



This document provides information on the software used to calculate the indicators for the 2022 INSPIRE Monitoring and Reporting.

The indicators DSi1.1, DSi1.2, DSi1.3, DSi1.4, DSi1.5, DSi2, DSi2.1, DSi2.2, DSi2.3, NSi2, NSi2.1, NSi2.2, NSi4, NSi4.1, NSi4.2, NSi4.3, NSi4.4 were calculated using the [new INSPIRE Geoportal](#), while the indicators MDi1.1, MDi1.2 were calculated using the [INSPIRE Reference Validator](#).

The INSPIRE Geoportal used to calculate the abovementioned indicators is based on the open source software [GeoNetwork v.4.2.0](#). The following INSPIRE Good Practices were not supported by the Geoportal for the INSPIRE Monitoring and Reporting: (i) [OGC API - Features as an INSPIRE download service](#); (ii) [OGC SensorThings API as an INSPIRE download service](#); (iii) the recent [data-service linking simplification approach](#).

The following issues were found in GeoNetwork, which may lead to a decrease in the number of datasets identified as viewable and downloadable:

- the procedure used to check the matching of dataset identifiers (comparing those obtained from the service capabilities with those in the dataset metadata) is more restrictive compared to the one in the previous version of the INSPIRE Geoportal;
- there are limitations on the number of items and sub-items processed for Atom feeds (Atom sections and Atom entries);
- there are limitations on the number of links processed for Atom feeds.

For two countries (CZ and DE), these issues led to values of the indicators NSi2, NSi2.1, NSi2.2 all lower than the values of the same indicators calculated using the previous version of the INSPIRE Geoportal (resulting from a harvest executed during the same Monitoring and Reporting time frame). Thus, for these two countries the values of NSi2, NSi2.1, NSi2.2 were calculated using the previous version of the INSPIRE Geoportal.

In agreement with the [release plan](#), the version of the INSPIRE Reference Validator used to calculate the abovementioned indicators is v.2022.3, released on 2022-09-21 (see the release notes [here](#)). The INSPIRE Good Practice on the [data-service linking simplification approach](#) was not supported by the Reference Validator for the INSPIRE Monitoring and Reporting. In addition, the INSPIRE Reference Validator included a potential bug, whose result is a sometimes non-stable test result on the [Coupled Resource test on TG Requirement 3.6](#), when testing service metadata. The potential bug has an extremely low chance of occurrence and is described [here](#).