

Streamlining environmental reporting

To promote and modernise eReporting with the latest IT solutions, the EEA is working to develop Reportnet 3.0. This modern reporting infrastructure will stepwise integrate data flows under the EU environmental legislation, take into account national capabilities and provide a platform that supports new types of data (e.g. Copernicus, citizen science) and data from an extended group of stakeholders. Reportnet 3.0 is designed to deliver the ambition and the strategic goals as set out by the Commission's Digital Strategy. It is the EEA's contribution to deliver on this long-term objective.

This project is a collaboration involving the EEA, Commission Services (DG ENV, DG CLIMA, JRC), European Topic Centres and EEA Member Countries.



Role of DG ENV and EEA-Eionet in the reporting process



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The path to future e-Reporting – Reportnet 3.0

Our approach to develop the modernised e-Reporting system for streamlining environmental reporting





Modernising e-Reporting

Reportnet 3.0 is envisioned as an e-Reporting platform with its main purpose being to simplify and streamline the data flow steps across all environmental domains. Reportnet 3.0 will act as a central hub through which all e-Reporting activities handled by the EEA with Eionet and other partners will be performed.

The system stepwise replaces the current Reportnet system and is foreseen as a one-stop-shop for all involved stakeholders. It will effectively address the issues faced by the reporters so far and employ modern approaches in software development (i.e. with regards to security, scalability, architecture, interoperability, etc.). Reportnet 3.0 will be designed to work seamlessly across organisations and supports existing legal obligations (e.g. INSPIRE) and standards to assure the reuse and interoperability of data.

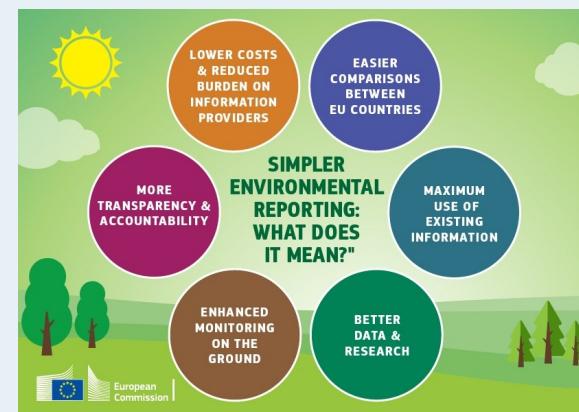
It will have a modular architecture using microservices and provide a solution to cover the entire data management life cycle.

The Reportnet 3.0 project is initiated in 2018 to be finalised at the end of 2020. The migration of the reported data will start during this time and continue together with further system development beyond the duration of this project.

Highlights of the new system

Based on the results of the scoping study, the main highlights of the proposed new platform include:

- **Low-to-zero code platform** purpose-built to maximise efficiency based on the existing skill set of the involved stakeholders.
- **Collaboration** during design and reporting, the platform will offer data sharing and communication tools to enable collaboration between stakeholders in various steps of the data flow.
- **Database-centric** from the ground up, natively supporting tabular structures aiming to simplify all steps of the process until the generation of the various data products.
- **Flexibility on data delivery methods** e.g. via user interface, file import, various web-services involving INSPIRE harvesting.
- **Interoperability** with other EU Reporting frameworks (e.g. INSPIRE) or international frameworks with strong EU involvement (e.g. SEIS).
- **User-friendly** and auto-generated web-forms.
- **Cross-domain** data integration & easy versioning of other reference data.
- **Visual schema design** with reusable validations and data visualisation possibilities offered at design time.
- **Agile data flow implementation process** allowing for quicker design, test and assessment cycles of new data flows or updates on existing ones.
- **Automated data collections** and streamlined generation of European datasets.



Better Data Management



Optimized data delivery



Enhanced quality control



Web services Integrated



Cost effective



Workflow driven



Reusable validations



Snapshots



Collaborative



Dashboards & visualisations

Improved User Experience



Modernised helpdesk



User-friendly



Advanced search



Better performance



Intuitive design



Notifications



Availability



Explanatory



Explanatory



Explanatory