



Data, indicators and assessments online – what was done and what is used

Kyiv, Ukraine 5 March 2019

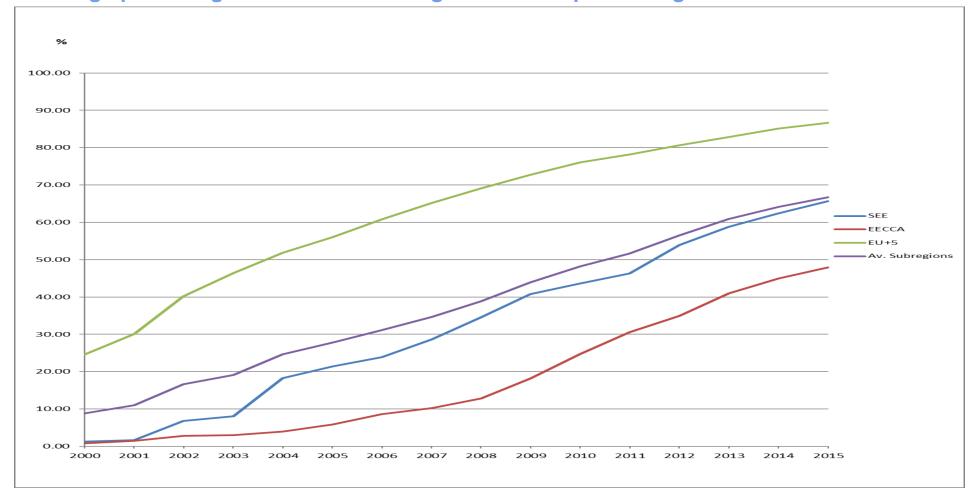






Access to ICTs (based on ITU statistics) -

Average percentage of individuals using the Internet per subregion for 2000-2015





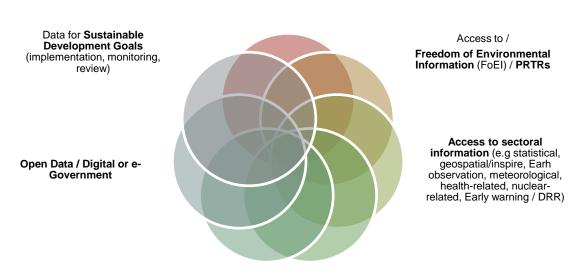
What's the average annual Is this moorland in good enough condition Would we get to effectively capture rain and prevent permission to route a flooding? powerline here? Should I Who owns this farm? What would the environmental access How well connected is impact of a moto-cross trail here be? here due it? Could it be the to fire Can I canoe here? What's the base for a rural water flow like? technology centre? How many businesses would be flooded if this river broke its banks? What crop is being grown in this Catholic Company field? Is this woodland ready to fell? What species bred and sold? are present? What's it What's the soil and worth? geological make-up of this land? What can I see standing Why unlock our data vaults? © Nick Teall, DEFRA, UK



Aarhus Convention and Protocol on PRTRs:potential for promoting integration at the national level



General Access to / Freedom of Information regime (Fol)



Open Research Data, Citizen
Science and Citizen
Observatories Initiatives

Re-use of Public Sector Information



INECE Shared Environmental Information System in the pan-European region



- SEIS aims to support further improvement of information system(s) and the exchange and use of environmental data and information.
- Focus on 49 ECE indicators
- 2011 Astana and 2016 Batumi EfE
 Ministerial Conferences –
 establishment of a regular process
 of environmental assessment and
 development of the SEIS across the
 region by 2021



2019 SEIS Mid-term Review Report

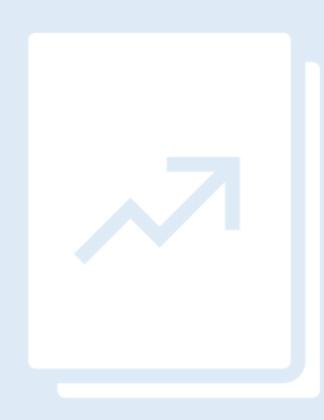
The **WGEMA** mid-term review report summarizes responses to a self-assessment questionnaire based on the **SEIS Assessment Framework**.

Limited to **seven data flows**, covering three (out of 49) ECE environmental indicators on air quality, water quality and protected areas.

34 (or 64%) out of the 53 ECE member States (not incl. Canada, Israel and the United States of America) submitted a self-assessment.

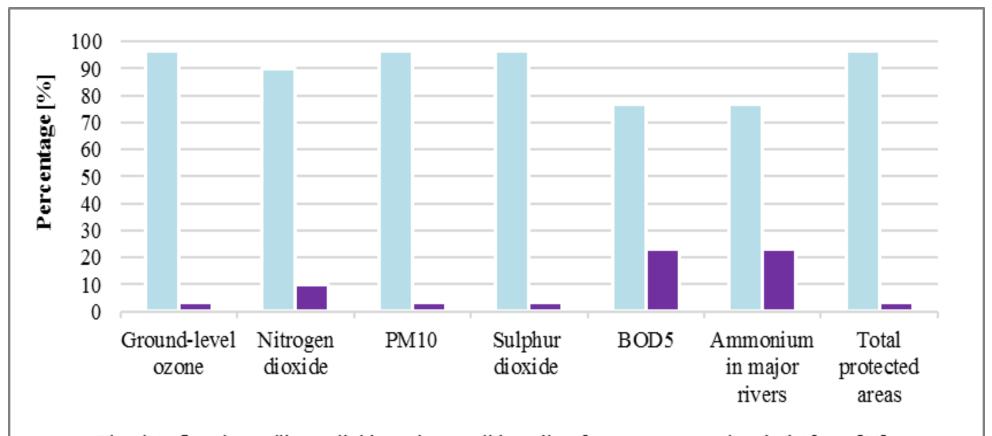
Clear upward trend in participation. The SEIS progress report in 2016 covered only 22 countries (41%).

The new review addresses the three SEIS pillars — content, infrastructure and cooperation — and the seven SEIS principles.





Ready online availability and accessibility of data flows on a national platform



- The data flow is readily available and accessible online for users on a national platform [%]
- The data flow is not readily available and accessible online for users on a national platform [%]



SEIS Mid-term Review Report: Key Findings

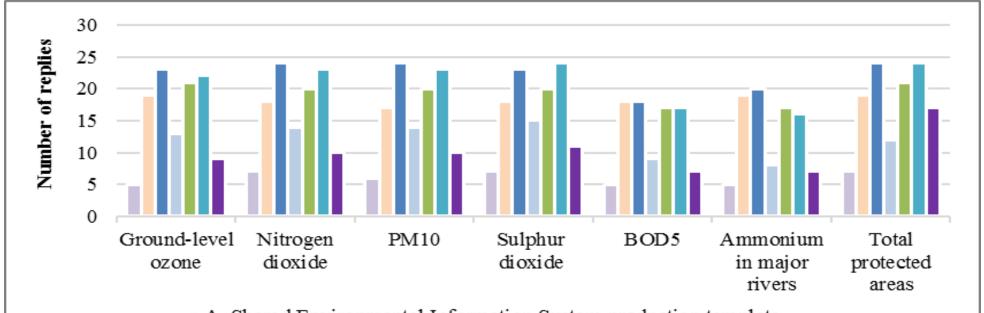
- Countries have continued to harmonize relevant data flows and improve the quality of environmental indicators since 2016.
- At the thematic level, the best performance was for air pollution and ozone depletion, followed by biodiversity and water.



- At the data flow level, the best performance was for air quality (SO₂, PM₁₀, O₃ and NO₂), followed in descending order by total protected areas, ammonium in major rivers and BOD₅ in major rivers.
- Most of the data flows are used for **different purposes** (e.g., environmental assessments) and converted into **different formats** (e.g., tables and maps).



Formats in which information on the data flows is presented



- A. Shared Environmental Information System production template
- B. European Environment Agency format for data flows
- C. Report(s), e.g., a state-of-the-environment report
- D. Additional information provided
- E. Metadata provided
- F. Visual presentation included (e.g., tables, maps, or graphs)
- G. Link to policy context and targets



Aarhus Convention and Protocol on PRTRs: improving data sharing, dissemination and re-use



- Interoperability and data sharing were mainly supported through e-Government, Open Government Data, INSPIRE and SEIS initiatives
- Experience in:
 - Integrating environmental information in the Open (Government) Data portals and establishing domestic interoperability framework - EU as well as Austria, France, Greece, Spain, UK...
 - Integrating information on a centralized specialized web portal with specific operational applications based on a geographic information system (GIS) – France, Serbia, Slovakia...
 - Establishing geospatial portals containing environmental information EU, its Member States, Switzerland
 - Developing portals/ web-aplication / registries providing information on environmental decision-making (EIA, SEA) –
 Czechia, France, Slovakia, Ukraine...
 - Using portals of environmental public authorities Ireland, Sweden
 - Establishing citizens information websites Ireland (www.citizeninformation.ie), United Kingdom (WDTK)
- Success lays in establishing comprehensive legal framework, common infrastructure and services (ensuring automated harvesting of data) and cooperation of public authorities Austria, France, Spain...
- Interoperability influenced by changes in technology (e.g., cloud computing, blockchain, browser systems, and etc.), information policy, language issues and multi-stakeholder involvement
- Updating public data policies (e.g. open by default for non-sensitive data, open to one open to all) and copyright licences to facilitate re-use (e.g. creative commons)
- Public participation and feedback in design, testing, maintenance and update
- Increasing number of open research data and citizen science and citizen engagement initiatives





Modernizing Environmental Information System(s): keys to success

- •Strategy scoping environmental information system(s) and linking it with e-Government, Open Government Data, SEIS, geospatial (INSPIRE) and SDGs monitoring initiatives
- Legislation update based on the adopted strategy, review of exceptions
- Institutional cooperation and review of copyright licences
- Redistribution of available resources
- Infrastructure update (cloud computing, internet of things, blockchain, artificial intelligence)
- Data readiness
- User (public) participation and feedback in portals design, testing, maintainance and improvement

Widening public access to environmental information contributes to implementing Sustainable Development Goals, their monitoring (indicators) and review





Aarhus Convention Timeline





2019 Update of EIT & PRTRs & PRTRs MoPs

2020 Aarhus and

PRTRs NIRs / Update
of EIT
Recommendations