Assessing the EEA cooperation with Western Balkans, ENI East and Central Asia on integrated water management



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SEIS and the environmental dimension of the SDGs – webinar series Webinar 4 - Freshwater Management Indicators and Policies 21 April 2021

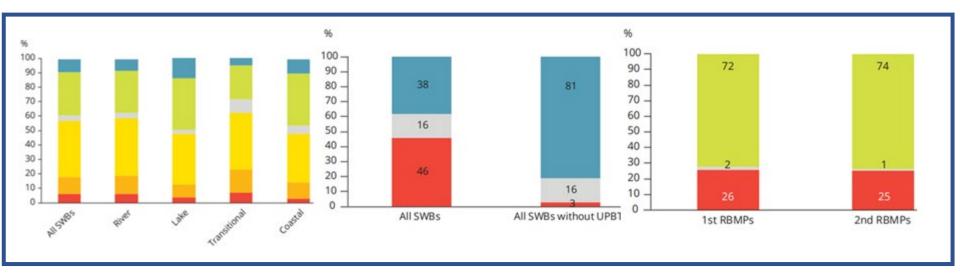


WFD target – achieve good status in all water bodies

40 % of surface waters in GES

38 % of surface waters are in good chemical status

89 % of the GWB area achieved good quantitative status



1st RBMP

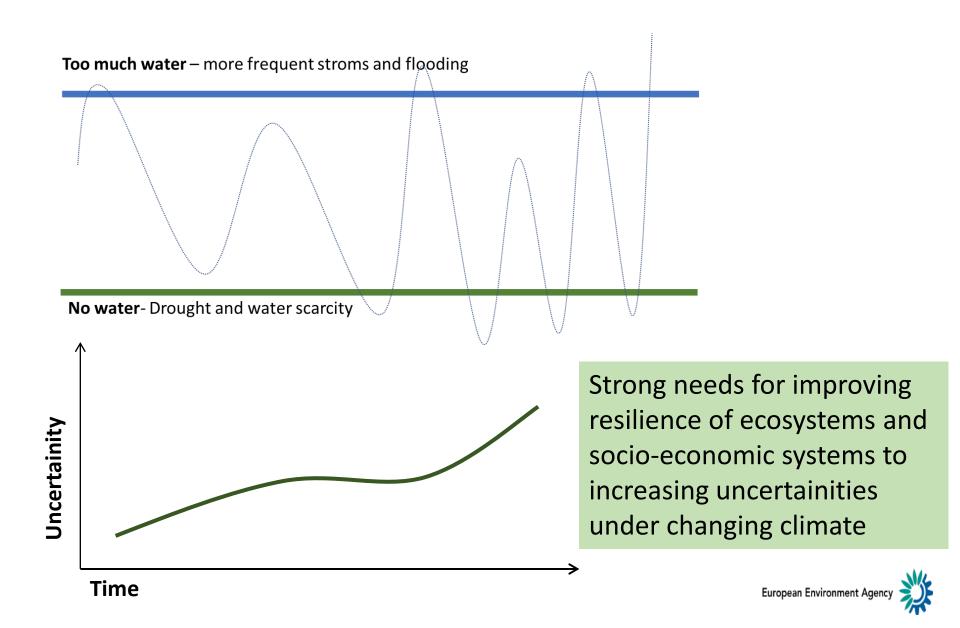
2nd RBMP

3rd RBMP

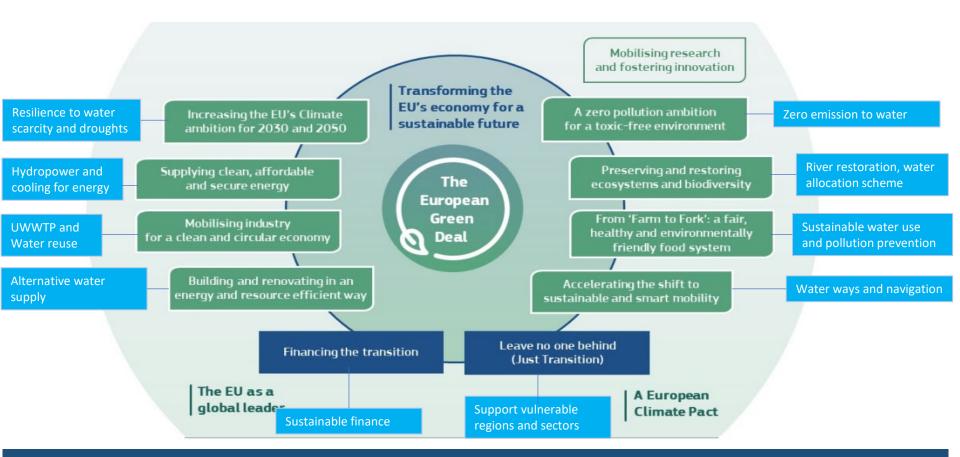
Achieve good status in all water bodies in Europe by 2027...?



Increasing uncertainities under the changing climate



EU Green Deal -A comprehensive reponse to sustainable transition



The EU Water Framework Directive – an integrated approach at river basin level to protect water bodies and sustainable use of water resources

EEA – Eionet strategy – 2021-2030

Delivering data and knowledge to achieve Europe's environment and climate ambitions

Strategic Objectives

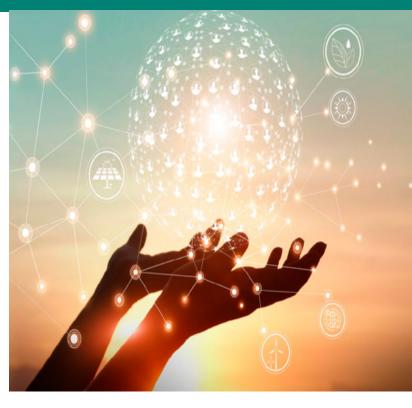
Supporting policy implementation and sustainability transitions

Providing timely input to solutions for sustainability challenges

Building stronger networks and partnerships

Making full use of the potential of data, technology and digitalisation

Resourcing our shared ambitions

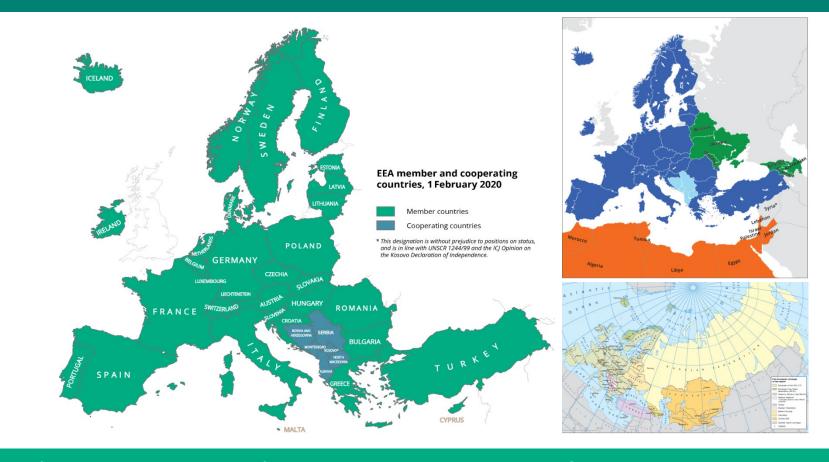




EEA thematic working areas – 2021-2030



Building stronger networks and partnerships



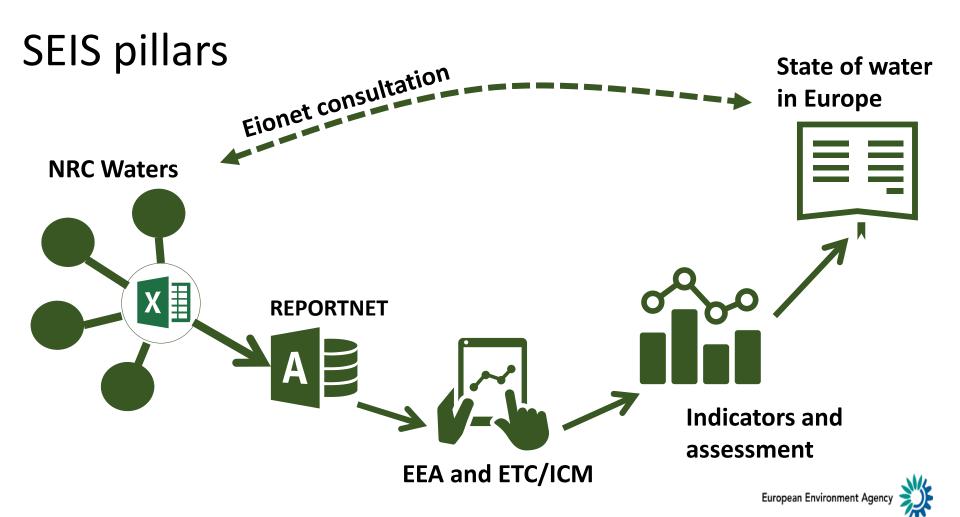
Eionet - About 300 national institutions in **32 member countries** + **6** Western Balkans cooperating countries

ENI – Neighbourhood countries of the East and the South

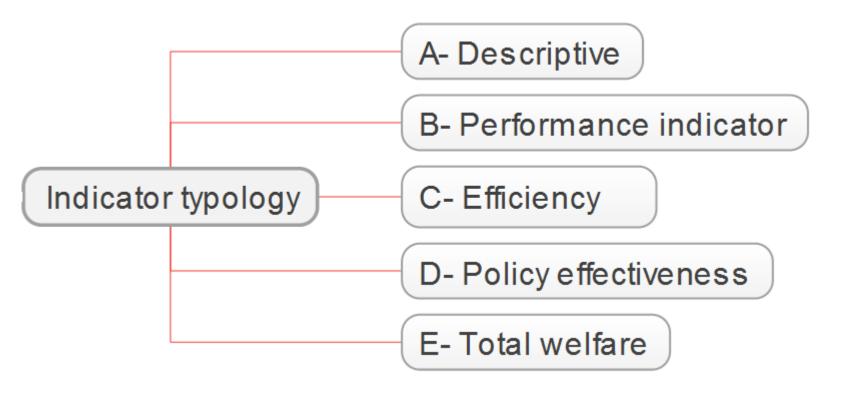
EfE Process – pan-European assessment

Eionet in practice – an example

Implementation of SEIS principles



Indicator typology and indicator-based assessment



Progress (towards a policy targets)

State (ecological status of water bodies)

Trends (water abstraction)



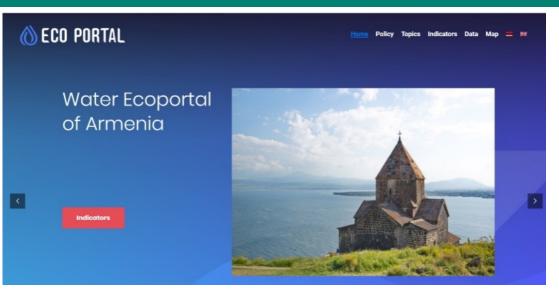
Replication the concept of Eionet and WISE in the ENI East countries

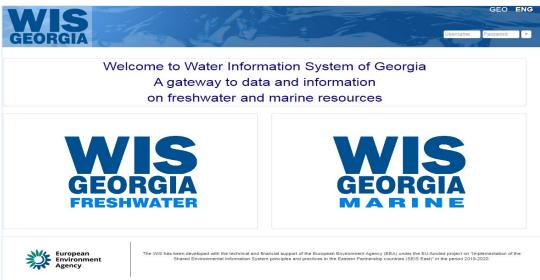
Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP East region - Water

Regional water report **Indicator development** Indicator selection Data harmonisation Selecting water indicators from Harmonising national data Implementing the EEA template Scoping the regional report **UNECE** environmental indicators with WISE SoE in developing water indicators Determining needs and Compiling the underlying water Regional consultation for Training national expert on the quality and quantity data for interests by the national water EEA indicator template scoping the water report choosen indicators agencies Identifying national experts Harmonising the water Developing indicator Drafting the report by aggregating the water involved in developing the quality data in line with specification and assessment WISE SoE Water quality data indicators to the regional indicator dictionary level Developing the national work Country consultation Country consultation plan Publishing the indicators Publication of the report UNECE Env.Ind. WISE data dict. **EEA** methodology Assessment Developing water accounts as national pilot in Azerbaijan and Belarus; Developing the water information system in Georgia and Ecoportal in Armenia and Azerbaijan



Supporting UN SDG 2030 and National SoE Report





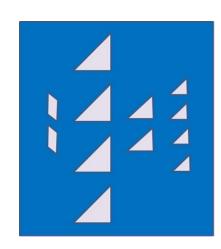
Replicating the concept of WISE for strenghtening water data and information management in Armenia and Georgia

https://eni-seis.eionet.europa.eu/east



Data harmonisation and indicator development

Georgia and Armenia have already harmonised water quality data in line with the WISE SoE Data dictionary

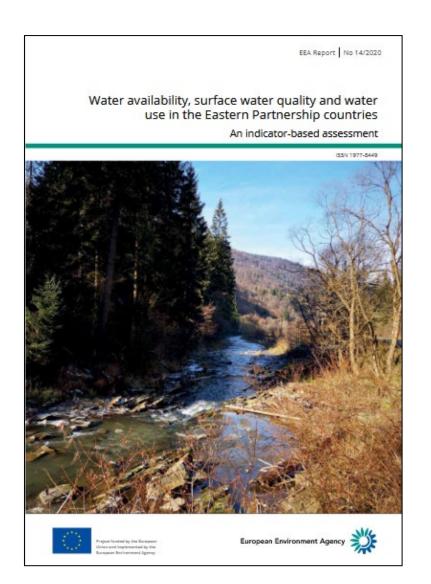


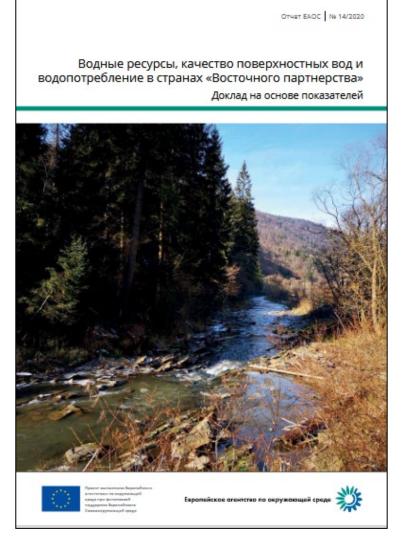


Water resources and water quality can be compared across the ENI East countries

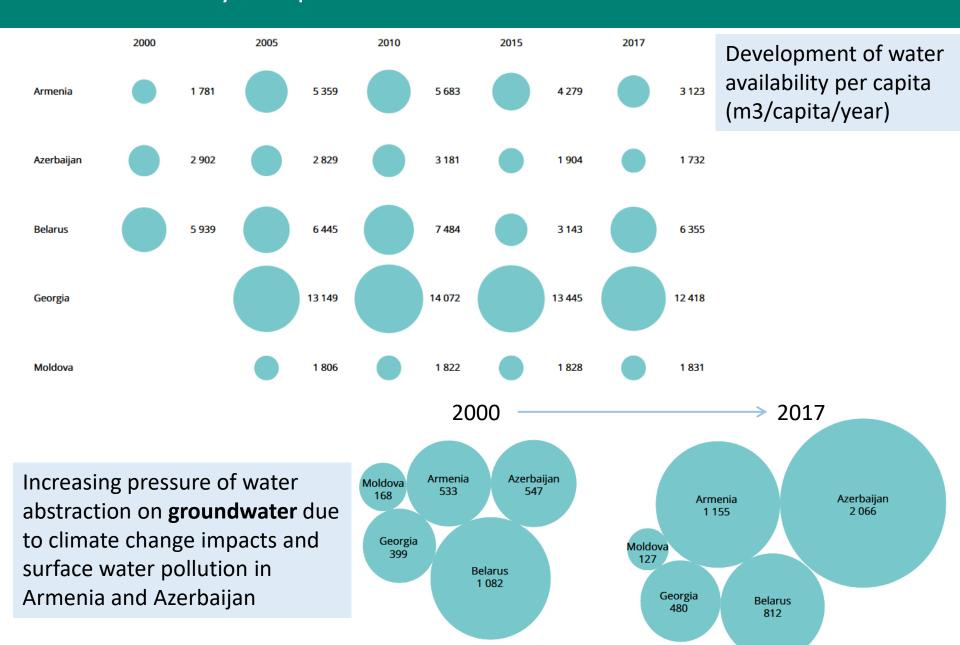
Water indicators	Armeni	Azerbaijan	Belarus	Georgia	Moldova	Ukraine
C1. Renewable freshwater resources						
C2. Freshwater abstraction						
C3. Total water use						
C4. Household water use per capita						
C5. Water supply industry and population connected to water-supply industry						
C10. BOD and concentration of ammonium in rivers						
C11. Nutrients in freshwater						

An indicator-based assessment



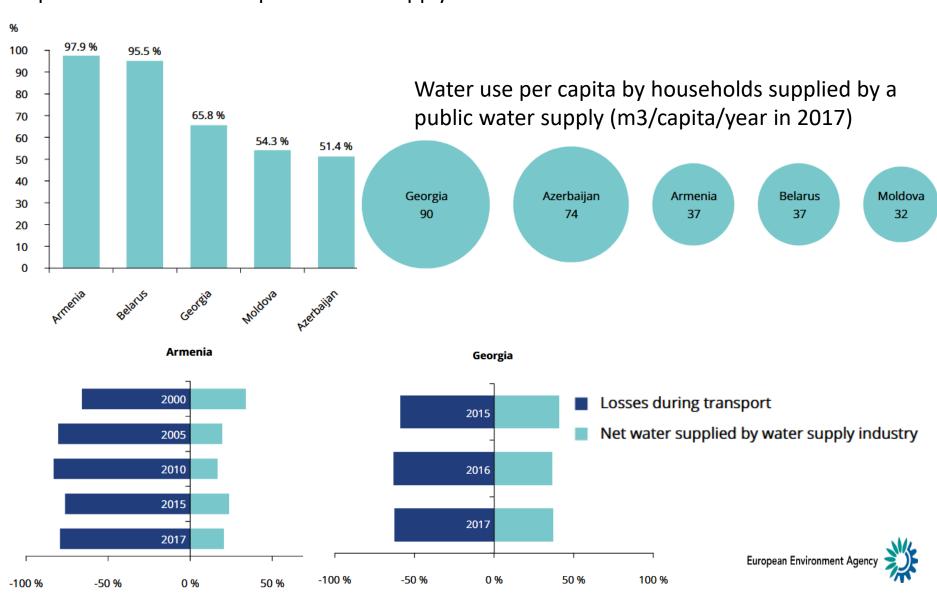


Water availability and pressure of water demand in ENI East countries

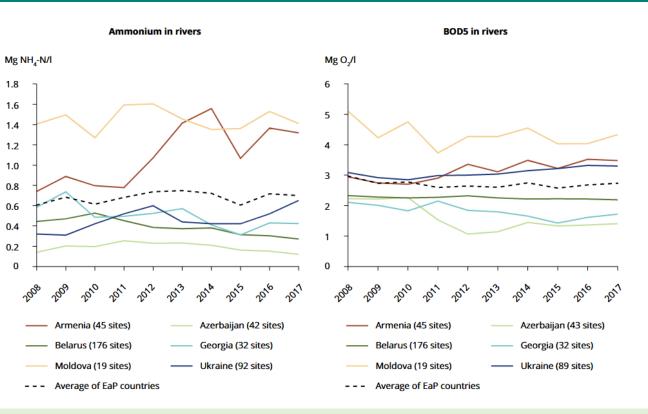


Public water supply and efficiency in the ENI East countries

Population connected to public water supply



Average annual ammonium concentration and BOD for river sites in the ENI East countries



In the region, one quarter of the river sites are found in the two highest classes for BOD5 and three quarters for ammonium concentration.



Key water issues in the ENI East countries

Water scarcity is an increasing problem in the region



• High water losses and leakages further execerbate it



• **Agriculture** is the main pressure on water resources in the region and water abstraction for agriculture presents increasing trend



 Water pollution due to discharge of untreated or insufficiently treated wastewater and diffuse pollution from agriculture into water bodies – which also causes overabstraction from groundwater in downstream areas.





ENI East – Outlook for sustainable water management

Cooperation

Cooperation in transboundary basins needs to be further improved and encouraged

- Establishment and functioning of river basin councils
- Stakeholders involvement
- Developing the funding mechanisms

Insufficient inter-institutional and inter-sectoral cooperation

Strategic planning and reforms in water management

Content

- Adaptation the content of monitoring programmes and data collection to modern IWRM, e.g. in line with the WFD
- Data integration (water and sectoral data) still remains challenging
- Digitalisation in monitoring programs present potentials for future

ENI East – Outlook for sustainable water management

Content (continued)

 Frequent institutional re-organisation and staff-turnover causes the loss of such institutional memory

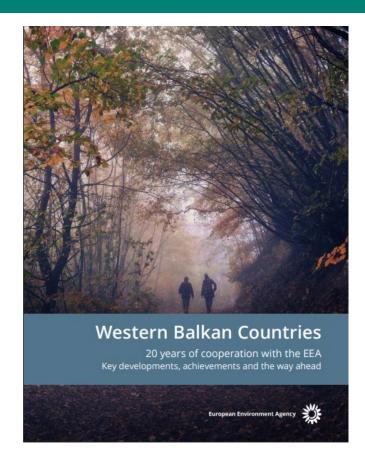
Infrastructure

- EEA has harmonised water quality data of Georgia and Armenia with WISE. Data harmonisation should continue for emissions and spatial data.
- Content management of Water Information system of Georgia and EcoPortal of Armenia should be improved
- Various water information systems have been developed by the EU and internationally funded projects. Efficiency and effectiveness of that systems need to be ensured



EEA cooperation with Western Balkans countries

- EEA has been cooperating with the Western Balkan partners since 1997
- From 2014 onwards, the EEA intensified its activities in the region with a focus on guiding the countries towards 'technical readiness' for EEA membership
- The six Western Balkan partners
 participate in the Eionet on a
 similar basis as the 32 EEA member
 countries, and are referred to as
 'EEA cooperating countries





EEA cooperation with Western Balkans countries

Strengthening the participation of the Western Balkans in the work of the European Environment Agency 2020-2021

Water component

- Capacity building in reporting data to WISE
- Developing water indicators as part of the SoE report and improve the expert capacity in undertaking ecosystem-based management
- **Pilot activities** tailored to **the national needs** in the implementation of Monitoring, Data, Information, Assessment and Knowledge (MDIAK-C) chain in water.



EEA-Eionet cooperation with Central Asia





Support the policy debate under the Environment for Europe process

EEA liase with UNEP and UNECE and for follow up the cooperation with Central Asia on this area.





Thanks for your attention!

www.eea.europa.eu

https://eni-seis.eionet.europa.eu/east

https://www.euneighbours.eu/en/policy/european-neighbourhood-instrument-eni

