Integration of statistical and geospatial information

Statistics Explained

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- Latvia: merging statistics and geospatial information in Member States
- The Netherlands: impact analysis for a table joining service
- Austria: merging statistics and geospatial information in Member States – grid-based indicators of accessibility of public utility infrastructure
- Poland: development of guidelines for publishing statistical data as linked open data
- Slovenia: merging statistics and geospatial information in Member States
- Finland: statistics on commuting – merging big data and official statistics

2016 projects

- Greece: development of an application to make geolocation enabled e-questionnaires available to mobile devices of census enumerators
- Italy: a reusable WebGIS application and a geospatial database schema for EU country comparisons
- The Netherlands: paving of public and private domains in the Netherlands; analyses of spatial and temporal patterns during the last decades
- Slovakia: implementation of a GIS solution
- Finland: spatial statistics on Web2. Further development of the Oskari application and the Finnish national geoportal Paikkatietoikkuna from the viewpoint of statistical services

2017 projects

- Denmark: use of sub-regional spatial information in Statistics Denmark
- Estonia: development of unified indicator for local decision-making
- Croatia: improve the integration of geospatial and statistical information to maximise the utility of data collected for statistical purposes
- The Netherlands: monitoring spatial sustainable development: semi-automated analysis of satellite and aerial images for energy transition and sustainability indicators
- Austria: LEARN4SDGis –machine learning for sample data geographic information systems
- Poland: defining new areas for statistics along with analysis of administrative units' boundary changes' impact on published indicators
- Finland: integration of geographies and areal classifications as linked open data (IGALOD)
- Norway: GEOSTAT house and health project

2018 projects

- Denmark: optimising, opening and visualising geospatial data with Danish sustainable development goals
- Cyprus: using geographic information in the 2021 population and housing census
- Poland: statistical confidentiality strategy for demographic data
- Finland: predict crop yields from a sequence of remotely sensed multispectral images
- Sweden: delimiting activities zones for Sweden
- Iceland: higher resolution Icelandic statistical geography standard for register-based census statistics
- Norway: pilots for land use/land cover change and crop identification tested on a local and regional level, as well as the use of new statistics for planning and analysis

2019 projects

- No grants were issued in 2019. Attention was focused during this period on an assessment of the grants issued between 2012 and 2015 and their outcomes.

2020 projects

- Bulgaria: establishing access to geospatial data through linking geocoded and statistical data
- Germany: integration of geospatial information and statistics – German grid cell database
- Hungary: integration of geospatial information and statistics
- Malta: Integration of geospatial information and statistics – implementation of a 1 km x 1 km grid
- The Netherlands: DeepGeoStat; 2020 project
- Austria: Earth observation (EO) for land cover statistics

- Slovenia: establishment of an Earth observation data processing system for the monitoring of agricultural land (permanent grassland and soil moisture)
- Finland: GSDIG – geospatial statistical data integration service
- Sweden: road map for improved geospatial quality in the Swedish business register
- Norway: integration of geospatial information and statistics

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ONLINE PUBLICATION

The association of statistics and geography has the potential to generate information far beyond the simple representation of data on a map. Linking numerical and geo-referenced statistics in spatial analysis may help reveal relationships and phenomena which are difficult to discover by more traditional analyses of statistical databases.

Integration of statistical and geospatial information – experiences and observations from national statistical authorities presents details of projects enacted with grants provided during the first nine years of this initiative, showcasing the broad range of applications that may be developed using geospatial information. As well as being available here online, the content is contained in two PDF publications:

- the first for the project years 2012–2015 and
- the second for the project years 2016–2020 .