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

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
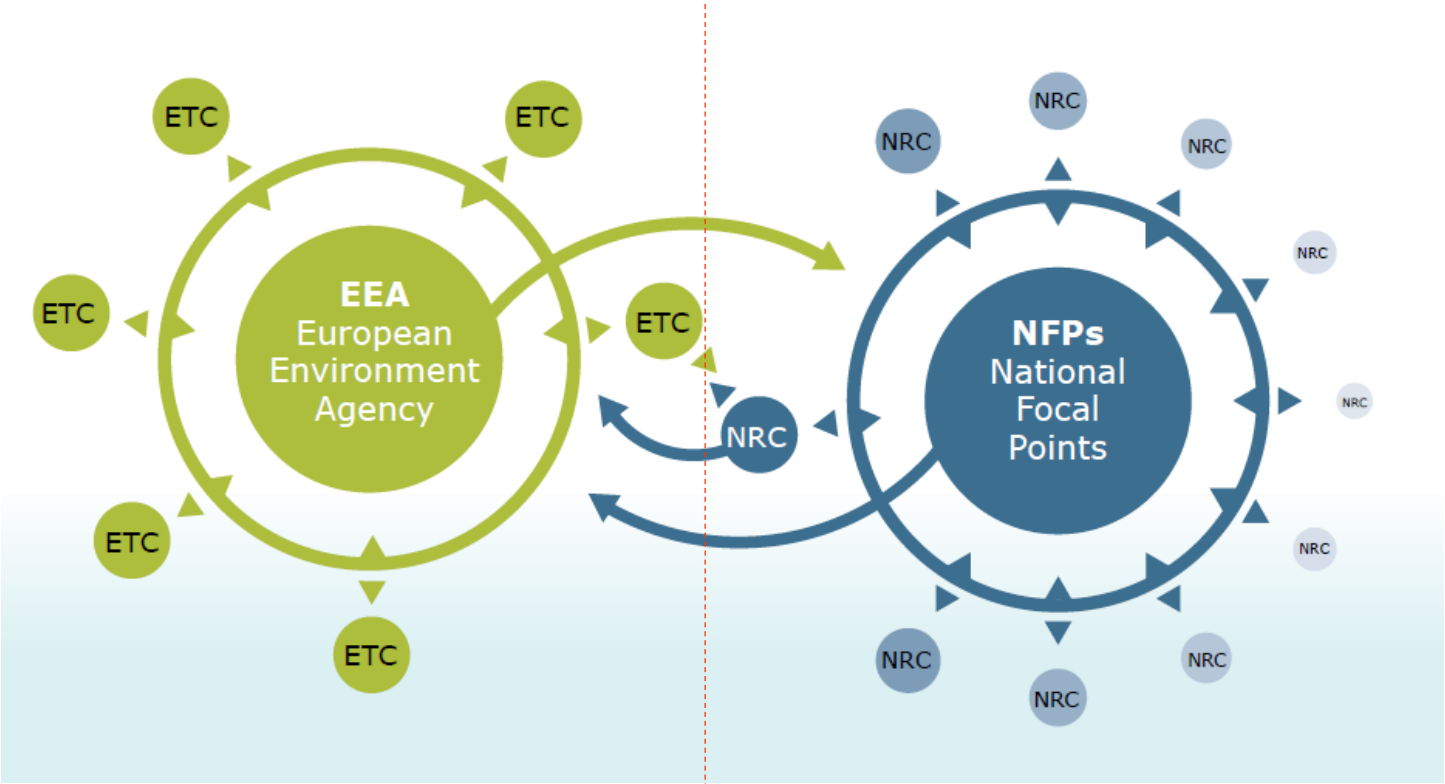- ➢ **350 national bodies** dealing with environmental information

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

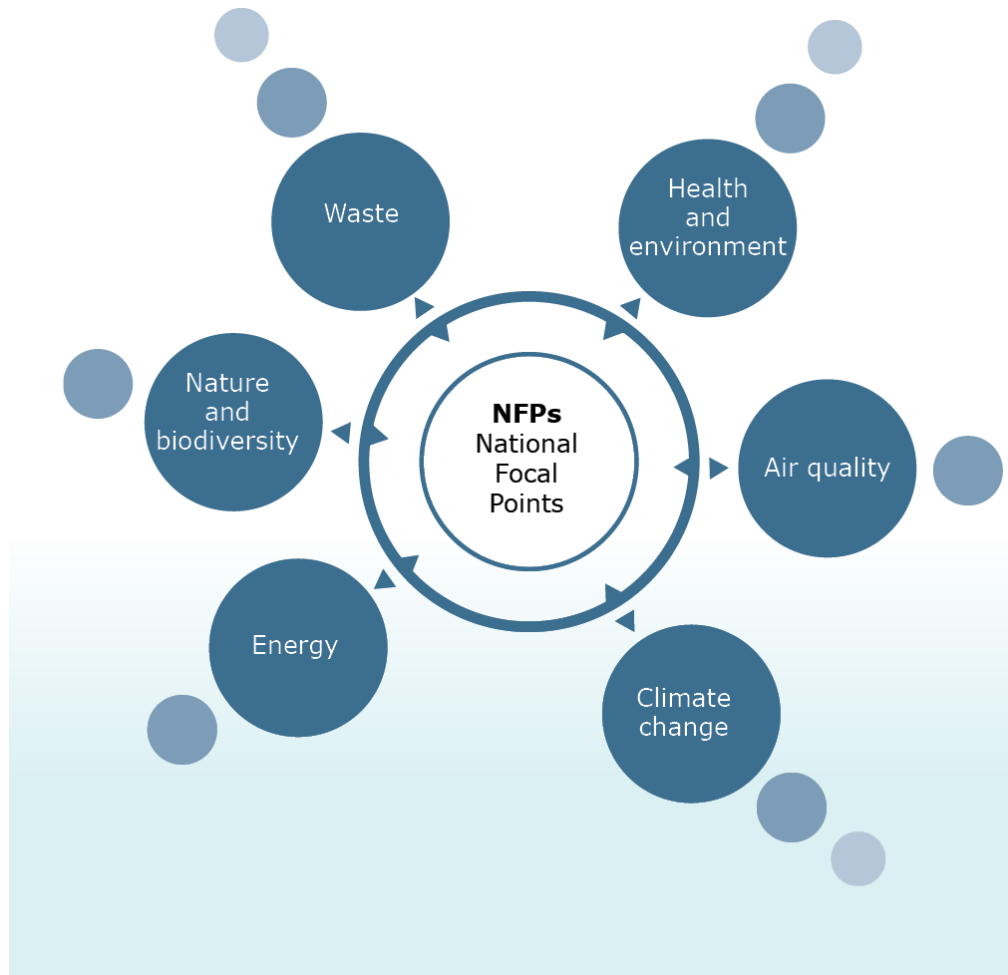# Eionet structure *(European vs. national)*

European Topic Centres (ETC)

National Reference Centres (NRC)

UN environment
United Nations Environment Programme

MAP
Mediterranean Action Plan
Barcelona Convention

European Environment Agency

# 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 ecolog
Water quantity

European Environment Agency

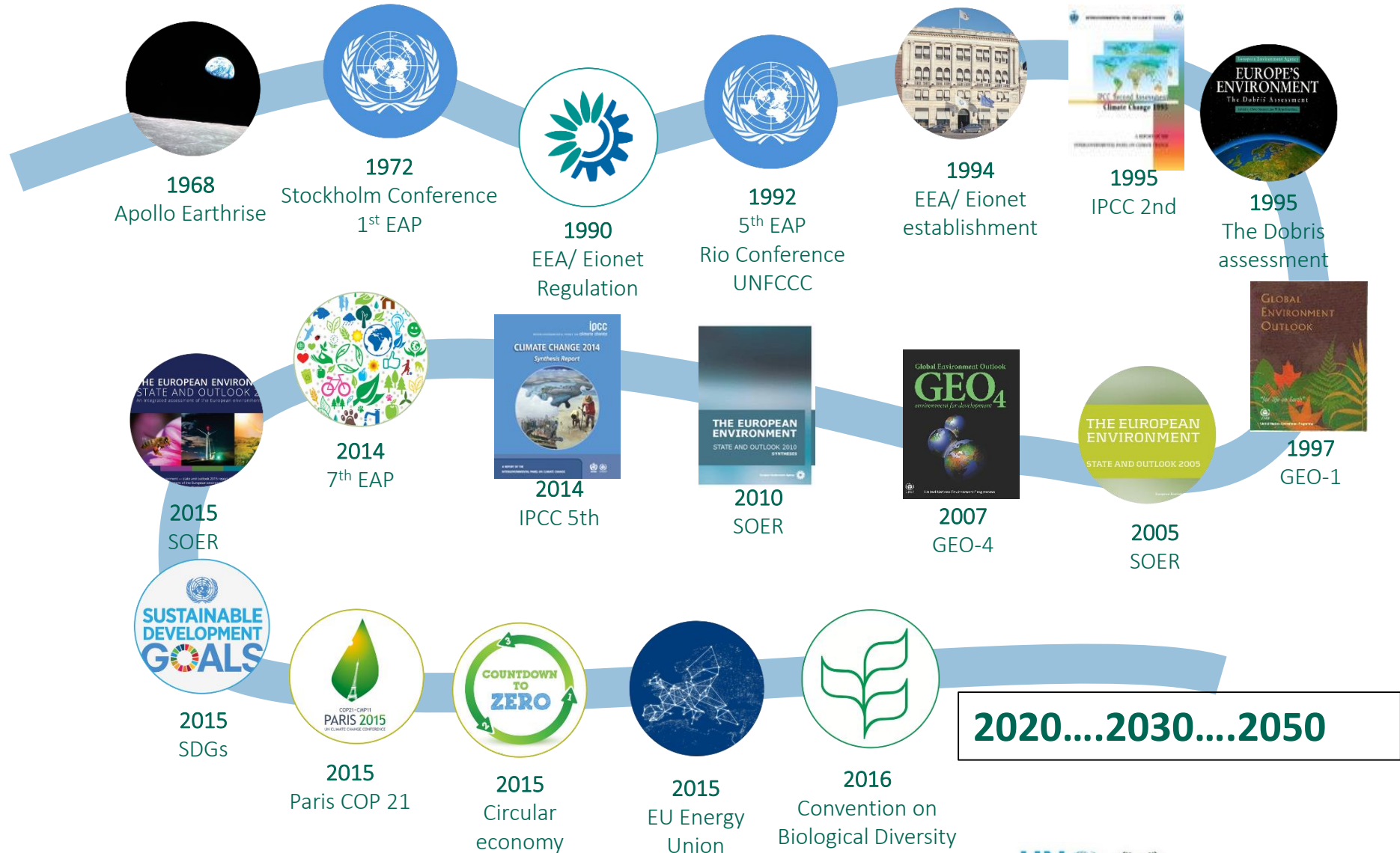# Shared Environmental Information System – SEIS

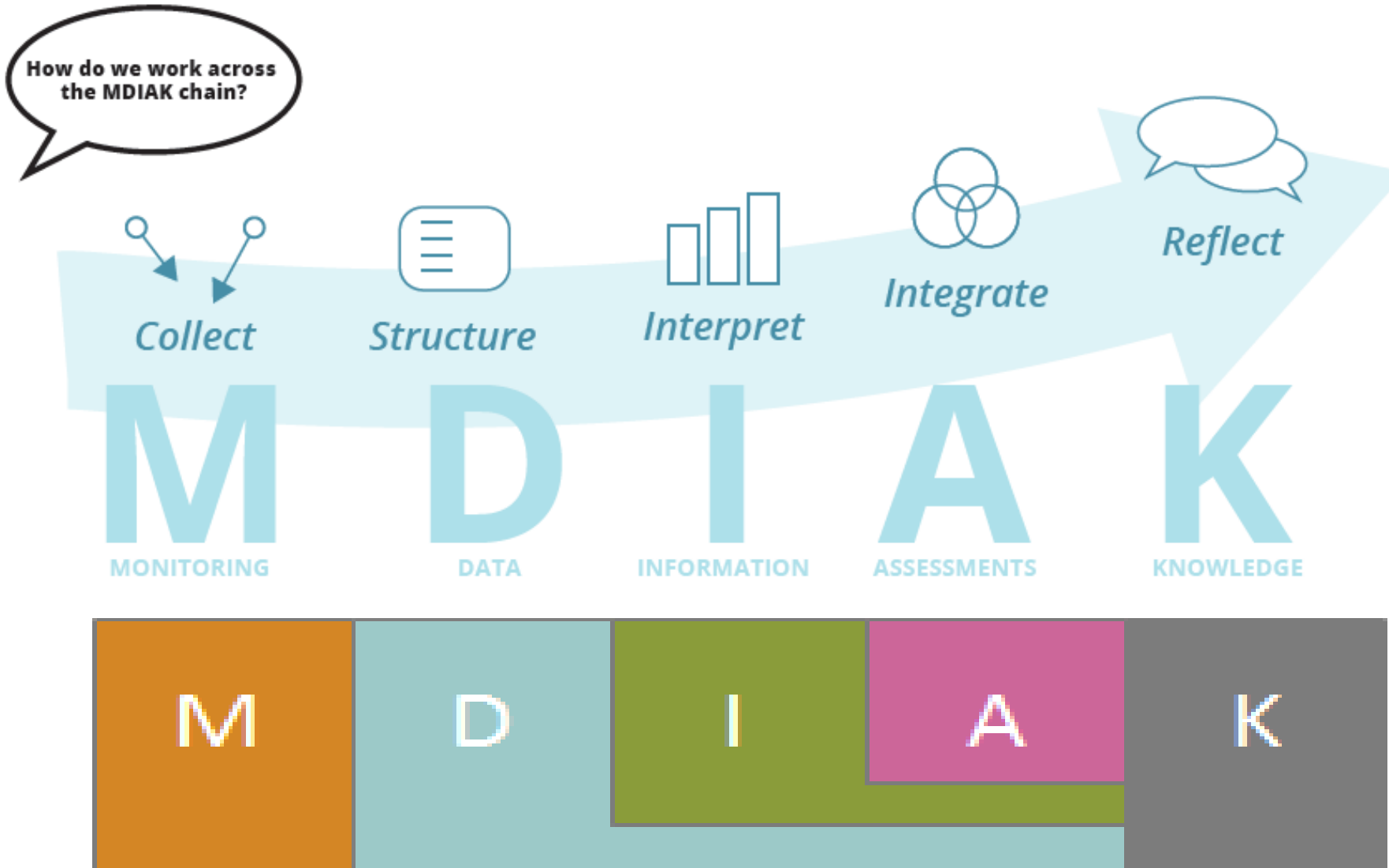
Content
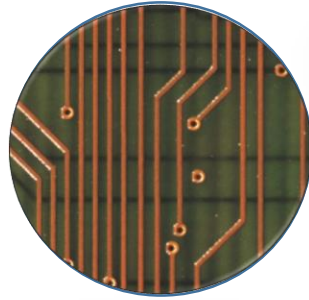
Infrastructure

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**.

UN environment
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40 years of environmental assessments

1968
Apollo Earthrise

1972
Stockholm Conference
1st EAP

1990
EEA/ Eionet
Regulation

1992
5th EAP
Rio Conference
UNFCCC

1994
EEA/ Eionet
establishment

1995
IPCC 2nd

1995
The Dobris
assessment

2015
SOER

2014
7th EAP

2014
IPCC 5th

2010
SOER

2007
GEO-4

2005
SOER

1997
GEO-1

2015
SDGs

2015
Paris COP 21

2015
Circular
economy

2015
EU Energy
Union

2016
Convention on
Biological Diversity

2020....2030....2050

European Environment Agency

Building knowledge

Source: EEA

Examples of European knowledge platforms

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, 1st 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***

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

UN environment
United Nations Environment Programme   Mediterranean Action Plan Barcelona Convention

European Environment Agency

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

European Environment Agency
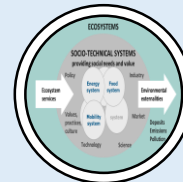
Expected results – State of Play

- 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.
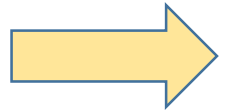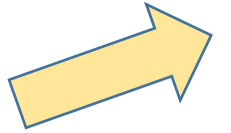
Conceptual framework for the SEIS Support Mechanism - South

WP1 – In country support (design)	WP2 – Indicators and Assessments	WP3 – Data and Statistics	WP4 – Infrastructure and data management	WP5 - Communication & visibility

Cluster 1 WATER

Cluster 2 WASTE

Cluster 3 INDUSTRIAL EMISSIONS (incl. PRTR)

Cluster 4 CROSS-CUTTING ISSUES

WP1 – In country support (implementation)

WP6 – Management and coordination
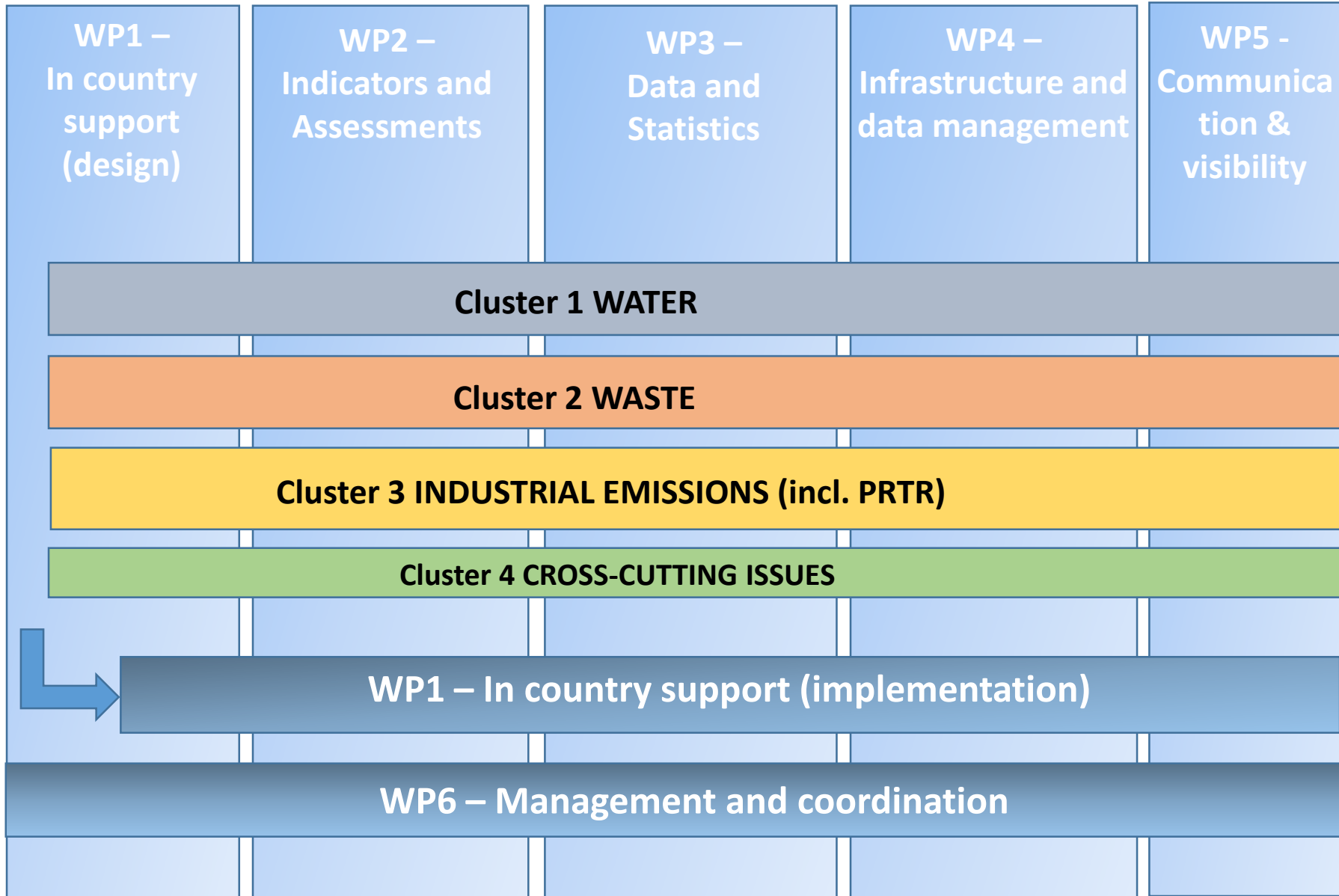
- EEA – overall coordination
  - Leads water cluster, cross-cutting
  - Leads design WP1
  - Leads WP 2&3
- UN environment MAP
  - Leads waste & industrial emissions clusters
  - Leads implementation WP1
  - Leads WP4

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

SUSTAINABLE DEVELOPMENT GOALS

| H2020 initiative for a Cleaner Mediterranean | ←→ | UNEP/MAP Barcelona Convention |

Athens Declaration (May 2014)

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

Ecosystem approach, SEIS principles

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

2nd H2020 indicator based assessment

UNEPMAP SoED

2020/2021 Next reporting cycle

REGIONAL

Quality Status Report IMAP InfoSystem

Indicator management, data service

2017　　**2018**　　**2019**

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

EU
Euro-MED
Global

Project Website

Thank you for your attention!

United Nations Environment Programme

Coordinating Unit for the Mediterranean Action Plan

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Kongens Nytorv 6

1050 Copenhagen K, Denmark

E-mail: ENI-SEIS2@eea.europa.eu

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

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

European Environment Agency

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Biological Diversity

2020….2030….2050

European Environment Agency
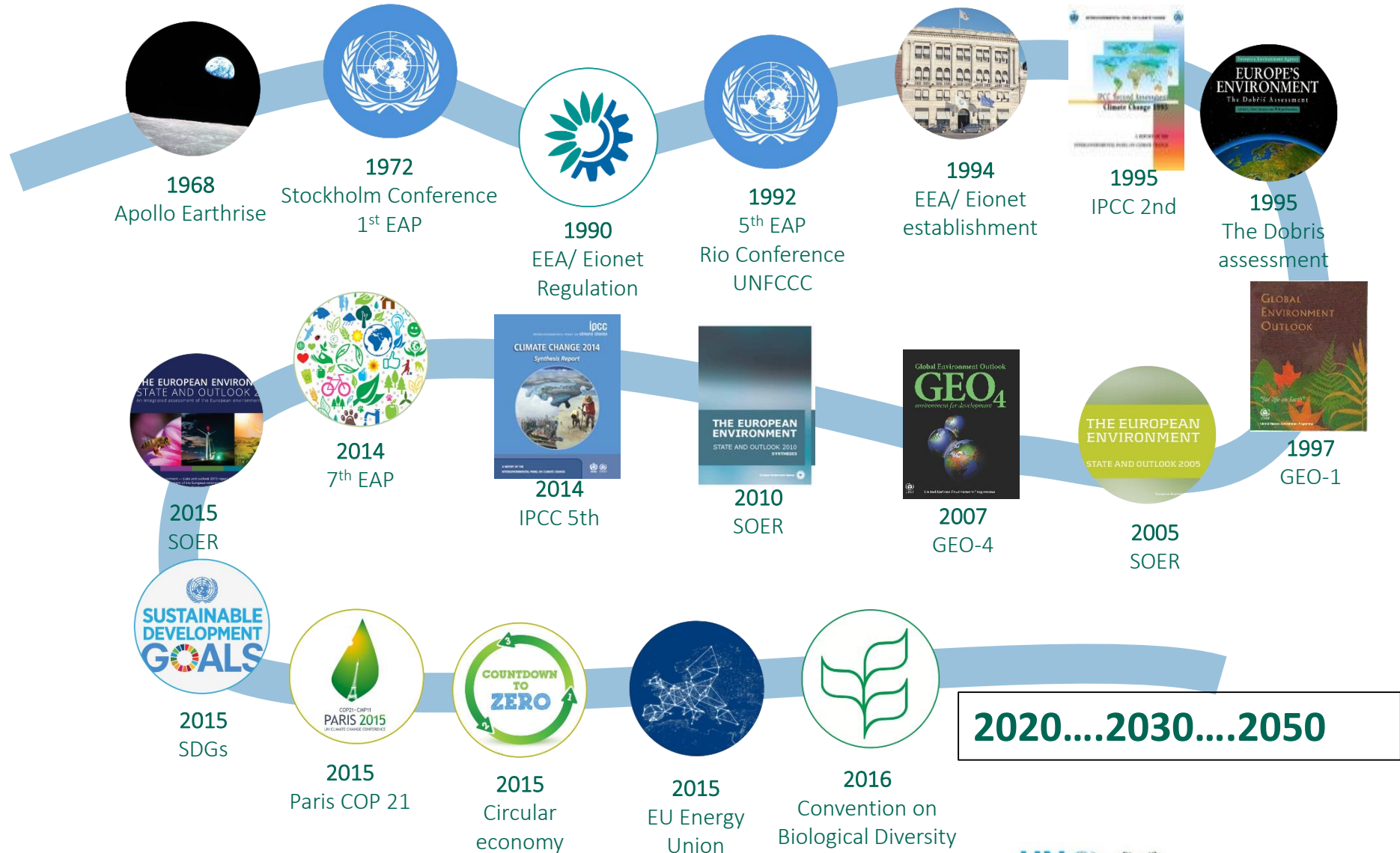
What is an environmental assessment?

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

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?
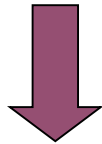
2. What has been done?

- Which actions, projects have been carried out to tackle these pollution sources?
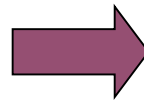
4. What are the next steps?

- 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?

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MAP
Mediterranean Action Plan
Barcelona Convention

European Environment Agency
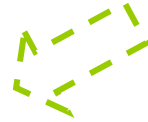
Horizon 2020 Mediterranean report – Toward shared environmental information systems

EEA-UNEP/MAP joint report, May 2014

EEA Technical report | No 6/2014

Horizon 2020 Mediterranean report

EEA-UNEP/MAP joint report

ISSN 1725-2237

UNEP

European Environment Agency
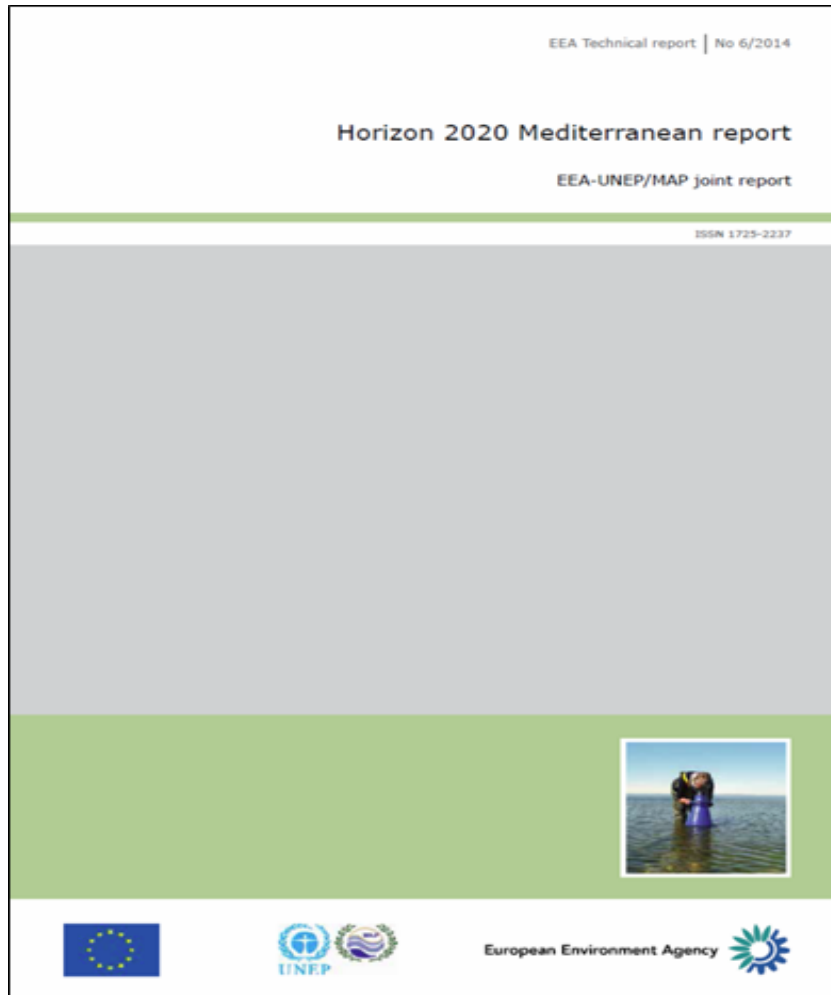
- Indicator-based assessment coordinated by **EEA/ETC and UNEP/MAP** under ENPI-SEIS project (2010-2015)

- 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

UN environment
United Nations Environment Programme
Mediterranean Action Plan
Barcelona Convention

European Environment Agency

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?

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Timeframe

SUSTAINABLE DEVELOPMENT GOALS

H2020 initiative for a Cleaner Mediterranean	⟷	UNEP/MAP Barcelona Convention

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REGIONAL

Quality Status Report
IMAP InfoSystem

Indicator management, data service

2nd H2020 indicator based assessment

UNEPMAP SoED

2020/2021 Next reporting cycle

2017　　　**2018**　　　**2019**

NATIONAL

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Inception phase
- Establishment of national work plans

EU
Euro-MED
Global

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

DRIVERS
- Socio-economics Indicators

MED POLICY FRAMEWORK (RESPONSES)
Regional: MEDPOL; SPA RAC; NAPs; H2020 Components, MSSD, EcAp/IMAP, SCP/RAC
National: examples in boxes; NAP revisions

WASTE Indicators
- Policies & Measures
- Treatment

WATER Indicators
- Sanitation (3.1)
- Collection & Treatment (4.2)

INDUST. EMISSIONS Indicators
- Policies & Measures

PRESSURES

- Generation of waste

H2020 reporting; SWEEP-Net; Eurostat

- Release of BOD, N, P from Municipal WWTPs (4.4)

H2020 Reporting; SDG database

- Release of Nutrients (6.1)
- Release of Toxic substances (6.2)

NBB 2003 & 2008; PRTR

STATE

- Marine Litter

- Nutrients (EO5)
- Bathing Water (EO9)

IMPACTS

Proposed renewed H2020 Assessment Framework
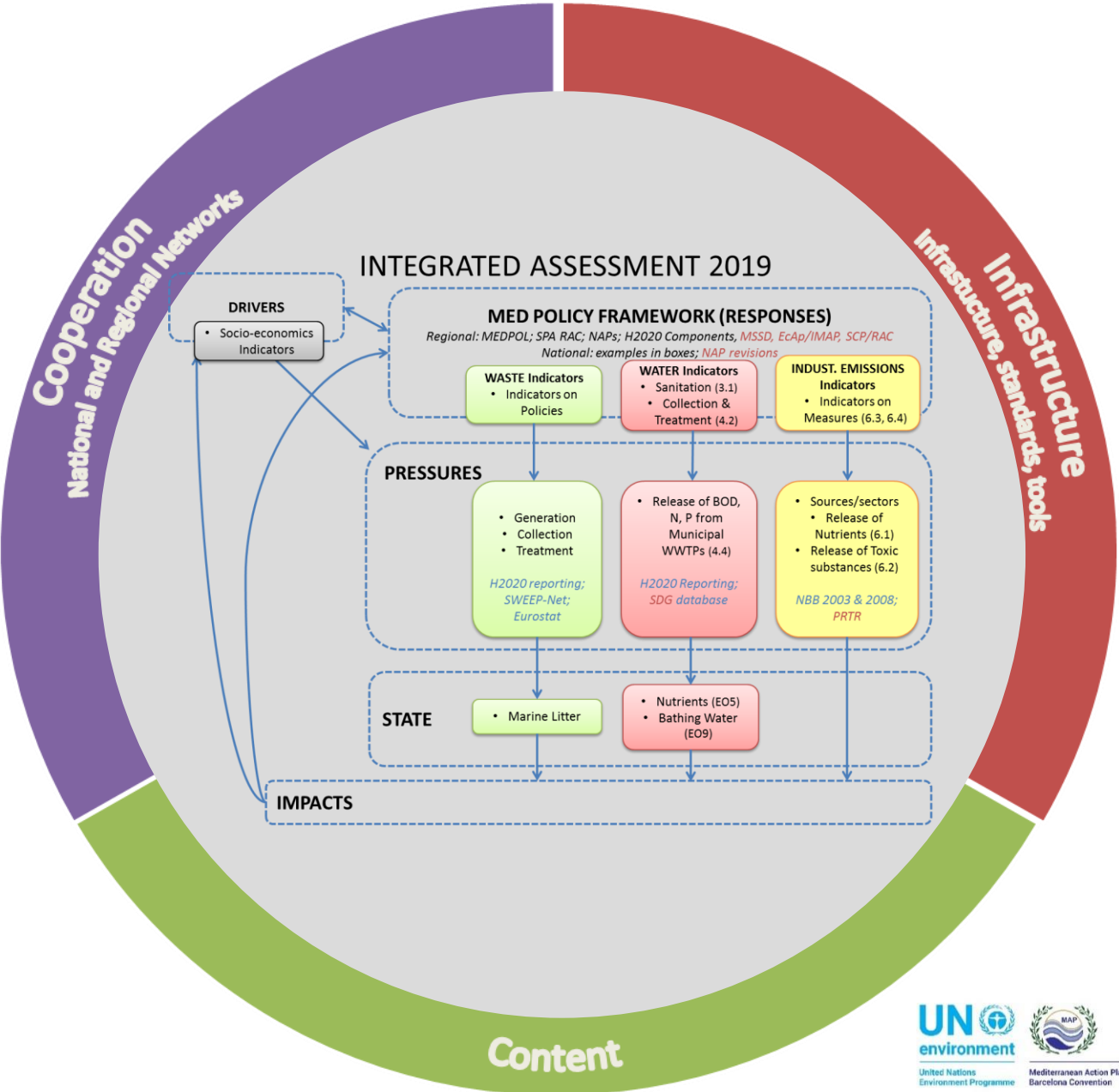
Draft Outline

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, 7th 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

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United Nations
Environment Programme

Mediterranean Action Plan
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European Environment Agency

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
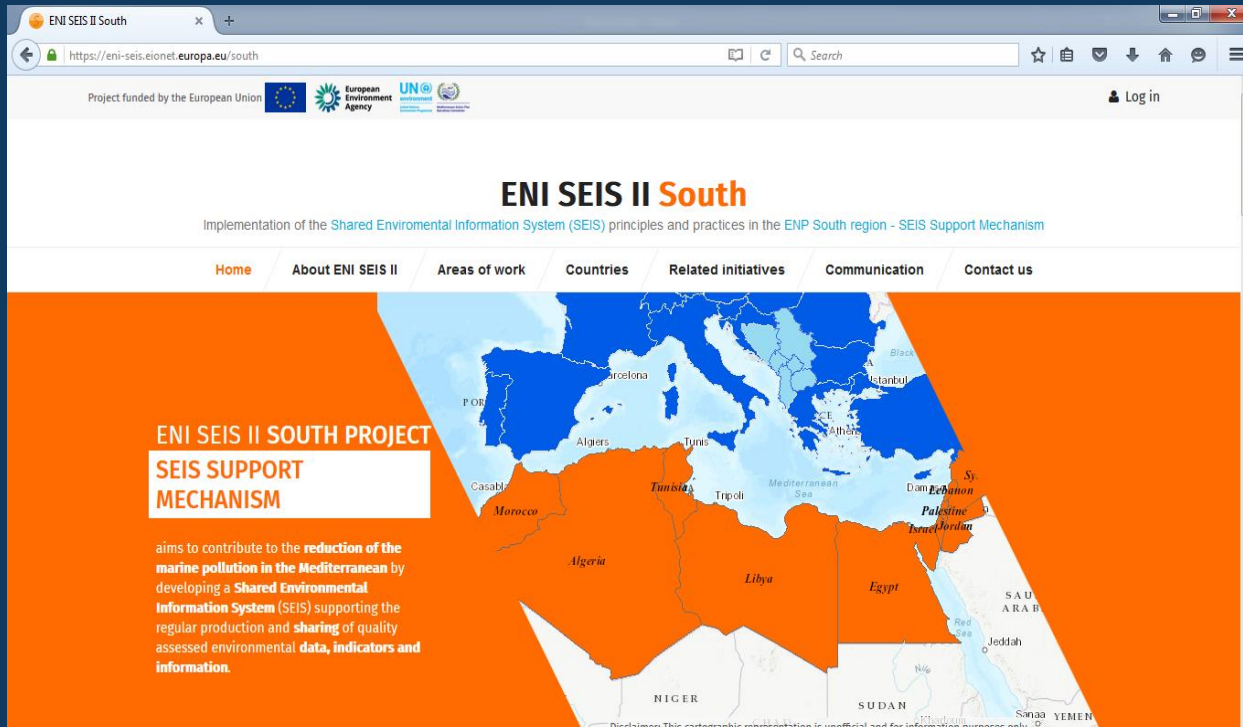
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Next Steps – country contribution

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

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