

Copenhagen | Tuesday 12 November 2019 | *Silvia Nicolaescu, Environmental Agency*
Elena Orlova, National Bureau of Statistic

SESSION 2

National impacts and deliverables of the ENI SEIS II East project

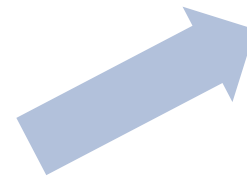
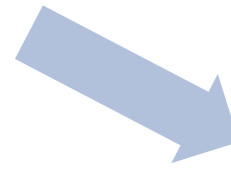
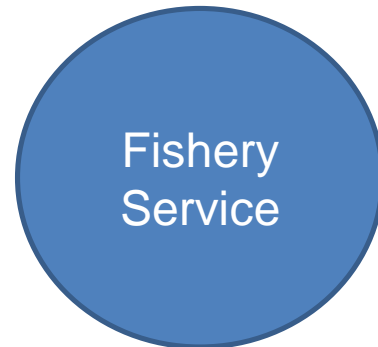
Republic of Moldova



1. Progress towards the expected results (1/2)

Environmental Agency - an administrative institution subordinate to the Ministry of Agriculture, Regional Development and the Environment

The purpose of creation - ensuring the implementation and realization of state policy



Environmental Agency (MEA)

Established in June 2018 (GD 549/2018)

Implementing body under the Ministry of Agriculture, Regional Development and Environment (MARDE)



ASSESSMENT

EIA, SEA and ecological expertise



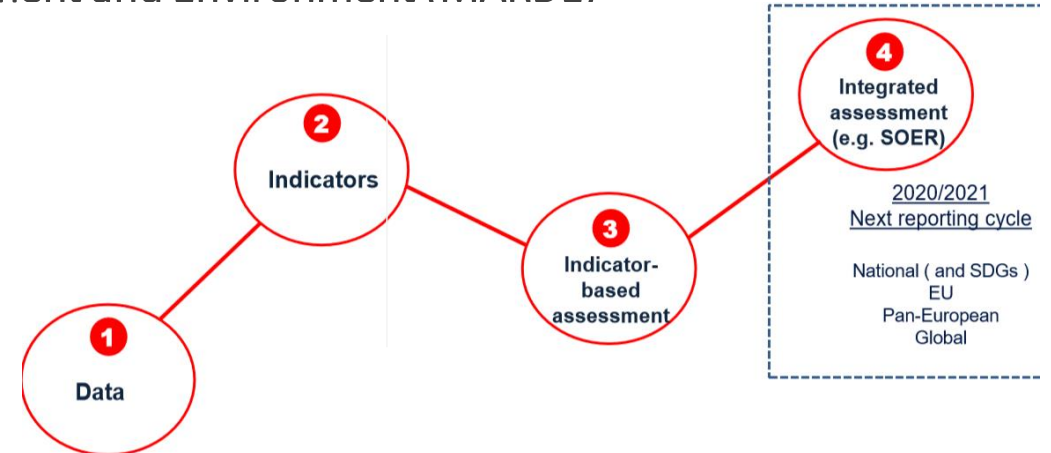
PERMITTING

permits, single-media permits, registration, through SIA GEAP



MONITORING

air, water, soil, biodiversity, waste, radioactivity level,



INFORMATION

SEIS (Integrated environmental information System) implementation and management of the environmental information, creates and manage Registers and Cadasters and ensure public access to information

REPORTING

SoER, state of environment reports, national environmental indicators, conventions

Informational Systems

existing and planned



National PRTR system

Information on environmental pollution, emissions to the air, water, soil, diffuse sources and the transfer of waste and pollutants, as well as to facilitate the access of decision-makers, public institutions, economic agents and the general public to this information.

<https://retp.gov.md/#/>



Waste Management Informational System (SIAMD)

Data on waste generation, collection, transporting and treatment; List of issued permits; Record of notifications for waste transfer, issued;

List of List of manufacturers; List of units and enterprises exempted from meeting the requirements for authorization of waste recovery and disposal activities.

<https://siamd.gov.md>

<https://permits.gov.md> ,
<https://actpermisiv.gov.md/#/home>



E-Pescuit

Automated Information System for issuing fishing permits;



Integrated Environmental Information System

Draft concept to be submitted for approval (Gov. Decision)

Water Informational System – Cadastre;

Draft concept of the Informational System and Regulation;

Data on water quantity ;




**GOVERNMENT
PUBLIC SERVICES PORTAL**



**GOVERNMENT
OPEN DATA PLATFORM**

- 1. one-stop shop for all public services;
- 2. information on more than 630 public services;
- 3. More than 160 electronic services and average 2300 visitors per day
- 1. reusable, machine readable data
- 2. 1114 datasets from 48 authorities
- 3. 35 data sets on environment



Ministerul Agriculturii, Dezvoltării Regionale și Mediului

Agenția de Mediu

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AAA

Agenția

Comunicare

Domenii de activitate

Indicatori de mediu

Transparența

Acte permise

Informație de interes public

- Informational Systems; Website and Social Media;
- Laboratory bulletin with environmental information
- Sharing information upon request under the Law on public access to information

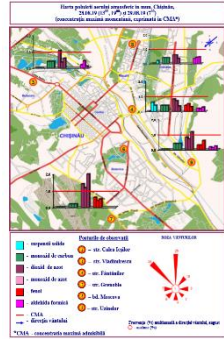



Agencia de Mediu



Agencia de Mediu

@agentiamediu







Statistical databank

Select database:


- Environment
- Population and demographic processes
- Social statistics
- Economic statistics
- Gender statistics
- Regional statistics

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Statbank update calendar



MOLDOVA

UNECE ENVIRONMENTAL INDICATORS

ENVIRONMENTAL ASSESSMENT REPORTS

National Focal Points:

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Elena Orlova, National Bureau of Statistics of the Republic of Moldova

National SEIS Assistant:

Maria Tarigradean

Links:

ENI SEIS II East project on the web sites of: the National Bureau of Statistics | the Ministry of Agriculture, Regional Development and Environment | the Environmental Agency of the Republic of Moldova

Delegation of the European Union to the Republic of Moldova | Moldova and the EU | Basic figures EAP countries

UNECE Environmental indicator	Moldova
A. Air pollution and ozone depletion	
B. Climate change	
C. Water	
D. Biodiversity	
E. Land and soil	
F. Agriculture	
G. Energy	
H. Transport	
I. Waste	
J. Environmental financing	
Total	

0/No data 25% 50% 75% 100%

A

Air pollution and ozone depletion

B

Climate change

C

Water

D

Biodiversity

E

Land and soil

F

Agriculture

G

Energy

H

Transport

I

Waste

J

Environmental financing

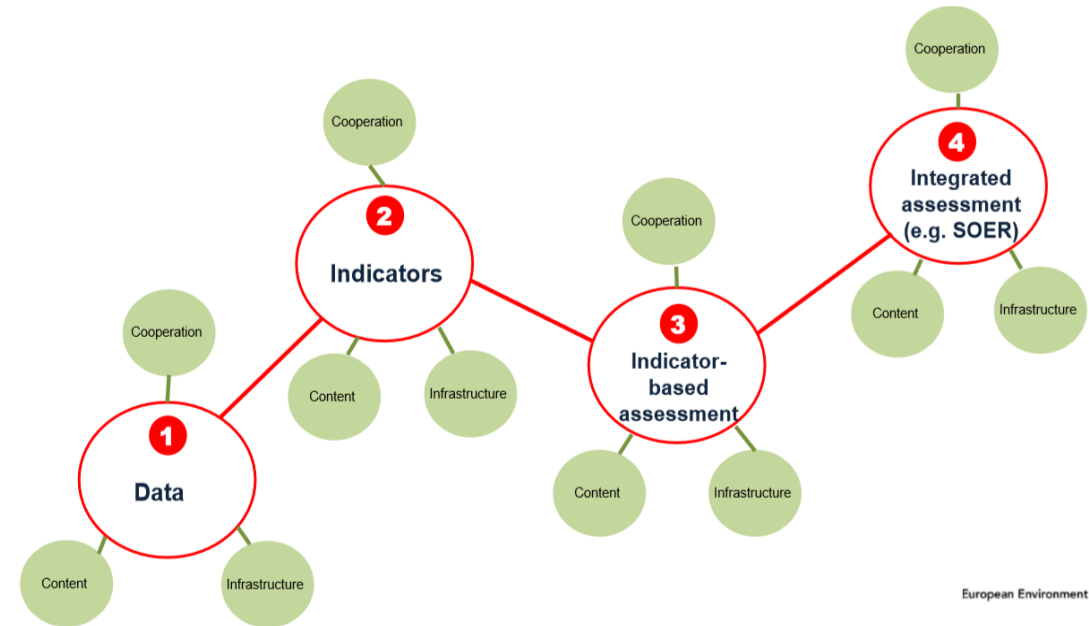
A. Air pollution and ozone depletion	Moldova	
A1. Emissions of pollutants into the atmospheric air	3	Read more >
A2. Ambient air quality in urban areas	3	Read more >
A3. Consumption of ozone-depleting substances	3	Read more >

Other Environmental Reports/Sectoral Reports published by state institutions

ENI SEIS II East Project website

SEIS to support a regular assessment process – progress on:

1. **Institutional cooperation** for share and use of the environmental information
2. The **Application of Environmental Indicators** in Eastern Europe, Caucasus, Central Asia and South-Eastern Europe
3. **SoER** - integrated assessment of the state of the environment
4. **SEEA** – Environmental Accounting



Progress towards the expected results:

National Implementation Team

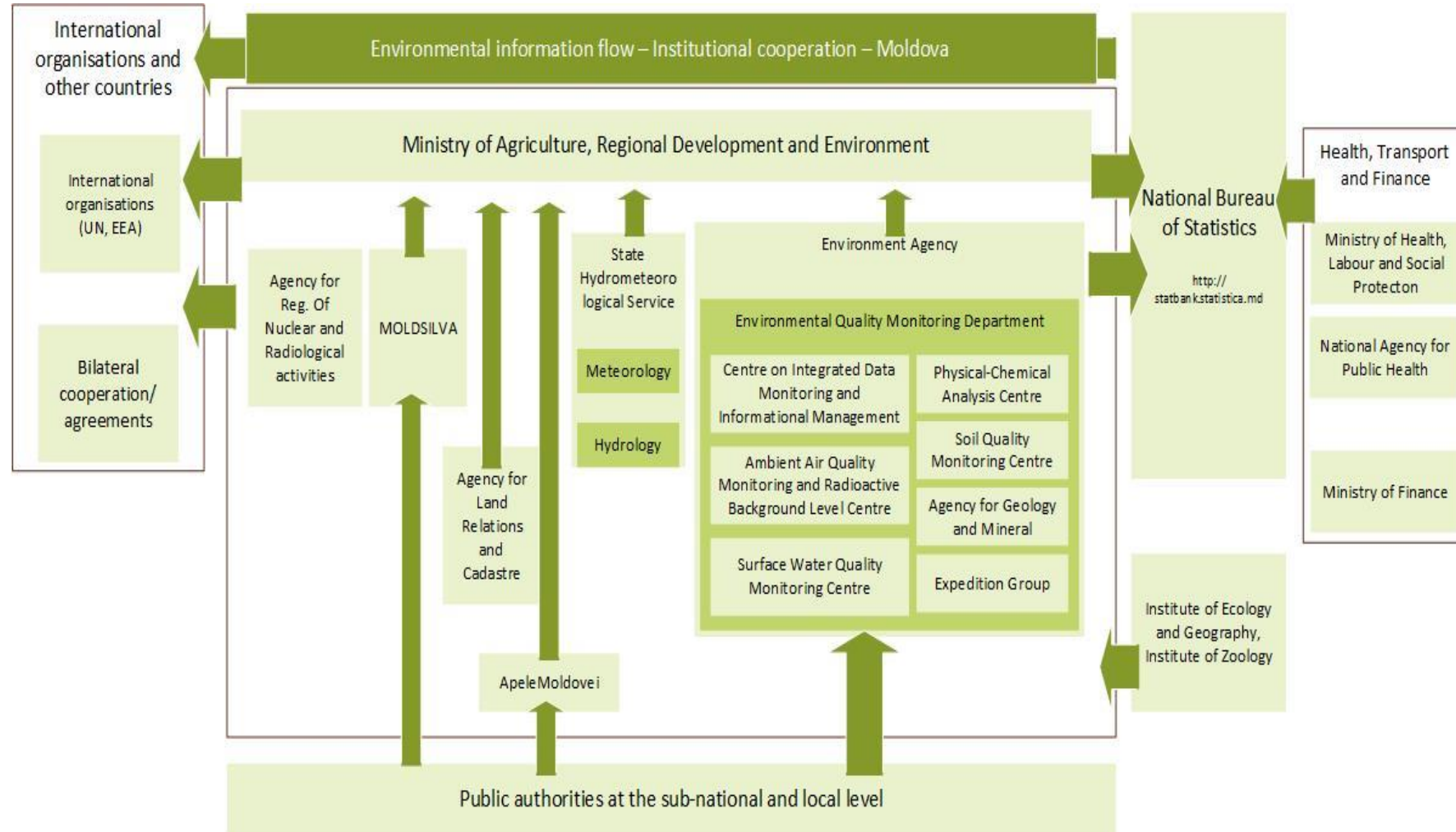
- ✓ **Established by inter-institutional Order**
- ✓ **Members:** representatives of authorities, environmental experts and civil society
- ✓ **Goal:** streamline a **regular** assessment and reporting process at the national level
- ✓ **Objective:** to apply the UNECE regional environmental indicators and SoER elaboration
- ✓ **Coordination and secretariat:** Environmental Agency



Actions taken

✓ **Institutional cooperation** to effectively share and use of the environmental information:

Assured through NIT:
17 authorities, civil society organizations = more than 33 representatives involved



Actions taken

✓ The Application of Environmental Indicators in Republic of Moldova *produced and those in progress*

C.2. Freshwater abstraction (1990-2017)
C.3. Water Consumption (2000-2017)
C.4. Domestic water consumption per capita (2012-2017)
C.5. Water supplied by the water supply industry and public access to this water (2012-2016)

C.10. BOD and concentration of ammonium in rivers (1992-2017)
C.11. Nutrients in fresh water (1992-2017)

D.1. Protected Areas (1971-2018)

online availability
Environmental
Agency web
ENI SEIS II East
project website (*in progress*)



Ministerul Agriculturii, Dezvoltării Regionale și Mediului

Agenția de Mediu

Agenția Comunicare Domenii de activitate Indicators de mediu Transparența

Indicators de mediu

[A. Poluarea aerului și epuizarea stratului de ozon](#)
[B. Schimbarea climei](#)
[C. Apa](#)
[D. Biodiversitate](#)
[E. Teren și sol](#)
[E. Agricultură](#)
[G. Energie](#)
[H. Transport](#)
[I. Deșeuri](#)
[J. Finanțarea de mediu](#)

Apa

[C2- Captarea apelor dulci în Republica Moldova](#)

[C3- Utilizarea totală a apei în Republica Moldova](#)

Indicators search

INDICATORS SEARCH

Search an indicator

C2 – Freshwater abstraction in the Republic of Moldova

Moldova is highly dependent on surface water resources. Around 85 % of water abstraction is met from surface waters, particularly from the Dniester and Prut rivers. Water abstraction had substantially decreased (75 %) during the transition period from 1990 to 2000. Since then annual water abstraction has shown a steady trend, with an annual average of 725 million m³.

However, data uncertainty, particularly in self-abstraction (groundwater and surface water), is very high, and improving it will require strengthening the monitoring programme and metering water supply and use.

The country is experiencing slightly higher water stress conditions (the annual average water exploitation index (WEI) is around 13 %) compared with its neighbouring countries.

[Read more](#)

C3 – Total water use in the Republic of Moldova

FILTERS

Current search

Country
Moldova

[Hide filters](#) [Remove all](#)

Country

Moldova

Indicator code

All

Theme

All [Activate WIP](#)



Actions taken

✓ The **Application of Environmental Indicators** in Republic of Moldova *produced and those in progress - the beginning of December, 2019*

- A1. Emissions of pollutants into the atmospheric air
- A2. Ambient air quality in urban areas
- A3. Consumption of ozone-depleting substances
- B1. Air temperature
- B2. Atmospheric precipitation
- B3. Greenhouse gas emissions
- C1. Renewable freshwater resources
- C2. Freshwater abstraction
- C3. Total water use
- C4. Household water use per capita
- C5. Water supply industry and population connected to water supply industry
- C6. Connection of population to public water supply
- C7. Water losses
- C8. Reuse and recycling of freshwater
- C9. Drinking water quality
- C14. Population connected to wastewater treatment
- C15. Wastewater treatment facilities

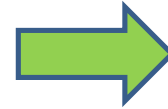
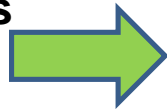
- D3. Forests and other wooded land
- D4. Threatened and protected species
- D5. Trends in the number and distribution of selected species
- E1. Land uptake
- E2. Area affected by soil erosion
- F2. Fertilizer consumption
- F4. Pesticide consumption
- G1. Final energy consumption
- G2. Total primary energy supply
- G3. Energy intensity
- G4. Renewable energy consumption
- H1. Passenger transport demand
- H2. Freight transport demand
- H3. Composition of road motor vehicle fleet by fuel type
- H4. Age of road motor vehicle fleet
- I1. Waste generation
- I2. Management of hazardous waste
- I3. Waste reuse and recycling
- I4. Final waste disposal



Actions taken

✓ The Application of Environmental Indicators in Republic of Moldova tools, methodology and involved institutions

- ❑ Capacity building activities under ENI SEIS II East – *hands on training, peer-to-peer support, remote expert assistance*
- ❑ Shared experience and tools by EEA and Slovak Environmental Agency
- ❑ UNECE online available Guidelines for the Application of Environmental Indicators
- ❑ EEA guidelines for indicator profile



- ✓ Were elaborated the **Indicator Specification and Evaluation Templates** for each indicator plus **time series data table**, available in romanian (.xls)
- ✓ Were presented to the **NIT**, discussed and **adjusted the format** with competent institutions
- ✓ Were distributed to the **competent institution (NIT)** for **data collection and pre-fill** the indicator evaluation according to its specification

Indicator Management System (IMS)

Indicator = methodology + story (assessment) + visualisation



Time series data on the indicators for 1990-2017, Table C-2 Freshwater abstraction, Moldova

	Unit	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
Surface and groundwater abstracted																							
1	Fresh surface water abstracted	million m ³	3807	1761	750	736	734	723	717	716	718	756	734	736	721	718	721	711	710	712	717	713	
2	Fresh groundwater abstracted	million m ³	311	244	166	138	132	135	135	136	136	129	127	129	130	130	129	128	127	128	126	127	
3	Freshwater abstracted (Row 1+row 2)	million m ³	3918	2005	916	874	866	864	852	852	854	885	861	865	851	848	850	839	837	840	843	840	n/a
of which abstracted by																							
4	Water supply industry (ISIC 361)	million m ³			200	132	130	135	173	182	184	194	190	187	185	182	183	170	168	170	175	172	
5	Households	million m ³																					
6	Agriculture, forestry and fishing (ISIC 01-03)	million m ³			133	99	98	98	92	88	88	111	94	102	90	90	91	92	91	93	92	92	
7	Irrigation by official networks	million m ³																					
8	Irrigation by self-supply	million m ³																					
9	Manufacturing (ISIC 10-33)	million m ³			19	18	17	16	17	17	17	16	16	15	15	15	15	15	16	16	16	16	
10	Electricity industry (ISIC 35)	million m ³			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	Other economic activities	million m ³			566	565	561	565	564	565	565	564	561	561	561	561	561	562	562	561	560	560	
Water exploitation index (WEI)																							
12	Renewable freshwater resources (in Table C-1 row 5)	million m ³																					
13	Water exploitation index (Row 4 / Row 12)	%								6503	6516	6507	6476	6503	6432	6517	6488	6500	6500	6500	6500	6500	
14	Water exploitation index (Row 4 / Row 13)	%								13.1%	13.1%	13.6%	13.3%	13.3%	13.1%	13.0%	13.1%	12.9%	12.9%	12.9%	13.0%	12.9%	n/a

Note
Water for hydroelectricity generation purposes should be excluded from electricity industry.
More information
Water related questionnaires as well as relevant definitions developed by UNSD can be found at <http://unstats.un.org/unsd/environment/questionnaire2013.html>

Comments
* Transnistria is included in the above figures.
* Abstraction by self-supply is not included; figures provided by official water operators.

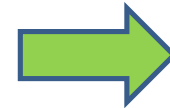
Actions taken

✓ The **Application of Environmental indicators** in Republic of Moldova tools, methodology and involved institutions

- ❑ EEA/SEA team of experts
- ❑ Previously trained National team of experts
- ❑ ENI SEIS EE National Assistant



- ✓ Assistance to NIT member institutions with **indicator assessment** according to its specification
- ✓ How: *peer-to-peer/ working meetings*



Moldovan indicator assessment templates contains following information:

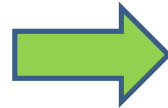
- ✓ Key messages;
- ✓ State and trend analysis with illustration (graphics, maps);
- ✓ Detailed assessment text
- ✓ Indicator specification and metadata (indicator definition, units, methodology of calculation);
- ✓ Rationale (justification for indicator selection, scientific references);



Actions taken

✓ SoER - integrated assessment report on the state of the environment tools, methodology and involved institutions

❑ **Capacity building activities under ENI SEIS II East** –
country visits, peer-to-peer support, remote expert assistance, webinars



❑ **Shared experience and tools by EEA and Slovak Environmental Agency**

❑ **SoER production Road Map and methodology** paper for Moldova by EEA, SEA

❑ **SoER Country brief** by for Moldova by EEA, SEA



✓ Elaborated the national **Plan of Action** for SoER production (2015-2018)

✓ Elaborated the SoER structure, presented to the **NIT**, discussed and **adjusted the activities, timeline and role of involved** institutions

✓ Was decided to be published on 5th of June 2020

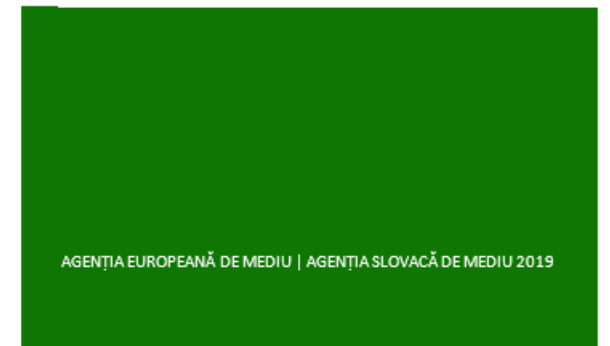


 Implementation of the Shared Environmental Information System principles and practices
Eastern Partnership countries (ENI SEIS II East)
This project is funded by the European Union and is implemented by the European Environment Agency



Foia de parcurs
Elaborarea Raportului National privind Starea Mediului
Republica Moldova

Document de lucru



Action taken

✓ SEEA – Environmental Accounting – progress and synergy

Within ENI SEIS II project successfully were conducted trainings on:

1. Ecosystem accounts (soft QGIS)
2. Land cover accounts (soft SAGA)

In synergy is carried out:

Technical assistant project with Sweden Statistics Office: NBS began elaboration Environmental account of emissions in atmospheric air in accordance with Methodological guide for calculations "System of Environmental-Economic Accounting" –

Central Framework. In present we performing experimental calculations of emissions for 2014 – 2016. After approval of methodology of calculations this subject will be included in the annual Program of statistical works for their further permanent implementation.

2. Cooperation with Poland Statistics Office supported by UNECE - studying the experience of calculating the Forestry Account in Poland in order to initiate these calculations in Moldova



SEIS to support a regular assessment process – next immediate actions :

1. Institutional cooperation for share and use of the environmental information
2. The **Application of Environmental Indicators** in Eastern Europe, Caucasus, Central Asia and South-Eastern Europe
3. **SoER** - integrated assessment of the state of the environment



1. **Finalize the Indicators Assessment**
30 November 2019
2. **Public consultation** and approval for publication of the **Indicators**:
next NIT meeting: mid December 2019
3. Approval of the **indicator templates** to be used on a **regular basis**:
next NIT meeting: mid December 2019
4. **SoER** – feedback and **approve** final of the **methodology, structure** and table of **content**
next NIT meeting: mid December 2019



Further steps and support needed to modernize the national environmental information system

Content



Implement the legal obligations, methods, tools, procedures and standards for environmental information /data management responsibilities amongst institutions

Infrastructure



Develop the Integrated Environmental Information Management System to connect all the existent databases; digitalise databases stored on paper; share information between databases of different institutions; and to collect data electronically/digitally (*interoperability standards*)

Cooperation



Improve the institutional collaboration and share of information through clearly stated legal, organizational and technological measures



SEIS to support a regular assessment process – priority actions:

- Strengthening regular reporting process: further production of environmental indicators
- Support in the elaboration process of the National State of Environment Report (SoER);
- Support in operationalization the national integrated environmental information system
- Data management and infrastructure - develop a technical implementation framework (formats, standards, connectivity between portals, metadata, responsible, structure, etc);
- Capacity building for the implementation of the UN System of Environmental-Economic Accounting (UN SEEA);
- Support for extending the CORINE Land Cover (CLC) methodology to country area on the foundation and good case practice of the CLC Pilot project for the capital area;



4. Visibility and communication

1. Attending and take part in other Working Groups such as: the National WG on Aarhus convention;
2. Ensured media coverage and visibility for all held events – Environmental Agency, National Bureau of Statistics and Ministry websites and social media accounts;



Prima ședință a Grupului de lucru interministerial responsabil pentru Raportul național privind starea mediului

AGENZIA DE MEDIU · THURSDAY, 31 OCTOBER 2019 · READING TIME: 5 MINUTES



Thank you for
attention



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