GEOSTATISTICS

Integration statistics and spatial data as the basis for product modernisation

Reference geodetic maps + Statistical data + Information technologies = Computer visualisation of statistical spatial databases

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High-level Seminar on Process-oriented Approach to Statistical Production, Seoul, 19-21 April 2017
Five principles of the Global Statistical Geospatial Framework GSGF

High-level, generic framework that consists of five principles that are considered essential for geocoding and integrating geospatial and statistical information:

1. Use of fundamental geospatial infrastructure and geocoding
2. Geocoded unit record data in a data management environment
3. Common geographies for dissemination of statistics
4. Interoperable data & metadata standards
5. Accessible & Usable

GSGF prepared by Australian Bureau of Statistics and approved by UN-GGIM on August 2016
“The 10 Level Model”

<table>
<thead>
<tr>
<th>Geodetic System</th>
<th>Layers (suitable for geocoding)</th>
<th>Statistical System</th>
</tr>
</thead>
<tbody>
<tr>
<td>+</td>
<td>NUTS1 - Administrative level 1</td>
<td>+</td>
</tr>
<tr>
<td>+</td>
<td>NUTS2 - Administrative level 2</td>
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<tr>
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<tr>
<td>+</td>
<td>LAU2 - Administrative level 5</td>
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**Cadastral units**
- Cadastral parcels

**INDIVIDUAL UNITS**
- POLYGON
- GRID
- LINE
- POINT

**Statistical regions**
- Enumeration areas

*Personal proposition of Janusz Dygaszewicz, CSO Poland*
Co-hosted by Central Statistics Office Ireland and Ordnance Survey Ireland, the conference will be held in Dublin Castle from November 2-3 2017 and intends to showcase the current work in the integration of statistics and geography under the following categories:

• Open and Linked Data,
• Visualisation of official statistics,
• The United Nations Agendas for the Sustainable Development Goals (SDGs) and Global Geospatial Information Management (GGIM),
• INSPIRE,
• Big Data and the Environment,
• Census 2020 geography.
Workshop on Integrating Geospatial and Statistical Standards
(Stockholm, Sweden 6-8 November 2017)