



Spatial statistics on Web

A joint project between the NSI and the NMA to improve usability of spatial statistics

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Statistics Finland published datasets via the Finnish National Geoportal for the first time in 2013. The geoportal provides spatial data discovery and viewing services, for example. The viewing services are based on standard Web Map Service interfaces (WMS). In addition, the geoportal enables standard Web Feature Services (WFS) and browsing of features in an integrated view where data are visualised as maps and tables of attributes. Today Statistics Finland provides more than 60 WMS and WFS datasets for browsing and integrating on the Finnish National Geoportal together with about 700 other national geospatial datasets (<http://www.paikkatietoikkuna.fi/web/en>).

Spatial Statistics on Web is a joint project by Statistics Finland and the National Land Survey of Finland to improve the national geoportal services from the viewpoint of statistical data users. The project follows Inspire directive obligations and implements an open source web application (Oskari) to make spatial analysis tools tailored to statistical data.

The Spatial Statistics on Web project focuses on developing tools for analysing grid-based data, but most of the developed analysis methods can be used for other kinds of spatial data as well. The application including the user guide is made in three languages: Finnish, Swedish and English.

The presentation will discuss the cooperation of the national statistical institute and the national mapping agency in the project, how the application is developed with user cases and how the statistical data are served and integrated to the spatial data infrastructure of Finland. The demo will illustrate the functionalities of the spatial analysis tools developed so far and how these tools are implemented as a part of the national geoportal.

The project received a grant from Eurostat and is running until the end of 2015.

Key words: spatial statistics, spatial analysis, grid-based data, open source application