WASTE DATA DICTIONARIES

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September 13, 2018
Rev: 11.01.2019
Rev 2: 19.06.2019
Version 1.3.1

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DATA DESCRIPTION DOCUMENT

Version 1.3
Date : 13.09.2018
Revision 11.01.2019
Revision 2: 19.06.2019

1. Introduction

This document provides a description of the data sets required for calculating the selected Horizon 2020 Waste Management Indicators (see Annex 1), thereby referred to as "Data Description Document". It will feed into the Data Dictionary of the Info-RAC system - a central service for storing technical specifications for information requested in reporting, with the purpose of supporting countries in reporting good quality data.

2. Overview of H2020/NAP Waste Management Indicators

No.	Title of indicator	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 Time of Tourist visitors 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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IND Q[1]	"Software" of waste management	3.Q.A MARINE LITTER & WASTE MANAGEMENT FRAMEWORK
		IND Q.A.1 Is there a National Assessment for ML and its impacts?
		IND Q.A.2 Is there a National Plan or Strategy for ML?
		IND Q.A.3 Is there a National Plan or Strategy for Waste Management?
		IND Q.A.4 Is there a National Law on Waste?
		IND Q.A.5 Is there a national plan or target to close the dumpsites before 2030?
		IND Q.A.6 Is there a National Information system for waste management in place?
		Q.B RESOURCE RECOVERY
		IND Q.B.1 Is there a National Plan or Strategy for Waste Prevention?
		IND Q.B.2 Are there mandatory targets for recycling - recovery of packaging waste?
		IND Q.B.3 Are there EPR or Deposit- Return schemes for packaging waste?
		IND Q.B.4 Are there national policies to eliminate or reduce single-use plastics?
		IND Q.B.5 Are there financial incentives for reuse – resource recovery activities?
		Q.C SUSTAINABLE CONSUMPTION AND PRODUCTION
		IND Q.C.1 Are there Sustainable Consumption and Production plans or strategies?
		IND Q.C.2 Are there green procurement rules for the public sector in place?
		IND Q.C.3 Are there policies to support sustainable tourism?
		IND Q.C.4 Are there policies to support eco-labelling and eco-design?

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[1] The meeting decided to change the name of this indictor as IND Q(uestion) due to identical name with Indicator 3 (Assess to Sanitation). For further details please refer to the Report of the Meeting (1st Workshop on Data and Infrastructure, 04-05 October 2018, Rome)

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3. Description of Indicators

IND 1: Municipal Waste Generation Dataset definition

Sub-indicators	IND 1.A Municipal waste composition; IND 1.B Plastic waste generation per capita; IND 1.B Plastic waste generation per capita; IND 1.C % of population living in Coastal Areas; IND 1.C % of population living in Coastal Areas; IND 1.C % of population living in Coastal Areas;
Key words	Solid waste, municipal solid waste, plastic waste,
Spatial coverage	National level and coastal administrative regions of Mediterranean Sea watershed as defined in section 3.1 of the "Updated guidelines to assess national budget of pollutants (NBB)" [UNEP(DEPI)/MED WG. 404/4].
Dataset relevance	This indicator and its sub-indicators are describing the pressure and the drivers for ML. The indicator was already in use in H2020, as well as in several other relevant documents. More specifically, the waste quantity on a national level is somehow representative of the pressure on a national level.
Parameters	Tons per year (on the geographical scale defined) Kg/cap/year (on the geographical scale defined
Methodology for obtaining data	Delivered by country
Planned update frequency	Every 1 years

Overview of data tables

Data table	Name	Definition	Short description
1.	Municipal Waste Generation	Municipal Solid Waste (MSW) generated per year. MSW is generated by households, and wastes of a similar nature generated by commercial and industrial premises, by institutions such as schools, hospitals, care homes and prisons, and from public spaces such as streets, markets, slaughter houses,	Tons/year or Kg/cap/year Country level Total population Total MSW

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		public toilets, bus stops, parks, and gardens' (see UN-Habitat2)	
1.A	Municipal Solid Waste Composition	Summary w/w% composition of MSW as generated. Data points used for 5 key fractions – all as % wt. of total MSW generated as follows: Organic, Plastic, Paper, Metal, Rest	w/w % on wet basis Country-level Organic % Plastic % Paper % Metal % Rest %
1.B	Plastic waste generation per capita	Average annual plastic waste generation per capita. The plastic waste fraction includes mostly packaging wastes, such as PET, PVC, polypropylene, high and low density polyethylene (HDPE/LDPE) and polystyrene.	Kg/cap/year Country level Total population Total MSW (IND 1) Plastic % (IND 1.A)
1.C	% of population in Coastal Areas / Total Population	Percentage of population living in coastal areas to total population	% of population Country level Total Population Population in Coastal Area
1.D	% of Tourists in Coastal Areas / Population in Coastal Areas	Percentage of Tourists in Coastal Areas to Population in Coastal Areas	% of population in Coastal Area; Population in coastal area; Tourists in Coastal Area.

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[2] http://www.waste.nl/sites/waste.nl/files/product/files/swm_in_world_cities_2010.pdf. (page 6).

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Data table 1: Total municipal solid waste (MSW) generation on a specific geographical level

	Column name	Column definition	Methodology	Data specifications	Remark/ 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: integer Size: 3	
2	Administrative _Region	The indicator will be reported at national level (optionally all administrative regions).	Calculated in national level. List of regions from NBB info system given in Codelist iv	Type of element: common Datatype: integer Min. size: 3 Max. size: 4	**Optional**, it is advised to calculate in national level
3	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	
4.	MSW_Gen	Quantity of municipal solid waste generated (tonnes/year)	Calculated by aggregating the waste generated in Administrative _Region Calculated in national level	Type of element: common Datatype: decimal Decimal precision: 2 Unit: metric tonnes per year Min. size: 3 Max. size: 10	Optional: Option 1

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				Min. value: 0.01 Max. value: 10,000,000.00	
		Quantity of municipal solid waste generated (tonnes/year)	Estimated by kg per capita per reference Year_H2020 optionally per reference Administrative _Region	Type of element: common Datatype: decimal Decimal precision: 2 Unit: metric tonnes per year Min. size: 3 Max. size: 10 Min. value: 0.01 Max. value: 10,000,000.00	Optional: Option 2
5.	Data_Collection_Method	Method of data collection	Codes elements as defined in Codelist ii	Type of element: common Datatype: integer Size: 3	Assessments from the waste collection system in regional or and national level; Records from the local/national waste transfers, treatment and disposal facilities; (landfills) Assessments

				based on the population using **proper waste generation rates**
6.	Remarks	Remarks, comments or explanatory notes (free text)		Type of element: common Datatype: blob Max. size: 4096	

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Data table 1A: Municipal Solid Waste Composition

	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: integer Size: 3	
2.	Administrative_Region	The indicator will be reported at national level (optionally all administrative regions).	Calculated in national level. List of regions from NBB info system given in Codelist iv	Type of element: common Datatype: integer Min. size: 3 Max. size: 4	**Optional**, it is advised to calculate in national level
3.	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	
4.	Frc_ID	Fraction ID of MSW	Fraction ID of MSW according to codelist (iii): "Codelist of MSW Fractions "	Type of element: common Datatype: integer Size: 3	
5.	Frc _MSW_Composition	Summery composition of MSW as generated.	Municipal waste composition fractions in percentage (w/w % on wet basis) according to Codelist iii	Type of element: common Datatype: decimal Decimal precision: 2	

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			Calculated at national level	Unit: percentage of ratio metric tonnes per year Min. size: 3 Max. size: 5 Min. value: 0.01 Max. value: 100.00	
6.	Data_Collection_Method	Method of data collection	Codes elements as defined in Codelist ii	Type of element: common Datatype: integer Size: 3	Assessments from the waste collection system in regional or and national level; Records from the local/national waste transfers, treatment and disposal facilities; (landfills) Country ; for calculation, Option 1 or for estimation Option 2
7.	Remarks	Remarks, comments or explanatory notes (free text)		Type of element: common Datatype: blob Max. size: 4096	

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Data table 1B: Plastic waste generation per capita

	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: integer Size: 3	
2.	Administrative_Region	The indicator will be reported at national level (optionally all administrative regions).	Calculated in national level. List of regions from NBB info system given in Codelist iv	Type of element: common Datatype: integer Min. size: 3 Max. size: 4	**Optional**, it is advised to calculate in national level
3.	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	
4.	Frc_Plastic_MSW	Plastic fraction generated per capita Refer to Frc_ID:2 Codelist III.	Two way of calculation methods, 1- if the waste quantities (w/w % of plastic and the population (N) are known and calculated. Frc_Plastic_MSW/Capita=1000*(WxP)/N (in kg/year) 2- If the waste has been	Type of element: common Datatype: decimal Decimal precision: 2 Unit: percentage of ratio metric tonnes per year Min. size: 3 Max. size: 5	Two options for calculation.

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			calculated using special waste generation rates per capita (SR in kg/year) and composition is known (P the w/w % of plastics) then Frc_Plastic_MSW/Capita=SR*P (in kg/year) For plastic definition please refer to Codelist iii Calculated in national level	Min. value: 0.01 Max. value: 100.00	
5.	Data_Collection_Method	Method of data collection	Codes elements as defined in Codelist ii	Type of element: common Datatype: integer Size: 3	
6.	Remarks	Remarks, comments or explanatory notes (free text)		Type of element: common Datatype: blob Max. size: 4096	

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Data table 1.C: % of population in Coastal Areas / Total Population

	Column name	Column definition	Methodology	Data specifications	Remark/ 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: integer Size: 3	
2.	Administrative_Region_Coastal	Administrative regions which are adjacent to coastline.	List of regions from NBB info system given in Codelist iv Select the administrative regions, which are within 100 km buffer zone.	Type of element: common Datatype: integer Min. size: 3 Max. size: 4	
3.	Total_Pop_Coast_Buffer_Zone	Population in coastal areas, according the recent UN work on SDGs, is the population living within 100 km of the coastline[3].	Select the urban and rural populations, which are within 100 km buffer zone in the coastal region in Codelist iv.	Type of element: non-common Datatype: integer Unit: inhabitants Min. size: 1 Max. size: 10 Min. value: 1 Max. value: 1000 000 000	The minimum requirement should be all cities within the buffer zone (100 km). This needs to be indicated in the remarks (Row 7)
5.	Total_Population	Total population	The population as of the reference year (Year_H2020)	Type of element: non-common Datatype: integer	

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[3] http://www.un.org/esa/sustdev/natlinfo/indicators/methodology_sheets/oceans_seas_coasts/pop_coastal_areas.pdf

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				Unit: inhabitants Min. size: 1 Max. size: 10 Min. value: 1 Max. value: 1000 000 000	
5.	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	
6.	Data_Collection_Method	Method of data collection	Codes elements as defined in Codelist ii	Type of element: common Datatype: integer Size: 3	UNSD or national data
7.	Remarks	Remarks, comments or explanatory notes (free text)		Type of element: common Datatype: blob Max. size: 4096	

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Data table 1.D: "*% of Time of Tourist visitors in Coastal Areas / Population in Coastal Areas*

	Column name	Column definition	Methodology	Data specifications	Remark/ 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: integer Size: 3	
2.	Administrative_Region_Coastal	Administrative regions which are adjacent to the coastline.	List of regions from NBB info system given in Codelist iv	Type of element: common Datatype: integer Min. size: 3 Max. size: 4	
3.	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	
4.	% of time of tourist stays overnight in Costal area	Number of tourist overnight stays the administrative regions per Year_H2020	Tourists and visitors are defined according the UN World Tourism Organization[4] "Tourism	Type of element: common Datatype: integer	

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[4] SeeUN, Department of Economic and Social Affairs Statistics Division International Recommendations for Tourism Statistics 2008, https://unstats.un.org/unsd/publication/Seriesm/SeriesM_83rev1e.pdf#page=21

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			comprises the activities of persons travelling to and staying in places outside their usual environment for not more than one consecutive year for leisure, business and other purposes not related to the exercise of an activity remunerated from within the place visited." Equivalent of a single permanent resident: The residential population has been thought to stay the whole year within the area, 365 days (the number of days taken for holiday by the residential population assumes covers up the seasonal population who is not included in the overnight stays statistics). Thus, the equivalent of one permanent resident is equal with 365 overnight stays[5]	Unit: days per year Min. size: 1 Max. size: 3 Min. value: 1 Max. value: 365	
5.	Data_Collection_Method	Method of data collection	Codes elements as defined in Codelist ii	Type of element: common Datatype: integer	National statistical data. The visiting

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[5] EU, EUROSTAT, Methodological work of measuring the sustainable development of tourism, Part 2: Manual of sustainable development indicators of tourism, 2006. https://ec.europa.eu/eurostat/documents/3888793/5834249/KS-DE-06-002-EN.PDF/178f8c9a-4a03-409c-b020-70ff7ef6803a

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				Size: 3	tourist number can be obtained by ministry of tourism, local municipalities, hotels and statistical offices
6.	Remarks	Remarks, comments or explanatory notes (free text)		Type of element: common Datatype: blob Max. size: 4096	

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IND 2: "HARDWARE" OF WASTE MANAGEMENT

Dataset definition

Sub-indicators	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

Key words	Municipal Solid waste, waste collection, landfills, recycling
Spatial coverage	National level and coastal administrative regions of Mediterranean Sea watershed as defined in section 3.1 of the "Updated guidelines to assess national budget of pollutants (NBB)" [UNEP(DEPI)/MED WG. 404/4].
Dataset relevance	This indicator and its sub-indicators are describing the pressure and the drivers for ML. The indicator was already in use in H2020, as well as in several other relevant documents. More specifically, the waste quantity on a national level is somehow representative of the pressure on a national level.
Parameters	Tons per year (on the geographical scale defined) Kg/cap/year (on the geographical scale defined)
Methodology for obtaining data	Delivered by country
Planned update frequency	Every 2 years

Overview of data tables

Data table	Name	Definition	Short description
IND 2.A.	Waste Collection	A 'collection service' may be 'door to door' or by deposit into a community container. 'Collection' includes collection for recycling as well as for treatment and disposal (so includes e.g. collection of recyclables by itinerant waste buyers). 'Reliable' means regular - frequency will	Population Population covered by regular collection services (Wcc)

Data table	Name	Definition	Short description
		depend on local conditions and on any preparation of the waste. For example, both mixed waste and organic waste are often collected daily in tropical climates for public health reasons, and generally at least weekly; source-separated dry recyclables may be collected less frequently. **2.A.1: Waste Collection Coverage:** Percentage of the population of the country that is covered by a regular collection service organized either by public authorities or private companies. The indicator includes both formal municipal and informal sector services. **2.A.2: Waste captured by the system:** Percentage of waste generated that is actually handled completely by the formal waste management and recycling system, thus the waste that is not lost through illegal burning, burying or dumping in unofficial areas.	Wf = Waste captured by the formal waste sector W = Total waste generated (IND1)
IND 2. B.	**Environmental Control**	Percentage of the total municipal solid waste destined for treatment or disposal in either a state- of-the-art, engineered facility or a 'controlled' treatment or disposal site. **2.B.1: Waste that goes to dumpsites** Percentage of waste that goes to dumpsites. **2.B.2: Dumpsites in Coastal Areas** Number of dumpsites in Coastal Areas **2.B.3: Waste that goes to dumpsites in Coastal Areas.**	Wf = Waste captured by the formal waste sectors (Wf=Wr+Wu). W = Total waste generated Wr = Recycled and reused waste Wu = Waste delivered to dumpsites.

Data table	Name	Definition	Short description
		Percentage of waste that goes to dumpsites in Coastal Areas	
IND 2.C	Resource Recovery	Percentage of total municipal solid waste generated that is recycled. It includes both materials recycling and organics valorisation/recycling (composting, animal feed, anaerobic digestion). **2.C.1: Plastic waste that is recycled** Percentage of total plastic municipal solid waste generated that is recycled. It includes materials recycling only.	Wf = Waste captured by the formal waste sector W = Total waste generated (IND1)

Data table 2A: Waste Collection

2.A.1. Waste Collection Coverage (Wcc on population)

	Column name	Column definition	Methodology	Data specifications	Remark/ 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: integer Size: 3	
2.	Administrative_Region	This indicator will be reported at national level (optionally all administrative regions).	List of regions from NBB info system given in Codelist iv	Type of element: common Datatype: integer Min. size: 3 Max. size: 4	
3.	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	
5.	P_covered_collection	Number of Population covered by waste collection system	Waste collection covered at national level by collection system. (public and private)	Type of element: common Datatype: integer Unit: person per year Min. size: 1 Max. size: 8 Min. value: 1 Max. value: 99,999,999	
6.	Data_Collection_Method	Method of data	Codes elements as defined in	Type of element:	

			Codelist ii	common Datatype: integer Size: 3	
6.	Remarks	Remarks, comments or explanatory notes (free text)		Type of element: common Datatype: blob Max. size: 4096	

Data table 2A: Waste Collection

2.A.2. Waste captured by the system (Ws)

	Column name	Column definition	Methodology	Data specifications	Remark/ 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: integer Size: 3	
2.	Administrative_Region	The indicator will be reported at national level (optionally all administrative regions).	List of regions from NBB info system given in Codelist iv	Type of element: common Datatype: integer Min. size: 3 Max. size: 4	
3.	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	
4.	Waste_Captured_Ws	The percentage of	Formal Waste Sector: Solid	Type of element:	Percentage on

		waste captured by formal system, including landfills, recycling and compost **(w/w % on total waste generated)**	waste system, solid waste authorities, government, materials recovery facility; Solid waste management activities planned, sponsored, financed, carried out or, regulated and/or recognized by the formal local authorities or their agents, usually through contracts, licenses or concessions.	common Datatype: decimal Decimal precision: 2 Unit: percentage of ratio Min. size: 3 Max. size: 5 Min. value: 0.01 Max. value: 100.00	**total waste generated.**
	Waste_Captured_Wf	The amount of waste captured by formal system per reference year (tonnes/year)	Formal Waste Sector: Solid waste system, solid waste authorities, government, materials recovery facility; Solid waste management activities planned, sponsored, financed, carried out or, regulated and/or recognized by the formal local authorities or their agents, usually through contracts, licenses or concessions.	Type of element: common Datatype: integer Decimal precision: 2 Unit: tonnes per year Min. size: 3 Max. size: 9 Min. value: 1.00 Max. value: 1,000,000.00	**Tonnes/year at national level**
5.	Data_Collection_Method	Method of data collection	Codes elements as defined in Codelist ii	Type of element: common Datatype: integer Size: 3	
6.	Remarks	Remarks, comments or explanatory notes (free text)		Type of element: common Datatype: blob Max. size: 4096	

Data table 2B: Environmental Control

	Column name	Column definition	Methodology	Data specifications	Remark/ 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: integer Size: 3	
2.	Administrative _Region	The indicator will be reported at national level (optionally all administrative regions).	List of regions from NBB info system given in Codelist iv	Type of element: common Datatype: integer Min. size: 3 Max. size: 4	
3.	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	
4.	Number_of_Dumpsites_Coastal Administrative_Regions	Administrative regions located in coastal administrative regions	Number of dumpsites which are Administrative regions within 100 km zone of the coast.	Type of element: common Datatype: decimal Decimal precision: 0 Unit: number Min. size: 1 Max. size: 3 Min. value: 1 Max. value: 100	
5.	Waste_recycled_and	The amount of waste	The quantity of waste which is	Type of element:	

	_reused_Wr	which is recycled, reused (incl.compost)	recycled, sent for compost and are incinerated (if any)	common Datatype: decimal Decimal precision: 2 Unit: kg per year Min. size: 3 Max. size: 9 Min. value: 1.00 Max. value: 1,000,000.00	
	Waste_recycled_and _reused_We	This indicator provides the % of waste generated that is actually handled completely by the formal waste management and recycling system, thus the waste that is not lost through illegal burning, burying or dumping in unofficial areas. (w/w %)	We%=Wf/(W-Wr)	Type of element: common Datatype: decimal Decimal precision: 2 Unit: percentage of ratio metric tonnes per year Min. size: 3 Max. size: 5 Min. value: 0.01 Max. value: 100.00	
6.	Data_Collection_Method	Method of data collection	Codes elements as defined in Codelist ii	Type of element: common Datatype: integer Size: 3	
7.	Remarks	Remarks, comments or explanatory notes (free text)		Type of element: common Datatype: blob Max. size: 4096	

2.B.1: % of waste that goes to uncontrolled dumpsites (Wd)

	Column name	Column definition	Methodology	Data specifications	Remark/ 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: integer Size: 3	
2.	Administrative _Region	The indicator will be reported at national level (optionally all administrative regions).	List of regions from NBB info system given in Codelist iv	Type of element: common Datatype: integer Min. size: 3 Max. size: 4	
3.	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	
4.	Waste_uncontrolled_Wd	Percentage of waste that is going to uncontrolled. (w/w %).	This indicator provides the % of the waste that goes to the dumpsites, thus it is a measure of the pressure for leakages related to ML and water pollution. In addition, it shows the maturity of the national waste management system. (%Wd=100%-We%), where We% is Indicator 2B.	Type of element: common Datatype: decimal Decimal precision: 2 Unit: percentage of ratio metric tonnes per year Min. size: 3 Max. size: 5 Min. value: 0.01 Max. value: 100.00	

5.	Waste_Dumpsite_Wu	The amount of waste which is send to uncontrolled dumpsites.	Dumpsite: Dump, open dump, uncontrolled waste disposal site; A designated or undesignated site where any kinds of wastes are deposited on land, or burned, or buried, without supervision ad without precautions regarding human health or environment.	Type of element: common Datatype: decimal Decimal precision: 2 Unit: kg per year Min. size: 3 Max. size: 9 Min. value: 1.00 Max. value: 1,000,000.00	
6.	Data_Collection_Method	Method of data collection	Codes elements as defined in Codelist ii	Type of element: common Datatype: integer Size: 3	
7.	Remarks	Remarks, comments or explanatory notes (free text)		Type of element: common Datatype: blob Max. size: 4096	

2.B.2: Number of Dumpsites in Coastal Areas (NdC)

	Column name	Column definition	Methodology	Data specifications	Remark/ 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: integer Size: 3	
2.	Administrative _Region	Only Coastal Administartive regions (optionally all administrative	List of regions from NBB info system given in Codelist iv	Type of element: common Datatype: integer Min. size: 3	

				Max. size: 4	
3.	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	
4.	Number_of_Dumpsites_Coastal Administrative_Regions	-Dumpsite located in coastal administrative regions	Number of dumpsites which are in Administrative regions within 100 km zone of the coast.	Type of element: common Datatype: decimal Decimal precision: 0 Unit: number Min. size: 1 Max. size: 3 Min. value: 1 Max. value: 100	
5.	Remarks	Remarks, comments or explanatory notes (free text)		Type of element: common Datatype: blob Max. size: 4096	

IND 2.B.3: Waste going to dumpsites in the Coastal Areas (WdC)

	Column name	Column definition	Methodology	Data specifications	Remark/ 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: integer Size: 3	

2.	Administrative _Region	Only Coastal Administrative regions (optionally all administrative regions).	List of regions from NBB info system given in Codelist iv	Type of element: common Datatype: integer Min. size: 3 Max. size: 4	
3.	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	
4.	Waste_uncontrolled_WdC	Percentage of waste that is going to uncontrolled dumpsites in the coastal administrative region. (w/w %).	This indicator provides the % of the waste that goes to the dumpsites located in the coastal administrative regions. (This indictor is the same indicators **2.B.1 in coastal geographical scale**).	Type of element: common Datatype: decimal Decimal precision: 2 Unit: percentage of ratio metric tonnes per year Min. size: 3 Max. size: 5 Min. value: 0.01 Max. value: 100.00	
5.	Remarks	Remarks, comments or explanatory notes (free text)		Type of element: common Datatype: blob Max. size: 4096	

Data table 2C: Resource Recovery and 2.C.1 % of plastic waste generated that is recycled

	Column name	Column definition	Methodology	Data specifications	Remark/

					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: integer Size: 3	
2.	Administrative _Region	Only Coastal Administrative regions (optionally all administrative regions).	List of regions from NBB info system given in Codelist iv	Type of element: common Datatype: integer Min. size: 3 Max. size: 4	
3.	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	
4.	Resource_Recovery_RR	Percentage of the total waste recycled and reused. (w/w %).	Percentage of the waste that is recycled or reused out of the waste generated.	Type of element: common Datatype: decimal Decimal precision: 2 Unit: percentage of ratio metric tonnes per year Min. size: 3 Max. size: 5 Min. value: 0.01 Max. value: 100.00	
5.	Waste_recycled_and _reused_Wr	This is reported already for indicator 2B.			
6.	Amount _ Recycled	The amount of	The quantity of waste which is	Type of element:	

	_Plastics	plastics which is recycled, reused	recycled and reused (compost)(if any)	common Datatype: decimal Decimal precision: 2 Unit: kg per year Min. size: 3 Max. size: 9 Min. value: 1.00 Max. value: 1,000,000.00	
7.	Percentage_recycled_plastics_	The indicator shows the percentage of total plastic municipal solid waste generated that is recycled. It includes materials recycling only.	The amount of recycled plastic divided by total plastic waste generated. Which is calculated in percentage	Type of element: common Datatype: decimal Decimal precision: 2 Unit: percentage of ratio metric tonnes per year Min. size: 3 Max. size: 5 Min. value: 0.01 Max. value: 100.00	
8.	Data_ Collection_ Method	Method of data collection		Type of element: common Datatype: integer Size: 3	For this calculation, since IND1 has been already calculated, it is necessary to recover data from both the formal and the informal sector. The recyclables from the formal sector are

					always registered and usually there are invoices or other receipts for their quantities.
9.	Remarks	Remarks, comments or explanatory notes (free text)		Type of element: common Datatype: blob Max. size: 4096	

IND Q: "SOFTWARE" OF WASTE MANAGEMENT					
IND Q.A Marine Litter & waste management framework					
Column name	Column name	Geographical Coverage	Indicator parameters	Indicator units	Remarks
Q.A.1 Is there a National Assessment for ML and its impacts?	The answer "yes" is given either if the relevant documents are officially approved or if they are under elaboration and they are going to be completed before the end of 2019.	National	YES or NO	Each "yes" counts 6.66%	
Q.A.2 Is there a National Plan or Strategy for ML?	The answer "yes" is given either if the relevant documents are officially approved or if they are under elaboration and they are going to be completed before the end of 2019.	National	YES or NO	Each "yes" counts 6.66%	
Q.A.3 Is there a National Plan or Strategy for Waste Management?	The answer "yes" is given only if the relevant documents are officially approved.	National	YES or NO	Each "yes" counts 6.66%	
Q.A.4 Is there a National Law on Waste?	The answer "yes" is given only if the relevant documents are officially approved.	National	YES or NO	Each "yes" counts 6.66%	
Q.A.5 Is there a specific plan or a specific target to close the dumpsites before 2030?	The answer "yes" is given only if there is such a specific target in the National Plan or Strategy or if there is a specific plan for the closure of dumpsites.	National	YES or NO	Each "yes" counts 6.66%	

Q.A.6 Is there a National Information System for waste management in place?	The answer "yes" is given only if there is an existing, operational National Information System for waste management or if waste management consists a sub-system of a broader Environmental Information System.	National	YES or NO	Each "yes" counts 6.66%	

IND Q: "SOFTWARE" OF WASTE MANAGEMENT					
IND Q.B - Resource recovery					
Column name	Column name	Geographical Coverage	Indicator parameters	Indicator units	Remarks
Q.B.1 Is there a National Plan or Strategy for Waste Prevention?		National	YES or NO	Each "yes" counts 6.66%	
Q.B.2 Are there mandatory targets for recycling - recovery of packaging waste?		National	YES or NO	Each "yes" counts 6.66%	
Q.B.3 Are there EPR or Deposit- Return schemes for packaging waste?		National	YES or NO	Each "yes" counts 6.66%	
Q.B.4 Are there		National	YES or NO	Each "yes" counts	

national policies to eliminate or reduce single-use plastics?				6.66%	
Q.B.5 Are there financial incentives for reuse – resource recovery activities?		National	YES or NO	Each "yes" counts 6.66%	

IND Q: "SOFTWARE" OF WASTE MANAGEMENT IND Q.C - SUSTAINABLE CONSUMPTION AND PRODUCTION					
Column name	Column name	Geographical Coverage	Indicator parameters	Indicator units	Remarks
Q.C.1 Are there Sustainable Consumption and Production plans or strategies?			YES or NO	Each "yes" counts 6.66%	
Q.C.2 Are there green procurement rules for the public sector in place?			YES or NO	Each "yes" counts 6.66%	
Q.C.3 Are there policies to support sustainable			YES or NO	Each "yes" counts 6.66%	

tourism?					
Q.C.4 Are there policies to support eco-labelling and eco-design?			YES or NO	Each "yes" counts 6.66%	
			YES or NO	Each "yes" counts 6.66%	

Annex 1: Codelists

i. Codelist of country

ISO 3166-1-alpha-2 code
http://www.iso.org/iso/home/standards/country_codes/country_names_and_code_elements.htm

Name	ISO 2 Code
Albania	AL
Algeria	DZ
Bosnia and Herzegovina	BA
Egypt	EG
Israel	IL
Jordan	JO
Lebanon	LB
Libya	LY
Montenegro	ME
Morocco	MA
Palestine, State of	PS
Tunisia	TN
Turkey	TR

ii. Codelist of data collection method

Value	Definition	Short description
M	Field measurement method	Measurement
E	Waste generation rates estimation	Estimation
I	National inventories for management of municipal solid waste compiled by official public agencies	Inventory
R	Official reports compiled by sanitary landfills	Report

iii. Codelist of MSW Fractions

Frc_ID	Name	
1	Organic fraction % w/w	The 'organic' fraction is defined primarily as kitchen and food waste from households and restaurants; market wastes; green, garden or yard waste, including wood from pruning trees in public parks and/or along roads; and similar. It excludes paper, cardboard, textiles, leather, and wood from packaging or furniture. Please note whether some organic waste is likely to have been reported as part of another fraction – e.g. if MSW is routinely mixed with sand or soil during collection (so that the 'fine fraction' is likely to include a portion of the organics), and/or if the 'other' fraction is high.
2	Plastic fraction %	The plastic fraction includes mostly packaging wastes, such as PET, PVC, polypropylene, high and low density polyethylene (HDPE/LDPE) and polystyrene.
3	Paper fraction %	The paper fraction includes cardboard, but excludes laminated materials such as drink cartons.
4	Metal fraction %	The metal fraction includes ferrous (iron and steel) and non-ferrous (e.g. aluminium, copper, lead, zinc, tin) metals and alloys.
5	Rest %	100% - [4] - [3] - [2] - [1]

iv. Codelist of Administrative Mediterranean Regions

Country	Region
Albania	Peqini
Albania	Vlora
Albania	Saranda
Albania	Delvina
Albania	Kavaja
Albania	Fieri
Albania	Kruja
Albania	Durres
Albania	Kurbini
Albania	Lushnja
Albania	Mallakastra
Albania	Elbasan
Albania	Shkodra
Albania	Lezha
Albania	Tirana
Algeria	El Tarf
Algeria	Tlemcen
Algeria	Ain Temouchent
Algeria	Oran
Algeria	Mostaganem
Algeria	Chlef
Algeria	Tipaza
Algeria	Alger
Algeria	Boumerdes
Algeria	Tizi Ouzou
Algeria	Bejaia
Algeria	Jijel
Algeria	Skikda
Algeria	Annaba
Bosnia Herzegovina	Costal Area - Neum
Bosnia Herzegovina	Trebisnjica
Bosnia Herzegovina	Cetina

Country	Region
Bosnia Herzegovina	Neretva
Croatia	Primorsko-Goranska
Croatia	Zadarska
Croatia	Licko-Senjska
Croatia	Sibensko-Kninska
Croatia	Istarska
Croatia	Dubrovacko-Neretvanska
Croatia	Splitsko-Dalmatinska
Cyprus	Cyprus
Egypt	Alexandria
France	Champagne-Ardenne
France	Franche-Comte
France	Herault
France	Alpes maritimes
France	Pyrenees orientales
France	Aude
France	Bourgogne
France	Provence-Alpes-Cote d'Azur
France	Gard
France	Corse
France	Bouches du Rhone
France	Rhone-Alpes
Greece	Aegean Islands
Greece	West Macedonia
Greece	West Continental Greece
Greece	West Peloponnes
Greece	North Peloponnes
Greece	Attica
Greece	East Peloponnes
Greece	Epirus
Greece	Thrace
Greece	East Macedonia
Greece	East Continental Greece

Greece	Crete	Montenegro	Budva
Greece	Central Macedonia	Montenegro	Ulcinj
Greece	Thessalia	Montenegro	Tivat
Israel	Israel	Montenegro	Kotor
Italy	Puglia	Montenegro	Herceg Novi
Italy	Umbria	Montenegro	Bar
Italy	Veneto	Morocco	Nador
Italy	Toscana	Morocco	Tanger
Italy	Lombardia	Morocco	Tetouan
Italy	Valle d Aosta	Palestine	Wadi Gaza
Italy	Liguria	Slovenia	Slovenia
Italy	Friuli	Spain	Barcelona
Italy	Molise	Spain	Alava
Italy	Marche	Spain	Cuenca
Italy	Sardegna	Spain	Huesca
Italy	Trentino	Spain	Alicante
Italy	Emilia Romagna	Spain	Albacete
Italy	Abruzzo	Spain	Burgos
Italy	Calabria	Spain	Granada
Italy	Piemonte	Spain	Valencia
Italy	Basilicata	Spain	Lleida
Italy	Lazio	Spain	Girona
Italy	Sicilia	Spain	Malaga
Italy	Campania	Spain	Tarragona
Lebanon	Lebanon	Spain	Baleares
Libya	Alnigat Alkhams	Spain	Navarra
Libya	Sirt	Spain	Murcia
Libya	Ajdabiya	Spain	Zaragoza
Libya	Tripoli	Spain	Melilla
Libya	Dernah	Spain	Rioja
Libya	Azzawiya	Spain	Teruel
Libya	Al jifarah	Spain	Soria
Libya	Al batnan	Spain	Cantabria
Libya	Misratah	Spain	Cadiz
Libya	Al Khums	Spain	Almeria
Libya	Benghazi	Spain	Castellon
Libya	Alnigat ilkamse	Syria	Tartous
Malta	Malta	Syria	Lattakia

Tunisia	Gabes	Turkey	Kahramanma
Tunisia	Sfax	Turkey	Isparta
Tunisia	Bizerte	Turkey	Manisa
Tunisia	Mahdia	Turkey	Mugla
Tunisia	Sousse	Turkey	Usak
Tunisia	Ariana	Turkey	Icel
Tunisia	Nabeul	Turkey	Kutahya
Tunisia	Ben Arous	Turkey	Osmaniye
Tunisia	Monastir	Turkey	Afyon
Tunisia	Medenine	Turkey	Izmir
Tunisia	Tunis	Turkey	Balikesir
Turkey	Denizli	Turkey	Canakkale
Turkey	Hatay	Turkey	Aydin
Turkey	Antalya	Turkey	Adana

Table D

Methodology	Data specifications	Equivalent in WISE if exist
The population as of the reference year (Year_H2020)	Type of element: non-common Datatype: integer Unit: inhabitants Min. size: 1 Max. size: 10 Min. value: 1 Max. value: 1000 000 000	