

***Implementation of the Shared Environmental  
Information System (SEIS) principles and practices in the  
ENP South region  
ENI SEIS South Support Mechanism (2016-2019)  
Context and state of play***

***ENI SEIS II South Support Mechanism  
Country visit Jordan, 14-15 May 2018***



*This project is funded by the European Union*



European Environment Agency



# The European Environment Agency (EEA)

---

- The European Environment Agency (EEA) is an EU Agency providing timely, targeted, relevant, and reliable information on Europe's environment.
- Coordinate the **European environment information and observation network (Eionet)**

Network of around:

- **1 500 experts** from
- **39 countries** in up to
- **350 national bodies** dealing with environmental information



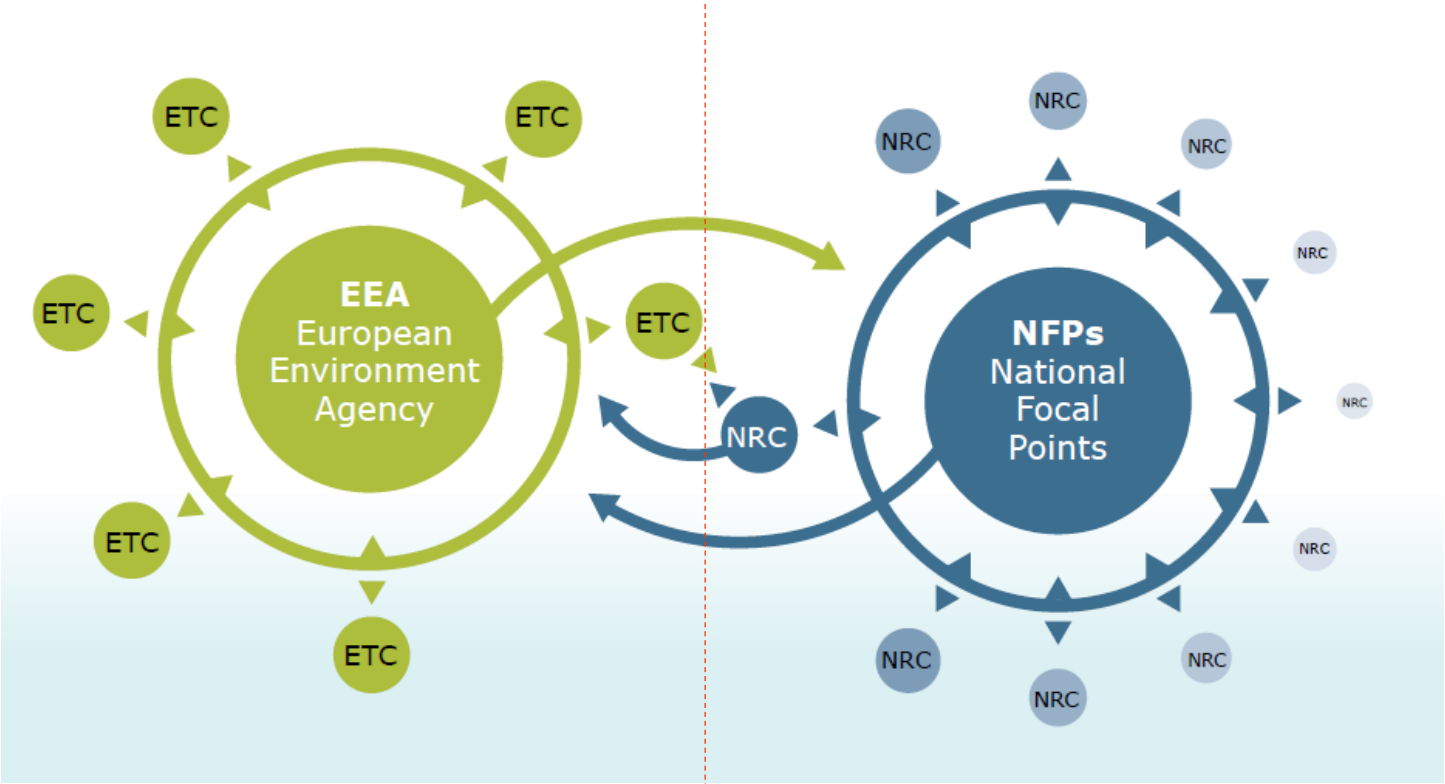
33 Member countries (EU28+5) +  
6 Cooperating countries (West Balkan)

# Eionet structure (European vs. national)

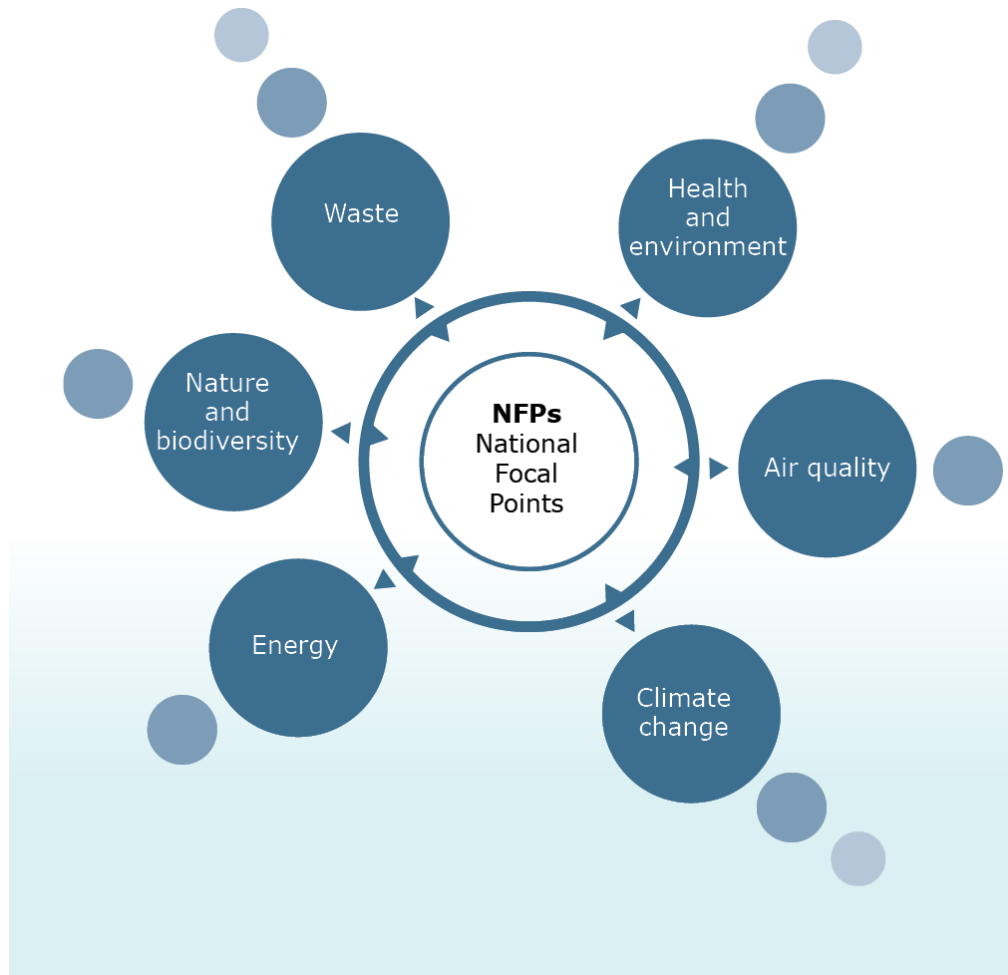
## European Topic Centres (ETC)

## National Reference Centres (NRC)

6



# National Reference Centres (NRC) – 24 expert networks

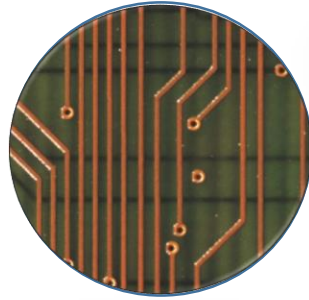


Agriculture  
Air Quality  
Biodiversity data and information  
Biodiversity and ecosystems indicators and assessment  
Climate Change Impacts, Vulnerability and Adaptation  
Communication  
Energy  
Environmental Information Systems  
Forward looking information and services  
Health  
Industrial pollution  
Land Cover  
Land Use and Spatial Planning  
Marine, coastal and maritime  
Mitigation of air pollution and climate change  
Noise  
Resource-efficient economy  
State of the Environment (SoE)  
Soil  
Transport  
Waste  
Water Emissions  
Water quality and ecology  
Water quantity

# Shared Environmental Information System – SEIS



Content



Infrastructure



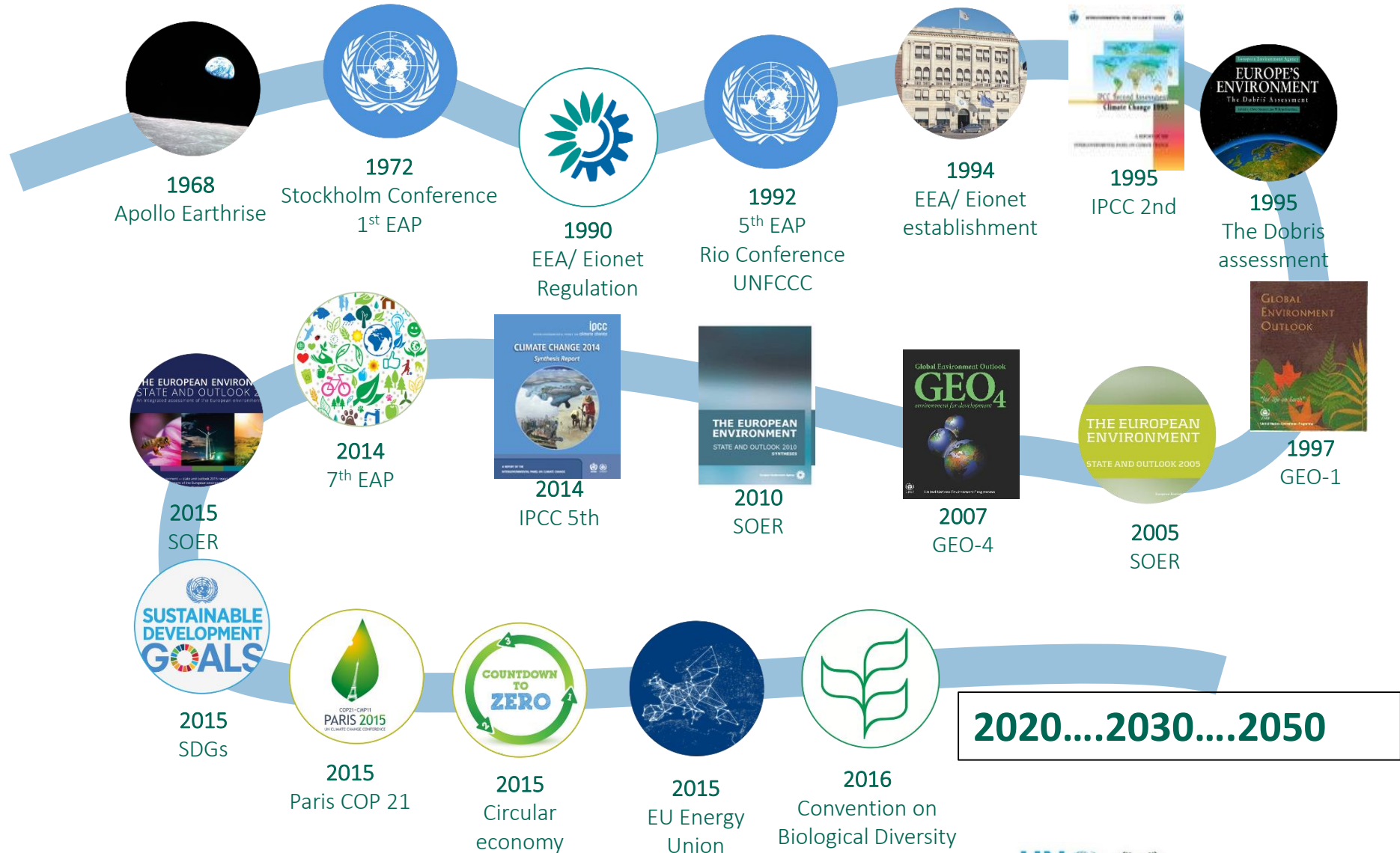
Cooperation

## Principles:

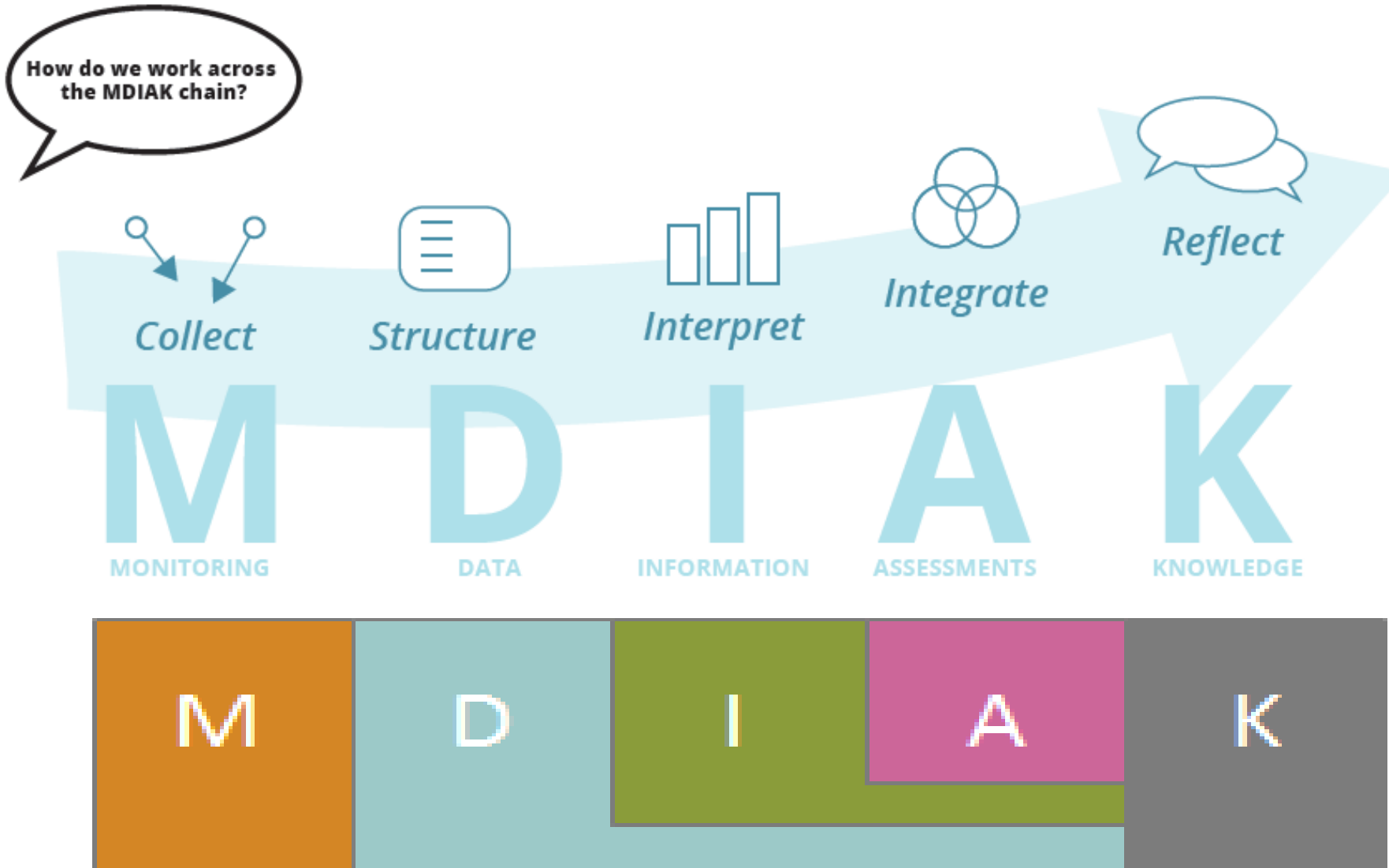
1. Managed **as close as possible** to its source.
2. **Collected once** and shared with others for many purposes.
3. **Readily available** to easily fulfil reporting obligations.
4. Easily **accessible** to all users.
5. **Accessible** to enable comparisons at the appropriate geographical scale and the participation of citizens.
6. **Fully available to the general public** and at national level in the relevant national language(s).
7. Supported **through common, free, open software standards**.



# 40 years of environmental assessments



# Building knowledge



# Examples of European knowledge platforms

**WATER**

The Water Information System for Europe – or more commonly known as WISE – is your gateway to information on European water issues. It compiles a wide range of data and information collected by EU institutions to serve several stakeholders.

WISE is a partnership between the European Commission (DG Environment, Joint Research Centre and Eurostat) and the European Member States. It is a joint effort to provide a comprehensive overview of the roles and responsibilities of the various stakeholders in the water sector.

- DG Environment, leads the process of collecting and reporting data on water quality, especially on official reporting requirements.
- The European Environment Agency hosts the Water Data Centre and the thematic WISE webpages. For more information: <http://www.eea.europa.eu/themes/water/dc> <http://www.eea.europa.eu/themes/water>
- The Joint Research Centre conducts environmental monitoring, including nowcasting and forecasting services. For more information: <http://ies.jrc.ec.europa.eu/the-institute/> <http://iodon.jrc.ec.europa.eu> <http://desert.jrc.ec.europa.eu> <http://fate.jrc.ec.europa.eu>

**CLIMATE CHANGE**

Climate-ADAPT: Sharing adaptation information across Europe

About Climate Change Adaptation in Europe

The European Climate Adaptation Platform (Climate-ADAPT) aims to support Europe in adapting to climate change. It is an initiative of the European Commission and helps users to access and share information on:

- Expected climate change in Europe
- Current and future vulnerability of regions and sectors
- National and transnational adaptation strategies
- Adaptation case studies and potential adaptation options
- Tools that support adaptation planning

**AIR QUALITY**

EIONET The Air Quality Portal

Welcome to the Air Quality Portal

This portal contains details relevant for the reporting of air quality information from EU Member States and other EEA member and co-operating countries. This information is submitted according to Directives 2004/107/EC and 2008/50/EC of the European Parliament and of the Council. The rules for this exchange are set out in the Commission implementing decision 2011/850/EU.

The different sections can be accessed by clicking on the tabs above or via the links on the side bar. The [site map](#) allows you to access directly any section or sub-section of the portal.

Comments and suggestions

What's new

- working documents
- new viewer, search

Important notifications

- Deployment of new set of QA checks
- What to do in case of change of local IDs for sampling point, process and/or feature of interest
- Codes were used for B&P and Heavy Metals

**BIODIVERSITY**

EU Biodiversity Strategy to 2020

Our life insurance, our natural capital

The protection, conservation and enhancement of the Union's natural capital is one of the 9 priority objectives of the 7th General Union Environment Action Programme to 2020. Living well, within the limits of our planet.

BISE Highlights

- Towards the 2020 biodiversity targets
- Mapping and Assessment of Ecosystems and their Services (MAES)
- BISE - CHMs network of Europe
- Mid-term review of the EU biodiversity strategy to 2020
- Leaflet and interactive presentation
- Interactive presentation of EU Biodiversity Strategy Mid Term Review
- Progress against targets

News - Europe

- LIFE, 18 Nov 2016: LIFEEnve N°9 2016
- EC, 17 Nov 2016: Urban neighbourhood resilient food new assessment tool hamburg
- EC, 17 Nov 2016: How to increase uptake environmentally friendly fertilisers germany
- EC, 17 Nov 2016: Nitrication inhibitors climate change mitigation ipcc less effective than thought
- EC, 17 Nov 2016: Household sources biocidal active substances assessed

News - World

- CBD, 22 Nov 2016: What will 1.5°C of global warming actually look like?
- CBD, 22 Nov 2016: Climate Change Is Hindering The Cooling Properties Of Earth Volcanoes
- CBD, 22 Nov 2016: Marrakech: Where Extraordinary Momentum Is Shown on Climate Change
- CBD, 22 Nov 2016: Coal Mine Threatens Ecological Paradise in Chile's Patagonia Region
- CBD, 22 Nov 2016: Glow-in-the-dark geckos' help in

**LAND**

Copernicus Land Monitoring Service

Global Pan-European Local Reference data

Copernicus is an European system for monitoring the Earth. Data is collected by different sources, including Earth observation satellites and in-situ sensors. The data is processed and provides reliable and up-to-date information about six thematic areas: land, marine, atmosphere, climate change, emergency management and security. The land theme is divided into four main components:

- Global**: provides a series of bio-geophysical products on the status and evolution of the land surface at global scale at mid and low spatial resolution.
- Pan-European**: provides information about the land cover and land use (LC/LU), land cover and land use changes and land cover characteristics.
- Local**: focuses on different hotspots, i.e. areas that are prone to specific environmental challenges and problems.
- Reference data**: All of the Copernicus services need access to in-situ data in order to ensure an efficient and effective use of Copernicus space-borne data.



# A long standing Mediterranean cooperation



## EEA and ENI SEIS II South project coverage

- EEA member countries
- EEA cooperating countries
- ENI SEIS II South

The map does not imply any opinion from EEA concerning the legal status of any country or territory, its area of authority or the delination of its frontiers and boundaries.

\* Collaboration is temporally suspended

**Regional project** – supporting a long-term engagement to EU policies and external policy framework aligning to the ***Union for the Mediterranean*** and ***Barcelona Convention*** efforts on reducing marine pollution

## EEA and UN environment / MAP

- Co-chairs of the Review and Monitoring group of the H2020 Initiative for a cleaner Mediterranean
- Joint implementation of ENI SEIS II South SM

Building on outcomes of 2010-2015 activities (ENPI-SEIS, InSEIS)

Commitment to sustain the cooperation with the European Neighbourhood partners in the South, drawing on **Eionet support and identified good practice examples**



# Union for the Mediterranean (UfM) Horizon 2020 Initiative for a cleaner Mediterranean - Review and Monitoring work plan 2015-2020



- *To enhance optimal national information systems allowing for systemic production of indicator-based reporting and sharing of data*
- *To expand the existing H2020 priorities with a particular focus on water, solid waste and industrial emissions, identify and address additional priority areas*
- *To ensure the sustainability of the governance setup of the H2020 review processes*
- *To encourage the integration of outcome of the H2020 review in the policy making process at regional and national level*

# H2020 initiative for a cleaner Mediterranean – towards post-2020

**2017** – assessing progress of Ministerial Declaration implementation, creation of a dedicated Task Force on Environment to prepare next UfM ministerial and post-2020 agenda

## ***Select H2020 indicator set***

**2018** – H2020 SG meeting, 1<sup>st</sup> meeting of the UfM Task Force

## ***Development and production of H2020 indicators***



- *State of sea still degrading*
- *Confirmed need for a **renewed review process** – embracing complex interactions, integration of the actions taken, taking into account the global and regional context/trends*
- *Support the operationalisation of an **effective regional information system based on solid national information system** and promote **integrated environmental approaches***



*2<sup>nd</sup> H2020 indicator-based assessment, MAP/Plan Bleu SoED, EEA SoER 2020  
UfM evaluation of Ministerial Declaration*



# ENI SEIS South Support Mechanism - Key project elements

---

**Objective:** To improve the availability and access to environmental information to the benefit of effective and knowledge-based policy-making.

**Expected results:**

- The H2020 **indicator set** is refined and complemented to serve multiple purposes.
- The in-country processes for organising **sharing of data sets** underlying the H2020 indicators are stabilised.
- **Indicator-based H2020 report** and assessments are produced in line with EEA/Eionet practices.
- The **infrastructure** for reporting offered by the EEA and UNEP/MAP is more widely used.

**Duration:**

48 months  
(01 February 2016 –  
31 January 2020)

**Budget:**

€4.2 M

**EEA-UNEP/MAP  
project team:**

3 fte project-funded

**Resources:**

EEA-UNEP/MAP experts  
Framework contractors  
Eionet partners

# Half way through – starting 3rd year of implementation

**Funding support (SSFA)**

**Regional and national work plans**

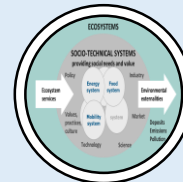
**Governance in the partner countries in place**

**Review of the H2020 indicator set**

**Full project team from EEA and UNEP/MAP side**

**Synergies with relevant regional initiatives**

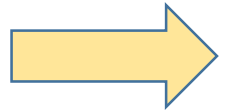
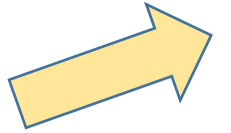
**Survey on metadata catalogue**



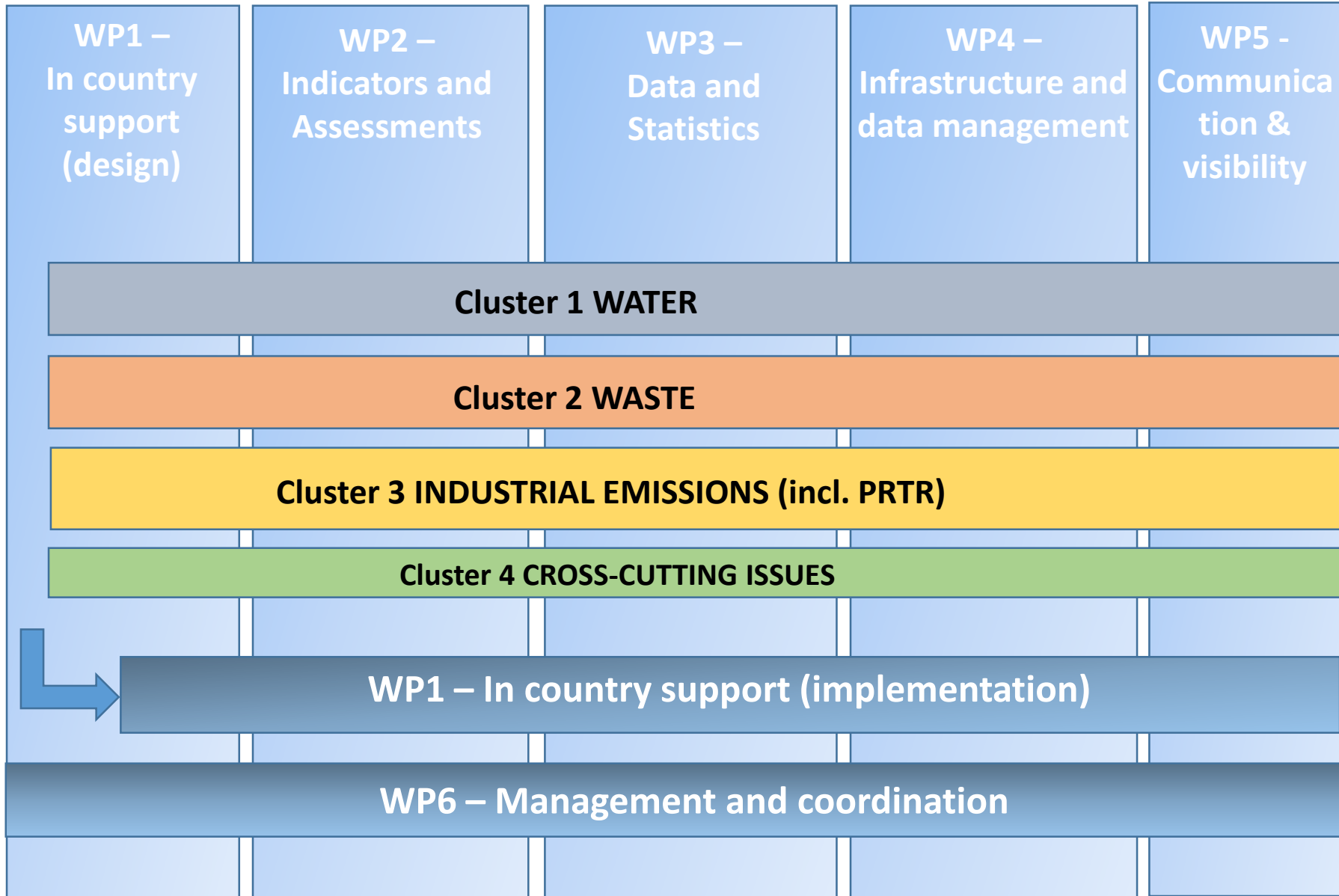
# Expected results – State of Play

---

- R1: H2020 indicator set is stabilised, refined and complemented
  - *a) serve multiple purposes*
  - *b) ensure proper measurement of progress in achieving H2020 objectives*
  - *c) assess compliance with the countries' commitments under the Barcelona Convention*
- R2: National processes for sharing data sets underlying the H2020 indicators are stabilised.
- R3: The infrastructure for reporting offered by the EEA ('Reportnet') and UNEP (UNEP/MAP Reporting Network) is more widely used.



# Conceptual framework for the SEIS Support Mechanism - South



- EEA – overall coordination
  - Leads water cluster, cross-cutting
  - Leads design WP1
  - Leads WP 2&3
- UN environment MAP
  - Leads waste & industrial emissions clusters
  - Leads implementation WP1
  - Leads WP4

# Contribution to the Regional Information system InfoMAP

---

- Indicators factsheets (methodological specification)
- **Data availability - Online survey**
- Establish catalogue of metadata (SDI)
- Setup data exchange schema (xml)
- QA/QC procedures
- Convergence with Reportnet : CDR repository, data dictionaries (data sets description, vocabularies, schemas)
  
- SSFA; Regional Workshop on data management and infrastructure (July, Italy)
- Data call planned in September



# Timeframe



**H2020 initiative for a Cleaner Mediterranean**

Athens Declaration (May 2014)

- H2020 programme of work 2015-2020
- H2020 Indicators and assessment

**UNEP/MAP Barcelona Convention**

Ecosystem approach, SEIS principles

- NAP implementation
- IMAP – set of common indicators
- MSSD

**REGIONAL**

Quality Status Report  
IMAP InfoSystem

Indicator management,  
data service

2<sup>nd</sup> H2020 indicator based assessment

UNEPMAP SoED

2020/2021 Next reporting cycle

EU Euro-MED Global



**NATIONAL**

**Inception phase**

- Establishment of national work plans

**Anchoring the work in national setting**

- National Team (mandate, objectives)
- National pilot/case
- National support
- Links to other initiatives
- H2020 Indicators
- Assessment framework

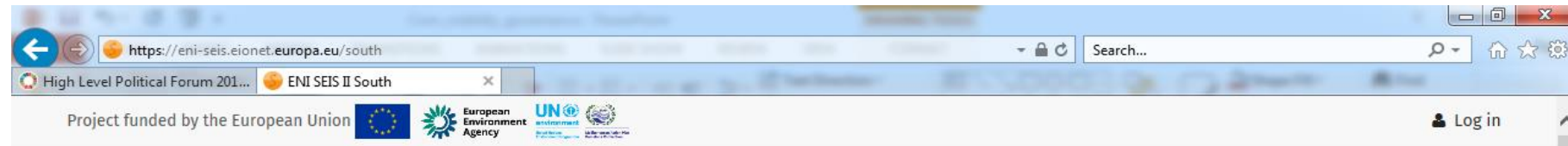
**Results available**

- Sharing of experiences among countries
- National achievements in regional setting
- Data quality
- H2020 Country Profile
- Endorsement of results

**“Evidence-based policy making”**

- Country level assessments
- Contribution to H2020 report
- Reporting/availability of indicators
- Policy briefs

# Project Website



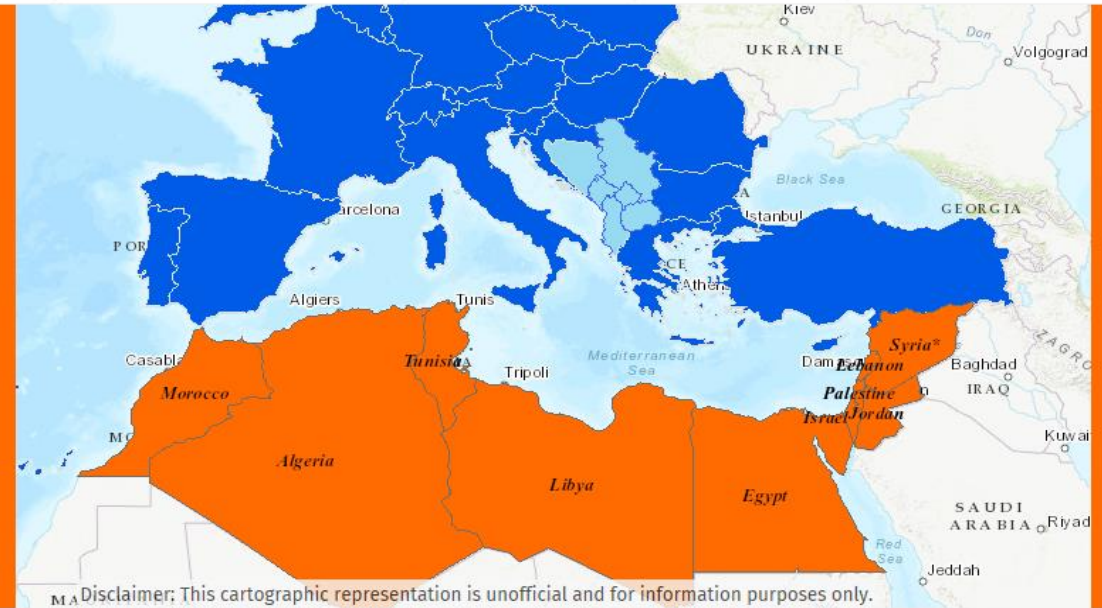
## ENI SEIS II South

Implementation of the [Shared Environmental Information System \(SEIS\)](#) principles and practices in the [ENP South region](#) - SEIS Support Mechanism

[Home](#) [About ENI SEIS II](#) [Areas of work](#) [Countries](#) [Related initiatives](#) [Communication](#) [Contact us](#)

### ENI SEIS II SOUTH PROJECT SEIS SUPPORT MECHANISM

aims to contribute to the reduction of the marine pollution in the Mediterranean by developing a Shared Environmental Information System (SEIS) supporting the regular production and sharing of quality assessed environmental data, indicators and information.



http://www.unep.org/uneppmap/what-we-do/projects

Projects | UNEPPMAP



United Nations Environment Programme  
Mediterranean Action Plan  
Barcelona Convention

Coordinating Unit for the Mediterranean  
Secretariat to the Barcelona Convention

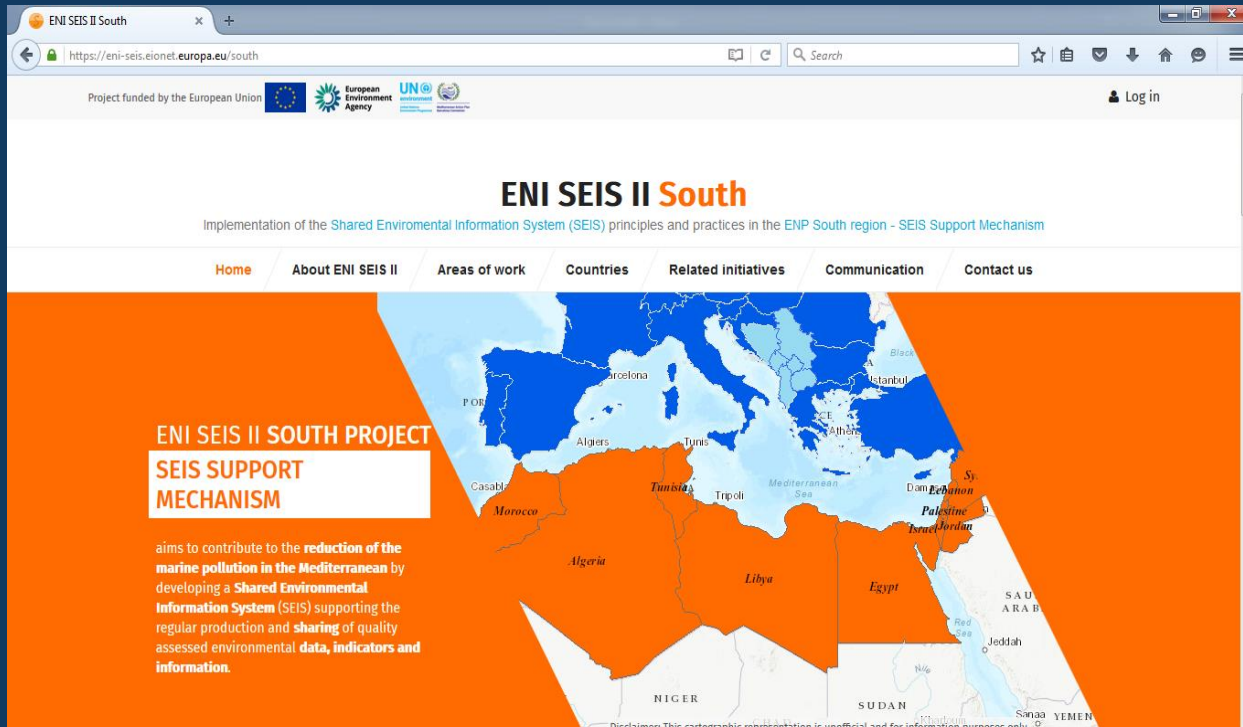
[Who we are](#) [What we do](#) [Action Plan](#)



PROJECTS



# Thank you for your attention!



United Nations Environment Programme  
Coordinating Unit for the Mediterranean Action Plan

Vassileos Konstantinou 48

Athens 11635, Greece

[www.unepmap.org](http://www.unepmap.org)

European Environment Agency (EEA)

Kongens Nytorv 6

1050 Copenhagen K, Denmark

E-mail: [ENI-SEIS2@eea.europa.eu](mailto:ENI-SEIS2@eea.europa.eu)

<http://www.eea.europa.eu/>

<http://eni-seis.eionet.europa.eu/south>



This project is funded by the European Union



European Environment Agency



***Implementation of the Shared Environmental  
Information System (SEIS) principles and practices in the  
ENP South region  
ENI SEIS South Support Mechanism (2016-2019)  
Indicator based report***

***ENI SEIS II South Support Mechanism  
Country visit Jordan, 14-15 May 2018***



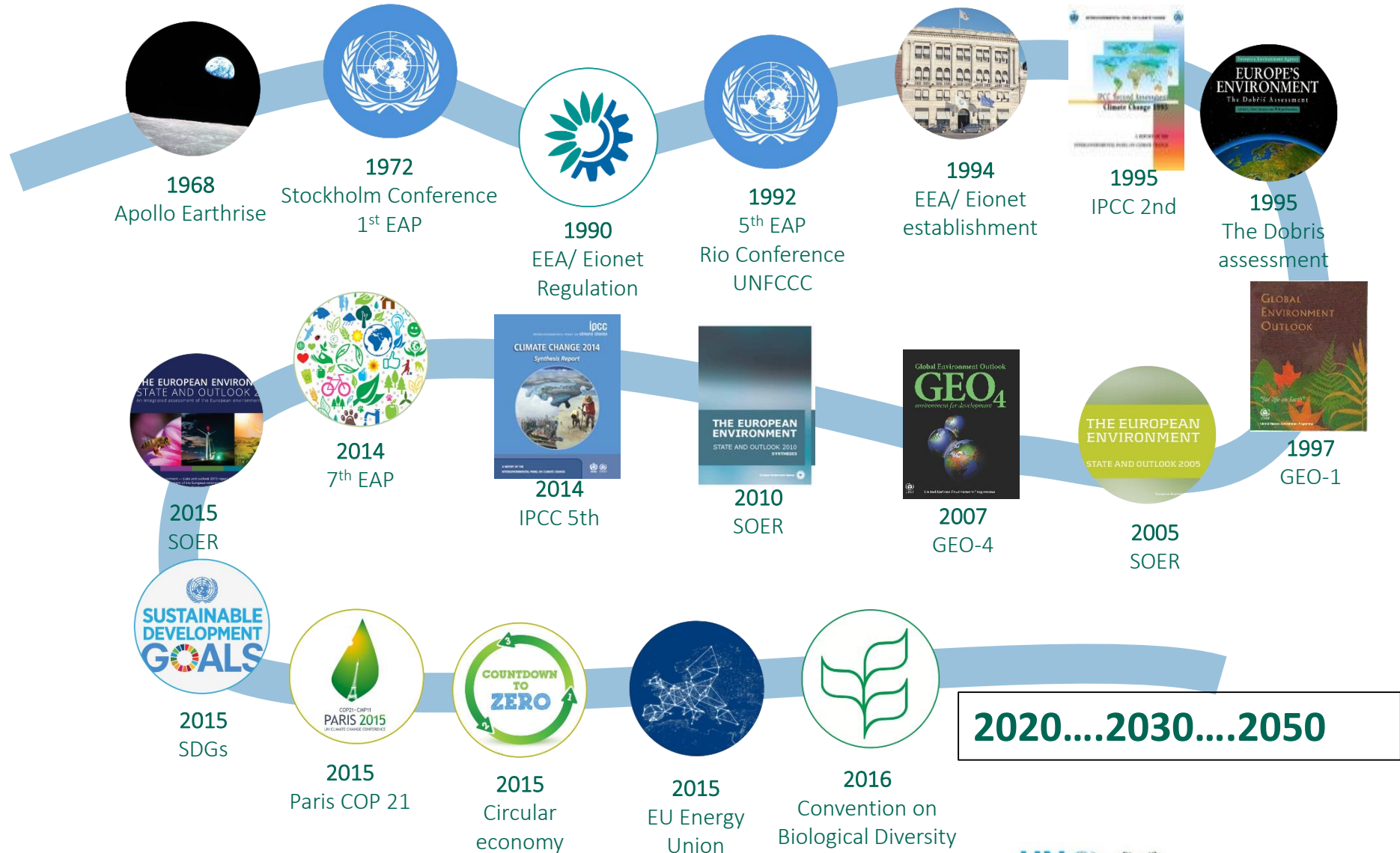
*This project is funded by the European Union*



European Environment Agency



# 40 years of environmental assessments



# What is an environmental assessment?

---

**An assessment is** ... the entire analytical process for undertaking a critical objective evaluation and analysis of data and information designed to meet user needs and support decision-making. It applies the judgement of experts to existing knowledge to provide scientifically credible answers to policy relevant questions, quantifying where possible the level of confidence.

Source: UNEP IEA Training Manual



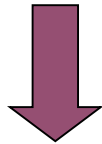
**An assessment is not** a research project, review paper, or advocacy piece



# What is the progress in depolluting the Mediterranean ?

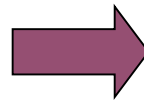
## 1. What is the problem?

- What are the main pollution sources?
- What are the levels and trends?



## 2. What has been done?

- Which actions, projects have been carried out to tackle these pollution sources?



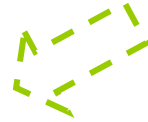
## 4. What are the next steps?

- What are lessons learnt?
- What can we do better?
- How much would that cost?
- Which other sources of pollution are becoming important?



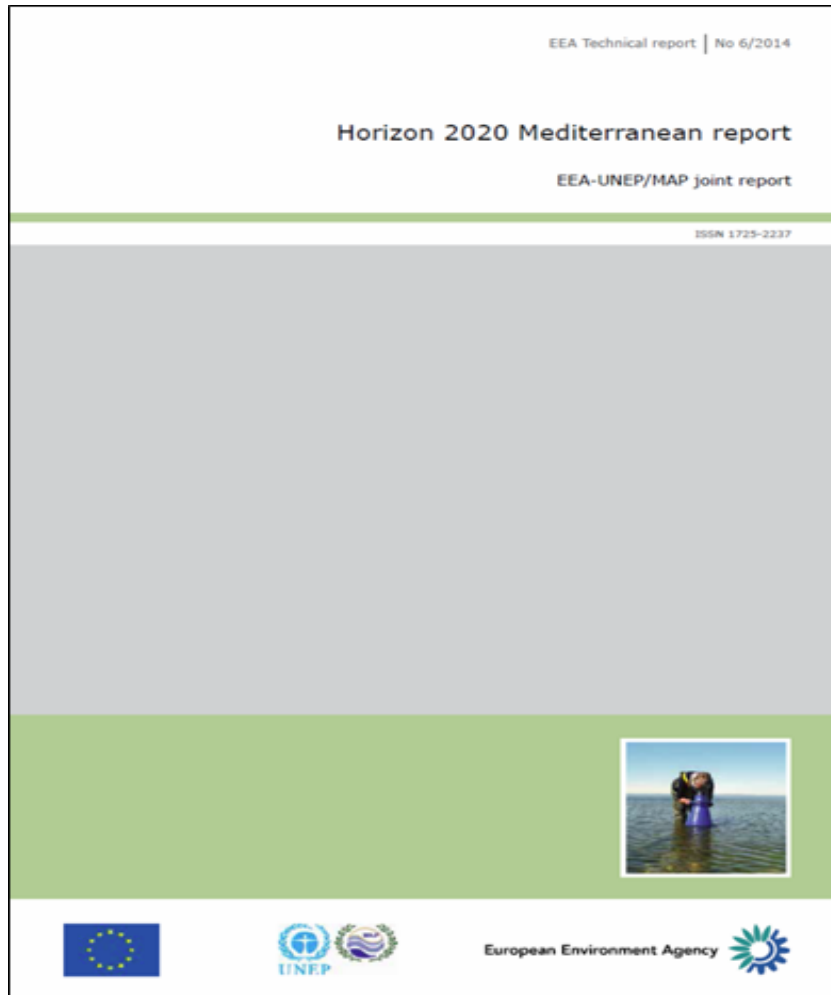
## 3. Did it work?

- Can we measure the effectiveness of these actions?
- Were these actions successful?
- What is the comparative performance of these actions?



# Horizon 2020 Mediterranean report – Toward shared environmental information systems

EEA-UNEP/MAP joint report, May 2014



- Indicator-based assessment coordinated by **EEA/ETC and UNEP/MAP** under ENPI-SEIS project (2010-2015)
- Focus on **waste water and sanitation, solid municipal waste and industrial emissions**
- Recognising efforts put by all partner countries, report concludes that **the region needs to work even harder together in order to meet its target to depollute the sea by 2020**

**Country-level assessments**  
for 5 countries:  
Israel  
Jordan  
Morocco  
Palestine  
Tunisia



# Renewed review process – towards integration

---

Numerous indicators processes (SDGs, MSSD, SCP, NAP, IMAP, MSFD, EEA CSI, H2020, national indicators, etc) and related data needs

Multiple reporting processes, infrastructure and information platforms

Multiple demands for assessments and reports (QSR, NAPs mid-term review, SoED, State of European Seas, H2020, national SoER, etc)



How to operationalise the integration of those elements, use efficiently existing observation, data and information efforts to support effective evidence-base policy making for the Mediterranean?

# Timeframe



**H2020 initiative for a Cleaner Mediterranean**

Athens Declaration (May 2014)

- H2020 programme of work 2015-2020
- H2020 Indicators and assessment

**UNEP/MAP Barcelona Convention**

Ecosystem approach, SEIS principles

- NAP implementation
- IMAP – set of common indicators
- MSSD

**REGIONAL**

Quality Status Report  
IMAP InfoSystem

Indicator management,  
data service

2<sup>nd</sup> H2020 indicator based assessment

UNEPMAP SoED

2020/2021 Next reporting cycle

EU Euro-MED Global



**NATIONAL**

**Inception phase**

- Establishment of national work plans

**Anchoring the work in national setting**

- National Team (mandate, objectives)
- National pilot/case
- National support
- Links to other initiatives
- H2020 Indicators
- Assessment framework

**Results available**

- Sharing of experiences among countries
- National achievements in regional setting
- Data quality
- H2020 Country Profile
- Endorsement of results

**“Evidence-based policy making”**

- Country level assessments
- Contribution to H2020 report
- Reporting/availability of indicators
- Policy briefs

# Streamline knowledge base – combining different data sources

---

H2020 Indicators (country assessment, regional assessment)

Key messages, trends analysis/distance to targets, case study/stories

Linking thematic analysis with H2020 efforts (investments, capacity building/policy development/stakeholder engagement), knowledge development (availability, access to data/information, analytical tools, etc)

National State of the Environment

NAP implementation report

National contribution to SDG report

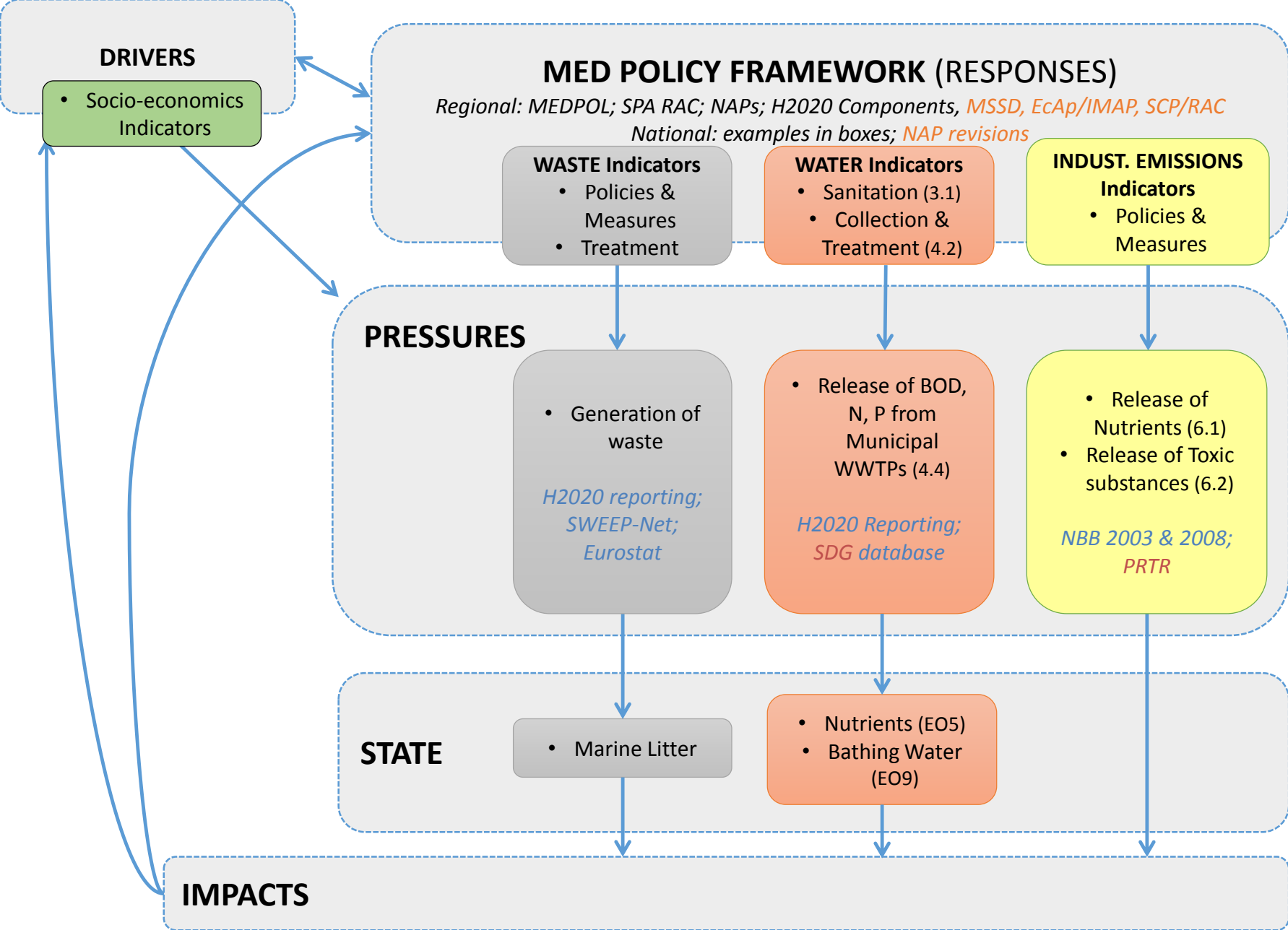
Quality Status Report

State of the Environment and Development SoED

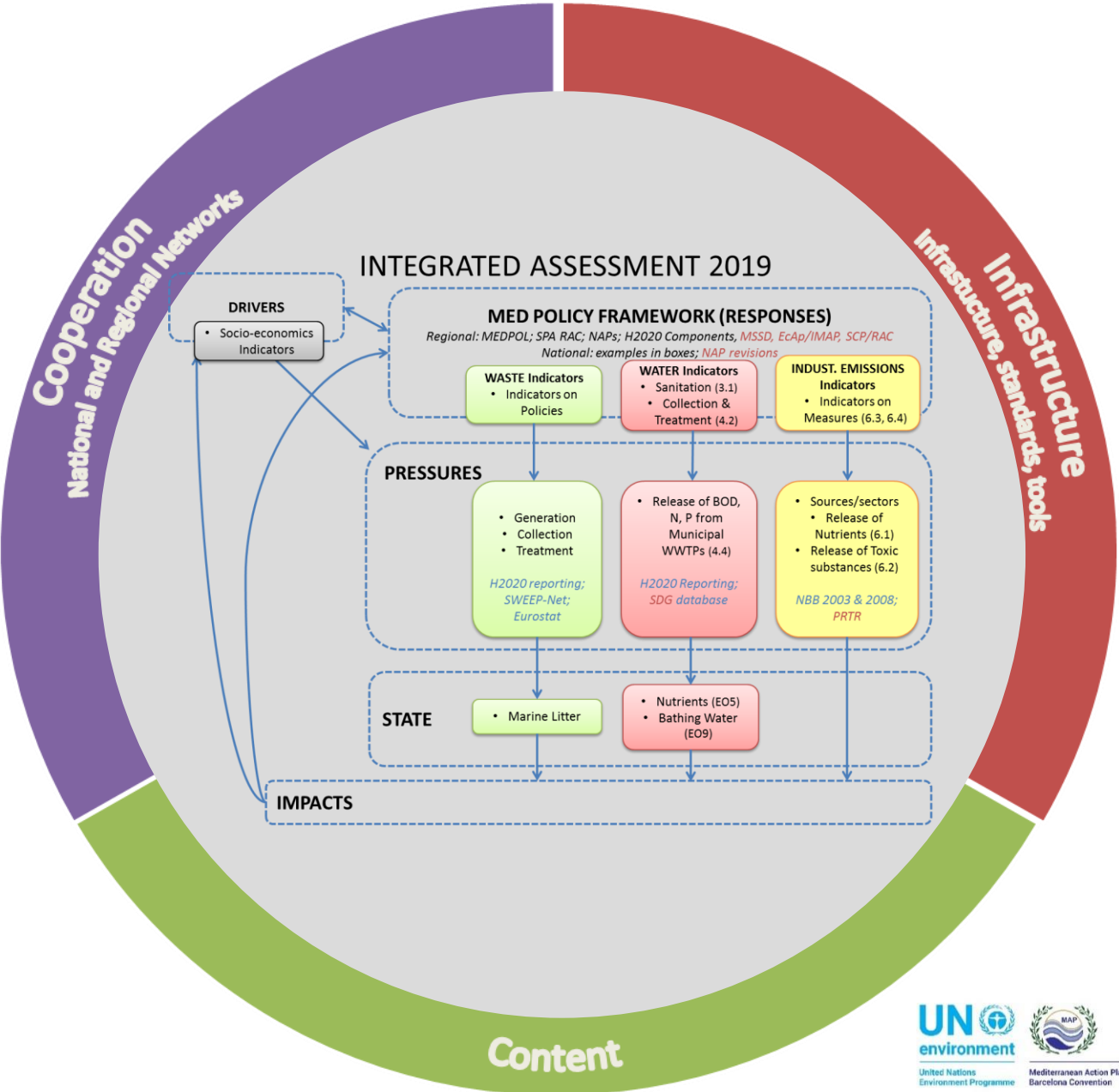
EEA thematic assessments, SoER 2020



# H2020 INTEGRATED ASSESSMENT 2019



# Proposed renewed H2020 Assessment Framework



# Draft Outline

## 1. Setting the scene – H2020 Initiative and the Integrated Regional Assessment

*Presenting Mediterranean’s relevant policy frameworks and long-term sustainability goals as well as Mediterranean context and trends*

Starting point is H2020 2014 conclusions

- Describing the **policy framework** 2020–2030–2050 (BC/ECAP, ENP/UfM, 7<sup>th</sup> EAP, Paris Agreement, SDGs), with a focus on recent developments
- Assessing **key characteristics and trends** of the Mediterranean

SoED 2019  
SOER 2020

## 2. Assessment of progress in depolluting the Mediterranean Sea

*Assessing progress to established environmental policy goals and H2020 actions looking at the key H2020 areas*

*Policy context, Key trends (with country-level info) and outlooks, Progress to targets, Policy responses*

- Municipal solid waste and marine litter
- Water
- Emissions and hazardous waste from industrial sectors

QSR 2017  
H2020 indicators  
Country Profile

## 3. Conclusions and Perspectives

*Delivering key messages and reflections on challenges encountered and what lies beyond the Horizon*



# Development principles

1. Integration of **various source of information** - data, indicators, case studies, best practices, national assessment
2. Based on renewed **H2020 indicators set**
3. **Coordinated approach** with SoED
4. **Integrated assessment** across all H2020 components
5. Highlight **uncertainties , knowledge gaps**
6. **Full MED coverage** - visibility of ENI, EU member States, West Balkans, Turkey **work** in synergy with other EU work and some international organisations

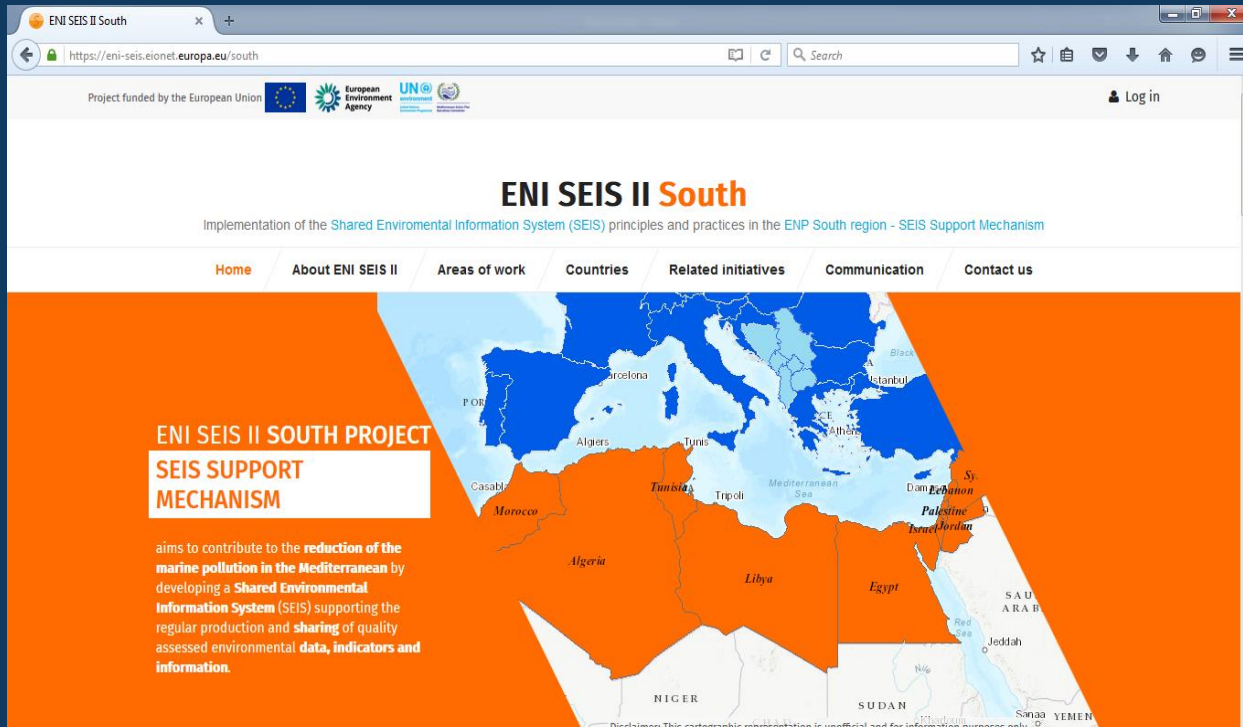


# Next Steps – country contribution

<i>Actions</i>	<i>Expected timing</i>	<i>Support</i>
<i>Populate and assess H2020 indicators</i>	<i>Q2-Q3 2018</i>	<i>SSFA, TA</i>
<i>Ensure access/delivery of corresponding data flow</i>	<i>Q2-Q4 2018</i>	<i>SSFA, TA</i>
<i>Consultation on annotated outline</i>	<i>Q3 2018</i>	<i>Webinars, Workshop</i>
<i>Provision of national case studies / best practices examples</i>	<i>Q4 2018 – Q2 2019</i>	<i>SSFA, TA</i>
<i>Review of final draft/Synthesis report</i>	<i>Q3 2019</i>	



# Thank you for your attention!



United Nations Environment Programme  
Coordinating Unit for the Mediterranean Action Plan

Vassileos Konstantinou 48

Athens 11635, Greece

[www.unepmap.org](http://www.unepmap.org)

European Environment Agency (EEA)

Kongens Nytorv 6

1050 Copenhagen K, Denmark

E-mail: [ENI-SEIS2@eea.europa.eu](mailto:ENI-SEIS2@eea.europa.eu)

<http://www.eea.europa.eu/>

<http://eni-seis.eionet.europa.eu/south>



This project is funded by the European Union



European Environment Agency

