



Good Practice on GeoPackage encoding of INSPIRE datasets: status update

JRC INSPIRE Team

71st MIG-T meeting – October 7, 2022

INSPIRE Good Practice candidate

- 69th MIG-T (2022-04-01) endorsed the GeoPackage encoding as an **INSPIRE Good Practice candidate**.
- GitHub repository:
<https://github.com/INSPIRE-MIF/gp-geopackage-encodings>
- Initiation fiche:
[https://github.com/INSPIRE-MIF/gp-geopackage-encodings/blob/main/spec/GeoPackage Good Practice initiation fiche.md](https://github.com/INSPIRE-MIF/gp-geopackage-encodings/blob/main/spec/GeoPackage%20Good%20Practice%20initiation%20fiche.md)

Status update

A number of GeoPackage implementations for specific data themes/use cases are already available:

<https://github.com/INSPIRE-MIF/gp-geopackage-encodings/blob/main/examples/overview.md>

Country	Theme	Comment
DK	Addresses	The Danish Agency for Data Supply has published a first draft of a GeoPackage file with all Danish addresses (11 GB). See the metadata at https://geodata-info.dk/srv/eng/catalog.search#/metadata/50b921ea-935e-d605-2287-4ee364046795 , and see some background information in [the (updated) presentation from the 62nd MIG-T meeting](https://webgate.ec.europa.eu/fpfis/wikis/display/InspireMIG/62nd+MIG-T+meeting+2020-07-02?preview=/527439698/580880283/20201012%20MIG-T%20GeoPackage%20-%20updated.pptx). See also #5
FI	topographic themes	Finnish topographic database is a geopackage, which consists of 120+ feature types (database layers). The size of geopackage is 73 GB (zipped 26 GB). All geometry columns are spatially indexed. Finnish topographic database is downloadable here: https://tiedostopalvelu.maanmittauslaitos.fi/tp/kartta?lang=en . See also #7
FI	topographic themes	NLSFI has implemented experimental prototype serving topographic database content as Geopackage using OGC API Features. An example: http://xxxxx/mtkgml/collections/rakennus/**items?f=gpkg&limit=1000**&crs=http://www.opengis.net/def/crs/EPSSG/0/3067 . Output: items.gpkg (attached): > [items.zip](https://github.com/INSPIRE-MIF/gp-geopackage-encodings/files/5499679/items.zip). See also #8
EEA	Transport networks (roads, railways, airports), Area management, Human Health	The new Environmental Noise Directive (END) reporting mechanism includes alignment between the END reporting obligations and INSPIRE data specifications (INSPIRE Directive). The selected format for spatial data exchange is GeoPackage. In the scope of the END reporting, we developed encoding rules for GeoPackage format based on the previous work on INSPIRE alternative encodings and simplification. This would allow a transformation between GeoPackage and GML (INSPIRE) formats. The predesigned GeoPackage templates for the END reporting have been developed to facilitate the reporting data flows in Reportnet 3.0, data transformation and creation of GeoPackage files. More information is published at https://www.eionet.europa.eu/reportnet/docs/noise , including GeoPackage templates and data samples (mostly simulated data based on previously reported noise data) in GeoPackage format. END GeoPackage encoding guidelines: https://www.eionet.europa.eu/reportnet/docs/noise/guidelines/geopackage-encoding-rule-end.pdf GeoPackage templates: https://www.eionet.europa.eu/reportnet/docs/noise/templates
IT	Geology	ISPRA has produced Italian Geological Map 100k as Geopackage.

Outreach webinar: save the date!

INSPIRE Good Practice – GeoPackage and implementation practice Webinar

Date: Thursday, October 27, 2022 - 13:30 to 15:30



Online **INSPIRE Good Practice Webinar** on [GeoPackage](#) and implementation practice.

For more details, overview of activities and the draft agenda click below:

[Webinar Details](#)

<https://inspire.ec.europa.eu/events/inspire-good-practice-geopackage-and-implementation-practice-webinar>

A sneak preview of the webinar contents

- Environmental Noise Directive: examples of reported data and feedback from National implementer
- Italian Geological Map 100K example: GML vs GPKG encoding, feedback from ISPRA (Italian National Institute for Environmental Protection and Research)
- GO-PEG project example: Italian and Austrian subsurface data (GE extended data model) shared in Geopackage format using OGC API Features- feedback from ISPRA

A sneak preview

- Addresses example from Denmark, where the Danish Agency for Data Supply has published a first draft of a GeoPackage file with all Danish addresses
- Examples of GPKG datasets usability in GIS environment

Thank you!



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