



INSPIRE MIWP 2020 - 2024

Updated Action Fiches

12th MIG meeting – 26-27 November 2020

What is new?

- Favourable political and technological context for the evolution and sustainability of INSPIRE within the Green Deal Data space and beyond
- Action fiches for each of the 6 actions
 - Already shared with the MIG-T on the wiki
 - Fiches content
 - Proposed tasks (first draft)
 - Indicative timeline
 - Roles and responsibilities
 - Dependencies and Links

3 areas of work

1. A digital ecosystem for the environment and sustainability (objective 1)
 2. Towards a common implementation landing zone (objectives 2-4)
 3. GreenData4All (objective 5)
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- All areas of work will start in parallel
 - Preparatory activities already ongoing for aligning the work

6 core actions

- 1.1 Towards a digital ecosystem for the environment and sustainability
- 2.1 Need-driven data prioritisation
- 2.2 Roadmap for priority-driven implementation
- 2.3 Simplification of INSPIRE implementation
- 2.4 Central infrastructure components
- 3.1 GreenData4all initiative

1.1 Towards a digital ecosystem for the environment and sustainability

- **Issues**
 - Emerging requirements for common EU data spaces in general and the Green Deal data space in particular
 - The current architecture of INSPIRE is outdated and does not reflect the new realities (mainly related to the emergence of new data sources and new technologies)
 - INSPIRE is often seen as a monolithic infrastructure with still few links to the external world
 - Emerging technologies, data sources and approaches have to be included in INSPIRE to ensure that the infrastructure evolves into a self-sustainable data ecosystem, in line with the larger vision of the Green Deal data space

1.1 Towards a digital ecosystem for the environment and sustainability

Tasks

- Task 1. Vision for the technological evolution of INSPIRE within the context of the European Green Deal data space (**estimated deadline: April 2021**);
- Task 2. New reference architecture for the INSPIRE infrastructure as part of the Green Deal data space (**estimated deadline: April 2021**);
- Task 3. Experiment and summarise lessons from the use of modern technologies and standards through sandboxing (**estimated deadline: May 2023**);
- Task 4. Create and endorsement of a stack of ‘enabling’ good practices for data provision (based on e.g. OGC APIs, different encodings: GeoJSON, GeoPackage, VectorTiles) in collaboration with standardisation bodies, software vendors and open source projects (**estimated deadline: December 2024**);
- Task 5. Improve the discoverability of INSPIRE data through search engines and combine them with other sources, e.g. citizen data, private data, research data (**estimated deadline: June 2023**);
- Task 6. Develop and promote a common approach for licensing of datasets in accordance with existing licensing frameworks, e.g. Creative Commons. (**estimated deadline: May 2022**). Individual deadlines to be identified for each good practice. The time window for proposing good practices will be open until the end of the WP 2020 - 2024.

Team

- Lead: JRC; Contributors: MS (incl. temporary sub-groups and networks of experts, procurement)
- Solution providers, standardisation bodies, other actors in the Green Deal data space

WP2020-2024
Action 2.1.
Need-driven data prioritisation

Stefan Jensen

Scope of the activity

Prioritisation methodology and **selection of core INSPIRE data sets**,

driven by the **new political agenda** (e.g. Green Deal, EU Data Strategy ...),

new or **emerging legal frameworks** and (e.g. High Value Data sets under the Open data directive, EU common data spaces ...)

ongoing **prioritisation initiatives** (e.g. the Commission geospatial requirements paper and the activity on priority data for environmental reporting ...).

Integrates action 2016.5 on Priority list of data sets for eReporting

Orientation by the work of the EKC Task Force on Green Data (following slides)

Defining future EU needs: European Green Data Task Force

Purpose:

Effective management of environment and climate data supporting the European Green Deal

Governance:

Environment Knowledge Community (EKC) partnership: DG ENV, CLIMA, RTD, JRC, ESTAT, AGRI (depending on topics DEFIS, MARE, DEVCO, SANTE and ECHO)

DG ENV and EEA as co-chairs

Established in 2020 and continuing Task Forces activities on

Environmental data centres and

Interoperability of platforms and catalogues on ecosystem-based initiatives



European Green Data Task Force

Generic action areas:

- Governance and data policy check
 - Review general data governance
 - Identify data policy obstacles
 - Proposal for “green data” family governance and data policies
- Green data inventory
 - Review existing “green data” DG inventories
 - Scoping and recommendations for improvement of inventory
 - Implement recommendations
 - Contribute to better facilitation of data access and sharing
- Green data user needs and requirements (based on pilots prioritised by EKC)



Pilots/use cases:

- IACS data sharing (lead DG AGRI)
- Citizen science (lead JRC)
- SDG scoreboard (lead ESTAT)

Defining joint EU/Member State needs:

Purpose/issue:

Need to drive the further implementation by a real demand and tangible use cases (on all levels and in support of new political guidelines).

Current INSPIRE implementation is still very heterogeneous

Governance:

Team: ENV, EEA, ESTAT

Contributor: JRC, INSPIRE MIG (subgroup)

Proposal

Adapt the task list for the 2016.5 subgroup to cover agreed actions



Proposed future subgroup tasks

- **Task 1.** Prioritisation methodology and processes (estimated deadline: December 2021)
- **Task 2.** Document the **data priorities** ([*link to EGD TF work*](#))
- **Task 3.** Manage the list(s) of priority datasets including list of priority datasets for e-Reporting, core data sets, High Value Datasets, or others (annually reviewed, estimated deadline: December each year until 2024)
[*\(link to EGD TF work on data inventories\)*](#)
- **Task 4.** Monitor implementation and address identified issues. Initiate **pilot projects** ([*potential link to EGD TF*](#)) to remediate issues or demonstrate different uses of data, (annually reviewed, estimated deadline: November each year until 2024)
- **Task 5.** Process fast-track data requests (*ad hoc*)
- **Task 6.** Improve the INSPIRE Geoportal discoverability and visualisation of priority datasets and provide statistics (continuous task in line with the INSPIRE Geoportal development and evolution - see action 2.4) and the current 2016.5 work



2.2 Roadmap for priority-driven implementation

Issues

- Harmonisation is considered cumbersome.
- Broad data scope has lead to strongly deviating data offerings.
- Build on data priorities from Action 2.1 and levels of interoperability to define implementation compliance levels.
- Legal compliance has to be assured.

Team

- Lead: ENV
- Contributors: MIG, MIG-T, JRC, EEA, ESTAT, other EC Services

2.2 Roadmap for priority-driven implementation

Tasks

- Task 1: Identifying the flexibilities of the legal framework, building on previous simplification efforts.
- Task 2: Develop implementation maturity levels based on the level of interoperability, data priorities and identified legal flexibility (incl. legal validation).
- Task 3: Impact assessment of the proposal on existing and future implementation.
- Task 4: Pilot the proposed maturity levels on selected data sets.
- Task 5: Draft guidance (legal, political, technical) on application of maturity levels.

2.3 Simplification of INSPIRE implementation

Issues

- The implementation of INSPIRE is perceived as too complex by many stakeholders
- Existing software tools do not adequately reflect the implementation needs
- Evolution of INSPIRE is covered in Action 1.1

Tasks

- Task 1. Develop a procedure and prioritisation for updates of INSPIRE artefacts, e.g. Technical Guidelines, UML models, XML schemas (**estimated deadline: March 2021**);
- Task 2. Review and amendment of selected artefacts. Priority would be given to TGs that have the highest impact on the implementation (**estimated deadline: December 2024**);
- Task 3. A simplification approach for data-service linking and update the existing metadata TG accordingly (**estimated deadline: December 2021**).

Team

- Led by the JRC, contribution by the MIG-T, European Commission DGs and the EEA. Temporary sub-groups and networks of experts and procurements for ad-hoc tasks

2.4 Central INSPIRE infrastructure components

- **Issues**

- Central INSPIRE components are essential for the implementation and evolution of the INSPIRE infrastructure and their long-term sustainability should be ensured, also considering the emerging political priorities (Green Deal data space and GreenData4all in particular)

- **Tasks**

- Task 1. Operate and evolve the central infrastructure components (**estimated deadline: December 2024**);
- Task 2. Perform annual INSPIRE monitoring and reporting based on the INSPIRE geoportal and validator (**estimated deadline: December 2024**);
- Task 3. Simplify and align the approaches for different solutions, incl. cloud hosting, common approach for helpdesks (**estimated deadline: December 2021**);
- Task 4. Establish governance approaches for central INSPIRE components and ensure interaction with stakeholders for the long-term sustainability of the components (**estimated deadline: March 2022**);
- Task 5. Migrate central components to mainstream ICT tools and cloud hosting (**estimated deadline: October 2022**).

- **Team**

- Led by the JRC, contribution by the MIG-T, European Commission DGs and the EEA. Temporary sub-groups and networks of experts and procurements for ad-hoc tasks

3.1 GreenData4all initiative

- **Issues**
 - Mandatory evaluation by the Commission of the INSPIRE Directive by 1 January 2022
 - Modernisation and alignment with new or emerging legislation of the INSPIRE Directive (2007/2/EC) and the public access to environmental information Directive (2003/4/EC) is needed (EU Data Strategy – GreenData4All initiative)
 - Environmental geospatial and climate-related data are a prerequisite to better understand issues and trends on how our planet and its climate are changing and how society and economy are impacted. The timely availability of data can help strengthen evidence-based analytical capability for policy-making and implementation and is crucial to deliver on the Green Deal objectives

3.1 GreenData4all initiative

Tasks

- MIG to provide input to the process and discuss deliverables.

Team

- Lead: ENV
- Contributors: All stakeholders according to the foreseen consultation strategy (public consultation, targeted consultations)

Thank you



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