

Cleaning up the mess - Consolidation of a multi-temporal data management environment for geocoding and aggregation of unit-record data

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Abstract

Statistics Sweden is currently finalising a Eurostat funded project aiming to establish a consolidated multi-temporal data management environment for geocoding and aggregation of unit-record data, to enable fully automated production of geospatial statistics and geospatially enabled statistical micro data in longer time-series.

The launch of the project is a response to a growing number of user requests for data in long time-series. Statistics Sweden has a vast, yet severely heterogenous, legacy of geospatial reference data spanning from the early 1980 to present date, that can be used in combination with register information to produce fine-grained population metrics over several decades. However, the lack of a consistent data structure across time and space has so far been an obstacle for efficient production of geospatially enabled data in time-series and to safeguard the quality in these data (e.g. gridded population data from the 1990s).

The project comprises two main tasks:

- Systematising, remastering and harmonising all point-based reference data acquired and stored by Statistics Sweden over the years (from the 1980s until today).
- Reconstructing, remastering and publishing data on historical administrative geographies (1952 until today)

The project provides a concrete best practice example on GSGF implementation. It runs through all the five principles of the framework, and in addition, adds a temporal angle to the framework. The presentation will briefly introduce the work conducted within the project and how it relates to the requirements of the GSGF.