

Geostat 3

intermediate results automated map generation

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Centraal Bureau
voor de Statistiek

Where is the map?

INSPIRE
Statistical Unit

INSPIRE
Population Distribution



Aim

Testing automated map generation using:

- SDMX table (Census 2021)
- 1 km² grid OGC WFS
- using Table Joining Services.

Results:

- What problems need to be tackled.
- European experience in automated map generation using open formats.

SDMX Table

- SDMX Data Structure Definition made available by Eurostat
- GEO code grid: Country prefix is added to SU 3.0.

NL_CRS3035RES1000mN3343000E3973000

No direct link to the unique GEO code in the map due to:

- Multiple entries for one statistic at one GEO code possible
- Cross boundary grids

Possible solution:

Post processing on aggregated European tables;
construct SU unique GEO code



Grid map WFS (1)

Web Feature Service will be launched.

- Using grid maps www.EFGS.info
- Added extra GEO code field (SU 3.0 code)
- Conversion to WFS using HALE to construct INSPIRE compliant GML.

Grid map WFS (2)

HUMBOLDT Alignment Editor 2.8.0 - Texel - C:\pieter\INSPIRE\Texelgrid.halez

File Transformation Edit Window Help

Schema Explorer

Source

type filter text

- ft uitQgisTexel ×231
 - boundedBy (0..1)
 - CNTR_CODE (0..1) ×134
 - DATA_SRC (0..1) ×134
 - description (0..1)
 - F_00_14 (0..1) ×134
 - F_15_64 (0..1) ×134
 - F_65_ (0..1) ×134
 - fid (0..1) ×231
 - geodb_oid (0..1) ×231
 - geometryProperty (0..1) ×231
 - gml_id (0..1) ×231
 - GRD_FIXID (0..1) ×231
 - GRD_FLOAID (0..1) ×231
 - GRD_NEWID (0..1) ×231
 - M_00_14 (0..1) ×134
 - M_15_64 (0..1) ×134
 - M_65_ (0..1) ×134
 - METHD_CL (0..1) ×134
 - name (0..1)
 - OBJECTID (0..1) ×231
 - Shape_Area (0..1) ×231
 - SHAPE_Leng (0..1) ×231
 - Shape_Length (0..1) ×231
 - TOT_F (0..1) ×134
 - TOT_M (0..1) ×134
 - TOT_P (0..1) ×134
 - YEAR_ (0..1) ×134

Target

type filter text

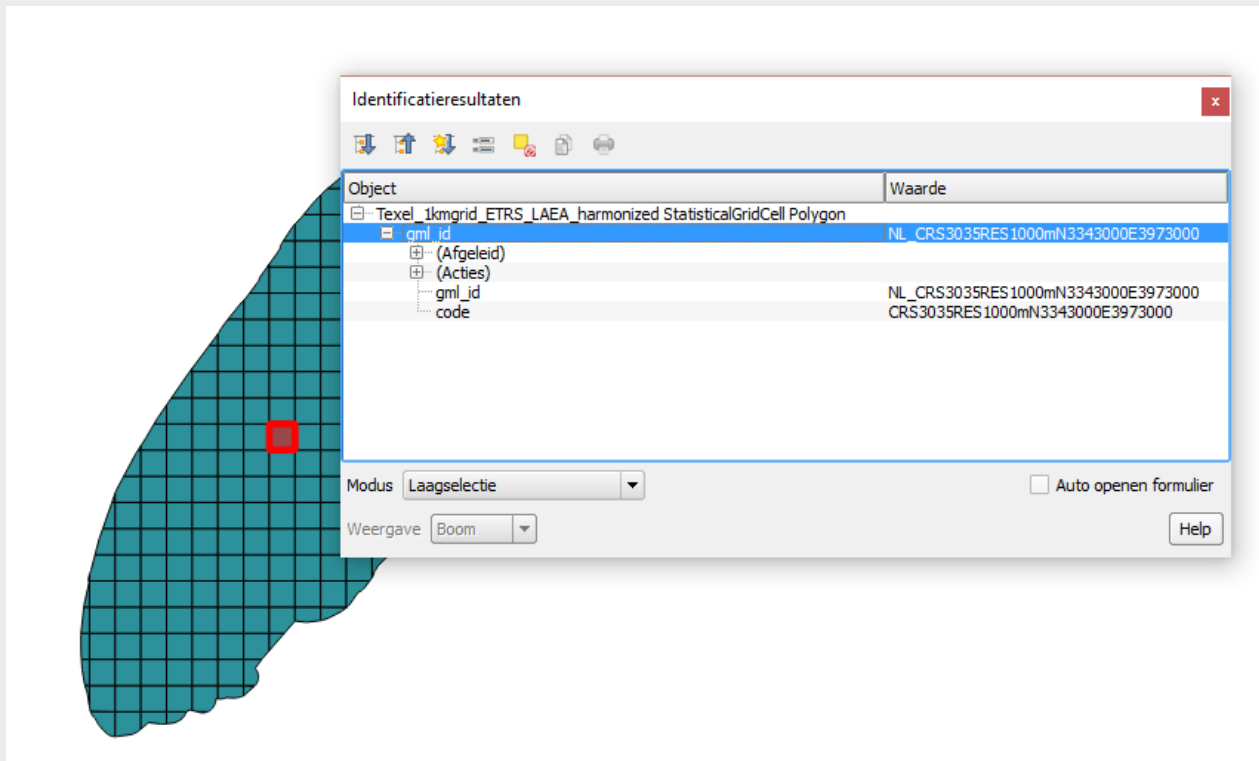
- ft StatisticalGridCell ×231
 - location (0..1)
 - boundedBy (0..1)
 - code ×231
 - description (0..1)
 - descriptionReference (0..1)
 - geographicalPosition
 - geometry ×231
 - grid ×231
 - gridPosition (0..1)
 - id ×231
 - identifier (0..1)
 - lowers (0..n)
 - metaDataProperty (0..n)
 - name (0..n)
 - upper (0..1)

Alignment

ft uitQgisTexel ×231 Retype ft StatisticalGridCell ×231

```
graph TD; uitQgisTexel[ft uitQgisTexel] --> Retype[Retype]; Retype --> StatisticalGridCell[ft StatisticalGridCell]; uitQgisTexel --> F1[Formatted string]; F1 --> id[id]; uitQgisTexel --> F2[Formatted string]; F2 --> code[code]; uitQgisTexel --> Polygon[...ryProperty.Polygon]; Polygon --> Rename[Rename]; Rename --> PolygonPatch[...etry.PolygonPatch]; Polygon --> Assign[Assign]; Assign --> href[grid.href];
```

Grid map WFS (3)



The screenshot displays a GIS application interface. On the left, a map shows a teal-colored grid overlaying a landmass. A red square highlights a specific cell in the grid. On the right, a window titled "Identificatieresultaten" (Identification Results) is open, showing a table of data for the selected cell. The table has two columns: "Object" and "Waarde". The "Object" column lists the layer name "Texel_1kmgrid_ETRS_LAEA_harmonized StatisticalGridCell Polygon" and a sub-layer "gml_id". The "Waarde" column shows the corresponding GML ID "NL_CRS3035RES1000mN3343000E3973000". Below the table, there are controls for "Modus" (set to "Laagselectie"), "Weergave" (set to "Boom"), and a "Help" button. An "Auto openen formulier" checkbox is also present.

Object	Waarde
Texel_1kmgrid_ETRS_LAEA_harmonized StatisticalGridCell Polygon	
gml_id	NL_CRS3035RES1000mN3343000E3973000
(Afgeleid)	
(Acties)	
gml_id	NL_CRS3035RES1000mN3343000E3973000
code	CRS3035RES1000mN3343000E3973000