

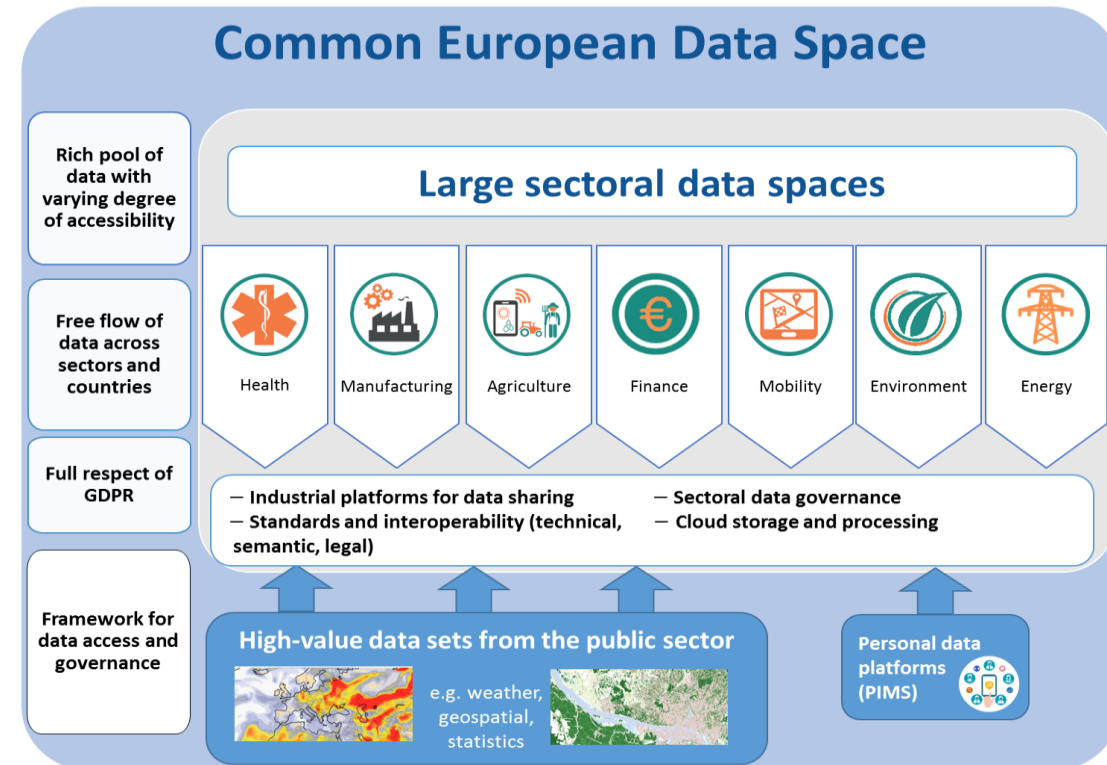
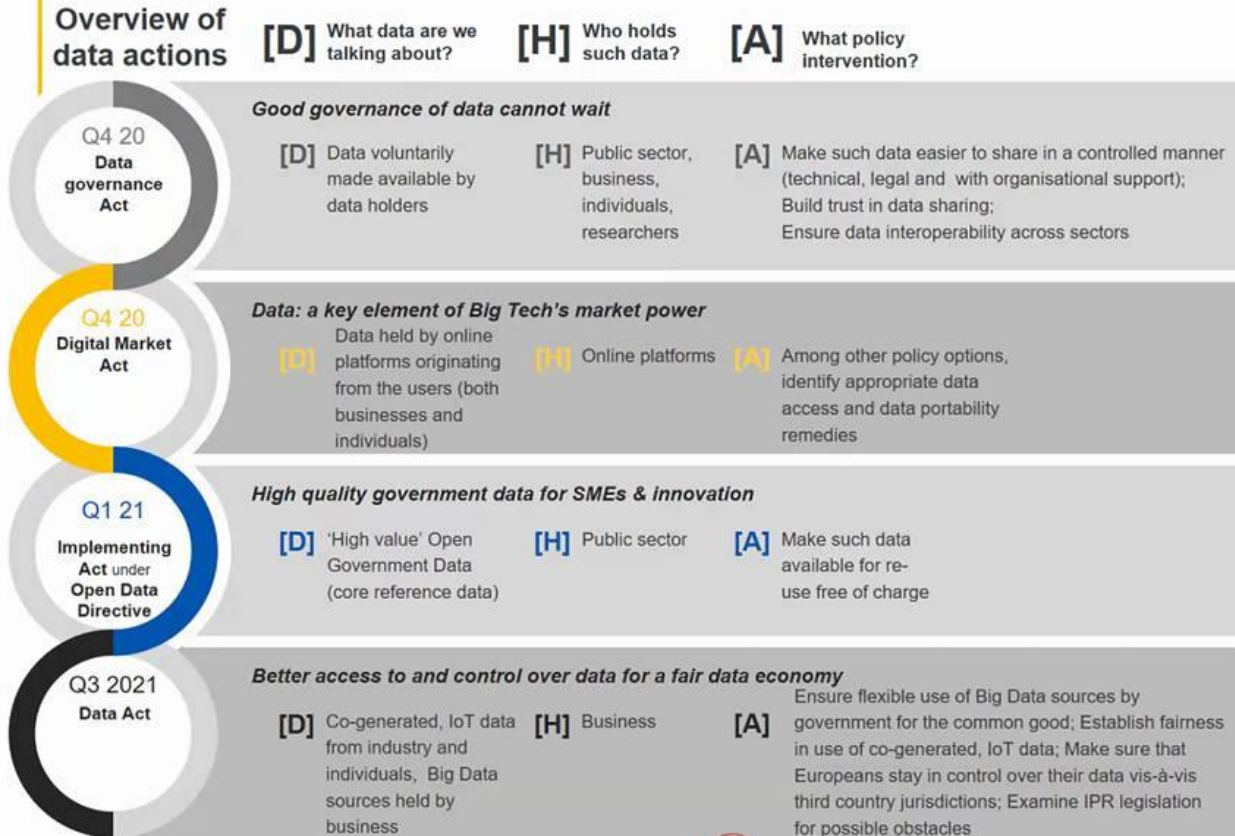


# INSPIRE MIWP 2020 - 2024

*64<sup>th</sup> MIG-T meeting – 21-22 January 2020*

# Context

- Favourable political and technological context for the evolution and sustainability of INSPIRE within the Green Deal Data space and beyond
- Good timing for implementing the Work Programme



# Objectives of this session

- Updates on the MIWP 2020 – 2024
- Discuss the core actions and the envisaged way forward, in particular:
  - Ongoing activities
  - Roles and responsibilities

# 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. Envisioned approach

- **Issues**

- 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- The current architecture of INSPIRE is outdated and does not reflect the new realities (mainly related to the emergence of new data sources and new technologies)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. Envisioned approach

## Principles

- Approach based on ecosystems thinking
- Streamline, simplify and modernise data sharing
- Meet legal obligations and create value
- Leverage on mainstream ICT
- Shared Work programme
  - Co-creation of concrete activities based on demand and willingness to contribute

## 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

# 1.1 Towards a digital ecosystem for the environment and sustainability. Tasks

- Task 1. Vision for the **technological evolution of INSPIRE**
  - JRC Science for Policy report 'INSPIRE - The Public Sector Contribution to the European Green Deal Data Space' (draft)
  - Workshop for presenting the vision (details tbc)
  - JRC Technical report ASTEROID findings 'Establishment of Sustainable Data Ecosystems' (final draft available)
- Task 2. Draft reference architecture for the INSPIRE infrastructure as part of the Green Deal data space
  - Workshop on the possible role of GAIA-X for INSPIRE (to be organised in Q1 of 2021)
  - Destination Earth architecture
- Task 3. Experiment and summarise lessons from the use of modern technologies and standards through sandboxing (**estimated deadline: May 2023**);
  - JRC Pool of experts on data-driven innovation
    - Governance of data / Governance with data
    - Some of the topics
      - Event-driven architectures / data streaming
      - Cloud portability and containerisation
      - Combining OSM and INSPIRE

# 1.1 Towards a digital ecosystem for the environment and sustainability. Tasks

- Task 4. Create and endorsement of a stack of ‘enabling’ good practices for data provision (estimated deadline December 2024);
  - Geopackage, GeoJSON, pbf, vector tiles, etc.
  - Based on demand and willingness to contribute, following the defined step-wise approach
- 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).



## 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

### 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

### 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).

## 2.3 Simplification of INSPIRE implementation

### Sub-groups

- Call for interest for a new sub-group to support the action on change management of INSPIRE artefacts (UML models, XSD application schemas, TG)
- Call for interest for a new sub-group to support simplification approach for data-service linking and update the existing metadata TG accordingly

## 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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