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Tirana, Albania, 19-20 March 2019

**Agenda item 7: Horizon 2020 Assessment Outline: Links to the Evaluation on National Actions Plans and Regional Plans Implementation**

*The meeting has been organized in collaboration with the European Union funded Project ENI SEIS II South Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP South region – SEIS Support Mechanism*

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## **List of Abbreviations / Acronyms**

<b>COP</b>	Conference of the Parties
<b>EBM</b>	Ecosystem-based management
<b>EEA</b>	European Environment Agency
<b>EU</b>	European Union
<b>IMAP</b>	Integrated Monitoring and Assessment Programme of the Mediterranean Sea and Coast and Related Assessment Criteria
<b>H2020</b>	Horizon 2020 Initiative
<b>MAP</b>	Mediterranean Action Plan
<b>NAP</b>	National Action Plans
<b>NBB</b>	National baseline budget of pollutants
<b>NGO</b>	Non-Governmental Organizations
<b>PET</b>	Polyethylene Terephthalate
<b>PoW</b>	Programme of Work
<b>SEIS</b>	Shared Environmental Information System
<b>UN</b>	United Nations

## 1 Introduction

1. The work for developing to the extent possible common H2020/NAP indicators has been jointly developed by EEA and UN Environment/MAP under the Contribution Agreement that was signed between UN Environment Programme/MAP and the European Environmental Agency (B03437/B2016/R0/ENIS/EEA.56593), as well as under MAP PoW 2018-2019.

2. In this context, UN Environment/MAP and EEA agreed to cooperate for the implementation of the EU-funded Project “ENI – SEIS II South Support Mechanism” with the view of improving availability and access to environmental information to the benefit of effective and knowledge-based policy making in the ENP South region and ensuring proper linkages with their respective work programs.

3. The H2020/NAP indicators resulted from an extensive revision and participatory process including a mapping exercise of current regional indicators against the different policies and their reporting requirements was performed,<sup>1</sup> with the aim to explain how the H2020/NAP indicators are related to the other regional processes. Ensuring the alignment of H2020/NAP indicators with other ongoing assessment processes in the Mediterranean was paramount in revising the H2020 Assessment framework (2015-2020),<sup>2</sup> that would support an integrated assessment; reduce the reporting burden for countries; and optimize the use of data for different purposes. The H2020/NAP indicators address three main clusters: water, industrial emissions, and solid waste including litter. This list of indicators was updated in 2018.

4. The following points were considered while updating the list of H2020/NAP indicators for the Industrial Emissions thematic area/cluster:

- Existing indicators from Regional Seas Programme (RS), IMAP, NAP, SCP and particularly from MSSD and SDG, in addition to indicators of the Basel and Stockholm Conventions were analyzed and possible respective synergies were identified;
- Relevant monitoring and reporting requirements of the Decisions of the Contracting Parties Meetings related to ecosystem approach, legally binding Regional Plans implementation under the LBS Protocol of the Barcelona Convention; as well as obligations of the Stockholm and Basel Conventions where appropriate;
- Common operational targets; priority investment measures; efficiency and effectiveness of current institutional and legal frameworks; and status of updated hotspots in 2015 as specified in the updated NAPs.

5. As a result, H2020/NAP Industrial Emission Indicators were designed to establish the necessary framework for informing on H2020 progress (and post 2020 horizon); and for highlighting the necessary interventions for pollution prevention and control aiming to reduce adverse impacts of industrial emissions on the Mediterranean marine and coastal environment by addressing the requirements of the legally binding decisions on industrial emissions under the UN Environment/MAP System, Basel and Stockholm Conventions, as well as complementarities with those proposed by other programmes and initiatives, particularly the SDGs.

6. The National Baseline Budgeted tool (NBB) was agreed by the Contracting Parties to track progress on measures taken to reduce and prevent land-based pollution, the implementation of the updated National Action Plans (updated NAPs), and elimination of hotspots. The NBB was established and is operational since 2003 through the establishment and submission on a 5-year basis, of pollutant loads per source for a considerable number of pollutants. The data collected during NBB

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<sup>1</sup> <https://forum.eionet.europa.eu/etc-icm-consortium/library/service-contract-eni-south-2017-2018/key-deliverables/d3.2-concept-note-mapping-indicator-processes-and-country-guidance/d3.2-concept-note-mapping-indicator-processes>

<sup>2</sup> <https://forum.eionet.europa.eu/etc-icm-consortium/library/service-contract-eni-south-2017-2018/key-deliverables/d3.1-assessment-framework-h2020-phase-ii>

Reporting Cycles constitute a reliable and important source of information to populate some of the H2020/NAP Indicators for Industrial Emission cluster.

7. At their 20<sup>th</sup> Ordinary Meeting in Tirana, Albania, on 17-20 December 2017, the Contracting Parties decided to undertake the 4<sup>th</sup> reporting cycle of the National Baseline Budget (NBB) and Pollution Release and Transfer Reports (PRTR). The 4<sup>th</sup> reporting cycle of NBB and PRTR was launched on the 28<sup>th</sup> of August 2018 requesting the Contracting Parties to upload the collected data in the NBB/PRTR MED POL Info System. Furthermore, technical assistance is also provided to a number of Contracting Parties and ENI SEIS countries to enable them collecting the necessary data to populate relevant indicators established for H2020/NAP Industrial Emissions Indicators as well as to successfully conclude the 4<sup>th</sup> NBB reporting cycle.

8. The present **document** *Horizon 2020 Assessment Outline: Main element*, prepared in consultation with EEA, takes into account existing best practices at regional/ international level in relation to assessments. It defines the context, conceptual approach, and current development of the Horizon H2020/NAP indicator-based assessment report that will be jointly produced by EEA and UN Environment /MAP to inform on the progress of the Horizon 2020 Initiative for a cleaner Mediterranean established under the Union for the Mediterranean.

9. As presented in Chapter 4.4 of the present document, the preparation of Horizon 2020 Assessment for Industrial Emission Cluster report is closely linked with the midterm evaluation of the implementation of the updated NAPs and Regional Plans adopted under the UN Environment/ MAP Barcelona Convention LBS Protocol.

## **2 Horizon H2020/NAP Indicators: Industrial Emissions Cluster**

10. The first set of H2020/NAP indicators was discussed during the 2018-2019 biennium in the 1<sup>st</sup> Indicators Workshop, held in Copenhagen in May 2017,<sup>3</sup> and finally were agreed during the 2<sup>nd</sup> Indicators Workshop, held in April 2018 in Athens, Greece in the framework of ENI SEIS II project and in synergy with UN Environment/MAP PoW. The 2<sup>nd</sup> Indicators Workshop also reviewed the proposed indicators; a set of methodological specifications; and reporting processes including regional infrastructures. The methodological factsheets for each H2020/NAP indicator can be found in the Report of the Meeting of 2<sup>nd</sup> Indicators Workshop.

11. With regards to the infrastructure for data management and population of indicators, the 1st ENI SEIS South Supporting Mechanism Regional Workshop on Infrastructure and Data Management<sup>4</sup> was held on 4-5 October 2018 in Rome, Italy. The Regional Workshop addressed regional and national needs with regards to collection and sharing of data through Spatial Data Infrastructure (SDI) as a reporting infrastructure developed by UN Environment/MAP-INFO/RAC including existing information system such as NBB/PRTR Information System relevant to H2020/NAP indicators.

12. The list of H2020/NAP Industrial Emission Indicators is given in Table 1, including four H2020/NAP indicators and 12 sub-indicators.

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<sup>3</sup> <https://eni-seis.eionet.europa.eu/south/communication/events/project-related-events/eni-seis-ii-south-support-mechanism-regional-workshop-on-indicators-1>

<sup>4</sup> 1st Workshop on Data Management and Infrastructure, 04-05 October 2018, Rome, Italy.

Table 1: List of H2020/NAP Indicators

<b>INDICATORS</b>	<b>SUB-INDICATORS</b>	<b>Potential Source of Information for Expected Data</b>
<b>IND 6.1. Release of nutrients from industrial sectors</b>	6.1.1. Total BOD load discharged from industrial installations to the Mediterranean marine environment.	<b>MAP/MEDPOL Infosystem (NBB Updates):</b> available for First Reporting Cycle (2003), Second Reporting Cycle (2008), Third Reporting Cycle (2013), Forth Reporting Cycle (2018) <sup>5</sup> . <b>PRTR registers</b> , if any. <b>InfoMAPNode:</b> on going submission <sup>6</sup>
	6.1.2. Total Nitrogen load discharged from industrial installations to the Mediterranean marine environment	
	6.1.3. Total Phosphorus load discharged from industrial installations to the Mediterranean marine environment.	
<b>IND 6.2. Release of toxic substances from industrial sectors</b>	6.2.1. Total heavy metals load released from industrial installations to the Mediterranean marine environment.	<b>MAP/MEDPOL Infosystem (NBB Updates):</b> available for First Reporting Cycle (2003), Second Reporting Cycle (2008), Third Reporting Cycle (2013), Forth Reporting Cycle (2018) <sup>7</sup> . <b>PRTR registers</b> , if any. <b>InfoMAPNode:</b> on going submission.
	6.2.2. Furans and dioxins load released from industrial installations to the Mediterranean marine environment.	
	6.2.3. Polycyclic aromatic hydrocarbons (PAH) load released from industrial installations to the Mediterranean marine environment.	
	6.2.4. Volatile organic compounds (VOC) load released from industrial installations to the Mediterranean marine environment.	
<b>IND 6.3. Industrial hazardous waste disposed in environmentally sound manner</b>	6.3.1. Total quantity of generated hazardous waste from industrial installations.	<b>Barcelona Convention Reporting System:</b> available for 2008-2009; 2010-2011; 2012-2013, 2014-2015 and 2017-2018 <sup>8</sup> . <b>Basel and Stockholm Conventions Reporting System:</b> available for 1 <sup>st</sup> reporting cycle (31 December 2006); 2 <sup>nd</sup> reporting cycle (31 October 2010); 3 <sup>rd</sup> reporting cycle (31 August 2014); 4 <sup>th</sup> reporting cycle (still ongoing till 31 August 2018). <sup>9</sup> <b>InfoMAPNode:</b> on going submission. <b>Small Scale Funding Agreements</b> under the ENI SEIS II Project.
	6.3.2. Quantity of industrial hazardous waste disposed in environmentally sound manner relative to total quantity of generated hazardous waste from industrial installations.	
<b>IND 6.4. Compliance measures aiming at the reduction and/or elimination of pollutants generated by industrial sectors</b>	6.4.1. Number of industrial installations reporting periodically loads of pollutants discharged to the marine and coastal environments relative to the total number of industrial installations.	<b>Barcelona Convention Reporting System (BCRS):</b> Available for 2008-2009; 2010-2011; 2012-2013, 2014-2015 and 2017-2018
	6.4.2. Number of environmental inspections carried out by enforcement authorities in which industrial installations were found to be in breach of laws and regulations relative to the total number of executed inspections.	<b>Barcelona Convention Reporting System (BCRS):</b> Available for 2008-2009; 2010-2011; 2012-2013 and 2014-2015. <b>InfoMAPNode:</b> on going submission.
	6.4.3. Number of eliminated hotspots identified in the updated NAPs relative to the 2001 and 2015 baselines	<b>Barcelona Convention Reporting System (BCRS):</b> Available for 2008-2009; 2010-2011; 2012-2013, 2014-2015 and 2017-2018

<sup>5</sup> Still ongoing during the preparation of this report.<sup>6</sup> Still ongoing during the preparation of this report.<sup>7</sup> Still ongoing during the preparation of this report.<sup>8</sup> Still ongoing during the preparation of this report<sup>9</sup> <http://chm.pops.int/Countries/Reporting/NationalReports/tabid/3668/Default.aspx>

### 3 Horizon 2020 indicator-based Assessment outline

#### 3.1 Main elements

13. In 2017-2018, the H2020 assessment framework was revised in a way that it complements ongoing regional initiatives and provides the highest added value for the Mediterranean region and its countries. The second H2020 assessment will be based on an integrated approach, covering the three priority pollution sources of the Mediterranean Sea (solid waste, wastewater and industrial emissions) and across all levels of the Drivers-Pressure-State-Impact-Responses (DPSIR) framework. Rather than focusing mainly on describing the problem, the assessment will highlight the progress towards tackling pollution from those key sources, namely what has been achieved (e.g. through policies, H2020 investments and cooperation), and how this can be potentially reflected through the H2020/NAP indicators set, across the chain “pressure-state-impact”. The assessment aims to put emphasis on solutions and best practices by illustrating case studies.

14. The 3<sup>rd</sup> Steering Committee of the ENI SEIS II South Support Mechanism project and the 9<sup>th</sup> Meeting of the H2020 Review and Monitoring (RM) Group, held on 6-7 November 2018, in Vienna, noted that the operating model of the assessment report needs to embrace the complexity of the region including Northern Mediterranean, West Balkans and Turkey. It agreed on guiding principles for development of the H2020 Assessment report.<sup>10</sup>

15. The development of the H2020 Assessment will complement and integrate other regional assessments, such as the State of Environment and Development (SoED) report, currently in preparation and planned to be published in 2019 in the framework of UN Environment/ MAP PoW, and the Quality Status Report for the Mediterranean Sea (MED QSR 2017 and 2023) based on 11 Ecological Objectives of the Mediterranean Sea and Coast adopted by the Contracting Parties to the Barcelona Convention in 2012. The SoED together with the QSR cycle can reciprocally benefit from and contribute to the H2020 Assessment.

16. Figure 1 shows a schematic representation of the components of the H2020 Assessment. The assessment will be introduced with a chapter on the assessment framework H2020, where the three pillars of H2020 will be explained briefly. In addition, the concept of Ecosystem-Based Management (EBM) and the importance thereof for a holistic approach of the system will be introduced. The scope of H2020 Assessment and the boundaries of the definition of pollution will be clarified.

17. The second chapter of the assessment is an analysis of the regional drivers behind the pressures of pollution. Socio-economic trends and regional policies will be discussed and analyzed in light of the thematic assessment on the progress on addressing pressures of pollution for the three components of pollution.

18. The third chapter is the thematic assessment which will assess in parallel Municipal Waste and Marine litter, Water and Industrial emissions. In this chapter, indicators’ trends; the progress on data and information in the region; and uncertainties related to the indicators are provided along with an explanation of findings taking into consideration responses and drivers.

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<sup>10</sup> <https://eni-seis.eionet.europa.eu/south/communication/news/annual-meeting-of-the-steering-committee-of-the-eni-seis-ii-south-support-mechanism-project-and-horizon-2020-h2020-review-and-monitoring-rm>

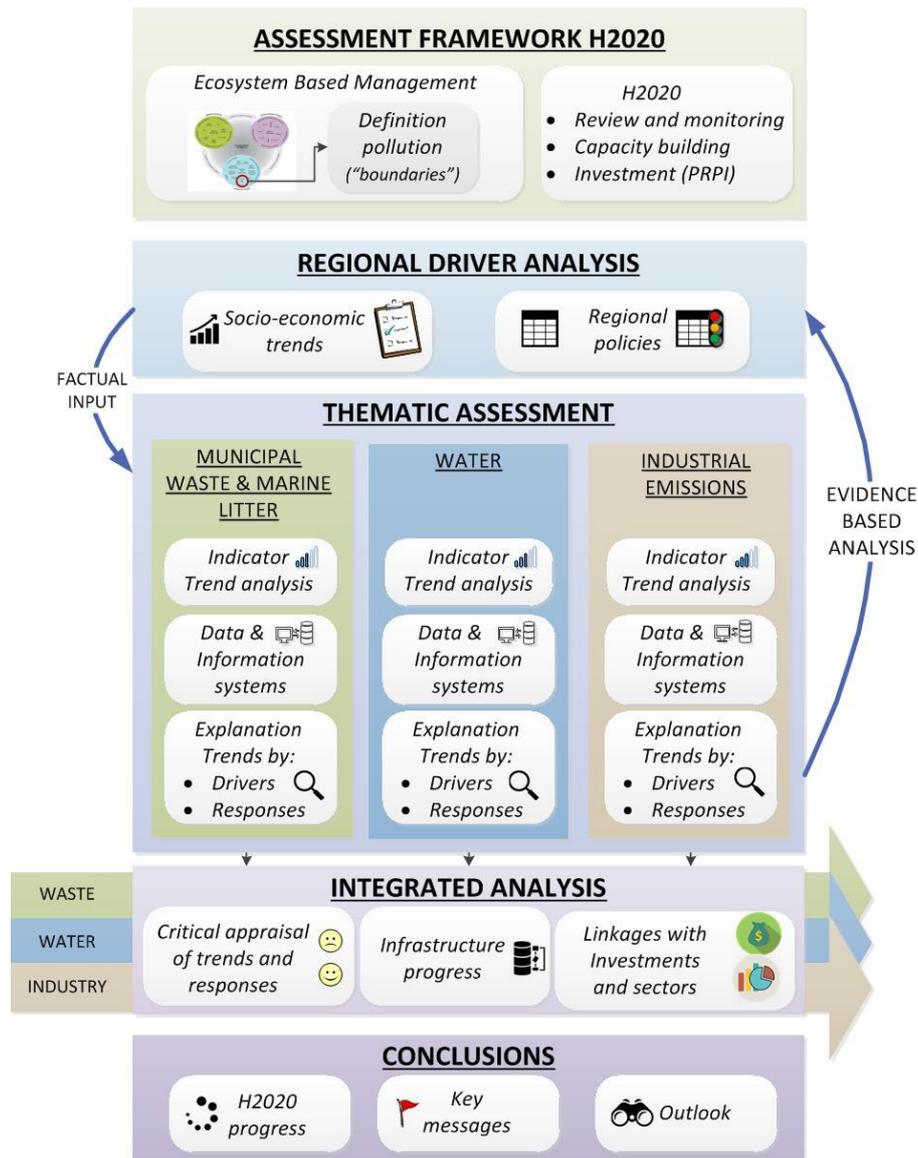


Figure 1: Schematic representation of the components of the H2020 assessment

### 3.2 Main assessment products

19. The 2<sup>nd</sup> H2020/NAP Indicator-Based Assessment Report will consist of three main products as illustrated in Figure 2:

1. **Summary/synthesis report:** including key messages from the regional assessment, achievements, lessons learned and main recommendations. This report will be distributed to UfM Ministerial Conference on Environment and Climate Change in 2020; National and regional decision makers; and key stakeholders. It will be produced in three languages (French, English, Arabic) for press and general public; also available in 5 to 10 pages in paper format.
2. **Integrated Regional Assessment report:** a basin-wide integrated assessment addressing the three priority areas of H2020 and progress towards reduction of the key sources of pollution, in particular on how H2020 Initiative has contributed to such achievements. This report will target key stakeholders, mostly the technical audience.

3. **Horizon 2020 indicators factsheets** developed by the ENP-South countries, describing their national situation with respect to the H2020/NAP indicators, in line with the Indicator Specification sheets and the guidance on Indicator Assessment. The factsheets will target key stakeholders, mostly technical audience.

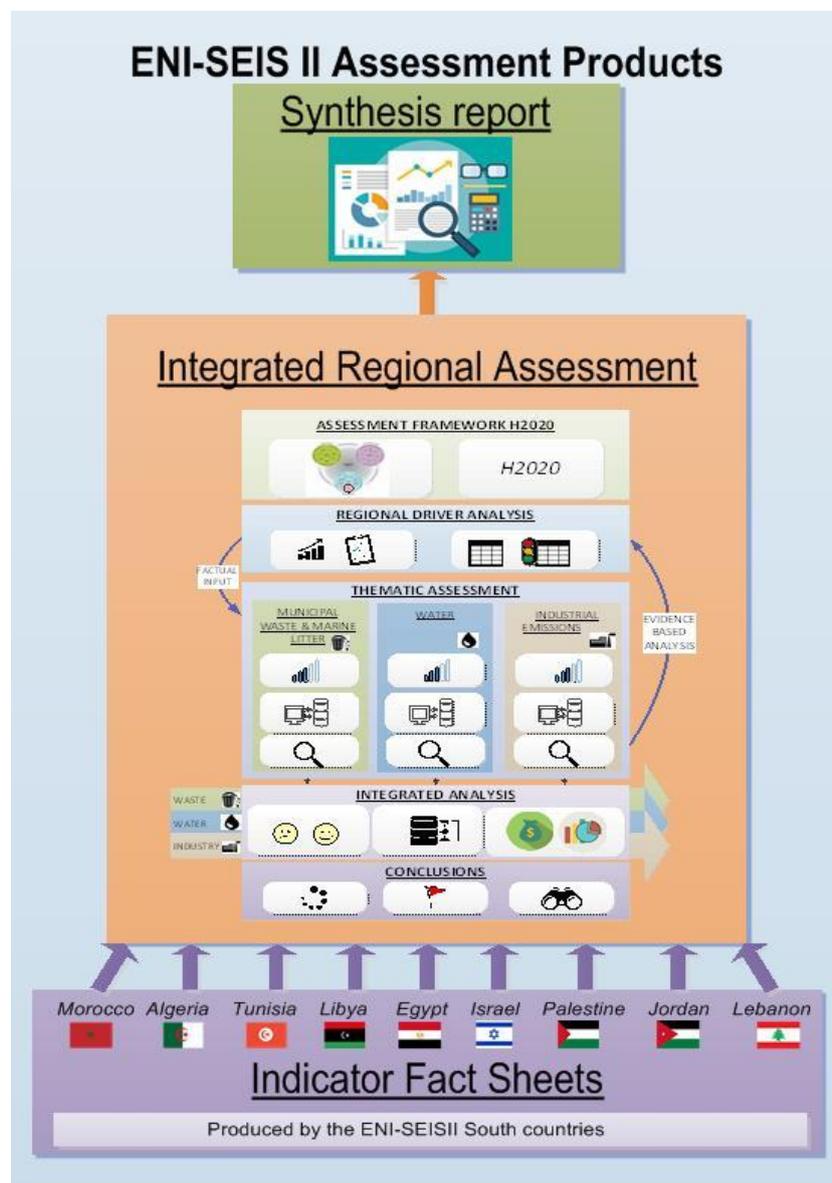


Figure 2: The three main products of the 2<sup>nd</sup> H2020 indicator-based Assessment

### 3.3 Links to the Mid Term Evaluation of National Action Plans and Regional Plans Implementation

20. In 2005-2006, the Contracting Parties to the Barcelona Convention elaborated 21 National Action Plans (NAP) and specified key actions (interventions of a policy & regulatory nature as well as concrete investments in the field of pollution reduction); the timetable for their implementation; and their cost. Measures included legal, institutional and technical targets and activities to be accomplished by 2010 and 2015.

21. At their 19<sup>th</sup> Ordinary Meeting in Athens, Greece, on 9-10 February 2016, the Contracting Parties mandated the Secretariat (MED POL) to undertake an indicator-based midterm evaluation of the NAPs implementation.

22. At their 20<sup>th</sup> Ordinary Meeting in Tirana, Albania, on 17 to 20 December 2017, the Contracting Parties mandated also the Secretariat (MED POL) to prepare reports on the implementation of existing Regional Plans/measures including socio-economic analysis to be submitted to COP 21 in December 2019.

23. In line with the above COP Decisions and the H2020 Initiative, the thematic chapter on industrial emissions of the H2020 Assessment aims to provide evidence-based analyses based on all relevant H2020/NAP indicators, populated with data, and focusing on Pressures, Drivers and Responses.

24. This chapter also focuses on the regional data landscape in terms of data availability and accessibility including regional and national progress on further building a sustainable data management and data sharing policy at regional and national levels.

25. Finally, the chapter will address regional responses in terms of implementation of regional measures including NAPs and Regional Plans related to industrial emissions. The data collected over the past NBB updates and H2020/NAP indicators will also be used to undertake evaluation of NAPs implementation and for developing new measures for pollution prevention, reduction and elimination in the Mediterranean.

### 3.4 Proposed Questions for response by the H2020 Assessment Report

26. Based on the assessment outline described above; the collected data; and the indicator factsheets submitted by the Countries in line with the data standards and data dictionaries uploaded to the MAP/MEDPOL Infosystem and InfoMAPNode for industrial emissions; the H2020 Assessment report aims at responding to the following key questions:

#### I. What are main pressures from industrial sectors? (Indicator-based trend analysis – Pressures)

- i. What are the trends on release of nutrients from industrial sectors? (IND 6.1)
- ii. What are the trends of releases of toxic substances from industrial sectors? (IND 6.2)
- iii. How are we doing on managing our hazardous waste? (IND 6.3)?

#### II. What is the regional data landscape and what are the main improvements in the national and regional information systems? (Infrastructure)

- i. Are countries monitoring the environment with their infrastructure? How is the landscape in terms of data availability?
- ii. What are the National and Regional responses in terms of data reporting on Industrial Emissions: NBB/PRTR Infosystem and IMAP
- iii. What are the main data gaps and uncertainties that persist in the region?
- iv. Case studies on best practices related to on innovative solution; industries reporting; and implementation of NAPs and Regional Plans/hotspots elimination as explained below.

#### III. How are these trends related to the prevailing main industrial sectors? (Drivers)

- i. Is there any change since last Cycle of NBB update on the main economic sectors? (NAP Benchmark, 2013);
- ii. What are the main drivers for change in economic sectors?
- iii. Case studies on best practices related to on innovative solution; industries reporting; and implementation of NAPs and Regional Plans/hotspots elimination as explained below.

#### IV. How do trends reflect the responses from the region to preventing pollution from Industrial Sectors (Responses)

- i. What measures under NAPs have been implemented and how this is contributing to prevention and reduction of pollution from Industrial Sectors? (NAPs midterm evaluation)
- ii. What measures under Regional Plans have been implemented and how this is contributing to prevention and reduction of pollution from Industrial Sectors?
- iii. What national measures under other policy framework have been implemented on the national level and how this is contributing to the prevention and reduction of marine pollution from land-based sources (industrial emissions)?
- iv. What are the compliance measures aiming at the reduction and/or elimination of pollutants generated by Industrial Sectors (IND 6.4.2)?
- v. Case studies on best practices related to innovative solution; industries reporting; and implementation of NAPs and Regional Plans/hotspots elimination as explained below.

27. The countries are invited to present “case studies” and/or “success stories” in the following (but not limited to) areas:

- a. Best Practices on innovative solutions pushing for change: Circular Economy, Sustainable Consumption and Production, Blue economy, Nature Based Solutions for pollution control and prevention; (3<sup>rd</sup> sub-chapter under the thematic assessment on industrial emissions cluster).
- b. Best practices on industries reporting periodically loads of pollutants under the national and international obligations (PRTR, any national information system) 4<sup>th</sup> sub-chapter under the thematic assessment on industrial emissions cluster).
- c. Best practices on implementation of NAPs and Regional Plans; hot spot elimination
- d. Any other area where the countries has advanced

28. The meeting is expected to discuss the proposed structure and key questions of the H2020 Assessment Report and to advise and agree on the way forward for the completion of the H2020 Assessment Report.

#### **4 H2020 Assessment: Next Steps and Timeline**

29. The population of H2020/NAP indicators via InfoMAPNode with the support of Info-RAC and EEA - *in progress*.

30. The 4<sup>th</sup> Cycle of NBB update with the support of UN Environment/MAP - MED POL. As indicated above, the data collected through NBB reporting is expected to populate some of H2020/NAP Industrial Emission Indicators – *in progress*.

31. The population of other H2020/NAP indicators/sub-indicators supported through a number of SSFAs with the countries funded either through ENI SEIS II Project or MED POL through its MTF funded PoW – *in progress*.

32. For the purpose of H2020 Assessment with regards to Industrial Emissions Cluster, the Countries can also benefit from the following ongoing reporting exercises:

- The Barcelona Convention Reporting System (including LBS Protocol and Regional Plans); National reports are under preparation.
  - *Deadline for the Contracting Parties to submit their national reports for the 2016-2017 biennium is end of February 2019; Reports for previous years already submitted to MED POL with some gaps.*
- Reports by the Contracting Parties to the Basel and Stockholm Conventions.
  - *Several MED POL FP are sharing these reports with MED POL. They contain valuable information on several sub-indicators of Industrial Emission Cluster;*
- Reports and data gathered for several H2020/NAP indicators.

- *Countries submissions in progress in line with the implementation of Small-Scale Funding Agreements (SSFA) supported both by ENI SEIS II Project and MED POL through its MTF funded PoW.*

- Results of the evaluation on implementation of the existing Regional Plans
  - *Currently undertaken by MED POL and any relevant reports provided by the Contracting Parties in support of this evaluation exercise.*

33. The countries will be provided with technical assistance to ensure that the assessment facts sheets for each H2020 Industrial Emission Indicator is timely prepared in conformity with data specifications and standards that were commonly agreed in 2018.

34. The proposed timeline for development of the H2020 Assessment is as follows:

- H2020 Assessment Outline prepared and agreed with annotations till April 2019.
- Collection of data and fact sheets for each indicator, latest end of July 2019.
- Extensive consultations with the Countries on the Draft H2020 Assessment in July and August 2019.
- The last day for data and case studies submission end of August 2019.
- The H2020 Assessment Report to be finalized by end of October 2019.