INSPIRE CONFERENCE 2020 DUBROVNIK - CROATIA

Contribution ID: **137**   Type: **Workshop**

Pan-European datasets management, visualisation and dissemination

The European Environment Agency (EEA) is the EU Agency which main goal is to be a prime source of environmental knowledge at European level, providing timely, targeted, relevant and reliable information to policy makers and the public. Throughout its first 25 years of existence, and in collaboration with its partnership network Eionet, composed of 38 member and cooperating countries, the EEA is bringing successfully together environmental information from European countries, delivering nationally validated, high quality pan-European data products for a wide variety of stakeholders, building on established environmental reporting data flows. The EEA participates in several steps of the reporting data flow cycle, mostly in design, collection, acquisition, processing and dissemination of final products.

The workshop will present experiences and advances in data management practices in creating the pan-European spatial datasets from the design to the monitoring of the reporting data flow, harmonisation and alignment with the INSPIRE Directive, effective data transformation and smart use of infrastructures.

Jose Rubio (EEA): Reporting data flow management and data production chain

The presentation will provide a general overview of the different steps in this environmental data production chain, describing with real-life examples the preparation and submission of the national data, its quality control (QA/QC) and post-processing, and the final creation of pan-European datasets, metadata, web services and other online applications. The intervention will conclude with some considerations about the evolution of EEA infrastructure, in particular the advent of the next generation of the EEA reporting platform Reportnet (Reportnet 3.0), as a game-changer in the current EEA data management framework.

Stefan Jensen (EEA): INSPIRE priority list of datasets for e-Reporting

The scope of INSPIRE covers a broad set of environment related data. As part of a stepwise implementation with a focus on pan-European use cases, a list of datasets related to environmental reporting obligations has been identified. The list also reflects the data gaps identified during the evaluation of the state-of-implementation of the INSPIRE Directive and the review of environmental reporting obligations (Reporting Fitness Check). The list has been jointly developed with the Member States and it therefore serves as guidance for which datasets should be made accessible through the European Spatial Data Infrastructure with priority and at least "as-is". The presentation provides an overview by explaining the various subtasks of the activity, shows progress, discusses open items and shades a light on future activities.

Fernanda Nery (EEA): Creating INSPIRE-compliant GML datasets for the Water Framework Directive (WFD)

The WFD reference spatial datasets include the delineation of the relevant Areas of Management (river basin districts, surface water bodies and groundwater bodies) and the location of Environmental Monitoring Facilities (monitoring sites). The WFD reference spatial data models are aligned and mapped to the INSPIRE spatial objects in the Areas of Management (AM) and the Environmental Monitoring Facilities (EF) themes. Therefore, it is straightforward for Member States to reuse the adequate subset of reported data for publication as INSPIRE-compliant priority datasets. The presentation will illustrate:

• The transformation and encoding of the WFD reference spatial datasets into INSPIRE-compliant GML datasets;
• The use of a pan-European register of unique thematic identifiers to guarantee the uniqueness and traceability of the spatial reference objects.

Darja Lihteneger (EEA) and Stefania Morrone (EPSILON Italia srl): Environmental Noise Directive reporting mechanism and alignment with the INSPIRE Directive

The streamlining of environmental reporting provides opportunity to design a reporting mechanism that will integrate the Environmental Noise Directive (END) requirements with the requirements of the INSPIRE Directive and facilitate Member States reporting. The first part will present challenges in defining the END spatial

data requirements with regard to the scope of the INSPIRE spatial data themes, combining structural tabular and spatial data, and ensuring references between the END reporting data flows to achieve a common, harmonised reporting conceptual data model.

The second part will outline the approaches followed to leverage INSPIRE in the overall data modelling process of the new END reporting data model: development of INSPIRE–extended data models for those END data flows requiring spatial information, links to reference INSPIRE datasets, consistent re-use of simplified INSPIRE data structures following the 'INSPIRE Alternative encodings' proposals, and development of streamlined views of the END data models allowing focus on actual information requirements for the END reporting purpose.

Thorsten Reitz (wetransform GmbH): Efficient delivery processes for environmental reporting data in different encodings

The presentation will present approaches and tools to build robust and efficient delivery processes for environmental reporting data using streamlined INSPIRE data models and default and alternative encodings such as GeoPackage.

Sub-category

3.1 Environment

IJSDIR

No, I will not submit an article to IJSDIR

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Track Classification: 3: Applications for sustainable future track