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Water and Data in Eastern Partner Countries



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України

EU4ENVIRONMENT WATER AND DATA NATIONAL POLICY DIALOGUE – UKRAINE

THEMATIC SESSION 4 - DIALOGUE ON ENVIRONMENTAL STATISTICS AND OPEN DATA IN THE FRAMEWORK OF THE EU4ENVIRONMENT WATER RESOURCES AND ENVIRONMENTAL DATA PROGRAMME

15 June 2023

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THEMATIC SESSION 3

- EU4Environment Water and Data aims to support Ukraine in making progress in several thematic areas of environmental data related to policy development and EU approximation, including
 - Strengthen the sharing and use of data in reporting including under Multilateral Environmental Agreements & strengthen co-operation with UNECE and with the **European Environment Agency** as an important European integration step
 - Support to **land-cover analysis**, based on Sentinel 2 imagery and derived products
 - Improving the availability of policy-relevant **air quality** and **waste management** data
 - Strengthen further **water monitoring and data management**
 - Improving data integration

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COOPERATION WITH UNECE & REPORTING OBLIGATIONS

Ukraine participating in activities under UNECE Intergovernmental Bodies
e.g.

- Working Group on Environmental Monitoring & Assessment (25th session held on 2-3 May 2023) – Ukraine covered in the 7th pan-European environmental assessment (pre-war)
- Joint Task Force on Environmental Statistics and Indicators (19th session held in November 2022)
- Working Group on IWRM (Integrated Water Resources Management)



Ukraine a Party to several UNECE Conventions & Protocols with resulting reporting obligations incl. under:

- Air Convention (& some Protocols)
- Water Convention (& Protocol on Water and Health)
- Industrial Accidents Convention
- Espoo Convention (& SEA Protocol)
- Aarhus Convention (PRTR Protocol)
-as well as commitment by UKR to report on progress in SEIS



Gaps identified in reporting under some Conventions, Protocols and SEIS

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RECENT AND NEXT ACTION POINTS

Recent capacity development activities:

- Reporting under SDG 6.5.2 (2 May 2023)
- How to report emissions under the Air Convention (5 May 2023)
- Regional training event on air quality statistics and indicators (4-5 May) with training on UNECE Guidelines for the Application of Environmental Indicators
- Joint OECD/UNECE Seminar on Implementation of System of Environmental-Economic Accounting (8th event, March 2023), on circular economy measurements; ecosystem-, forest- & water accounts; environmental taxes & subsidies; and integration of accounts

Next steps:

- Regional training event on UNECE waste indicators and statistics, including on circular economy (end of 2023 or early 2024)
- Support to SEIS reporting and implementation
- Training on reporting or support to reporting under a specific MEA as needed
- 20th session of Joint Task Force on Environmental Statistics & Indicators with dedicated capacity development sessions

SOME POLICY QUESTIONS

NPD Steering Committee Members are invited to consider open policy questions regarding environmental data, including the following:

- In which areas do you experience the most critical challenges regarding the **availability of relevant data** for your policy implementation work ?
- How will Ukraine monitor policy implementation progress of its ambitious environment related legislation and strategy/ies ?
- Are there specific needs of Ukraine related to reporting on UNECE Conventions or other Multilateral Environmental Agreements?
- How could inter-institutional co-operation in the area of environmental monitoring and assessment be reinforced ? (e.g. between the ministry(ies), State Statistics Service etc. to ensure timely production and availability of environmental data as well as assessment?)
- The State Statistics Service of Ukraine is an active member in UNECE intergovernmental bodies on environmental monitoring and statistics. Does the Ministry of environmental protection and natural resources also aim to **strengthen co-operation with UNECE?**

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EUROPEAN ENVIRONMENT AGENCY

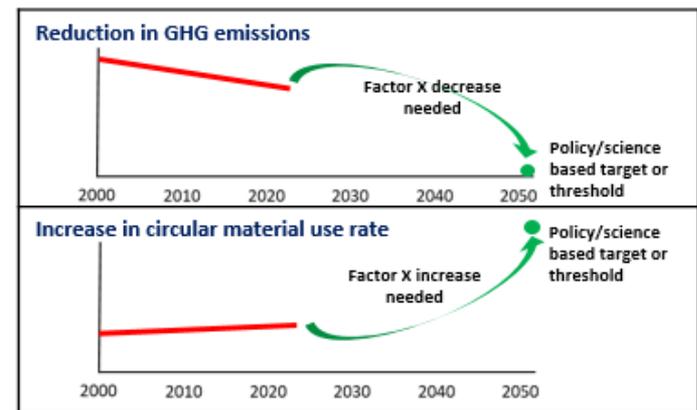
MEMBER STATES & CO-OPERATING COUNTRIES

→ EU ACCESSION COUNTRY
UKRAINE TO JOIN THIS CONTINUOUS CO-OPERATION

CO-OPERATING WITH EUROPEAN ENVIRONMENT AGENCY

- Develop/negotiate for Ukraine and other Eastern Neighbourhood EU Accession and Partner Countries a **co-operating countries programme** with the European Environment Agency comparable to the EEA/Eionet integration programme for Western Balkan countries
- Associate Ukraine and other co-operating Eastern EU Accession and Partner Countries to the “country space” development process of the **European State of the Environment Report (SoER) 2025**

→ minimum aim is to collect and assess/present/publish validated data for SOER 2025 indicators which assess current country performance towards policy/science based target or threshold



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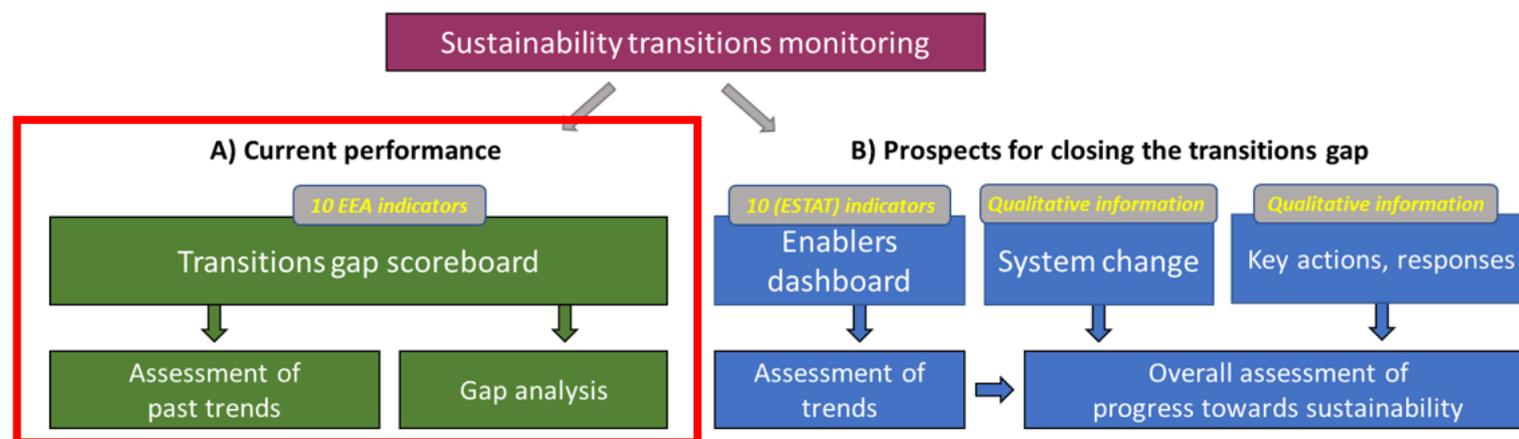
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Indicator	Policy target and/or science-based threshold	Source
EEA work area 1 – biodiversity and ecosystems		
Area under organic farming	At least 25% of the EU agricultural area under organic farming by 2030	NEW EEA indicator
Designated terrestrial and marine protected areas	Legally protect 30% of the EU's land and sea area by 2030	Existing EEA indicator (a) terrestrial , b) marine)
Net land take	No net land take by 2050	Existing EEA indicator (+ EEA land take viewer)
EEA work area 2 – climate change mitigation and adaptation		
LULUCF emissions	Increase net GHG removals by carbon sinks from the LULUCF sector to - 310 million tons CO ₂ equivalent by 2030	NEW EEA indicator
GHG emissions	Reduce net GHG emissions by at least -55% by 2030 from 1990 levels	Existing EEA indicator (+ EEA GHG data viewer)
Share of renewable energy in energy consumption	At least [45%] of energy from renewable sources in gross final energy consumption by 2030	Existing EEA indicator
Share of buses and trains in total passenger transport	Increase the share of collective transport modes (buses, coaches and trains)	NEW EEA indicator
EEA work area 3 – human health and the environment		
Health impacts of exposure to fine particulate matter in Europe	Reduce premature deaths from air pollution by 55% (from 2005 levels) by 2030	NEW EEA indicator
EEA work area 4 – Resource use and circular economy		
Total waste generation	Significantly reduce the total amount of waste generated by 2030	Existing EEA indicator
Circular material use rate	Double the ratio of circular material use by 2030 compared to 2020	Existing EEA indicator

DIALOGUE ON SOER 2025 TRANSITION INDICATORS

- Define for each theme/indicator the relevant counterpart institution and expert(s) in Ukraine
- Check relevance of defined policy target and/or science-based thresholds for Ukraine (in light of national policy and EU Accession process)
- Research and validate Ukrainian data for “current performance” indicators
- Dialogue with EEA on presentation of results in or in parallel to SOER25



CO-OPERATING WITH EPA-NETWORK

- Network of the Directors of **Environment Protection Agencies** in European countries (Secretariat hosted by European Environment Agency)
- Participating national agencies focusing on control/permitting and/or environmental monitoring/information
- Interest Groups on thematic or policy-relevant issues
- IG on Co-operation with Ukraine chaired by Miroslav Havranek, Director of Czech Environmental Information Agency (CENIA)
- Deputy Chair of RADA Environment Committee proposed participation of Ukraine in EPA Network through State Environmental Inspectorate
→ covering control/inspection function of environment agencies

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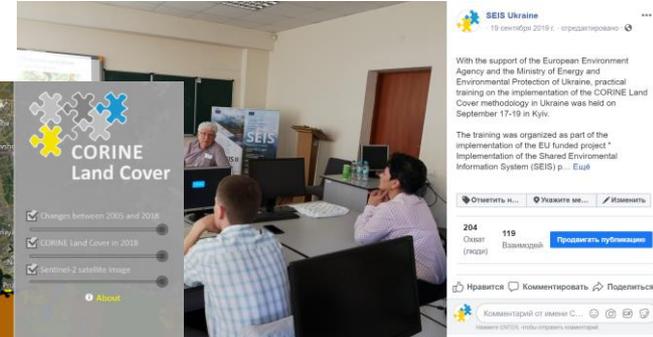
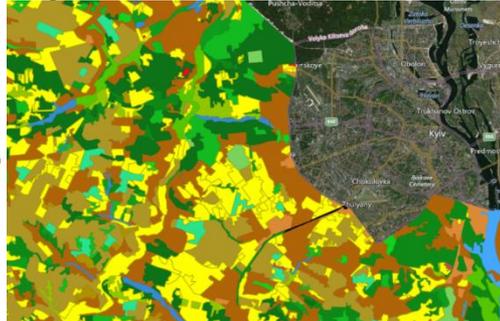
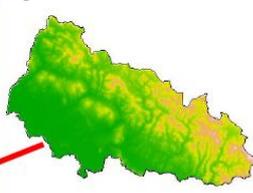




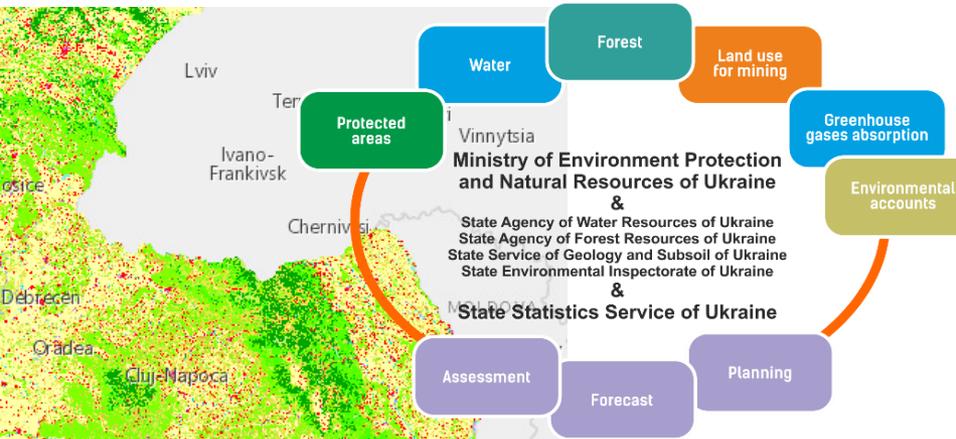
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CLC FOR REPUBLIC OF UKRAINE FOR THE CARPATHIAN REGION (27.000KM)



<http://seis.menr.gov.ua/clc/>



- CLC Implementation by REEFMC and Agroresurssystem supported by Lechner
- assistance is provided by verification and comparison with Neighbourhood areas (for consistency)
- Provision of Interchange software package
- Realisation till March2024

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HIGH RESOLUTION VEGETATION PHENOLOGY AND PRODUCTIVITY

The workshop in winter 2023 will probably be at the University Lab of Uzhgorod

- Introduce the Copernicus land monitoring component (CLMS)
- Detailed overview of available datasets
- Training on how to find and access the respective datasets through different data portals.

Case studies will be done

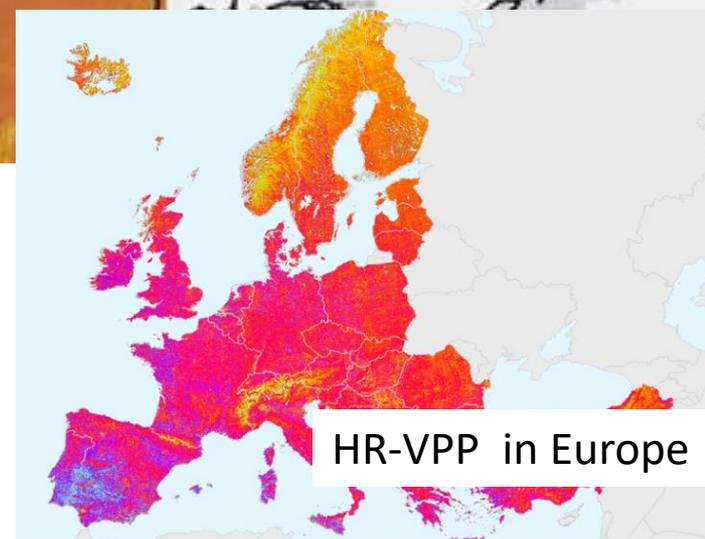
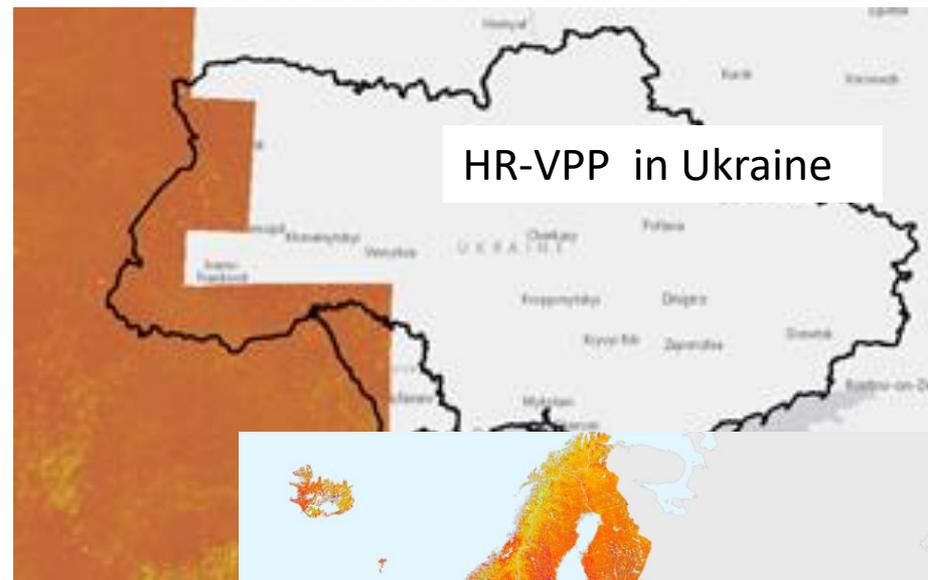
- To investigate the impact of climate change to forestry (the sequence of drought, forest dieback and forest fires)
- To identify the impact of climate change to the landscape and change of land management in protected areas.

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FROM EU ASSOCIATION TO EU ACCESSION REQUIREMENTS

- **Waste Management Reporting** – necessary to prepare for evaluating obligatory European recycling targets for waste streams, to support Extended Producer Responsibility systems
 - all EU reporting obligations via Eurostat, UkrStat is actively preparing
 - good co-ordination needed between Waste Management Authorities and Statistical Institutes
 - Environment Ministry active in IT system development
 - recent programme support to draft Waste Management Reporting Regulation under new Waste Management Act < and to self-screening exercise >

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FROM EU ASSOCIATION TO EU ACCESSION REQUIREMENTS

- **Air Quality Monitoring** – Air Quality Framework

Directive requirements already included in Association Agreement and transposed

→ need for < new and restored > automated monitoring stations, also sufficient spare parts, consumables, trained staff

→ improve institutional co-ordination at national and with regional levels

→ very high engagement of civil society with sensor-based monitoring
< valuable for citizen awareness, especially on health-endangering fine particulate matter – but cannot replace quality assured measurements according reference methods >

→ Use of European Air Quality index not yet obligatory, but proposed for future in current European Directive review

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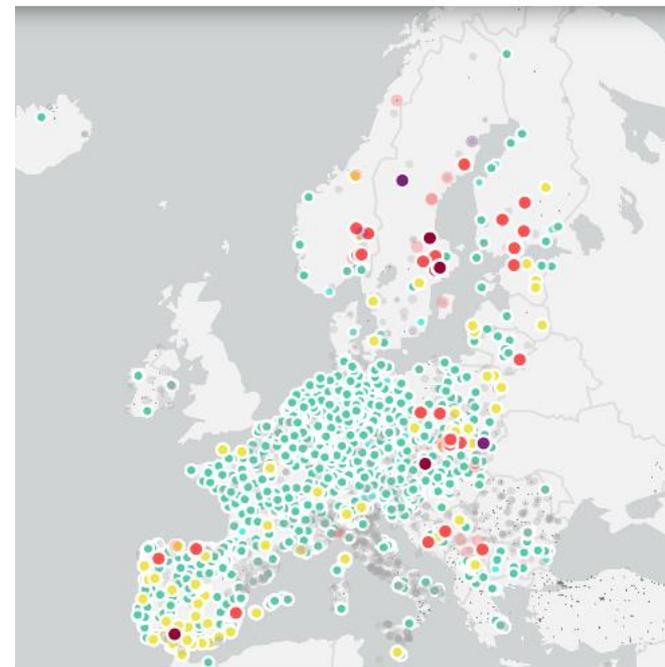
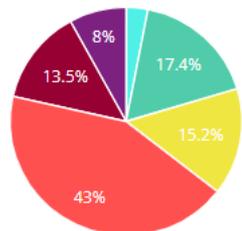
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EUROPEAN AIR QUALITY INDEX

IS-2 (RO0084A)

Air Quality Index Fair (due to PM10)
Date 2023-04-20 12:00 UTC+2
Country Romania
Location IASI
Classification Background
Area Urban

Accumulated past 365 days



European Air Quality Index

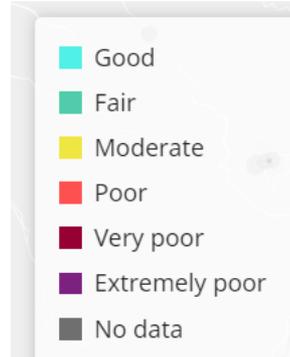
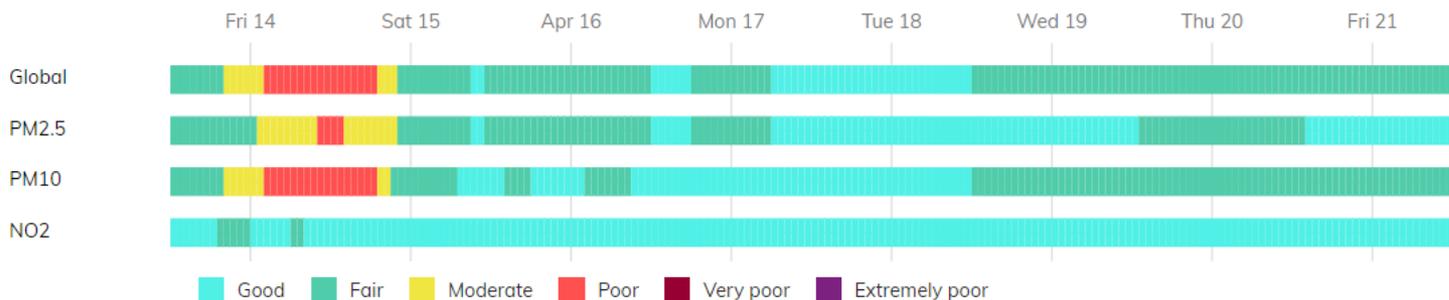
General population

Enjoy your usual outdoor activities.

Sensitive population

Enjoy your usual outdoor activities.

EXAMPLE IASI - ROMANIA





DEVELOPING WATER ACCOUNTS (COMPONENT 2.1)

- **Water accounts is linking hydrological information alongside economic information in a consistent way**
- **Preparation**
 - **Introduction** to Water Accounts in May 2022: concept, definitions, data sources, and training Physical Flow and Use table in March 2023.
- **Test filling of Physical Supply and Use Tables (PSUT)**
 - Support to national water agency and statistical service on basis of UNSD Joint Questionnaire to fill PSUT tables and identify gaps
 - Work together for identifying where to find additional data and estimates in 2023.
- **Report results**
 - If possible, develop a communication infographic and investigate indicator of EEA named WEI+
 - Organise final regional workshop to share progresses



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→ Through its component 2.1, EU4ENV project is an opportunity to **improve thematic reliability of statistics** as support to decision making, and increase visibility of statistics data

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FURTHER DEVELOPING OPEN DATA ACCESS

- **EcoZagroza portal** <https://ecozagroza.gov.ua/en> is defined in Ukraine as the entry point for access to environmental data
- **Through its Output 2.4, as requested by the SAWR, the EU4Eenv programme is an opportunity to support:**
 - **The development of the E-monitoring information and analytical system** for State Agency for Water Resources in Ukraine including API for interoperability with data producers and EcoZagroza portal, metadata catalogue implementation and feedback
 - **Metadata production** on the environmental datasets in order to allow easy retrieving, traceability and information of the potential data users on the characteristics of the available datasets (sources, level of quality control, conditions of use, detailed description, etc...).

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SOME POLICY QUESTIONS

NPD Steering Committee Members are invited to consider open policy questions regarding environmental data, including the following:

- Do you support **regular co-operation with the European Environment Agency** with contribution from Ukraine to the 2025 State of the Environment Report ?
- How will Ukraine co-operate with the **EPA- Network** ?
- What are the **key priorities and implementation challenges** for inter-ministerial cooperation and access to environmental statistics and open data?
- In which areas do you experience the most critical challenges regarding the **availability of relevant data** for your policy implementation work ?
- Where do you see priorities for the next steps in developing **air quality** monitoring and **waste management** reporting and data management ?
- How could environmental **open data access** could be reinforced, including entry point portal definition and maintenance, inter-institutional co-operation, metadata development and better environmental dataset access?

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