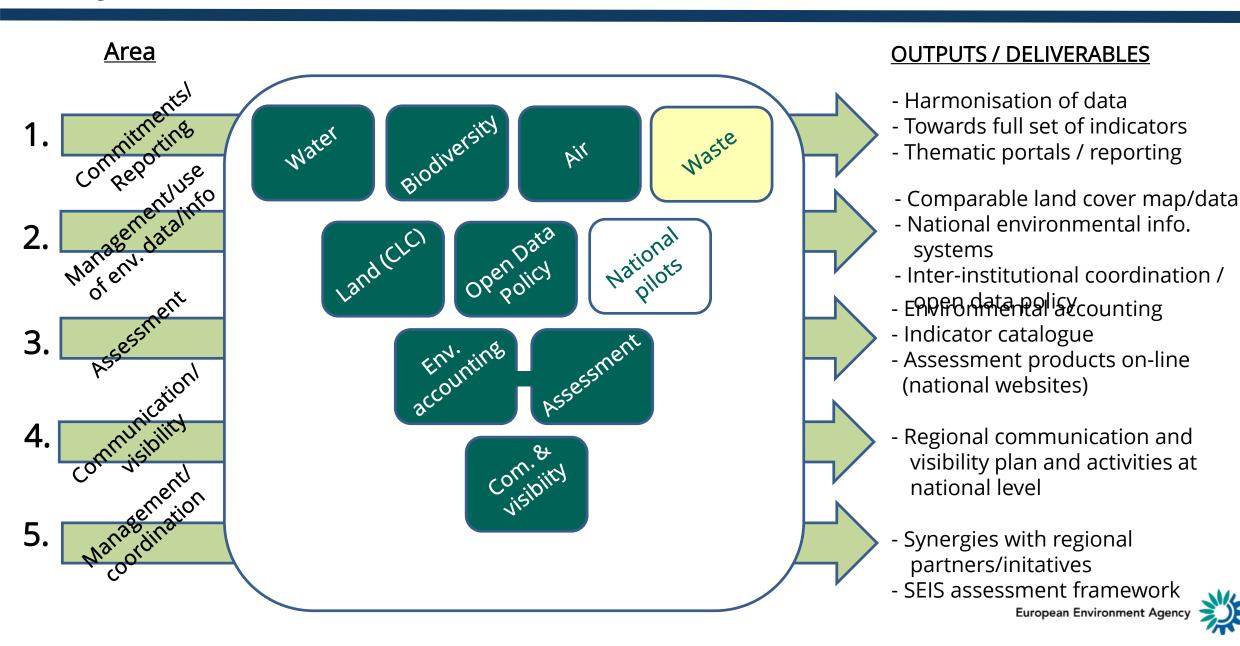
# **SESSION 3**

# Overview of the 2019-20 work plan



# **Project structure**



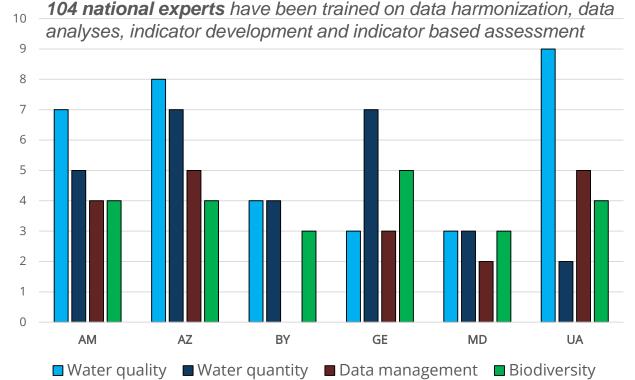
# Area of Water Area of Biodiversity



Overall goals of the water and biodiversity components are;

- Align water and biodiversity data with the WISE and BISE for enabling the ENI east countries to meet the international reporting requirements
- Improve the expert and institutional capacity for supporting knowledge-based national environmental policy development and implementation

Capacity building at the expert level



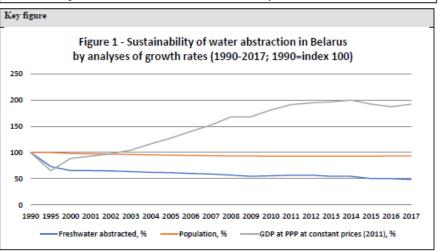
#### Indicator Assessment

Indicator Set	Date 04/09/2018
UNECE regional environmental indicators-C2 (link)	Authors: Ekaterina Poleshchuk, Veronika Zhosan, Aliaksandr Pakhomau
Indicator Title	
C2-Freshwater abstraction	

#### Key policy question: Is the freshwater abstraction sustainable in Belarus?

#### Key message

- 1. Total freshwater abstraction in Belarus has been decreased to 48% during the period 1990-2017.
- The relative distribution between surface and groundwater abstraction is stable with an average of 44% for surface and 56% of groundwater resources.
- Water exploitation index for surface water is below 2% that says about low water stress level.



#### Key assessment text

#### Key assessment tex

In 2017, the total freshwater abstraction in Belarus was 1 396 mln cub. m, what is just 48% of the level of 1990. Reduction of freshwater abstraction has soft stable trend and in comparison with such strong factors of pressure on the environment, as growth of GDP at PPP at constant prices (2011) and constant population, is keeping this tendency, what says about effective water management policy.

#### References in key assessment text

GDP at PPP at constant prices (2011) was taken from the World Bank website as of Jun. 26, 2018.



## Country performance review - Water

#### Armenia

Tasks	Water quality	Water quantity
Compiling the data set		
Data analyses		
Developing indicator template		
Publishing the indicators		

#### Georgia

Tasks	Water quality	Water quantity
Compiling the dataset		
Data analyses		
Developing indicator template		
Publishing the indicators		

#### Azerbaijan

<u> </u>		
Tasks	Water quality	Water quantity
Compiling the dataset		
Data analyses		
Developing indicator template		
Publishing the indicators		

#### Belarus

Tasks	Water quality	Water quantity
Compiling the dataset		
Data analyses		
Developing indicator template		_
Publishing the indicators		

#### Republic of Moldova

Tasks	Water quality	Water quantity
Compiling the dataset		
Data analyses		
Developing indicator template		
Publishing the indicators		

#### Ukraine

Tasks	Water quality	Water quantity
Compiling the dataset		
Data analyses		
Developing indicator template		
Publishing the indicators		

Task completed

Progress made but task not completed yet

No progress

## Country performance review – Biodiversity

#### Armenia

Tasks	D1- Protected areas
Compiling the data set	
Data analyses	
Developing indicator template	
Publishing the indicators	

#### Georgia

Tasks	D1- Protected areas
Compiling the data set	
Data analyses	
Developing indicator template	
Publishing the indicators	

#### Azerbaijan

Tasks	D1- Protected areas
Compiling the data set	
Data analyses	
Developing indicator template	
Publishing the indicators	

#### **Belarus**

Tasks	D1- Protected areas
Compiling the data set	
Data analyses	
Developing indicator template	
Publishing the indicators	

#### Republic of Moldova

Tasks	D1- Protected areas
Compiling the data set	
Data analyses	
Developing indicator template	
Publishing the indicators	

#### *Ukraine*

Tasks	D1- Protected areas
Compiling the data set	
Data analyses	
Developing indicator template	
Publishing the indicators	

Task completed

Progress made but task not completed yet

No progress

#### Activities in 2019

- Regional state of water report (contribution of-and engagement from the countries is crucially important)
- Country factsheet in the area of water
- **EcoPortal** Water (Azerbaijan), **Water Information System** in Georgia, **EcoPortal** Water (Armenia)
- Publishing the water and biodiversity indicators
- Supporting first exercise of data **reporting to the Emerald network** under the Resolution No. 8 (2012) of the Bern Convention

# Vision beyond 2019

ENI SEIS II East is focusing on assessing water availability and state of water quantity and quality (supply management) in the ENI countries for developing a baseline

- Future potential activities in the area of water would give the focus to assessment of water use, demand management, water services such as **drinking water** and **waster water treatment** (as response to the water and health protocol of the Water Convention), **bathing water** and WHO blue flag implementation, **water pricing, water use efficiency** etc.
- Potential supports to strenghtening the monitoring programs with remote sensing data and implementation **HRL for forest** to support FRA process (possible cooperation with Copernicus)

# Area of Land cover mapping



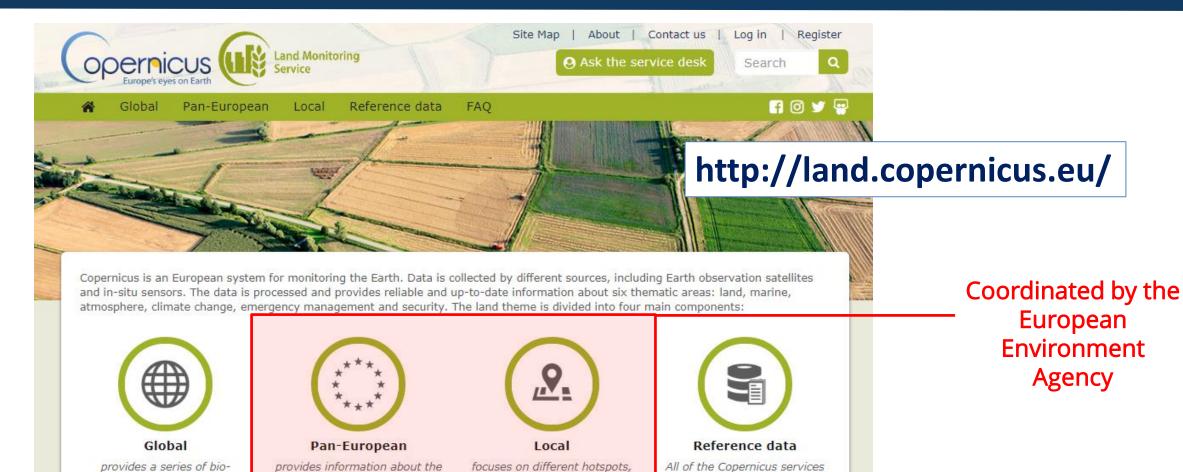
# **Land monitoring**

geophysical products on the

status and evolution of the land

surface at global scale at mid

and low spatial resolution



i.e. areas that are prone to

specific environmental

challenges and problems

need access to in-situ data in

order to ensure an efficient and

effective use of Copernicus

space-borne data

land cover and land use

(LC/LU), land cover and land

use changes and land cover

characteristics



# **CORINE Land Cover (CLC)**



- Wide European coverage (39 countries, 6 million km<sup>2</sup>)
- Four status layers (1990, 2000, 2006 and 2012)
- Three corresponding change layers
- the 5<sup>th</sup> inventory under production (CLC2018)
- Production methodology is relatively simple and well documented

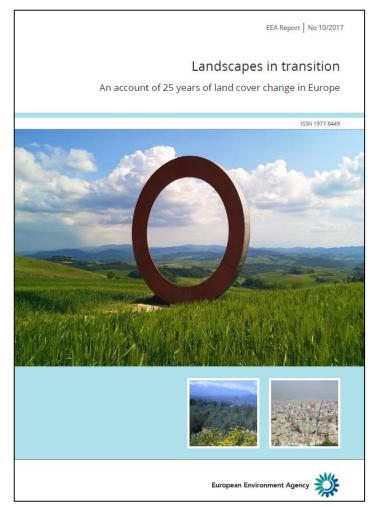
\*\*\*\*



# **Eionet support**

# Support from the European Topic Centre on Urban, Land and Soil Systems (ETC/ULS)

- Country visits
- CLC training
- CLC verification
- Technical support









# Pilot areas (ca. 50 x 50 km) – capital areas

Step 0	Selecting the national team (4-5 experts)			
Step 1	Selecting the pilot area			
Step 2a	Selecting satellite images covering the pilot area			
Step 2b	Collection of reference data			
Step 3	Preparing satellite images for the pilot			
Step 4	Dedicated training courses on CLC mapping (3 days)			
Step 5	Mapping CLC status layer over the pilot area			
Step 6	Step 6 Verification of the CLC status layer			
Step 7	Training on mapping CLC-changes (3 days)			
Step 8	Mapping CLC-change layer over pilot area			
Step 9	Verification of the CLC-change layer			
Step 10	Generating the backdated status layer for the pilot area			



# Pilot areas (ca. 50 x 50 km) – capital areas

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# Deliverables per country

- 1. Recent CLC dataset (with CLC code as attribute);
- 2. CLC-change dataset (with past CLC code and recent CLC code as separate attributes);
- 3. CLC dataset for the past (with CLC code as attribute)
- 4. Metadata\* (note: part of deliverable for EEA39 countries as part of CLC2018 may be simplified for working area)
- 5. Technical reports on process produced with the help of the ETC/ULS



# **Benefits**

- Capacity building to produce CLC for the entire country;
- Ability to produce European CLC layers (status and change) according to the needs of Eionet/EEA
- Might initiate national activities to produce land cover
  - In higher spatial resolution
  - With better thematic coverage (more attributes)
- Possibility to interact with experts across the region and in other parts of Europe (Eionet).



# Area of Air quality



# Why? & Who?

# Overall objective:

 To increase the use and public accessibility of AQ measurement data in the ENI East countries

# **Specific objectives:**

- To evaluate the status of AQ monitoring and use of data
- To share EU/EEA examples on AQ monitoring and reporting

Implementation: EEA & Norwegian Institute for Air Research (NILU) & 4sfera in cooperation with national authorities



# **How? What?**

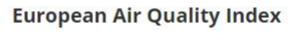
# Tasks:

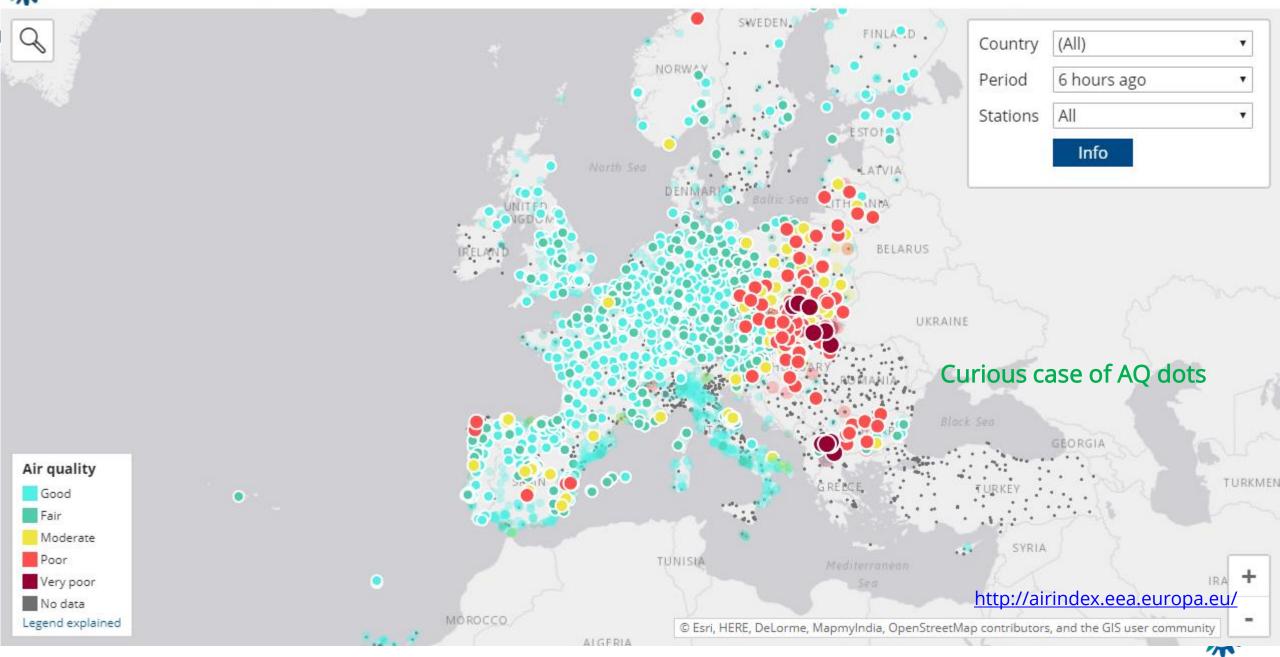
- 2018 Regional workshop
- Country visits as of October 2018
- 2019 Regional workshop
- Plenty of talk & e-mails!

# Deliverables:

 Draft country fact sheets on AQ monitoring & reporting (January 2019)







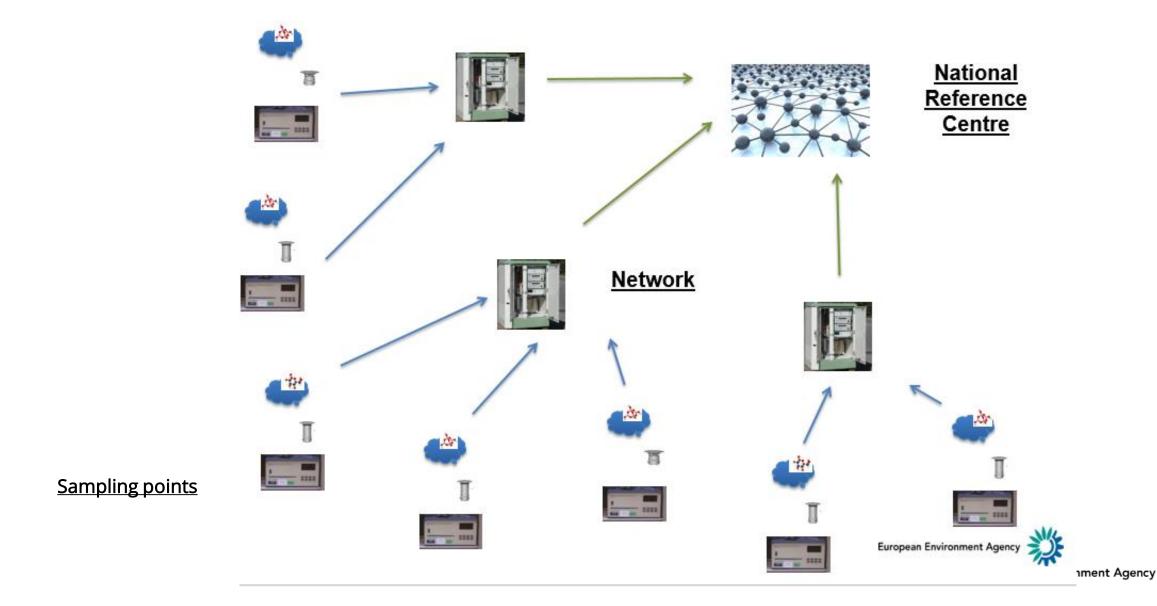
# **Curious case of AQ dots**

- 2008/50 Air Quality Directive
- 2013 Clean Air Policy Package for Europe (targets for 2020 & 2030)
- 2018 EC Communication 'A Europe that protects: Clean air for all' (provides national, regional and local actors practical help to improve AQ in Europe) & more

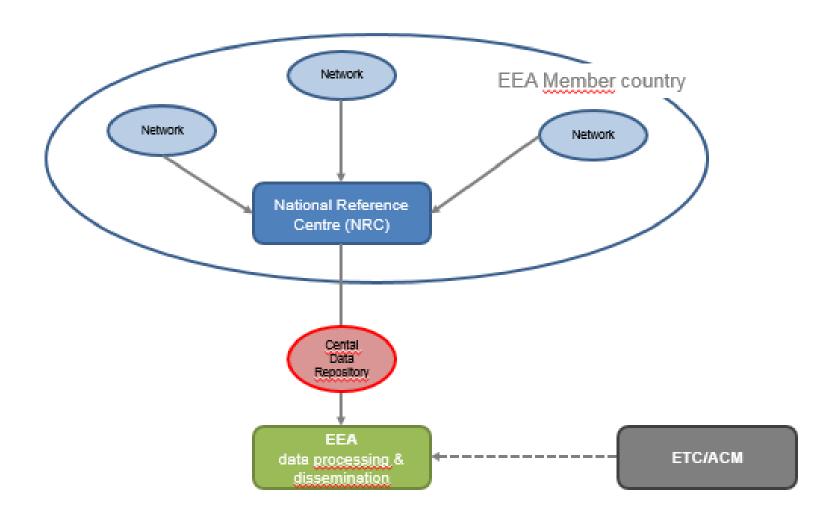
Key instrument in Clean Air Policy – AQ eReporting to EC/EEA & much more



# AQ eReporting at national level



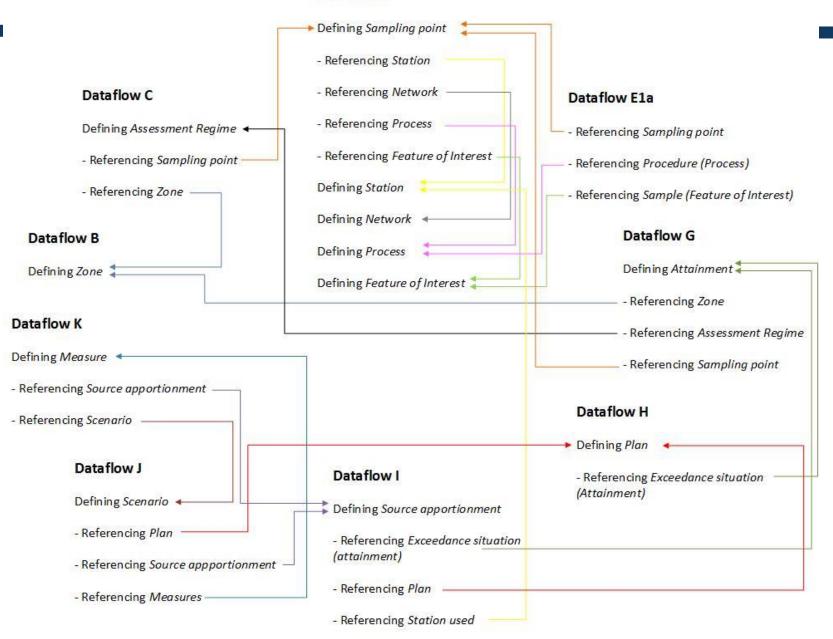
# AQ eReporting from national to EU level



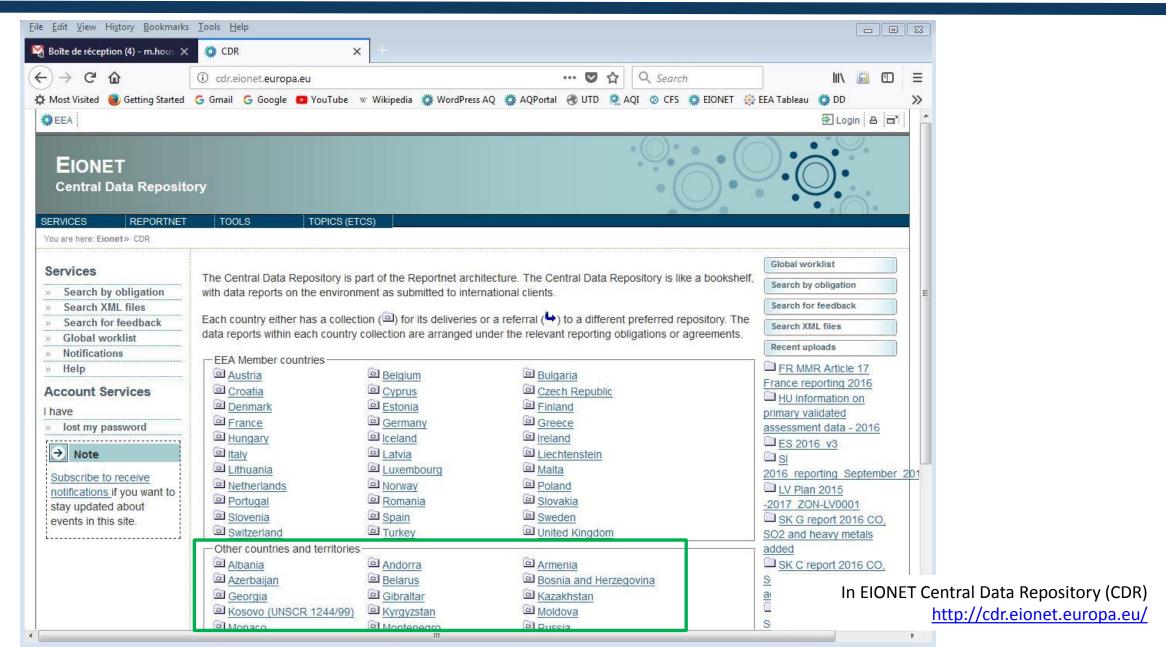


#### YY-2 **AQ** eReporting data flows H plans Isource J scenario K measures YY-1 B zone C regime D method E1a measurement YY+1 YY E1b model B zone B zone G attainment C regime C regime E2a UTD Feb Dec Mar May Jun Jul Sep Oct Nov Dec Jan Apr Aug Jan Year YY -+ 1 Year YY - 1 Year YY

#### Dataflow D



# Where? - Reportnet - central data repository



# Area of Open Data / e-governance



# **Environmental information meets electronic governance**

To develop a roadmap and identify feasible and practical means for integrating environmental information in national e-governance / Open Data processes and platforms

- Together with the UNECE Convention on Access to Information, Public Participation in Decision-Making and Access to Justice in Environmental Matters (Aarhus Convention)
- With the support of Pricewaterhousecoopers (PwC) Lithuania and the national offices in in each of the countries
- Aligned to the structure of the EU Open Data Maturity Reports



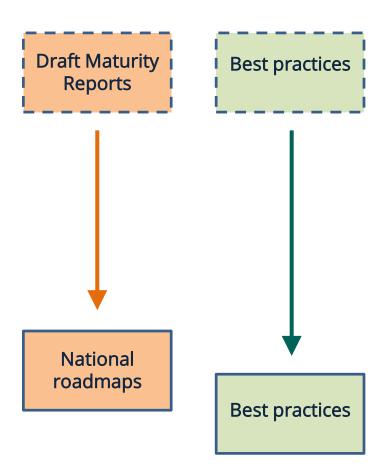




# **Environmental information meets electronic governance**

# Flow of activities (June 2018 – December 2019):

- **1. Overview** of existing initiatives/trends/common practices on e-governance and open data
- 2. Regional meeting to discuss the findings of the studies (task 1) and facilitate the preparation of a generic road map that can be tailored to the country's needs
- 3. Country actions 6 national roundtables
- 4. Regional exchange and the future

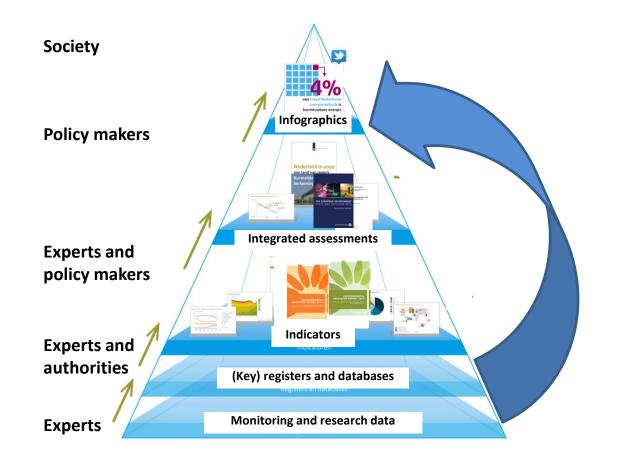




# Area of assessment and environmental accounting



### Current SoE reporting in EU and beyond



Knowledge
Assessments
Information
Data
Monitoring

#### 2019: Activities 3.1.



















	2019			Implem			
Activites	I	II	III	IV	EEA	Partenrship	Deliverable
Activity 3.1: National training and expert assistance on							
SOER production, based on SEIS-compliant data							
Specific training programmes (attendance and participation	<b>28-30</b>						
in traning programmes of the EEAcademy Summer School on			August		EEA	Eionet/PBL	
Integrated Assessment)							event/experts
Specific training programmes (expert technical assistance							visit/experts/
and visits)					EEA	EEA/SEA	data,indicators,
							report online
Moldova		2-4					
		April					
Armenia			4-6 June	<b>!</b>			
Visit countries to the EEA/Eionet meeting				₹			visit/people/
				15-16	EEA	EEA/SEA	data,indicators,
				October			report online

#### **2019 EEAcademy ENI Summer School on Integrated Environmental Assessments**

[28-30 August 2019, Copenhagen, EEA]



**Goal 17:** Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development

# 2019: Activities 3.2.Methodological support for production of indicator-based assessments

		2019			Implementation		
Activites	ı	II	III	IV	EEA	Partenrship	Deliverable
Overview availability of the UNECE environmental indicators	March			September	EEA	NFPs and NAs	Information
and assessments online							online
UNECE Environmental indicators reviewing process and					EEA	UNECE	input
updating of the core set of Environmental indicators							
Participation in meetings of the UNECE Joint Task Force on environmental statistics and indicators					EEA	UNECE	event/experts
				<b>28-29</b>			., .
Participation in meetings of the UNECE WGEMA				28-29 October	EEA	Eionet	event/experts
Expert technical assistance and visits to the countries				15-16	EEA	Eionet/SEA	event/experts/
				October			report online
Moldova			ı				
Armenia			4-6 Jur	ne			
Visit countries to the EEA/Eionet meeting				<b>15-16</b>	EEA	EEA/SEA	visit/people/
				October			data,indicator,
							report online
Environmental accounting							
Self Assessment of environmental accounting progress	March				EEA	UNECE	report online
Vocational training on environmental accounting and new		May			EEA	ETC/CIRAD	event/people
indicators production							
Participation in the UNECE Seminar on SEEA	20-21				EEA	UNECE	event/experts
	Febru						
	ary						

### Cooperation programme EEA - Slovak Environment Agency

#### Country visit and hands on training, 2018-2019

- Belarus, April 2018, 12 experts
- Georgia, May 2018, 45 experts
- Azerbaijan, July 2018, 24 experts
- Ukraine, October 2018
- Moldova, April 2019
- Armenia, July 2019

Training package on SOER development, Eastern partnership countries, 2019

Template for environmental indicator, 2019

Methodological guidance on SOER development, Eastern partnership countries, 2019

Country briefing, 6 Eastern Partnership countries, 2020

Road map on SOER development, 6 Eastern Partnership countries, 2020

## Country Briefing on SOER

#### 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



Cross-country comparisons

Countries and regions

Country briefings provide an overview of state of the environment across 39 European countries, based on national state of environment reports. Regional briefings cover three regions, identified as priority areas in the EU's 7th Environmental Action Programme.

#### Countries briefings

- Albania country briefing
   The European
   environment state
   and outlook 2015
- Austria country briefing

   The European
   environment state
   and outlook 2015
- Belgium country briefing
   The European
   environment state
   and outlook 2015
- Bosnia and Herzegovina country briefing - The European environment - state and outlook
   2015
- Bulgaria country
   briefing The European
   environment state
   and outlook 2015
- Croatia country briefing

   The European
   environment state

   and outlook 2015

- Iceland country briefing
   The European
   environment state
   and outlook 2015
- Ireland country briefing
   The European
   environment state
   and outlook 2015
- Italy country briefing -The European environment - state and outlook 2015
- Kosovo\* country
   briefing The European
   environment state
   and outlook 2015
- Latvia country briefing -The European environment — state and outlook 2015
- Liechtenstein country briefing - The European environment — state and outlook 2015
- Lithuania country

- Slovakia country briefing - The European environment — state and outlook 2015
- Slovenia country briefing - The European environment — state and outlook 2015
- Spain country briefing - The European environment — state and outlook 2015
- Sweden country briefing - The European environment — state and outlook 2015
- Switzerland country briefing - The European environment — state and outlook 2015
- The Former Vugeslau



#### Road map on SOER development

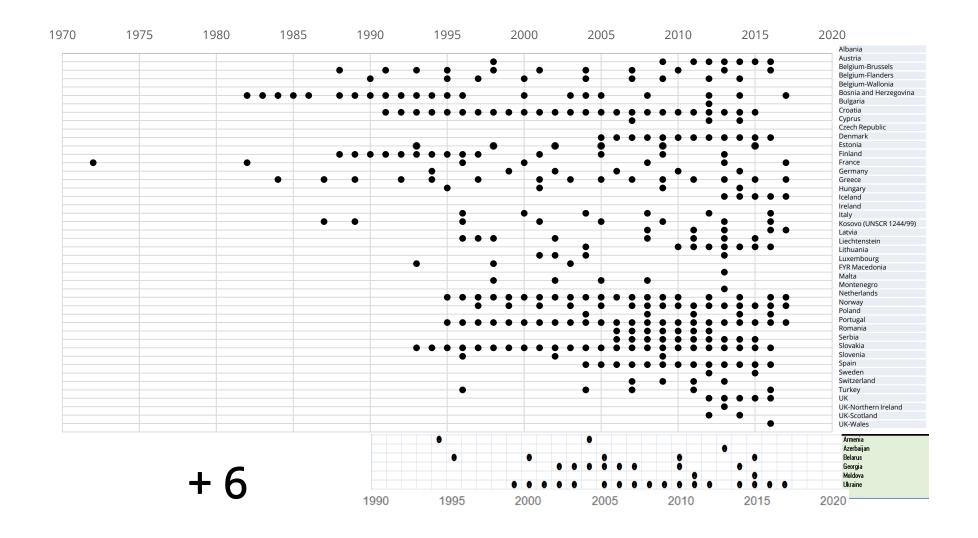
# Document on implementation of Area 3 of the ENI SEIS II East: Description of the action.

- Chapter 1 Political background and state of play of environment reporting and assessments.
- Chapter 2 Project activities on assessment
- Chapter 3 Deliverables and deadlines
- Chapter 4 Risks and assumptions

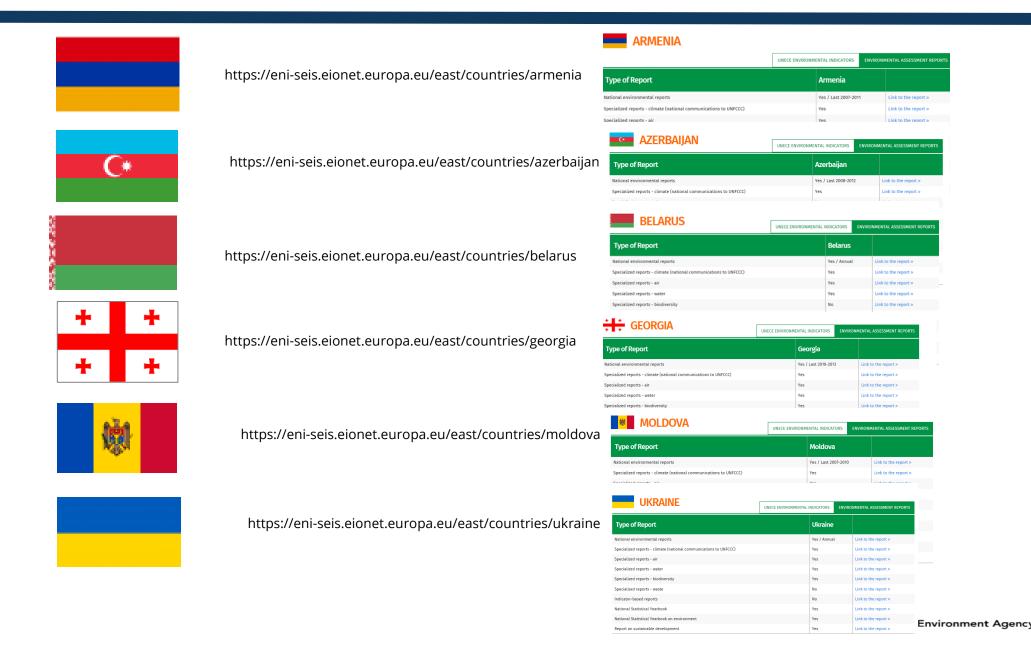
Activities are implemented with the European Environment Agency and Slovak Environment Agency.



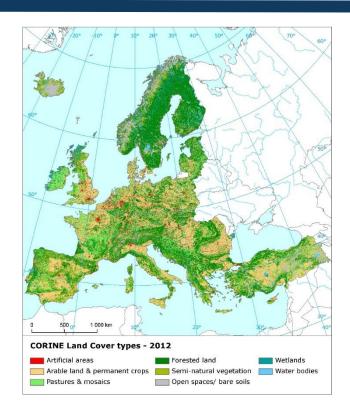
# SOER 2020 - One pager: National SoE reports in the EU

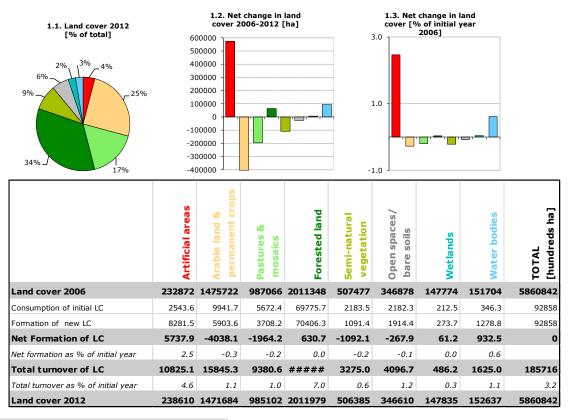


# National state of environment reports accessible online



## Integrated Data Platform - Integrated accounting and assessment



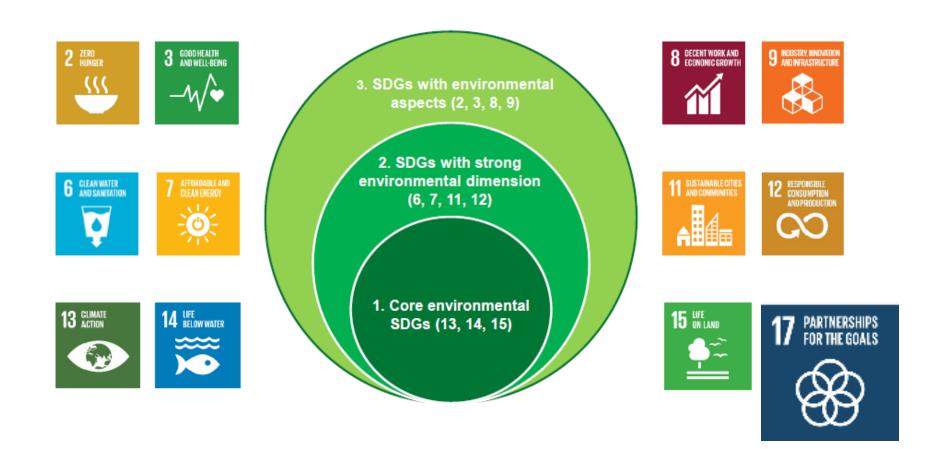


#### Products and services in 2019-2020

#### Support to CLC pilot

Production of land cover and land cover change accounts with country data
Assessment of land degradation involving the analysis of stress factors that caused of urban sprawl, agriculture extension, deforestation and land uptake
Calculation of the UNECE indicators on land" Land uptake" E1 based on spatial approach measurement
Calculation of an indicator of land scape degradation (NLEP)

#### Future with focus on SDG work



Thank you! jana.tafi@eea.europa.eu

# Area of communication and visibility



# **Communication**





This project is funded by the European Union and is implemented by the European Environment Agency Road map on SOER development in Republic of Azerbaijan Working document

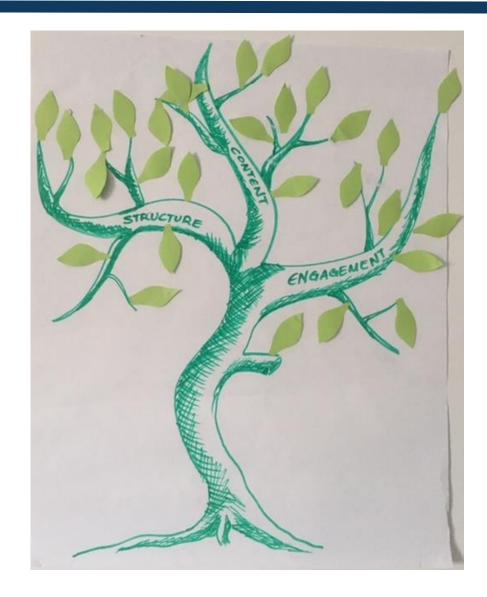
EUOPEAN ENVIRONMENT AGENCY SLOVAK ENVIRONMENT AGENCY 2018







# 2018: Interactive regional workshop on sharing environmental information effectively





# **Visibility**



Agency and Slovak Environment Agency, focused on deepening the capacities of the national experts in carrying out the implementation of selected indicators, assessment tools and reporting on environment.

Read more about this event in <u>Belarus</u>, <u>Georgia</u> and <u>Azerbaijan</u>.

Three countries have received in-depth training on the development

of the state of environment reports: Belarus, Georgia and Azerbaijan.

This hands-on training, developed by the European Environment

ENI SEIS II East project delivered training to over 80 experts from the six Eastern Partnership Countries on water data management, indicator development, indicator-based assessment

The European Environment Agency water experts held a 3-day training session, building capacity for assessing state of water resources that can support policymaking, Read more about this training session in <u>Armenia</u>, <u>Azerbaijan</u>, <u>Belarus</u>, <u>Georgia</u>, <u>Moldova</u> and <u>Ukraije</u>.

#### ENI SEIS II project supports reporting to the Emerald network

Thanks to the support of the EEA through the European Union project ENI SEI EAST II, Contracting Parties and observer States to the Bern Consensor on were given the opportunity to become familiar with the reporting format and with the spatial data/GIS requirements under the reporting.

Read more

#### Focus on sharing environmental information effectively with communication experts

Six partnership countries and the European Environment Agency held a 3-day interactive workshop on effective sharing of the environmental information. The ENI SEIS II East project provided extensive expertise in communications of the European Environment Agency's Communication Programme and communication experts from the Eionet.

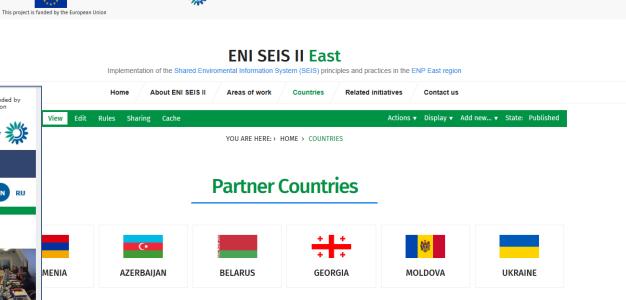
Read more



Bratislava, 28-30 November 2017

Environment Agency. Read more

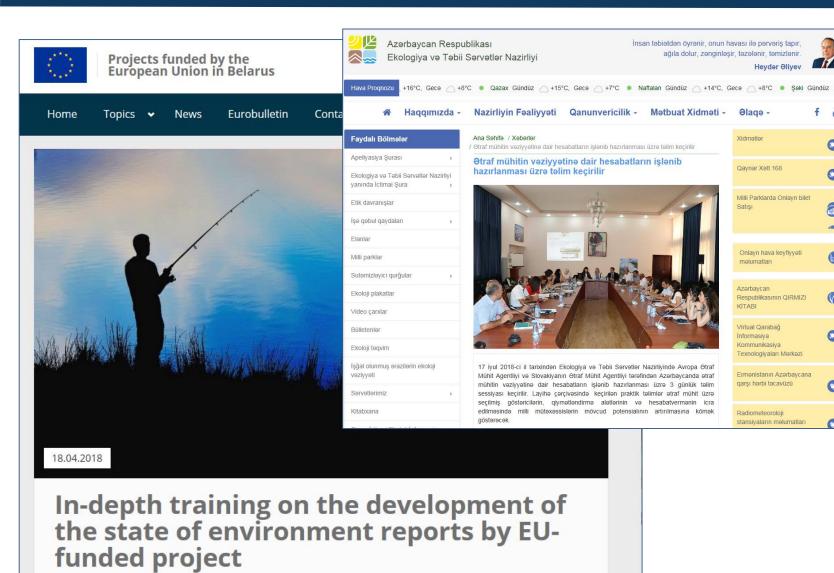
This workshop successfully kicked off capacity building and knowledge sharing to support the development of State of Environment reports in the Eastern Partnership countries. The event was organised by the EEA, the Ministry of Environment of Slovak republic and the Slovak



European Environment Agency



# Visibility



Starting today, Belarus, the European Environment Agency and Slovak Environment Agency will hold a 3-day

training session, focusing on the development of the State of environment reports,



Xidmətlər

məlumatları

Azərbaycan

nformasiya

Radiometeoroloii stansiyaların məlumatları

KİTABI

გარემოს დაცვისა და სოფლის მეურნეობის სამინისტრო 🤡 5 July - Q

ქართველმა სპეციალისტებმა EEA-ის საკომუნიკაციო მიმართულებით არსებული გამოცდილება გაიზიარეს

ევროპის გარემოს დაცვის სააგენტოს (EEA) ორგანიზებით, ქალაქ კოპენჰაგენში, საქართველოს, აზერბაიჯანის, სომხეთის, ბელარუსის, მოლდოვასა და უკრაინის შესაბამისი უწყებების წარმომადგენლებისთვის სამდღიანი სემინარი გაიმართა.

სემინარზე, რომელიც პროექტის "ერთიანი გარემოსდაცვითი საინფორმაციო სისტემების პრინციპებისა და პრაქტიკის განხორციელება აღმოსავლეთ პარტნიორობის ქვეყნებში" (ENI SEIS East II) ფარგლებში ჩატარდა, კომუნიკაციის საერთაშორისო ექსპერტებმა მონაწილეებს ევროპის გარემოს დაცვის სააგენტოს (EEA) საკომუნიკაციო მიმართულებით არსებული გამოცდილება გააცწეს. სემინარის ფარგლებში შემუშავდა გარემოს მდგომარეობის შესახებ ანგარიში (SOER) და საკომუნიკაციო გეგმის სამუშაო ვერსია. აღსანიშნავია, რომ "ერთიანი გარემოსდაცვითი საინფორმაციო სისტემების პრინციპებისა და პრაქტიკის განხორციელება აღმოსავლეთ პარტნიორობის ქვეყნებში" (ENI SEIS East II) პროექტი დაფინანსებულია ევროკავშირის ევროპული სამეზობლო ინსტრუმენტის (ENI) მიერ. პროექტის მიზაწია, გარემოსდაცვითი მმართველობის გამლიერების მეშვეობით, ევროკავშირსა და აღმოსავლეთ პარტნიორობის ქვეყნებს შორის ურთიერთობების გაღრმავება და გარემოს დაცვის მხარდაჭერა.

