biota, sediment, seawater)	sources 6.2 Amount of toxic substances released from plants	on BOD/COD 6.3 LBS NAF on Mercury and POP
	6.4	Compliance measures aiming at the reduction and/or elimination of pollutants generated by industrial sectors	<u>IND 6.4</u> English, IND <u>6.4 French</u>		and Cl13: Concentratio n of key nutrients in water column (EO5);	and diffuse sources	





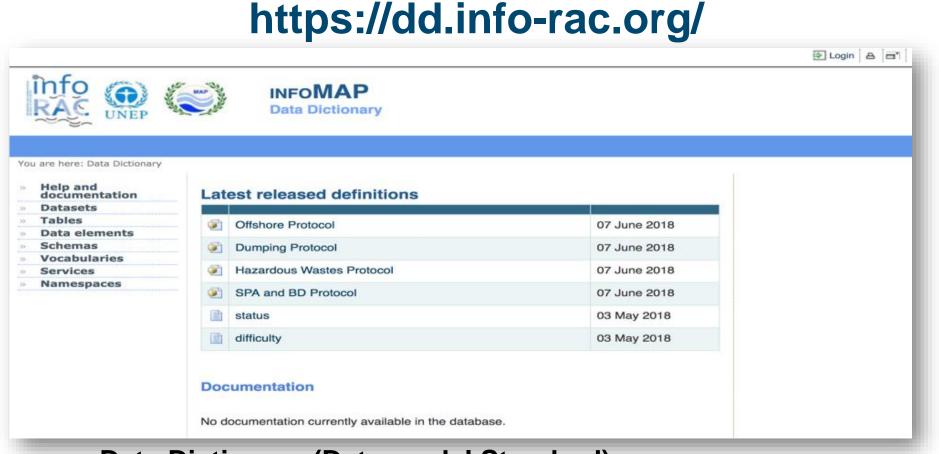
H2020 Indicators data requirements - WASTE

H2020 Thematic Area	Indicator nr/	Title	Indicator Specificatio n Factsheets	Data Dictionary	ІМАР	NBB/PRTR	BCRS		
	1.1	Municipal waste composition							
	1.2	Plastic waste generation per capita	IND 1 EN IND 1 FR						
	2.1	Waste collection							
WASTE		<u>Waste DD -</u> <u>EN</u> (V1.3)	NO	for waste collection and treatment	and waste 2.1 &2.3 NAP Hazardous Wastes Protocol				
	2.3	Waste resource recovery							
Fo	Q "Software of waste IND Q EN managemen t" (Policies)								





DATA Centre components > Data Standard repository



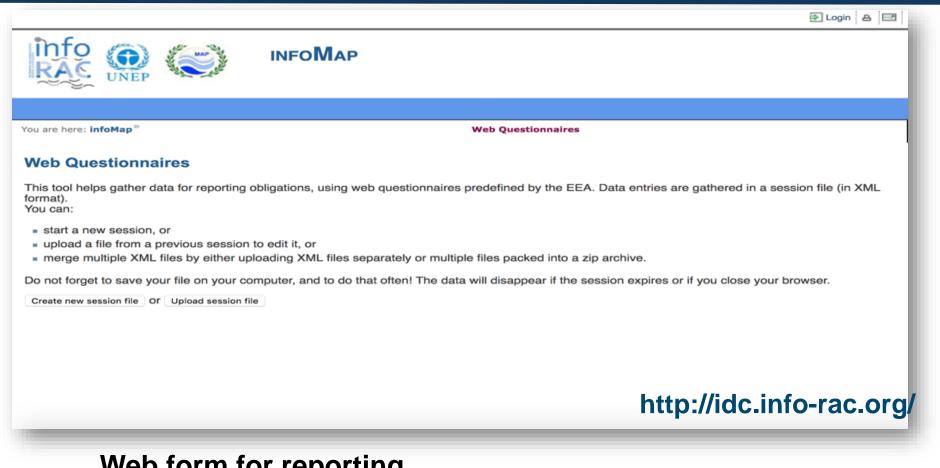
Data Dictionary (Data model Standard)



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

vironment Agency 🔶

DATA Centre components > Web Form



Web form for reporting



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. European Environment Agency



Reporting System Web form

🔁 Login 🛛 🖃



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 Of Upload session file	
Select questionnaire: Barcelona convention +	





Reporting System Web form

Web form for reporting

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
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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 Of Upload session file

My session files



Reporting System - Next Step (NBB Example)

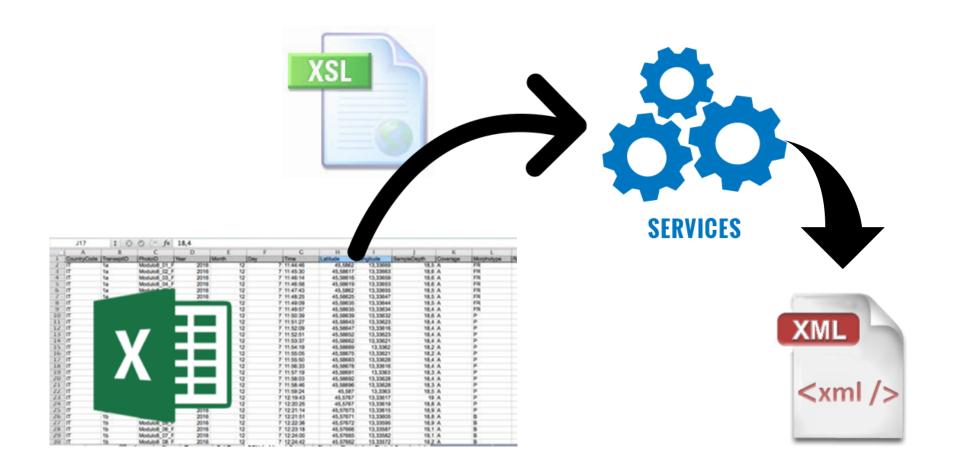
National Baseline Budget Report (NBB) NBB/PRTR component allows the Contracting Parties to submit the data related to national loads of pollutants discharged directly or indirectly into the Mediterranean Sea.	
Contracting Party	
IT	
Reporting period from D/M/Y	
gg/mm/aaaa	
Reporting period to D/M/Y	
gg/mm/aaaa	
Region	
Please select a region +	



User can start to fill the fields of Report



Reporting System Conversion Tools



There is the possibility to set-up a tool to transform National Template to Data flow Reporting XML/GML file





Roadmap to support the countries

From now to October 4°

Bilateral meeting (via webconference) interviews

Till end of October



272

Needs identification and possible solution webinar

From November to end of year



Implementation plan definition

Next year

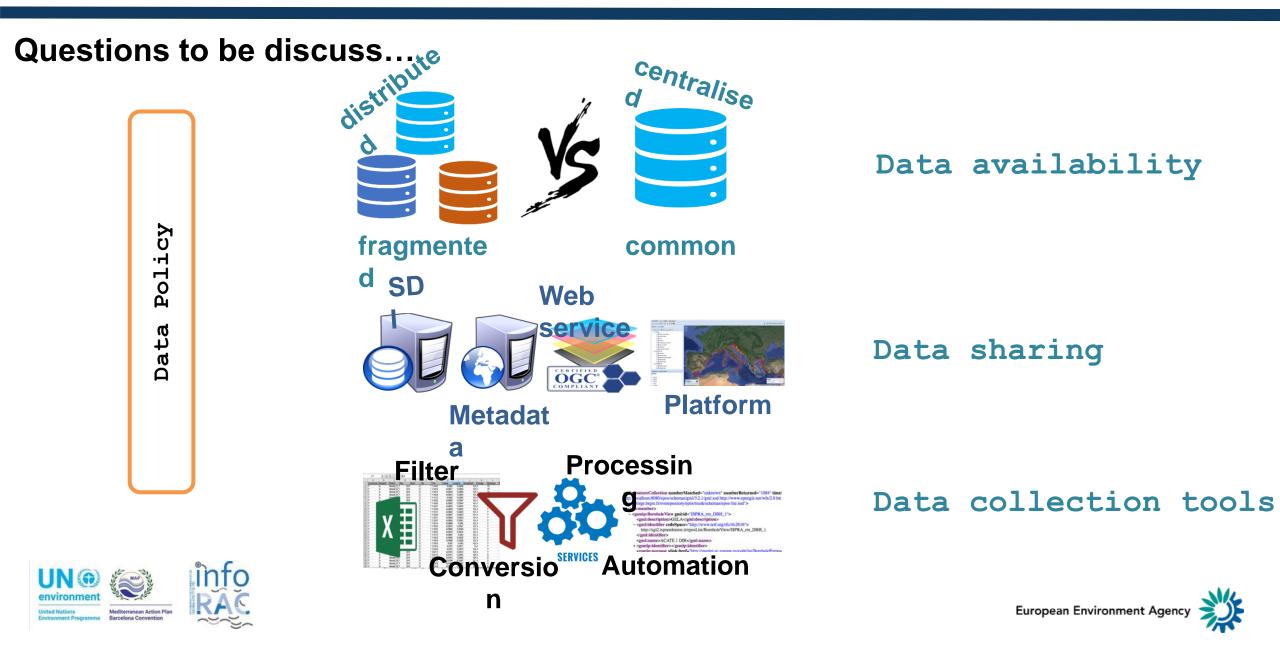


Implementation support and country visit and Regional workshop





Action Plan to support the countries



Thank you for the

Reference: <u>http://www.info-rac.org</u>

info@info-rac.org carlo.cipolloni@info-rac.org





