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Automated geoservice generation by using a Table Joining Service on SDMX tables and INSPIRE grids

A Table Joining Service (TJS) is an online service that joins geographical data to tabular data with geoservices as output.
Within the GEOSTAT 3 project, the Dutch Cadastre and Statistics Netherlands have recently developed a TJS for SDMX tables and INSPIRE grids.
The aim is to show a best practice of the use of the implementation guide for the Global Statistical Geospatial Framework (GSGF), as developed in GEOSTAT 3.

The developed TJS follows crucial interoperability principles as stated in the GSGF like:

- using standards like INSPIRE data models, OGC and SDMX,
- storing data only once and leaving data at its source,
- using common geographies: SU-grid,
- publishing machine to machine readable data.

With this TJS, updating of geoservices based on statistics becomes much easier.

The SDMX tables are based on the INSPIRE Population Distribution data model. This means a SDMX DSD file had to be developed accordingly, which has been done by Eurostat.

The GRID service is based on the INSPIRE Statistical Units grid data model. It has been created for the participating GEOSTAT 3 countries and is hosted at the Dutch hosting organisation PDOK.

The first version of the TJS has proven to work for the Dutch situation. We hope to be able to show it working for the other countries too.

In the future Statistics Netherlands will expand the functionality of the TJS to other statistical units and table formats, like CSV and Odata.