10th meeting of the Horizon 2020 Review and Monitoring (RM) Group and Assessment workshop

23-24 September 2019

Athens, Greece

Session 1: Reminder on assessment process and tools Application to the H2020 context

This project is funded by the European Union

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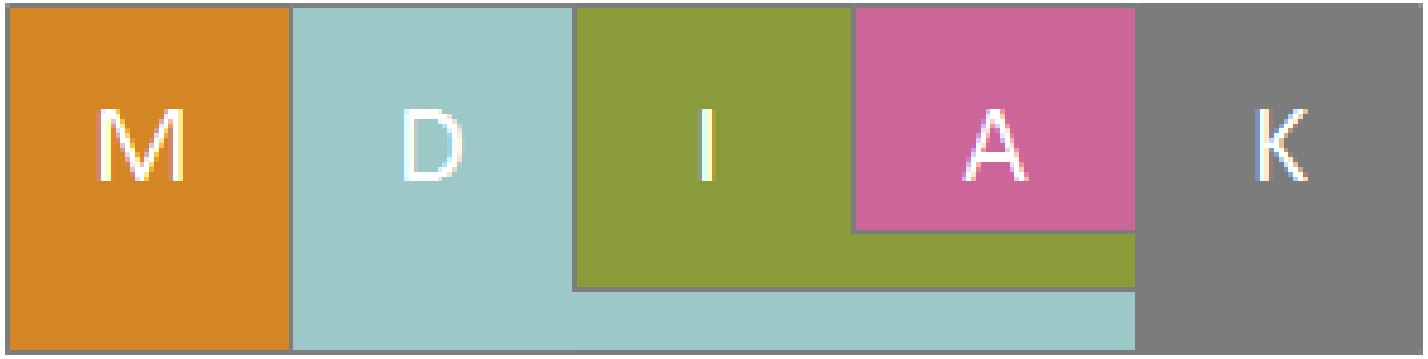
Content

1. MDIAK
   - Monitoring-Data-Indicators-Assessment-Knowledge Base
2. DPSIR
   - Drivers – Pressures – State – Impact –Response
3. Geographical level

Assessment process embedded in MDIAK chain



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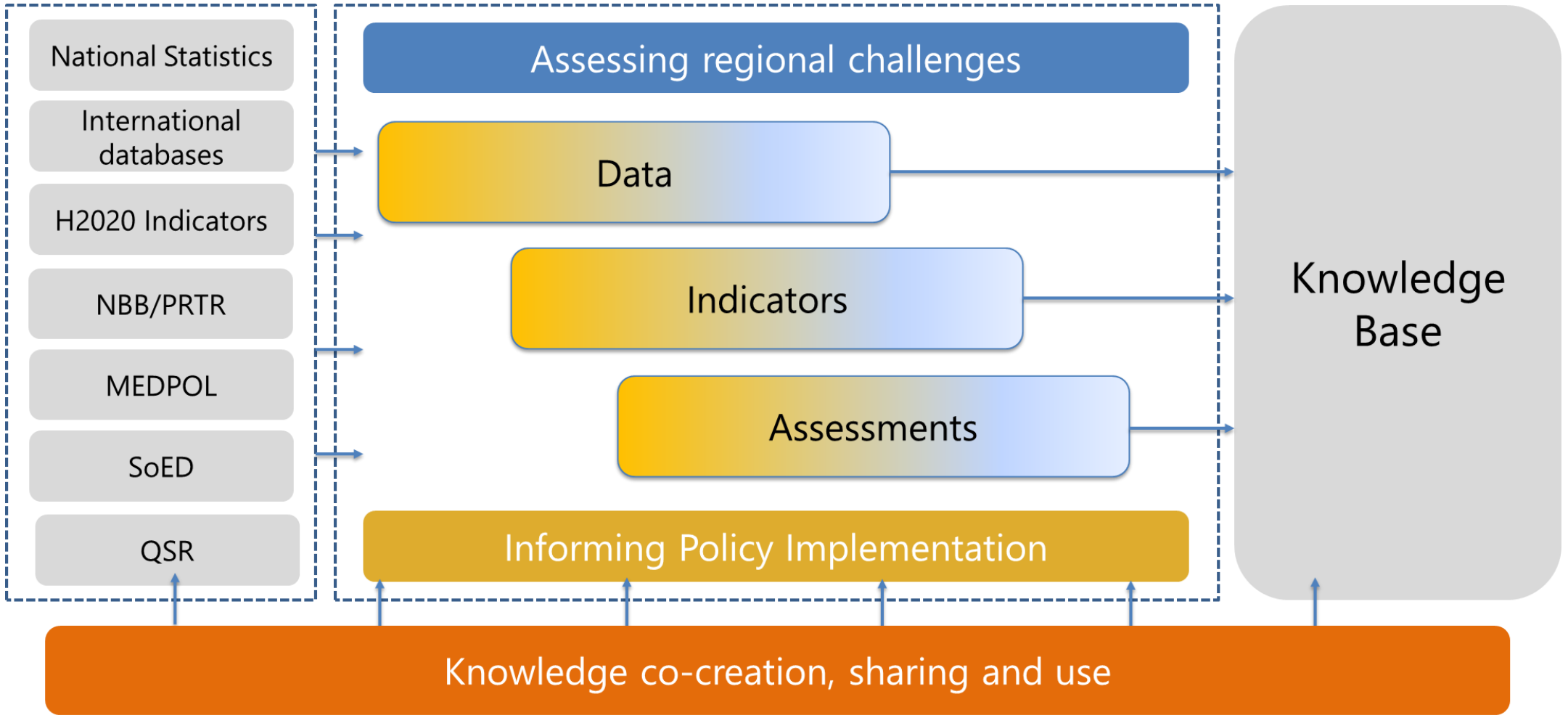
MDIAK *unfolded*



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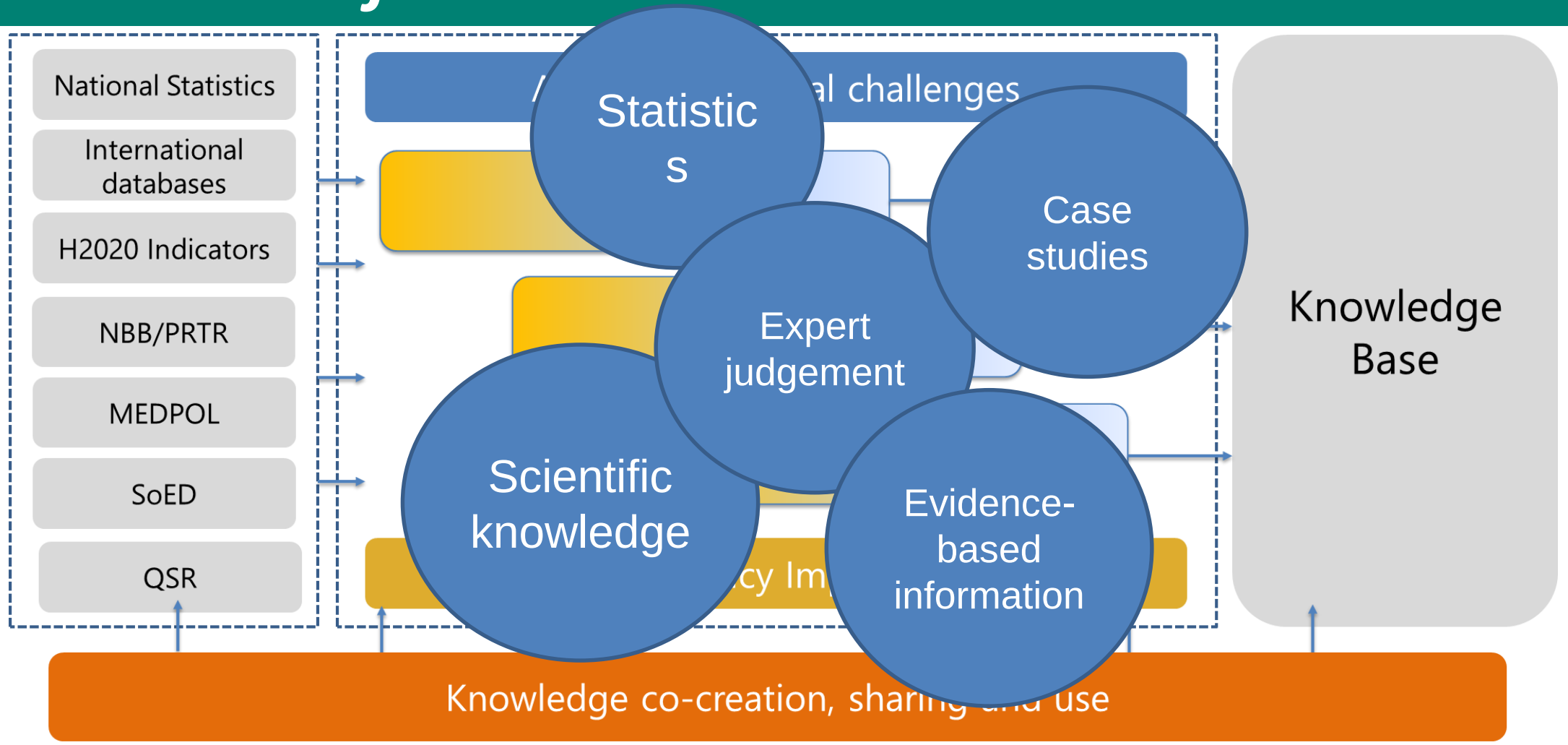
MDIAK *unfolded*



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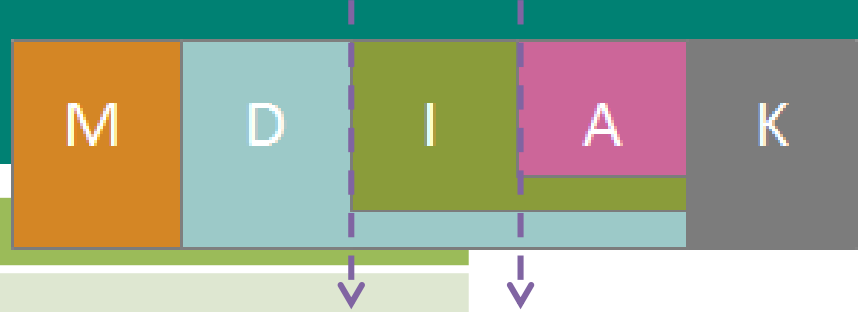
H2020/NAP Indicators - WASTE



	Theme	Sub-indicators
IND 1	**Municipal Waste Generation**	IND 1.A Municipal **waste composition**
		IND 1.B **Plastic** waste **generation** per capita
		IND 1.C % of **population** living in Coastal Areas
		IND 1.D % of **tourists** in Coastal Areas / Population in Coastal Areas
IND 2	**"Hardware" of waste management**	IND 2.A **Waste collection**
		IND 2.A.1 Waste collection coverage
		IND 2.A.2 Waste captured by the formal waste sector.
		IND 2.B **Environmental Control**
		IND 2.B.1 % of waste to uncontrolled **dumpsites**
		IND 2.B.2 Uncontrolled dumpsites in Coastal Areas
		IND 2.B.3 Waste going to dumpsites in Coastal Areas
		IND 2.C **Resource Recovery**
		IND 2.C.1 % of **plastic** waste generated that is **recycled**

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	Theme	Sub-indicators
IND Q	**“Software” of waste management** (15 Y/N Questions)	**3.Q.A MARINE LITTER & WASTE MANAGEMENT FRAMEWORK (6)** *Is there a National Assessment for ML and its impacts?* *Is there a National Plan or Strategy for ML?* *Is there a National Plan or Strategy for Waste Management?* *Is there a national plan or target to close the dumpsites before 2030?* **Q.B RESOURCE RECOVERY (5)** *Is there a National Plan or Strategy for Waste Prevention?* *Are there mandatory targets for recycling - recovery of packaging waste?* *Are there EPR or Deposit- Return schemes for packaging waste?* *Are there national policies to eliminate or reduce single-use plastics?* *Are there financial incentives for reuse – resource recovery activities?* **Q.C SUSTAINABLE CONSUMPTION AND PRODUCTION (4)** *Are there Sustainable Consumption and Production plans or strategies?* *Are there green procurement rules for the public sector in place?* *Are there policies to support sustainable tourism?* *Are there policies to support eco-labelling and eco-design?*

H2020/NAP Indicators- WATER

	Theme	Indicators	Sub-indicators (different geographical level)
IND 3	**Access to Sanitation**	IND 3.1 Share of total, urban and rural population with access to an **improved sanitation system (ISS)**	3.1.1 - Share of **national population** with access to an improved sanitation system (ISS)
			3.1.2 - Share of population in the **catchment/hydrological basin at the coastal area** with access to an improved sanitation system (ISS)
		IND 3.2 Proportion of population using **safely managed sanitation services (SMSS)**	3.2.1 - Proportion of **national population** using safely managed sanitation services (SMSS)
			3.2.2 - Proportion of **population in the catchment/ hydrological basin** at the coastal area using safely managed sanitation services (SMSS)
IND 4	**Municipal Wastewater Management**	IND 4.1 Municipal wastewater **collected** and wastewater **treated**	4.1.1 - Municipal wastewater collected and wastewater treated at the **national level**
			4.1.2 - Municipal wastewater collected and wastewater treated **per catchment/ hydrological basin at the coastal area**
		IND 4.2 **Direct use** of treated municipal wastewater	4.2 - Direct use of treated municipal wastewater at the **national level**
		IND 4.3 **Release of nutrients** from municipal effluents	4.3- Release of nutrients from municipal effluents **per catchment/ hydrological basin at the coastal area**
IND 5	**Coastal and Marine Water Quality**	IND 5.1 **Nutrient concentrations** in transitional, coastal and marine waters	5.1.1 - Nutrient concentrations in transitional, coastal and marine waters (Station)
			5.1.2 - Nutrient concentrations in transitional, coastal and marine waters (Parameters)
		IND 5.2 **Bathing Water Quality**	5.2 Bathing Water Quality

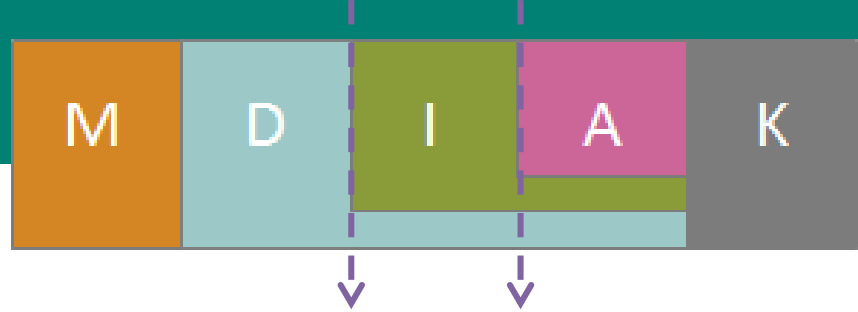
H2020/NAP Indicators- INDUSTRIAL EMISSIONS

	Indicator	Sub-indicators (different geographical level)
IND 6.1	**Release of nutrients from industrial sectors**	6.1.1 - **Total BOD load** discharged from industrial installations to the Mediterranean marine environment
		6.1.2 - **Total Nitrogen** load discharged from industrial installations to the Mediterranean marine environment
		6.1.3 - **Total phosphorus** load discharged from industrial installations to the Mediterranean marine environment
IND 6.2	**Release of toxic substances from industrial sectors**	6.2.1 -**Total heavy metals** load released from industrial installations to the Mediterranean marine environment
		6.2.2 - **Furans and dioxins** load released from industrial installations to the Mediterranean marine environment
		6.2.3 - **Polycyclic aromatic hydrocarbons (PAH)** load released from industrial installations to the Mediterranean marine environment
		6.2.4 - **Volatile organic compounds (VOC)** load released from industrial installations to the Mediterranean marine environment

H2020/NAP Indicators- INDUSTRIAL EMISSIONS

	Indicator	Sub-indicators (different geographical level)
IND 6.3	**Management of hazardous wastes from industrial sectors**	6.3.1 -Total quantity of **generated hazardous waste** from industrial installations
		6.3.2 - Quantity of **industrial hazardous waste disposed** in environmentally sound manner relative to total quantity of generated hazardous waste from industrial installations
IND 6.4	**Measures or initiatives taken for the reduction and/or elimination of the amount of hazardous wastes generated by industrial sectors**	6.4.1 -**Number of industrial installations** reporting periodically loads of pollutants discharged to the marine and coastal environments relative to the total number of industrial installations
		6.4.2 - Number of **environmental inspections** carried out by enforcement authorities in which industrial installations were found to be in breach of laws and regulations relative to the total number of executed
		6.4.3 -Number of **eliminated hotspots** identified in the updated NAPs relative to the 2001 and 2015 baselines

Indicator factsheets



Indicator factsheet

Indicator specification sheets

Indicator Assessment

- https://eni-seis.eionet.europa.eu/south/areas-of-work/indicators-and-assessment
- Guidance document on WATER assessment

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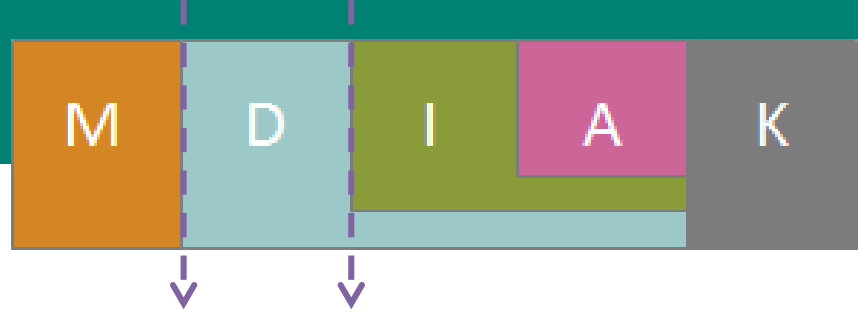
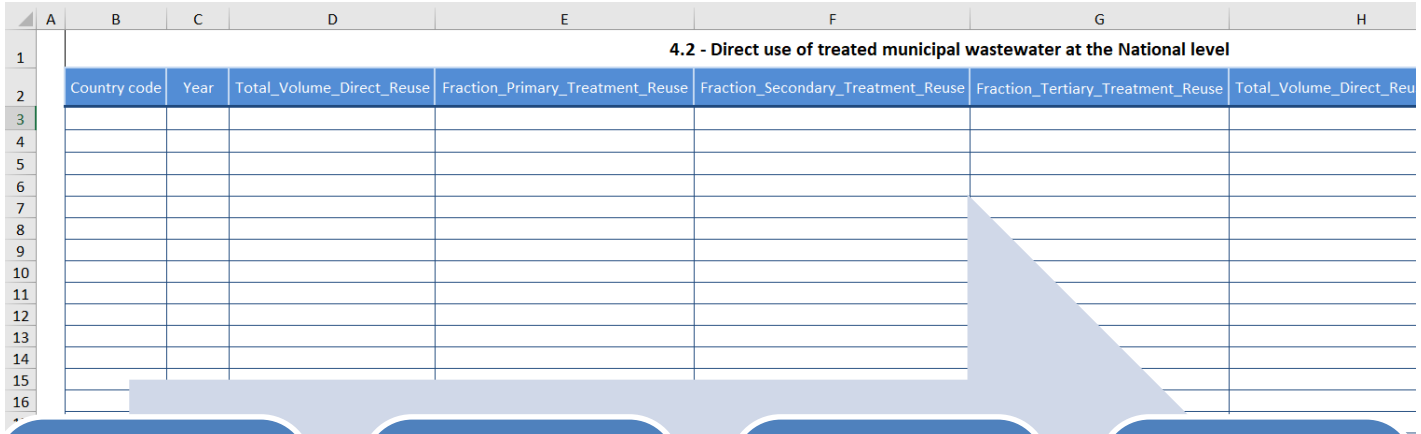
Data

Data table 1: Share of national population with access to an improved sanitation system (ISS)

	Column name	Column definition	Methodology	Data specifications	Equivalent in WISE if exist
1.	Country_Code	Country codes as defined in the codelist.	ISO 3166-alpha-2, Codes elements as defined in codelist: i	Type of element: common Datatype: string Size: 2	
2.	Year_H2020	Year for which data is available	Use the format YYYY	Type of element: common Datatype: date Min. size: 4 Max. size: 4 Min. value: 2003 Max. value: Current year	
3.	Total_Population	Total population	See Table D		
4.	Urban_Population	Urban population	See Table D		
5.	Rural_Population	Rural population	See Table D		
6.	Total_Population_ISS	Total national population with access to Improved Sanitation Systems (ISS)	Total population with access to improved sanitation system refers to the population with access to facilities which hygienically separate human excreta from human, animal and insect contact.	Type of element: non-common Datatype: integer Unit: inhabitants Min. size: 1 Max. size: 10 Min. value: 1 Max. value: 1000 000 000	
7.	Urban_Population_ISS	National population living in urban areas with access to Improved Sanitation Systems (ISS)	Urban population with access to improved sanitation system refers to the population with access to facilities which hygienically separate human excreta from human, animal and insect contact.	Type of element: non-common Datatype: integer Unit: inhabitants Min. size: 1 Max. size: 10 Min. value: 1 Max. value: 1000 000 000	
8.	Rural_Population_ISS	National population living in rural areas with access to Improved Sanitation Systems (ISS)	Rural population with access to improved sanitation refers to the population with access to facilities which hygienically separate human excreta from human, animal and insect contact.	Type of element: non-common Datatype: integer Unit: inhabitants Min. size: 1 Max. size: 10 Min. value: 1 Max. value: 1000 000 000	
9.	Data_Collection_Method	Method of data collection.	Codes elements as defined in codelist	Type of element: common	





4.2 - Direct use of treated municipal wastewater at the National level

Country code	Year	Total_Volume_Direct_Reuse	Fraction_Primary_Treatment_Reuse	Fraction_Secondary_Treatment_Reuse	Fraction_Tertiary_Treatment_Reuse	Total_Volume_Direct_Reu

Data description document

Data dictionary

Data tables

Data call (launched in December 2018)

InfoMAP central service for storing technical specifications for information requested

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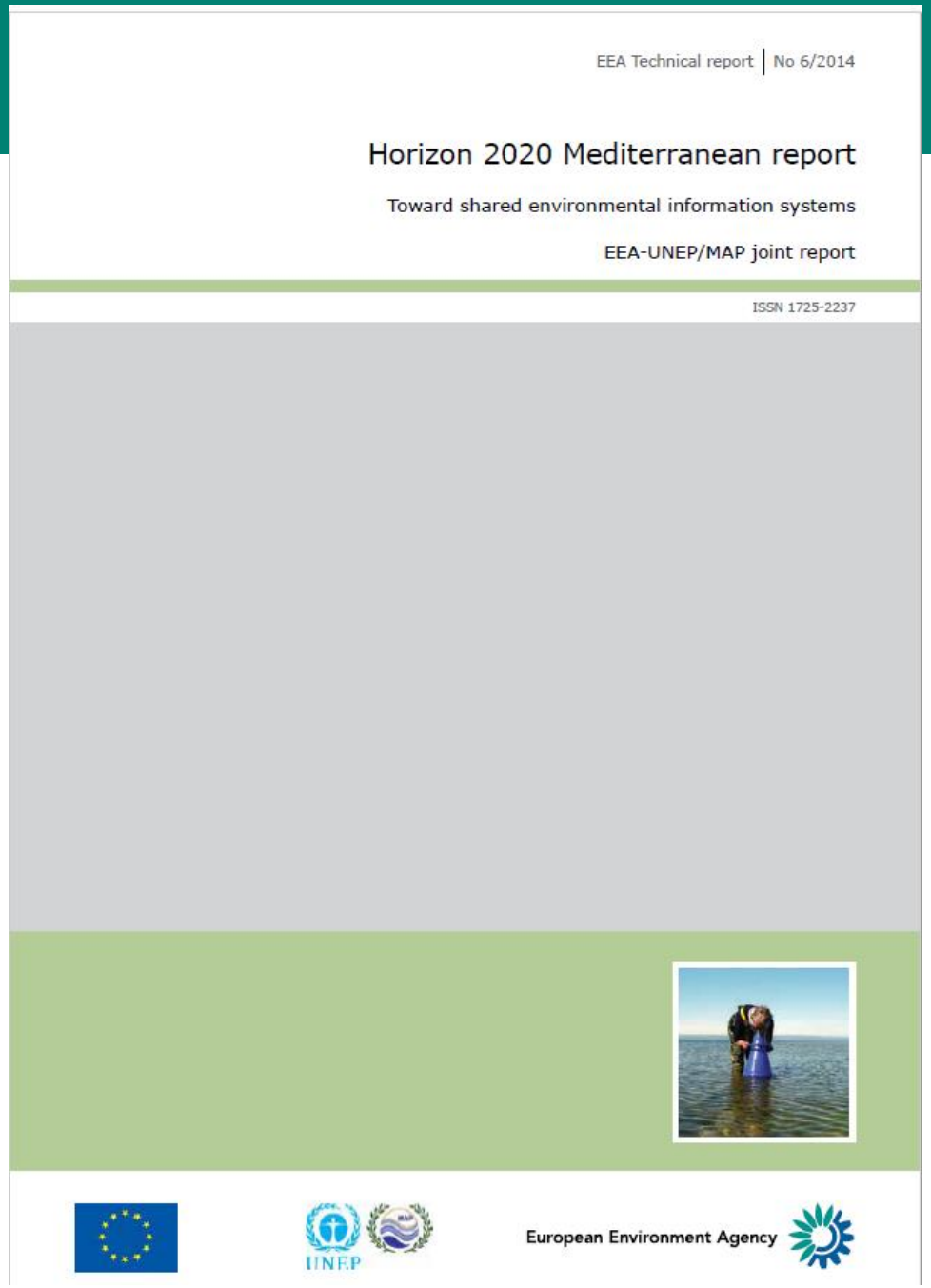
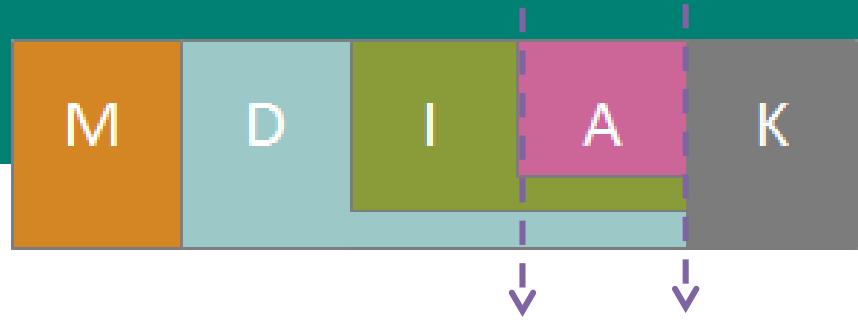

EEA Technical report | No 6/2014
Horizon 2020 Mediterranean report
Toward shared environmental information systems
EEA-UNEP/MAP joint report
ISSN 1725-2237
UNEP
European Environment Agency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2019 Assessment building blocks

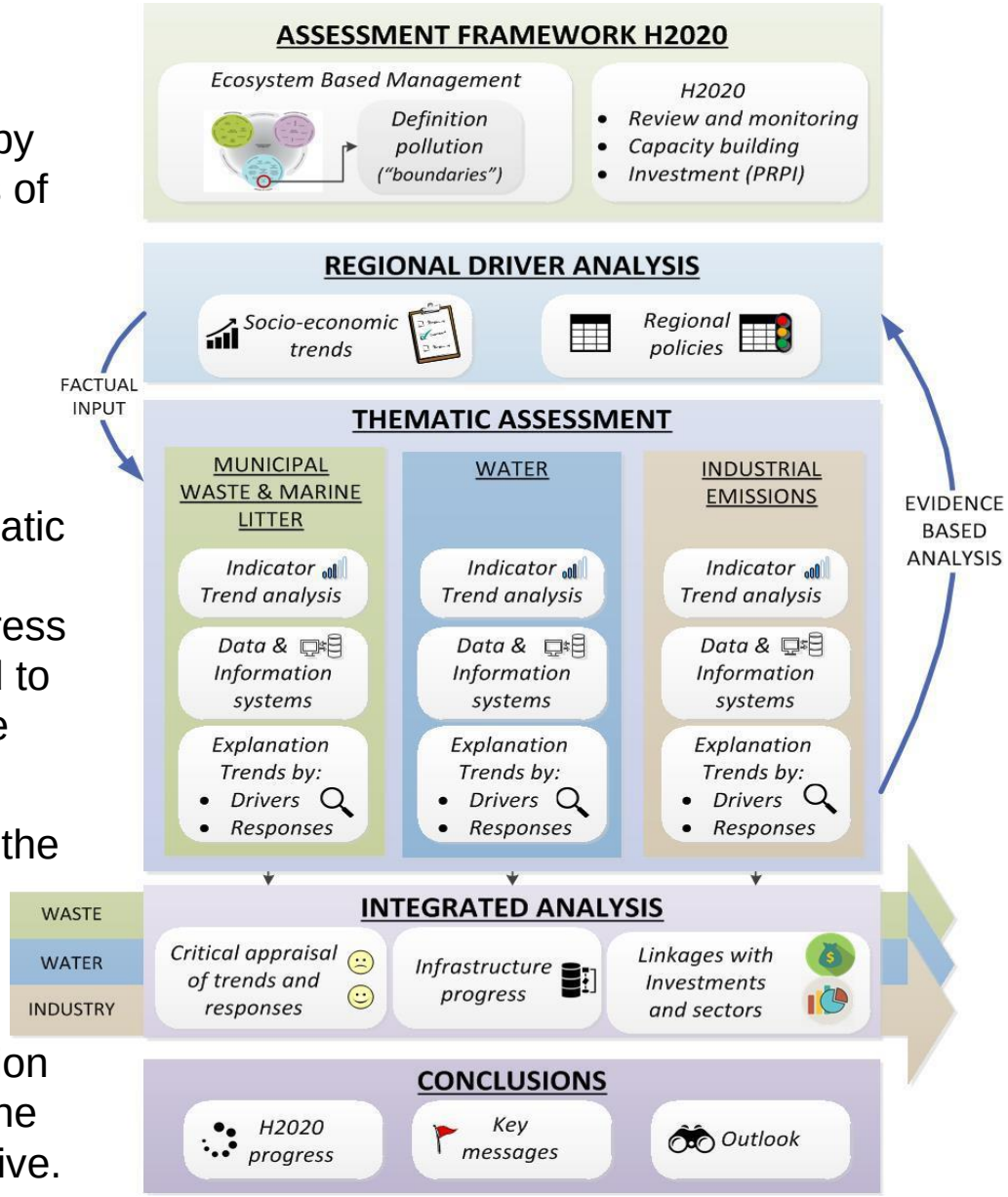
Chapter 1 introduces the overarching concept of Ecosystem Based Management (EBM) and its relevance for a holistic systematic approach. It explains which components of EBM are covered by the H2020 assessment framework, delineating the boundaries of the pollution definition.

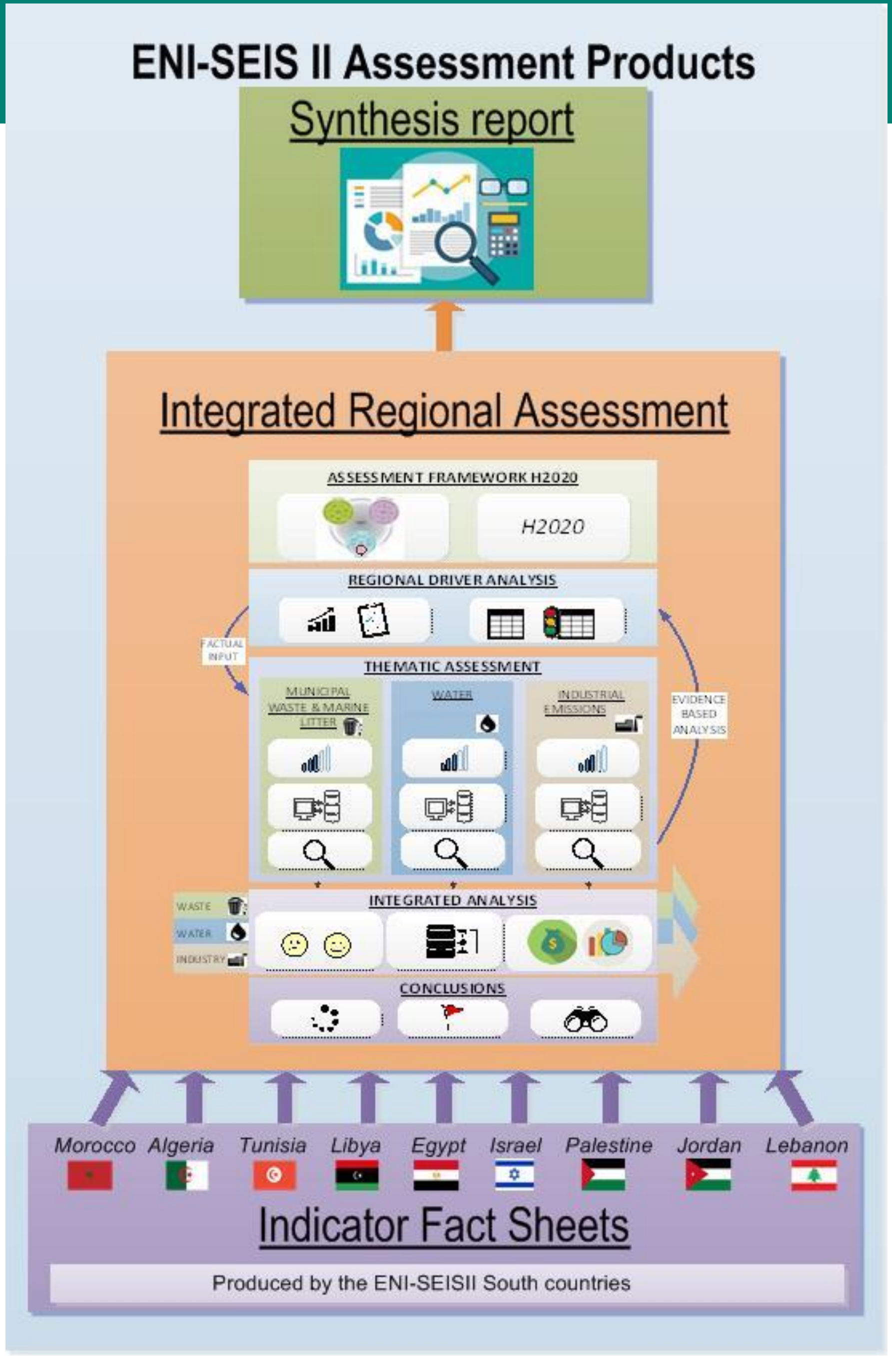
Chapter 2 provides is an analysis of the regional drivers behind the pressures of pollution. Socio-economic trends and regional policies related to the three priority areas are discussed and analysed in view of the key pressures considered.

Chapter3 ..the core of the assessment, composed of three parallel thematic assessments on municipal waste & marine litter, water and industrial emissions. In this chapter, indicator trends, the progress on data and information in the region and uncertainties related to the indicators are provided, together with an explanation of the findings in light of the responses and drivers.

Chapter 4 …provides an integrated, cross-cutting analysis of pollution in the Mediterranean, with a critical appraisal of responses including investments (sectorial, capacities, infrastructure, data infrastructure etc).

Chapter 5 provides the key messages on the progress of reducing pollution in the Mediterranean, reflecting on the current approach and the capacities and needs in view of Post 2020 UfM Strategy/initiative.





1. ***National Indicator Fact Sheets:*** developed by the ENI SEIS South countries with the support of technical assistance provided as part of the Small Scale Funding Agreements (SSFAs), describing the national situation with respect to the H2020 indicators, in line with the Indicator Specification sheets and the guidance on indicator assessment;
2. ***Integrated Regional Assessment:*** based on wider integrated assessment addressing the three priority areas of H2020 and progress towards reduction of the key sources of pollution, in particular to the H2020 Initiative and contribution to such achievements;
3. ***Synthesis report:*** including infographics with key messages from the regional assessment, achievements, lessons learned and main recommendations

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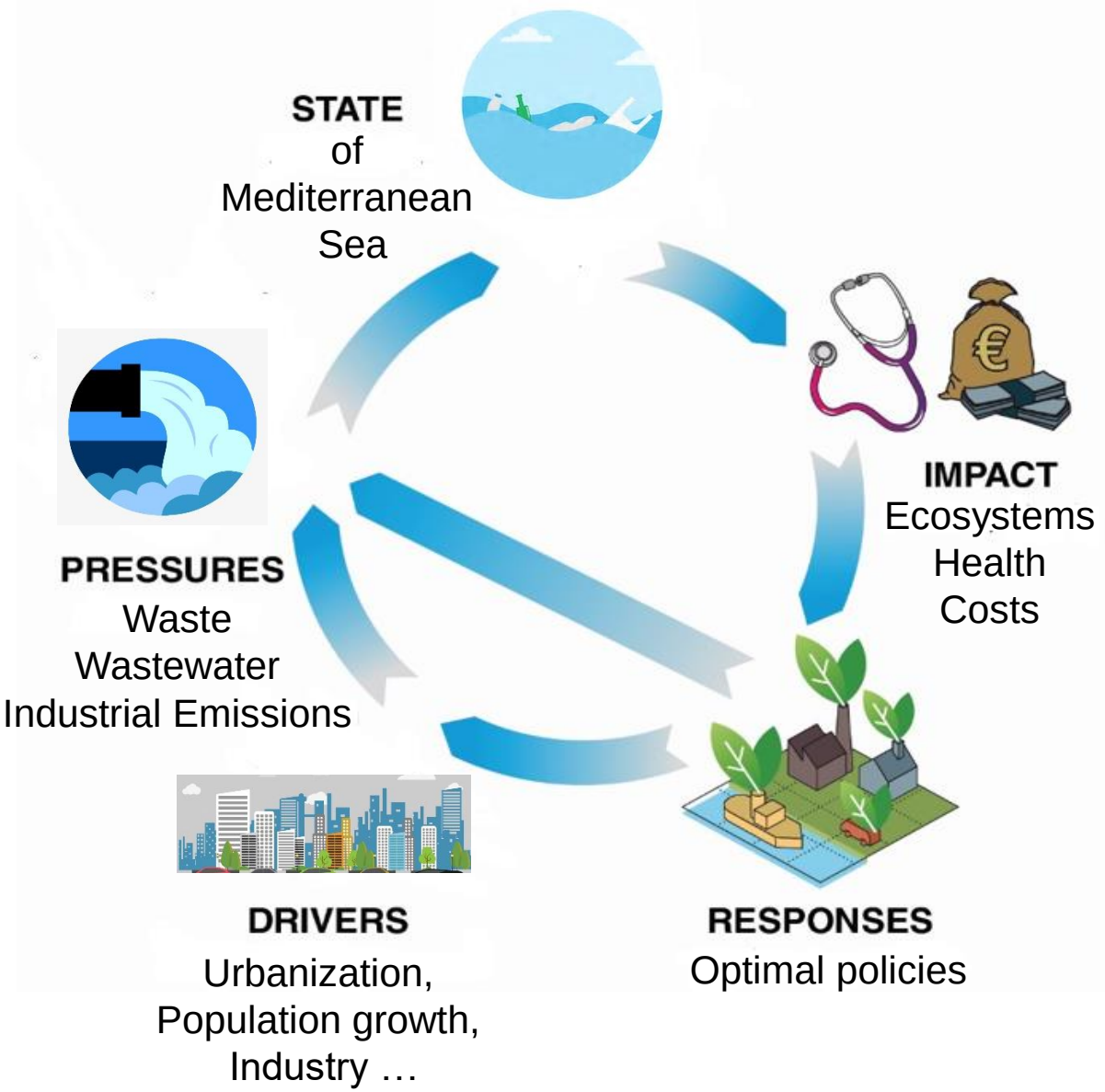
Analytical framework based on DPSIR



Analytical framework for thematic assessment based on DPSIR:

- H2020/NAP indicators
- Guidance for assessment
- Assessment outline

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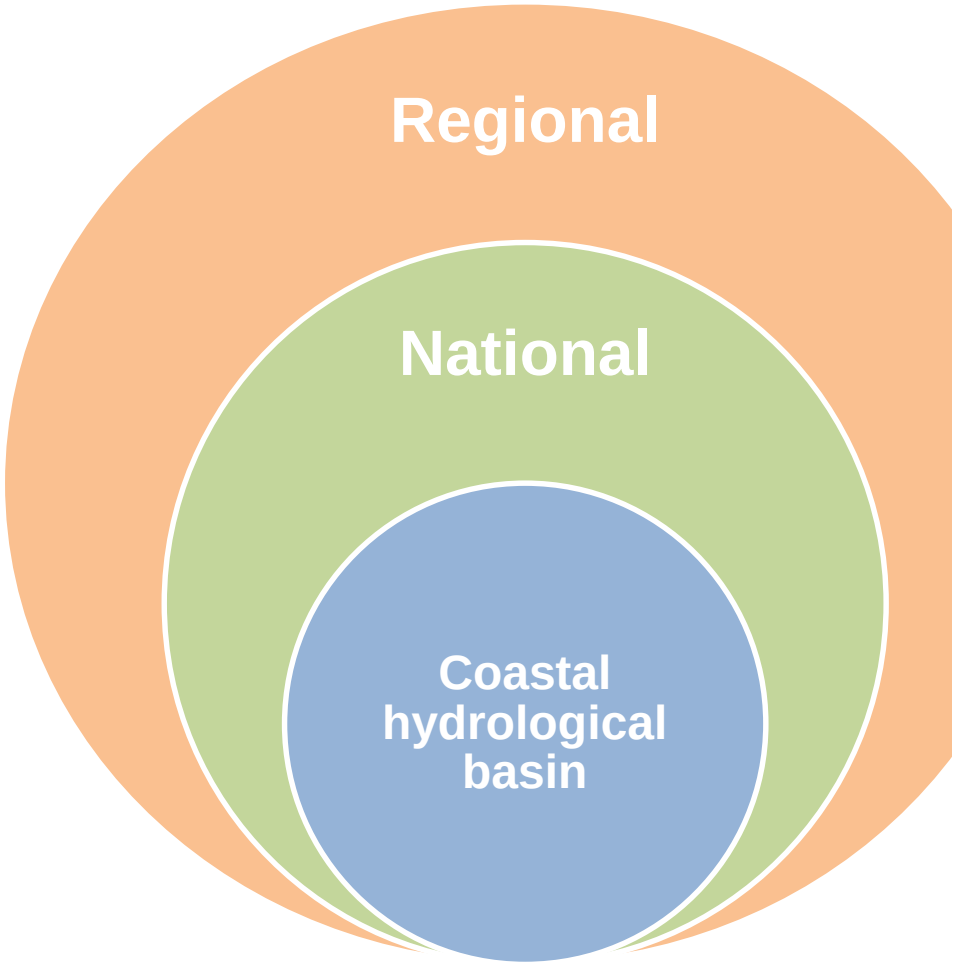
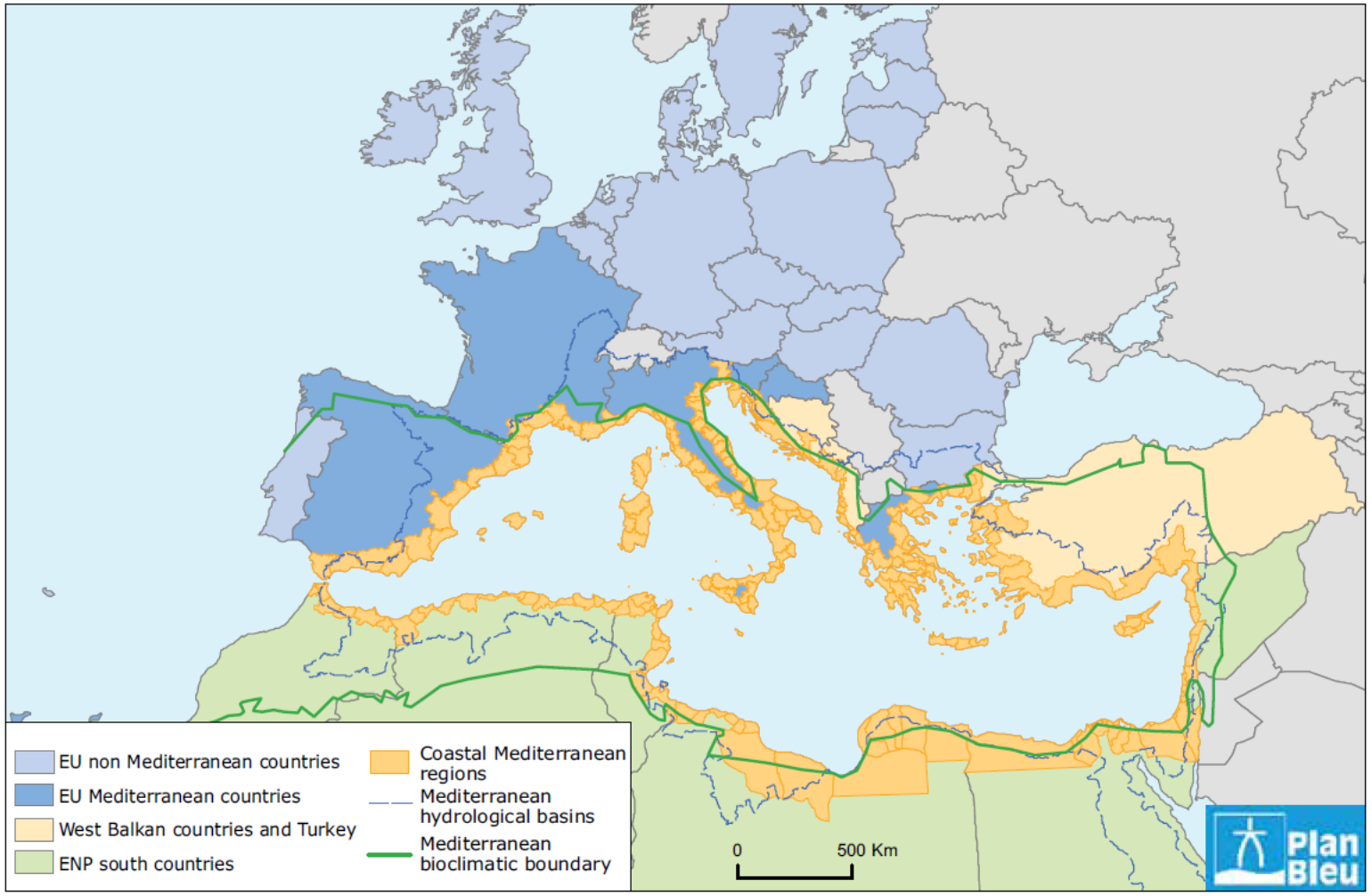
DSPIR: WASTE indicators

	Title of indicator	Sub-indicators	
IND 1	**Municipal Waste Generation**	IND 1.A Municipal **waste composition**	PRESSSURE
		IND 1.B **Plastic** waste **generation** per capita	
		IND 1.C % of **population** living in Coastal Areas	DRIVER
		IND 1.D % of **Tourists** in Coastal Areas / Population in Coastal Areas	
IND 2	**"Hardware" of waste management**	IND 2.A **Waste collection**	RESPONSE
		IND 2.A.1 Waste collection coverage	
		IND 2.A.2 Waste captured by the formal waste sector.	
		IND 2.B **Environmental Control**	PRESSSURE
		IND 2.B.1 % of waste to uncontrolled **dumpsites**	
		IND 2.B.2 Uncontrolled dumpsites in Coastal Areas	
		IND 2.B.3 Waste going to dumpsites in Coastal Areas	
		IND 2.C **Resource Recovery**	RESPONSE
		IND 2.C.1 % of **plastic** waste generated that is **recycled**.	

Geographical levels





Source: Plan Bleu, 2014.

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