

Annex 1: Core actions under the MIWP linked to the main working areas

This annex features the core MIWP 2020-2024 actions, endorsed by the INSPIRE Maintenance and Implementation expert Group, under their respective working areas.

Area of work 1: A digital ecosystem for the environment and sustainability

Action 1.1: Towards a digital ecosystem for the environment and sustainability

Title	Towards a digital ecosystem for the environment and sustainability			
ID	2020.x			
Status	<input checked="" type="checkbox"/> Proposed	<input type="checkbox"/> Endorsed	<input type="checkbox"/> In Progress	<input type="checkbox"/> Completed
Issue	<p>The current architecture of INSPIRE is outdated and does not reflect to the desired extent the challenges and opportunities related to the emergence of new data sources and new technologies. In addition, INSPIRE is often seen as a monolithic infrastructure with few links to other existing infrastructures and initiatives. At the same time, the newly adopted European strategy for data (COM(2020) 66) provides an excellent opportunity for the technological evolution of INSPIRE within the broader context of the foreseen European Green Deal data space. In order to achieve that, the role and relationship of INSPIRE with respect to new data sources, other initiatives and the uptake of new technologies shall be defined in order to ensure that the infrastructure evolves to support a self-sustainable data ecosystem.</p>			
Proposed action	<p>The action will work on four interdependent strands of activities:</p> <ol style="list-style-type: none"> 1. A new vision for the technological evolution of INSPIRE will be developed in order to integrate the infrastructure in the European Green Deal data space. 2. An updated reference architecture that translates the vision in concrete technical approaches will be developed through the extensive use of an agile approach and sandboxing. 3. A stack of standards (incl. de-facto standards) and solutions that comply with the legal provisions will be prepared and endorsed by the MIG through the means of non-legally binding INSPIRE good practices. 4. The action will contribute to the improvement of the discoverability of data through search engines and the proposal of a common approach to licensing that follows a well-established framework (e.g. as defined by the Creative Commons). 			
Links & dependencies	<ul style="list-style-type: none"> • Policy and legal developments on EU common data spaces in general. • Technical implementation examples and good practices from other domains. • Lessons learned will feed into the review and possible revision of the INSPIRE legal framework under the “Green Data4All” initiative (see Action 3.1). • Link with central INSPIRE components and Technical Guidelines (see Action 2.4) 			

Title	Towards a digital ecosystem for the environment and sustainability
Organisational set-up	The action is led by the JRC, with contribution by the MIG, MIG-T, European Commission DGs and the EEA. Temporary sub-groups and networks of experts will be established, and where necessary, procurements for ad-hoc tasks will be prepared. The action will engage with a broad spectrum of relevant stakeholders such as data reusers, standardisation bodies, solution and data providers, software developers and open source communities.
Lead	Lead: JRC Contributors: MS, solution providers, standardisation bodies, other actors in the Green Deal data space.
Scope	Modernising the existing approaches for sharing data in INSPIRE in accordance with emerging technological trends and the political agenda defined by the European Strategy for Data. Fixing bugs and maintaining existing artefacts (e.g. application schemas, UML models) is out of the scope of the action. They will be dealt with in Action 2.3.
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) ¹ ; 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).
Outcomes	Modernised technical framework of INSPIRE that is well integrated into the European Green Deal data space and ensures the evolution of INSPIRE into a digital ecosystem for the environment and sustainability.
Proposed Impact	<input type="checkbox"/> Technical Adjustment / Bug Fixing <input checked="" type="checkbox"/> Technical Improvement / Development <input checked="" type="checkbox"/> Practical Support for Implementing Process

¹ 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.

Title	Towards a digital ecosystem for the environment and sustainability	
	<input checked="" type="checkbox"/> Cost Reducing Effect for Implementing Process <input checked="" type="checkbox"/> Direct Support on Policy-Making / - Activities	
Timeline	Date of Kick-off: October 2020	
	Proposed Date of Completion: December 2024	
Required human resources and expertise	<ul style="list-style-type: none"> • MIG and MIG-T contribution; • Establishment of expert groups on an ad-hoc basis; • Engagement of relevant communities (open source projects, standardisation bodies, etc.). 	
Required financial resources and possible funding	<ul style="list-style-type: none"> • Funding foreseen by DG ENV through the forthcoming Administrative Arrangement with the JRC. • In kind contribution of the MIG and MIG-T. 	
Risk factors	Overall risk level of the action	Risk factors to be considered
	<input type="checkbox"/> High <input checked="" type="checkbox"/> Medium <input type="checkbox"/> Low	<input type="checkbox"/> Missing Resources <input checked="" type="checkbox"/> High Complexity <input type="checkbox"/> Interdependencies with other Actions Others: <input checked="" type="checkbox"/> Low level of engagement of the relevant stakeholders <input checked="" type="checkbox"/> Inter-dependencies with horizontal guidelines and rules developed for the European data spaces and with specific guidelines and rules for the Green Deal data space.