

WASTE DATA DICTIONARIES (DRAFT)

Author: Med Pol
September 13, 2018
Rev: 11.01.2019
Version 1.3

DRAFT DATA DESCRIPTION DOCUMENT

Version 1.3
Date : 13.09.2018
Revision 11.01.2019

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 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. |

| | | |
|---------------------------------|--|--|
| <p>IND Q¹</p> | <p>“Software” of waste management</p> | <p>3.Q.A MARINE LITTER & WASTE MANAGEMENT FRAMEWORK</p> <p>IND Q.A.1 Is there a National Assessment for ML and its impacts?</p> <p>IND Q.A.2 Is there a National Plan or Strategy for ML?</p> <p>IND Q.A.3 Is there a National Plan or Strategy for Waste Management?</p> <p>IND Q.A.4 Is there a National Law on Waste?</p> <p>IND Q.A.5 Is there a national plan or target to close the dumpsites before 2030?</p> <p>IND Q.A.6 Is there a National Information system for waste management in place?</p> <p>Q.B RESOURCE RECOVERY</p> <p>IND Q.B.1 Is there a National Plan or Strategy for Waste Prevention?</p> <p>IND Q.B.2 Are there mandatory targets for recycling - recovery of packaging waste?</p> <p>IND Q.B.3 Are there EPR or Deposit- Return schemes for packaging waste?</p> <p>IND Q.B.4 Are there national policies to eliminate or reduce single-use plastics?</p> <p>IND Q.B.5 Are there financial incentives for reuse – resource recovery activities?</p> <p>Q.C SUSTAINABLE CONSUMPTION AND PRODUCTION</p> <p>IND Q.C.1 Are there Sustainable Consumption and Production plans or strategies?</p> <p>IND Q.C.2 Are there green procurement rules for the public sector in place?</p> <p>IND Q.C.3 Are there policies to support sustainable tourism?</p> <p>IND Q.C.4 Are there policies to support eco-labelling and eco-design?</p> |
|---------------------------------|--|--|

¹ The meeting decided to change the name of this indicator 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)

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 <u>Country level</u> Total population Total MSW |

*Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP
South region – SEIS Support Mechanism (ENI SEIS II South)*

| | | | |
|-----|---|--|--|
| | | 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 <u>Country-level</u> 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 <u>Country level</u> 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 <u>Country level</u> 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. |

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

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: string Size: 2 | |
| 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: string 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 |

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP South region – SEIS Support Mechanism (ENI SEIS II South)

| | | | | | |
|----|------------------------|---|---|--|--|
| | | | | 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: string Size: 1 | 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 |

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP South region – SEIS Support Mechanism (ENI SEIS II South)

| | | | | | |
|----|---------|--|--|--|--|
| | | | | | based on the population using proper waste generation rates |
| 6. | Remarks | Remarks, comments or explanatory notes (free text) | | Type of element: common Datatype: string Min. size: 0 Max. size: 4096 | |

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: string Size: 2 | |
| 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: string 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_MSW | Summery composition of MSW as generated. | Municipal waste composition fractions in percentage (w/w % on wet basis) according to Codelist iii Calculated in national level | Type of element: common Datatype: decimal Decimal precision: 2 Unit: percentage of ratio metric tonnes per year Min. size: 3 Max. size: 5 | |

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP South region – SEIS Support Mechanism (ENI SEIS II South)

| | | | | | |
|----|------------------------|--|--|--|--|
| | | | | 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: string Size: 1 | 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 |
| 6. | Remarks | Remarks, comments or explanatory notes (free text) | | Type of element: common Datatype: string Max. size: 4096 | |

Data table 1B: Plastic waste generation per capita

| Column name | Column definition | Methodology | Data specifications | Equivalent in |
|-------------|-------------------|-------------|---------------------|---------------|
|-------------|-------------------|-------------|---------------------|---------------|

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP South region – SEIS Support Mechanism (ENI SEIS II South)

| | | | | | 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. | 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: string 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. $Frc_Plastic_MSW/Capita=1000*(W \times P)/N$ (in kg/year) 2- If the waste has been calculated using special waste generation rates per capita (SR in kg/year) and composition is known (P the w/w % of plastics) | 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 | Two options for calculation. |

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP South region – SEIS Support Mechanism (ENI SEIS II South)

| | | | | | |
|----|------------------------|--|--|--|--|
| | | | <p>then $Frc_Plastic_MSW/Capita=SR*P$ (in kg/year)</p> <p>For plastic definition please refer to Codelist iii</p> <p>Calculated in national level</p> | | |
| 5. | Data_Collection_Method | Method of data collection | Codes elements as defined in Codelist ii | Type of element: common Datatype: string Size: 1 | |
| 6. | Remarks | Remarks, comments or explanatory notes (free text) | | Type of element: common Datatype: string Max. size: 4096 | |

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: string Size: 2 | |
| 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: string 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 | |

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

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP South region – SEIS Support Mechanism (ENI SEIS II South)

| | | | | | |
|----|------------------------|--|--|---|-----------------------|
| | | | | 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: string Size: 1 | UNSD or national data |
| 7. | Remarks | Remarks, comments or explanatory notes (free text) | | Type of element: common Datatype: string Max. size: 4096 | |

Data table 1.D: % of Tourists 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: string Size: 2 | |
| 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: string 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 | |

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP South region – SEIS Support Mechanism (ENI SEIS II South)

| | | | | | |
|----|---------------------|--|---|---|--|
| | | | | Max. value: current year | |
| 4. | Tourist_Costal area | Number of tourist visiting the administrative regions per Year_H2020 | <p>Tourists and visitors are defined according the UN World Tourism Organization⁵ "Tourism 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."</p> <p>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</p> | <p>Type of element: common Datatype: integer Unit: person per year Min. size: 1 Max. size: 8 Min. value: 1 Max. value: 99,999,999</p> | |

⁵ See UN, 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

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP South region – SEIS Support Mechanism (ENI SEIS II South)

| | | | | | |
|----|------------------------|--|---|--|---|
| | | | resident is equal with 365 overnight stays ⁶ | | |
| 5. | Data_Collection_Method | Method of data collection | Codes elements as defined in Codelist ii | Type of element: common Datatype: string Size: 1 | National statistical data. The visiting 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: string Max. size: 4096 | |

⁶ 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>

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) |

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP South region – SEIS Support Mechanism (ENI SEIS II South)

| Data table | Name | Definition | Short description |
|------------|------------------------------|---|---|
| | | <p>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.</p> <p>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.</p> <p>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.</p> | <p>Wf = Waste captured by the formal waste sector</p> <p>W = Total waste generated (IND1)</p> |
| IND 2. B. | Environmental Control | <p>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.</p> <p>2.B.1: Waste that goes to dumpsites Percentage of waste that goes to dumpsites.</p> <p>2.B.2: Dumpsites in Coastal Areas Number of dumpsites in Coastal Areas</p> <p>2.B.3: Waste that goes to dumpsites in Coastal Areas.</p> | <p>Wf = Waste captured by the formal waste sectors (Wf=Wr+Wu).</p> <p>W = Total waste generated</p> <p>Wr = Recycled and reused waste</p> <p>Wu = Waste delivered to dumpsites.</p> |

*Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP
South region – SEIS Support Mechanism (ENI SEIS II South)*

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

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP South region – SEIS Support Mechanism (ENI SEIS II South)

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: string Size: 2 | |
| 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: string 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_ _Cc | The percentage of waste captured by formal system.(% on total population of the country). | Waste collection covered at national level by system. (public and private) | 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 | Percentage on population of the country. |

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP South region – SEIS Support Mechanism (ENI SEIS II South)

| | | | | | |
|----|------------------------|---|---|--|--|
| | | | | Max. value: 100.00 | |
| 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 collection | Codes elements as defined in Codelist ii | Type of element: common Datatype: string Size: 1 | |
| 6. | Remarks | Remarks, comments or explanatory notes (free text) | | Type of element: common Datatype: string 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: string Size: 2 | |
| 2. | Administrative_Region | The indicator will be reported at national level (optionally all | List of regions from NBB info system given in Codelist iv | Type of element: common Datatype: string | |

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP South region – SEIS Support Mechanism (ENI SEIS II South)

| | | | | | |
|----|-------------------|--|---|---|---|
| | | administrative regions). | | 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 waste captured by formal system, including landfills, recycling and compost (w/w % on total waste generated) | 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: decimal Decimal precision: 2 Unit: percentage of ratio Min. size: 3 Max. size: 5 Min. value: 0.01 Max. value: 100.00 | Percentage on 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: 7 Min. value: 1 Max. value: 1,000,000 | Tonnes/year at national level |

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP South region – SEIS Support Mechanism (ENI SEIS II South)

| | | | | | |
|----|------------------------|--|--|---|--|
| 5. | Data_Collection_Method | Method of data collection | Codes elements as defined in Codelist ii | Type of element: common Datatype: string Size: 1 | |
| 6. | Remarks | Remarks, comments or explanatory notes (free text) | | Type of element: common Datatype: string 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: string Size: 2 | |
| 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 | |

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP South region – SEIS Support Mechanism (ENI SEIS II South)

| | | | | | |
|----|---|---|--|---|--|
| 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: 100 Min. value: 1 Max. value: 100 | |
| 5. | Waste_recycled_and_reused_Wr | The amount of waste which is recycled, reused (incl.compost) | The quantity of waste which is recycled, sent for compost and are incinerated (if any) | Type of element: common Datatype: decimal Decimal precision: 2 Unit: kg per year Min. size: 3 Max. size: 7 Min. value: 1 Max. value: 1,000,000 | |
| | 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 | |

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP South region – SEIS Support Mechanism (ENI SEIS II South)

| | | | | | |
|----|------------------------|--|---|--|--|
| | | %) | | | |
| | 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%) | 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. | 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 Max. value: 1,000,000 | |
| 7. | Data_Collection_Method | Method of data collection | Codes elements as defined in Codelist ii | Type of element: common Datatype: string Size: 1 | |
| 8. | Remarks | Remarks, comments or explanatory notes (free text) | | Type of element: common Datatype: string Max. size: 4096 | |

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

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP South region – SEIS Support Mechanism (ENI SEIS II South)

| | 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: string Size: 2 | |
| 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 | Dumpsite: Dump, open dump, uncontrolled waste disposal | Type of element: common | |

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP South region – SEIS Support Mechanism (ENI SEIS II South)

| | | | | | |
|----|------------------------|--|---|--|--|
| | | uncontrolled dumpsites. | site; A designated or undesignated site where any kinds of wastes are deposited on land, or burned, or buried, without supervision and without precautions regarding human health or environment. | Datatype: decimal Decimal precision: 2 Unit: kg per year Min. size: 3 Max. size: 9 Min. value: 1 Max. value: 1,000,000 | |
| 6. | Data_Collection_Method | Method of data collection | Codes elements as defined in Codelist ii | Type of element: common Datatype: string Size: 1 | |
| 7. | Remarks | Remarks, comments or explanatory notes (free text) | | Type of element: common Datatype: string 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: string Size: 2 | |
| 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 | Use the format YYYY | Type of element: | |

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP South region – SEIS Support Mechanism (ENI SEIS II South)

| | | | | | |
|----|--|---|--|--|--|
| | | available | | 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: 100 Min. value: 1 Max. value: 100 | |
| 5. | Remarks | Remarks, comments or explanatory notes (free text) | | Type of element: common Datatype: string 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: string Size: 2 | |
| 2. | Administrative_Region | Only Coastal Administrative | List of regions from NBB info system given in Codelist iv | Type of element: common | |

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP South region – SEIS Support Mechanism (ENI SEIS II South)

| | | | | | |
|----|------------------------|--|---|--|--|
| | | regions (optionally all administrative regions). | | 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 indicator 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: string 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 |
|-------------|-------------------|-------------|---------------------|--|
|-------------|-------------------|-------------|---------------------|--|

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP South region – SEIS Support Mechanism (ENI SEIS II South)

| | | | | | |
|----|------------------------------|--|--|---|--|
| 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. | 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_Plastics | The amount of plastics which is recycled, reused | The quantity of waste which is recycled and reused (compost)(if any) | Type of element: common Datatype: decimal | |

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP South region – SEIS Support Mechanism (ENI SEIS II South)

| | | | | | |
|----|-------------------------------|---|--|---|--|
| | | | | <p>Decimal precision: 2 Unit: kg per year Min. size: 3 Max. size: 7 Min. value: 1 Max. value: 1,000,000</p> | |
| 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 | <p>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</p> | |
| 8. | Data_Collection_Method | Method of data collection | | <p>Type of element: common Datatype: integer Size: 3</p> | 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 |

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP South region – SEIS Support Mechanism (ENI SEIS II South)

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

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP South region – SEIS Support Mechanism (ENI SEIS II South)

| IND Q: “SOFTWARE” OF WASTE MANAGEMENT | | | | | |
|--|--|----------------------------|-----------------------------|-------------------------|----------------|
| IND Q.A Marine Litter & waste management framework | | | | | |
| Column name | Column name | Geographic 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% | |

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP South region – SEIS Support Mechanism (ENI SEIS II South)

| | | | | | |
|---|--|----------|-----------|-------------------------|--|
| 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 | |

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP South region – SEIS Support Mechanism (ENI SEIS II South)

| | | | | | |
|--|--|----------|-----------|-------------------------|--|
| 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% | |

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP South region – SEIS Support Mechanism (ENI SEIS II South)

| | | | | | |
|---|--|--|-----------|-------------------------|--|
| 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 |
| Bosnia Herzegovina | Neretva |
| Croatia | Primorsko-Goranska |
| Croatia | Zadarska |
| Croatia | Licko-Senjska |
| Croatia | Sibensko-Kninska |
| Croatia | Istarska |
| Croatia | Dubrovačko-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 |

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP

South region – SEIS Support Mechanism (ENI SEIS II South)

| | |
|---------|-------------------|
| Greece | Crete |
| Greece | Central Macedonia |
| Greece | Thessalia |
| Israel | Israel |
| Italy | Puglia |
| Italy | Umbria |
| Italy | Veneto |
| Italy | Toscana |
| Italy | Lombardia |
| Italy | Valle d Aosta |
| Italy | Liguria |
| Italy | Friuli |
| Italy | Molise |
| Italy | Marche |
| Italy | Sardegna |
| Italy | Trentino |
| Italy | Emilia Romagna |
| Italy | Abruzzo |
| Italy | Calabria |
| Italy | Piemonte |
| Italy | Basilicata |
| Italy | Lazio |
| Italy | Sicilia |
| Italy | Campania |
| Lebanon | Lebanon |
| Libya | Alnigat Alkhams |
| Libya | Sirt |
| Libya | Ajdabiya |
| Libya | Tripoli |
| Libya | Dernah |
| Libya | Azzawiya |
| Libya | Al jifarah |
| Libya | Al batnan |
| Libya | Misratah |
| Libya | Al Khums |
| Libya | Benghazi |
| Libya | Alnigat ilkamse |
| Malta | Malta |

| | |
|------------|-------------|
| Montenegro | Budva |
| Montenegro | Ulcinj |
| Montenegro | Tivat |
| Montenegro | Kotor |
| Montenegro | Herceg Novi |
| Montenegro | Bar |
| Morocco | Nador |
| Morocco | Tanger |
| Morocco | Tetouan |
| Palestine | Wadi Gaza |
| Slovenia | Slovenia |
| Spain | Barcelona |
| Spain | Alava |
| Spain | Cuenca |
| Spain | Huesca |
| Spain | Alicante |
| Spain | Albacete |
| Spain | Burgos |
| Spain | Granada |
| Spain | Valencia |
| Spain | Lleida |
| Spain | Girona |
| Spain | Malaga |
| Spain | Tarragona |
| Spain | Baleares |
| Spain | Navarra |
| Spain | Murcia |
| Spain | Zaragoza |
| Spain | Melilla |
| Spain | Rioja |
| Spain | Teruel |
| Spain | Soria |
| Spain | Cantabria |
| Spain | Cadiz |
| Spain | Almeria |
| Spain | Castellon |
| Syria | Tartous |
| Syria | Lattakia |

*Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP
South region – SEIS Support Mechanism (ENI SEIS II South)*

| | | | |
|---------|-----------|--------|------------|
| 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 | |