



National roundtable on Open Data and e-Government for the environment  
Kyiv, Ukraine, 26 September 2019

# The European Environment Agency & cooperation with the Eastern partners – environmental data beyond the EU borders

**Galina H. Georgieva**

**Head of Group – Networks and Partnerships**

# The European Environment Agency

Coordinate the

## European Environment Information and Observation Network (Eionet)

### INSTITUTIONAL COOPERATION

*(approx. 350 national bodies)*

### COMMON KNOWLEDGE

*(approx. 1500 experts)*

### SHARED INFRASTRUCTURE

*(Reportnet, reporting obligations, tools)*



33 Member countries (EU28+5) +  
6 cooperating countries (Western  
Balkans)

6 Eastern Partnership countries

9 Southern Mediterranean countries



# The European Environment Agency – 25 years in perspective

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

<https://www.facebook.com/European.Environment.Agency>

 **European Environment Agency**  
23 hrs · 🌐

What will Europe's environment look like in 25 years? Will we achieve our common vision of 'living well, within the limits of our planet'? On our 25th anniversary, we are reflecting on how Europe's environmental knowledge and policy have developed in the last 25 years and how we can support efforts towards sustainability in the next 25 years.



EEA.EUROPA.EU  
**EEA turns 25: Building on experience to achieve sustainability in Europe**

**facebook**

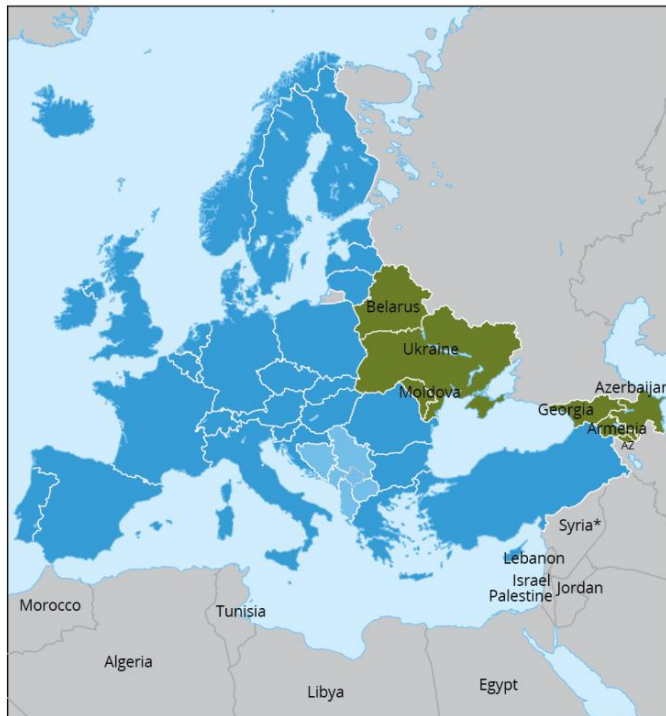


European Environment Agency  
@European.Environment.Agency

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# ENI SEIS II East project's expected results

Armenia - Azerbaijan - Belarus - Georgia - Moldova - Ukraine



## EEA and ENI SEIS II East project coverage

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

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

\* Collaboration is temporally suspended

1. Implementation of **regional/international commitments** related to environmental reporting;

Data harmonisation / comparability

2. Improved capacities in the national administrations to **manage and use environmental information** to support decision-making;

Tools / information systems / indicators

3. Regular “State of the Environment” reports and **indicator-based assessments** in line with EU and EEA methodologies

Integration, key messages



# EEA cooperation with Ukraine

## ENI SEIS II East

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

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# UKRAINE

UNECE ENVIRONMENTAL INDICATORS

ENVIRONMENTAL ASSESSMENT REPORTS

### National Focal Points:

Valentyna Vasylenko,

The Ministry of Energy and Environmental  
Protection of Ukraine

Oleg Prokopenko, State Statistics Service of  
Ukraine

### National SEIS Assistant:

Dmytro Averin



Oleg Prokopenko (left), Valentyna Vasylenko and  
Dmytro Averin

UNECE Environmental Indicator	Ukraine
A. Air pollution and ozone depletion	<div style="width: 100%;"></div>
B. Climate change	<div style="width: 100%;"></div>
C. Water	<div style="width: 100%;"></div>
D. Biodiversity	<div style="width: 100%;"></div>
E. Land and soil	<div style="width: 100%;"></div>
F. Agriculture	<div style="width: 100%;"></div>
G. Energy	<div style="width: 100%;"></div>
H. Transport	<div style="width: 100%;"></div>
I. Waste	<div style="width: 100%;"></div>
J. Environmental financing	<div style="width: 100%;"></div>
Total	<div style="width: 100%;"></div>

0/No data

25%

50%

75%

100%

### Links:

[ENI SEIS II Project on State Statistics Service of Ukraine](#) | [on the web site of the Ministry of Ecology and Natural Resources](#) | [SEIS Ukraine Portal](#) | [Ukraine and the EU](#) | [Delegation of the European Union to Ukraine](#)



# Overview of thematic areas addressed under the project

## Status of developing **water quantity indicators** – C1 – C5 of the UNECE env indicators

	Azerbaijan	Armenia	Georgia	Belarus	Republic of Moldova	Ukraine
Status of the activity						
Compiling the dataset	▲	▲	▲	▲	▲	●
Data analyses	▲	▲	▲	▲	▲	●
Developing the indicator template	▲	▲	▲	▲	▲	●
Publishing the indicators	●	●	●	●	●	●

## Status of developing **water quality indicators** – C10 and C11 of the UNECE env indicators

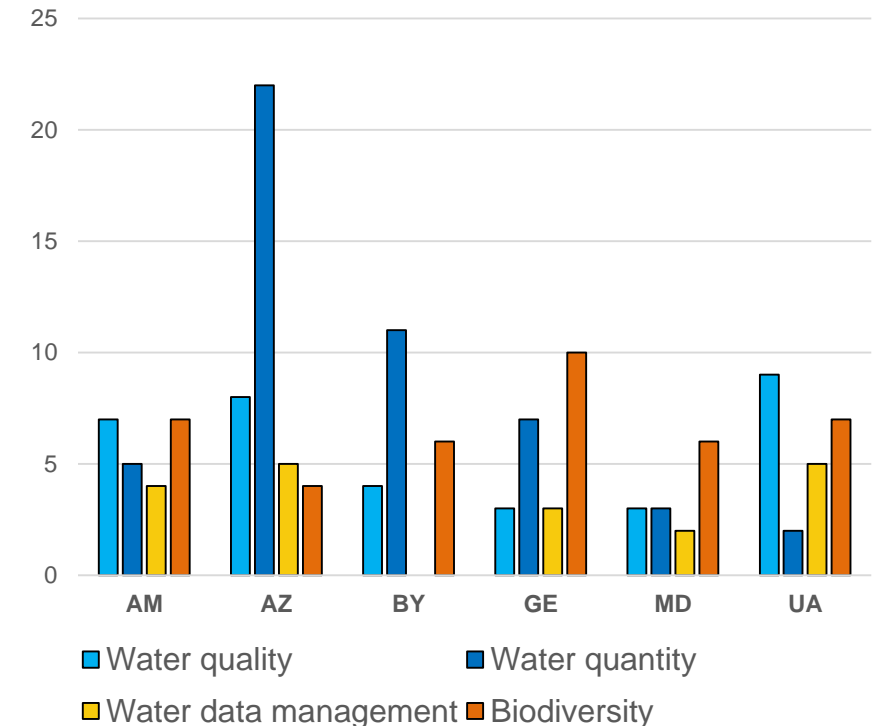
	Azerbaijan	Armenia	Georgia	Belarus	Republic of Moldova	Ukraine
Status of the activity						
Compiling the dataset	▲	▲	▲	▲	▲	▲
Data analyses	▲	▲	▲	▲	▲	▲
Developing the indicator template	●	●	●	●	●	●
Publishing the indicators	●	●	●	●	●	●

## Status of developing **protected areas indicators** – D1 of the UNECE env indicators

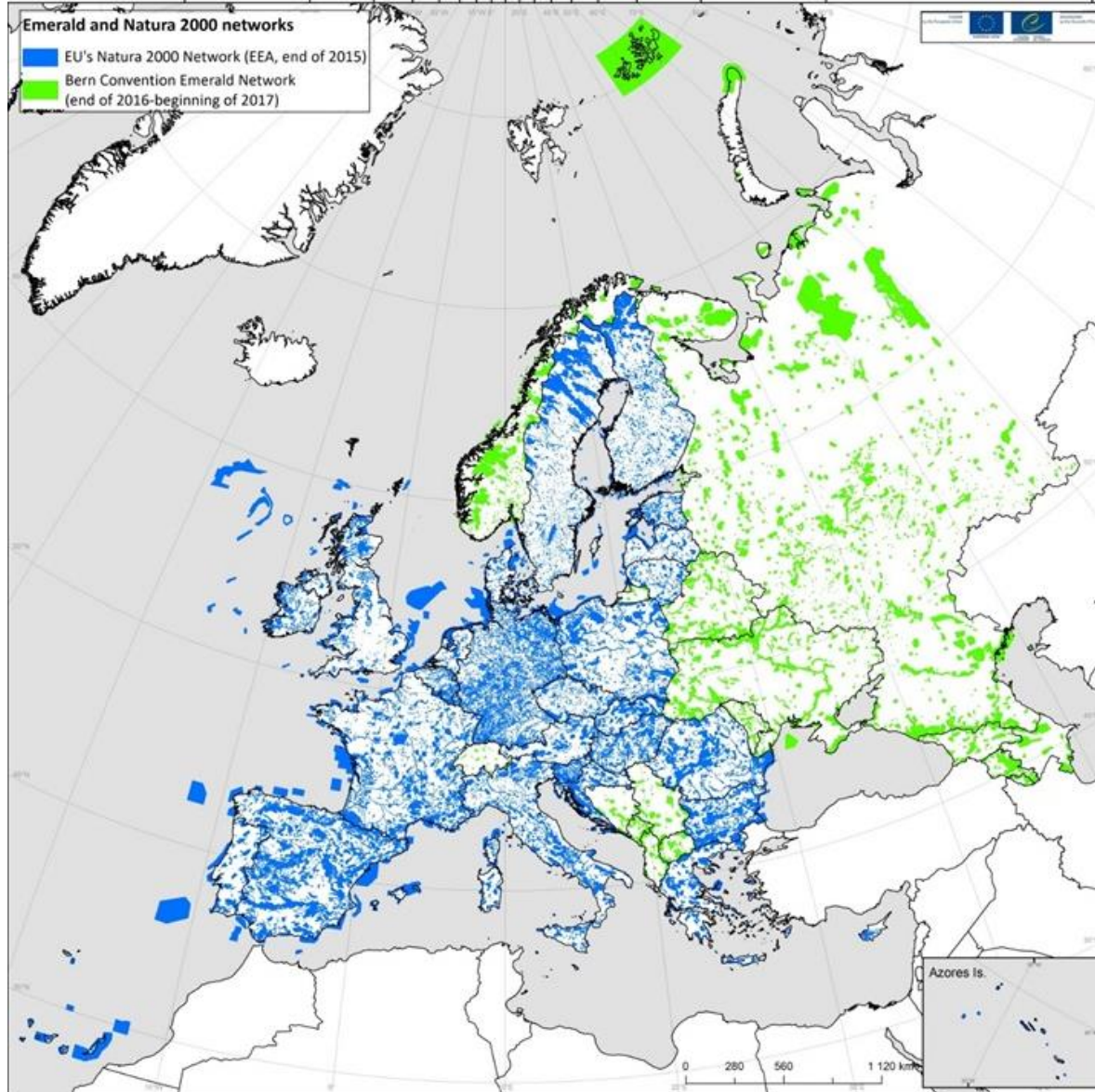
	Azerbaijan	Armenia	Georgia	Belarus	Republic of Moldova	Ukraine
Status of the activity						
Compiling the dataset	▲	▲	▲	▲	▲	▲
Data analyses	▲	▲	▲	▲	▲	▲
Developing the indicator template	▲	▲	▲	▲	▲	▲
Publishing the indicators	●	●	●	●	●	●

- ▲ Completed
- Under progress
- Not developed

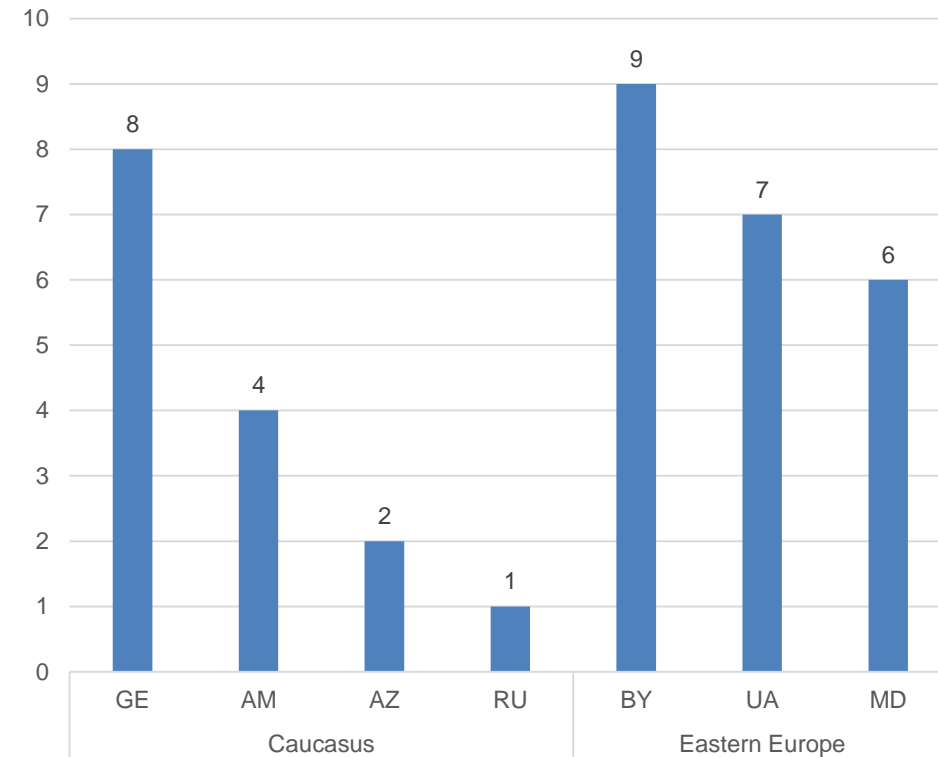
Expert capacity building - number of expert attended per country and topic



# Natura2000 and Emerald network coverage



Number of attendees to the **Biogeographical seminars on sufficiency assessment** of species and habitats in proposed Emerald network sites (2017-2019)



*Note: the last biogeographical seminar on bird species is being organized for the Caucasus region between 29-30 October 2019, in Budapest*



# “State of the Environment online” - traceability of data

## 1) STORY / ASSESSMENT <http://www.eea.europa.eu/soer>

## 2) INDICATOR MANAGEMENT SYSTEM

SOER 2015 — The European environment — state and outlook 2015

A comprehensive assessment of the European environment's state, trends and prospects, in a global context.

Synthesis report | Global megatrends | European briefings | Cross-country comparisons | Countries and regions

The synthesis report informs future European environmental policy in general and its implementation between 2015 and 2020 in particular. It includes a reflection on the European environment in a global context, as well as chapters summarising the state of, trends in, and prospects for the environment in Europe.

- Foreword
- Executive summary
- 1. The changing context of European environmental policy
- 2. The European environment in a wider perspective
- 3. Protecting, conserving and enhancing natural capital
- 4. Resource efficiency and the low-carbon economy
- 5. Safeguarding people from environmental risks to health
- 6. Understanding the systemic challenges facing Europe
- 7. Responding to systemic challenges: from vision to transition
- References and bibliography
- Synthesis report contents index

SOER 2015 presentation (PDF) Key facts and figures

Synthesis report in several languages

About SOER 2015

For journalists

Events

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Key messages

Maritime activities

Exploitation of European seas and coasts is increasing as new industries emerge and traditional ones move further offshore. The main pressures include extraction of species and genetic resources, seafloor exploitation, pollution and the spread...

### Abundance and distribution of selected European species

Indicator Assessment — Pre-40: P03-140-en: Also known as: SOBI 001, CSI 050 — Created 08 Jul 2019 — Published 09 Aug 2019 — Last modified 09 Aug 2019 — 13 min read

Topics: Biodiversity — Ecosystems, Agriculture

#### Key messages

Monitoring schemes show significant long-term (25 year) downward trends in common birds (in particular farmland birds) and grassland butterfly populations numbers, with no signs of recovery.

Between 1990 and 2016, there was a 9 % decrease in the index of common birds in the 26 EU Member States with a slightly greater (11 %) if figures for Norway and Switzerland are included. The common forest bird index decreased by over the same period.

The decline in common farmland bird numbers over the same period was much more pronounced, at 32 % (EU and non-EU).

The index of grassland butterflies has declined significantly in the 15 EU countries where butterfly monitoring schemes exist.

#### Data sources

- Butterfly Conservation Europe (Dataset URL is not available) provided by Dutch Butterfly Conservation
- Trends of common birds in Europe provided by European Bird Census Council (EBCC)

#### Metadata

Indicator codes: SEDI 001, CSI 050

Temporal coverage: 1990-2017

Geographic coverage: Europe

DPSIR: State

Typology: Descriptive indicator (Type A - What is happening to the environment and to humans?)

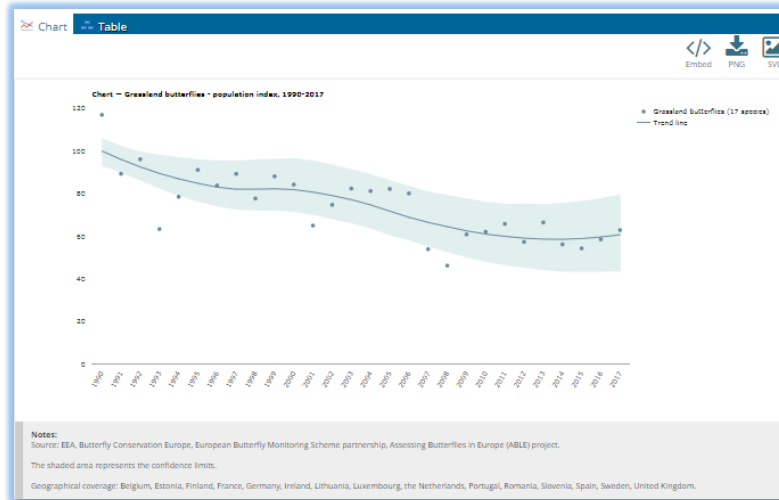
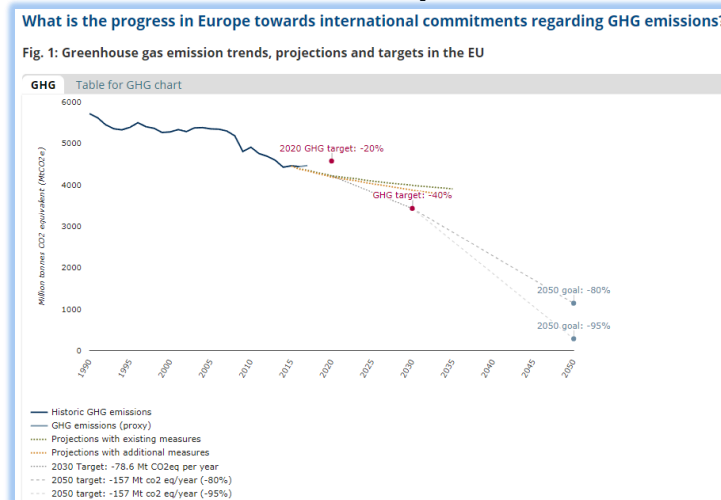
Dates: First draft created: 08 Jul 2019, 11:00 AM; Publish date: 09 Aug 2019, 01:39 PM; Last modified: 09 Aug 2019, 01:39 PM

EEA Contact Info: Katarzyna Biala

#### Has the decline in common species in Europe been halted?

Fig. 1: Common birds - population index, 1990-2016

## 3) INTERACTIVE GRAPHS



## 4) OPEN ACCESS TO DATA

Download data

Formats suitable for human consumption

- HTML
- CSV
- TSV

Formats suitable for machine-to-machine communication

- JSON
- Exhibit JSON
- XML
- XML with Schema

Year	Grassland butterflies (17 species)	Forest birds	Lower confidence limits	Upper confidence limits	Confidence limit
1990	116.874	100	93.195	139.225	119.744
1991	99.342	98.076	83.997	122.287	112.36
1992	88.142	92.891	80.1	99.83	113.226
1993	83.287	89.228	82.281	81.189	118.818
1994	71.807	88.073	78.201	97.277	117.090
1995	67.148	143.919	78.241	98.18	158.81
1996	55.927	81.079			
1997	89.299	82.714			
1998	77.728	82.128			
1999	88.138	82.3			
2000	84.260	81.827			
2001	83.264	82.791			
2002	74.708	78.13			
2003	82.478	77.188			
2004	81.291	74.743			
2005	82.219	71.83			
2006	80.121	82.922			
2007	82.872	86.88			
2008	88.289	84.618			
2009	82.880	82.978			
2010	82.1	81.003			
2011	88.839	89.883			
2012	87.302	89.142			
2013	88.818	88.878			
2014	88.288	82.828			
2015	84.384	88.897			
2016	84.384	88.897			





# The context for the actions on Open Data

## [European Commission Digital \(Data\) Strategy](#)

Digital delivery model:

- Security and Privacy by design
- Interoperability by design
- Cross-border by default
- Digital by default and Once-Only
- Open by default

## [Public access to Environmental Information](#)

### [DIR 2003/4/EC](#)

and

## [Aarhus Convention](#) (international)

## [Infrastructure for Spatial Information in the](#)

## [European Community \(INSPIRE\)](#)

### [DIR 2007/2/EC](#)

## [Directive on open data](#)

## [and the re-use of public sector information](#)

or

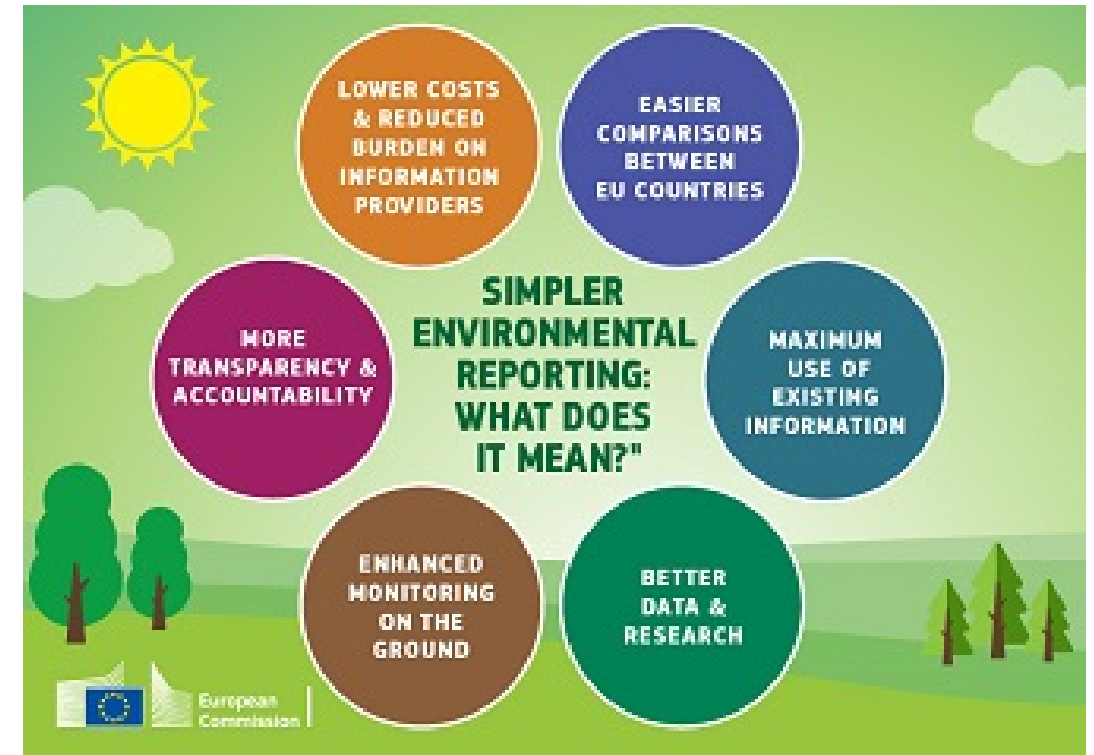
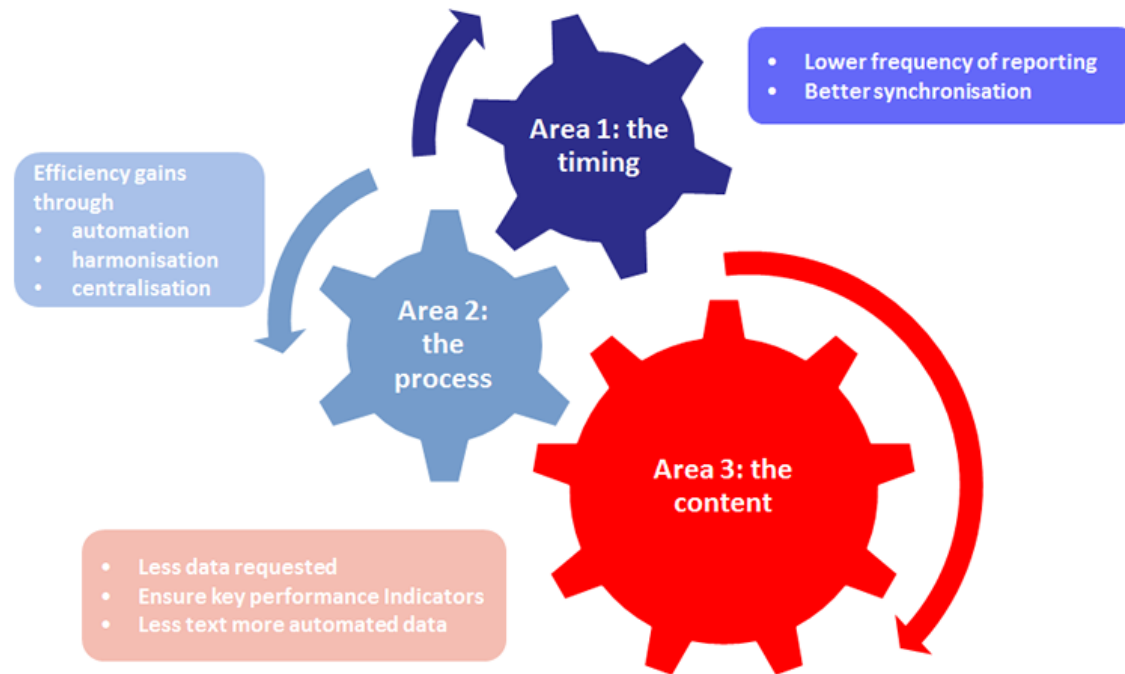
‘Open Data Directive’ ([Directive \(EU\) 2019/1024](#)) - entered into force on **16 July 2019**

<https://www.europeandataportal.eu/>

The screenshot shows the European Data Portal website. At the top, there is a navigation bar with the logo, 'EUROPEAN DATA PORTAL', and links for Newsletter, FAQ, Search, Contact, Cookies, Legal notice, and a language dropdown set to English (en). A search bar is located on the right. Below the navigation bar, there is a main menu with categories: What we do, Data, Providing Data, Using Data, and Resources. The main content area features a 'Search Datasets' section with a search input field and a 'Search Q' button. Below this, there is a 'Browse Datasets by Categories' section with icons and labels for various sectors: Agriculture, Fisheries, Forestry & Foods; Energy; Regions & Cities; Transport; Economy & Finance; International Issues; Government & Public Sector; Justice, Legal System & Public Safety; Environment; Education, Culture & Sport; Health; Population & Society; Science & Technology; Catalogues; and All data. On the right side, there is a 'Latest News' section with three news items, each with a thumbnail image, title, and date. The bottom right corner of the page features the 25th anniversary logo of the European Environment Agency (1994-2019) and the agency's logo.

# Fitness Check on Environmental Reporting and Monitoring

- [Fitness Check on Reporting and Monitoring of EU Environment Policy \(2017\)](#)
- [10 Actions to Streamline Environmental Reporting](#)



Source: [http://ec.europa.eu/environment/legal/reporting/fc\\_overview\\_en.htm](http://ec.europa.eu/environment/legal/reporting/fc_overview_en.htm)

# Actions to Streamline Reporting

Action	EEA involvement
1 Amend legislation	-
2 Change reporting obligations	Support through rolling work programme
3 Modernise e-Reporting	Core of Reportnet 3.0 project
4 Develop test tools for harvesting	Share of experiences
5 Guidance for national information systems	Steering Committee DG ENV project
6 Promote INSPIRE	Through INSPIRE IG and Reportnet 3.0
7 Better use of Copernicus data	Share of experiences
8 Promote citizen science data	Support on guidelines
9 Cooperate with other thematic areas	Linked to Reportnet 3.0 project
10 Wider international streamlining	Trilateral UNECE-UNEP-EEA

Source: SWD(2017)230

[http://ec.europa.eu/environment/legal/reporting/pdf/action\\_plan\\_env\\_issues.pdf](http://ec.europa.eu/environment/legal/reporting/pdf/action_plan_env_issues.pdf)



# Open data on environment – going beyond EU

EU initiative: [Streamlining environmental reporting](#)

ENI SEIS II East activity: [Open Data and e-Government for Environment](#)

*“Develop a roadmap and identify feasible and practical means for integrating environmental information in national e-Governance/Open Data processes and platforms”*

[Open Data Maturity in Europe](#) (EU countries)

[Country Maturity Reports on dissemination of environmental Information](#) (ENI countries)

EU EIS project: **Promote best practices for European and national Environmental Information Systems (EU countries)**

(Action 5): <http://www.eis-data.eu/>

ENI SEIS II East project: Good practices on [Open data and e-government for fostering environmental information sharing and dissemination](#) (ENI countries)

# Open Data Maturity in Europe 2018

Four dimensions of Open Data :

1. **Open Data Policy** (policy framework, national coordination, licencing norms)
2. **Open Data Portal** (portal features, usage and sustainability, data provision)
3. **Open Data Impact** (strategies awareness, political, social, economic and environmental impact)
4. **Open Data Quality** (e.g. machine readable format for data and metadata, metadata compliance, harvest automatically)

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ADVANCED SEARCH

**IRELAND'S OPEN DATA PORTAL**

Promoting innovation and transparency through the publication of Irish Public Sector data in open, free and reusable formats.

EXPLORE DATASETS

8861 Datasets

110 Publishers

Source: <https://www.europeandataportal.eu> ,  
[Open Data best practices in Europe's Top Three Performers](#) (Ireland, Spain and France)

# A new EU strategic agenda 2019-2024



European Council

## A NEW STRATEGIC AGENDA

2019 – 2024



20-21 June 2019

European Council: adoption of the Strategic Agenda 2019-2024 and high-level appointments

Source:

<https://www.consilium.europa.eu/media/39914/a-new-strategic-agenda-2019-2024.pdf>



# A new EU strategic agenda 2019-2024

## Developing our economic base: the European model for the future

*A strong economic base is of key importance for Europe's prosperity and competitiveness, and for its role on the global stage. This should be achieved through an integrated approach addressing the current and emerging global, technological, security and sustainability challenges, and connecting all relevant policies and dimensions.*

### Mobilising all relevant policies

- deepen and strengthen the single market
- develop an industrial strategy
- ensure fair and effective taxation
- deepen EMU

### Promoting a level-playing field

- ensure fair competition
- fight unfair practices and security risks
- secure our strategic supply chains

### Investing in our future

- invest in people's skills and education
- promote innovation and research
- encourage and support public and private investment, including in infrastructure
- promote sustainable agriculture

### Embracing the digital transition

- develop artificial intelligence
- promote access, sharing and use of data
- ensure connectivity




# Political priorities of Von der Leyen Commission (2019-2024)

**A Union that strives for more**

**My agenda for Europe**

*By candidate for President of the European Commission*

**Ursula von der Leyen**



**POLITICAL GUIDELINES FOR THE NEXT  
EUROPEAN COMMISSION 2019-2024**

## European Green Deal

Climate neutrality  
Zero pollution  
Farm to fork  
Circular economy  
Sustainable finance

...



*First 100 days:  
November to  
February*



# The way forward ...

The Open Data component under the ENI SEIS II East project aims at ensuring:

- **Sustainability of the invested efforts** – building on results from the project thematic activities and bringing together relevant information in support of regular environmental assessments
- **Ownership by the partner countries** in advancing the open data initiatives at national and regional level
- **Synergy with the Aarhus Convention** activities to increase the environmental information availability and multiple use, in line with SEIS principles
- **Events:**
  - [2<sup>nd</sup> Regional workshop on Open Data and e-Government for the Environment](#), 2 October 2019
  - [6<sup>th</sup> meeting of the Task Force on Access to Information under the Aarhus Convention](#).  
3-4 October 2019



# THANK YOU FOR YOUR ATTENTION!



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

Subscribe to the ENI project newsletter:  
<https://eni-seis.eionet.europa.eu/east>

The European Environment Agency provides sound, independent information on the environment for those involved in developing, adopting, implementing and evaluating environmental policy, and also the general public. In close collaboration with the European Environmental Information and Observation Network (Eionet) and its 33 member countries, the EEA gathers data and produces assessments on a wide range of topics related to the environment. Learn more

 <p><b>Air and climate</b></p> <ul style="list-style-type: none"><li>Air pollution</li><li>Climate change adaptation</li><li>Climate change mitigation</li></ul>	 <p><b>Nature</b></p> <ul style="list-style-type: none"><li>Biodiversity — Ecosystems</li><li>Land use</li><li>Soil</li><li>Water and marine environment</li></ul>	 <p><b>Sustainability and well-being</b></p> <ul style="list-style-type: none"><li>Environment and health</li><li>Policy instruments</li><li>Resource efficiency and waste</li><li>Sustainability transitions</li></ul>	 <p><b>Economic sectors</b></p> <ul style="list-style-type: none"><li>Agriculture</li><li>Energy</li><li>Industry</li><li>Transport</li></ul>
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## What's new

News Articles Publications Multimedia Data and maps All products

Filtered by All topics



### European Environment Agency marks its 25th anniversary by reflecting on future challenges at high-level seminar

News 19 Jun 2019

The European Environment Agency (EEA) is marking its 25th anniversary today with a special meeting involving senior

officials and experts from the EEA's 39 member and cooperating countries, the European Commission, and the European Parliament. The participants will contribute to a new, 10-year strategy to steer the future work of the Agency and its network in providing sound, independent and reliable environmental information amid growing demand across Europe for more action on the environment.

Read more

## Featured article



EEA turns 25: Experience to a sustainability in

What will Europe's environment look like in 2040? Will we achieve our common vision of a clean, green and circular economy within the limits of our planet? Will we limit global warming and build ...

Read more

## In the spotlight



Environmental report 2018

European Environment Agency  
This project is funded by the European Union



Log in

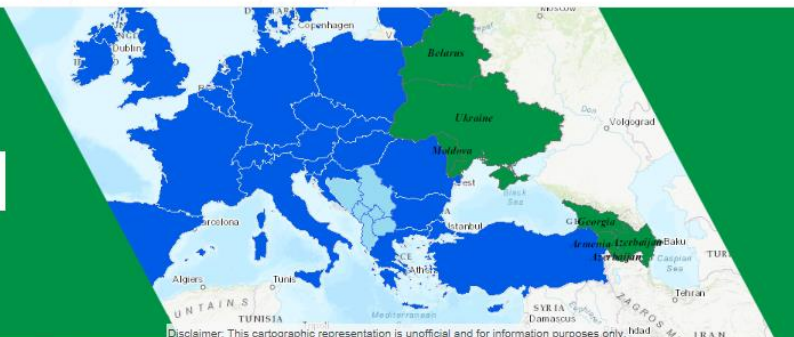
## ENI SEIS II East

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

Home About Areas of work Countries Contact

### IMPLEMENTATION OF THE PRINCIPLES AND PRACTICES OF THE SHARED ENVIRONMENTAL INFORMATION SYSTEM (SEIS)

in the Eastern Partnership countries funded by the European neighbourhood instrument (ENI) and implemented by the European Environment Agency.



## AREAS OF WORK



Work Plans



Data



Data Management and Infrastructure



Indicators and Assessments



Communication and Visibility