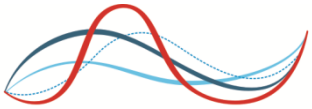
REPUBLIC OF CROATIA



CROATIAN BUREAU OF STATISTICS

QUALITY REPORT FOR STATISTICAL SURVEY

Development of the Geographical Information System (GIS)

For 2017

Organisational unit: Quality, Statistical Standards and Geoinformation System Development Department

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May, 2020

0. Basic information

- Purpose, goal, and subject of the survey

The general objective of this project is to geo-reference statistics against a system of grid cells using Cartesian coordinates.

- Reference period

Calendar year.

- Legal acts and other agreements

The Croatian Bureau of Statistics keeps the Register of Business Entities based on the Act on the National Classification of Activities (NN, No. 98/94), the Decision on the National Classification of Activities – NKD 2007. (NN, Nos 58/07 and 72/07) and the Ordinance on the Classification of Business Entities according to the National Classification of Activities – NKD 2007. (NN, No. 55/16). The Croatian Bureau of Statistics classifies business entities and parts thereof according to the NKD 2007.

- Classification system

The National Classification of Activities, 2007 version – NKD 2007.

- Concepts and definitions

The GeoSTAT activity is focused on developing guidelines for producing harmonised grid statistics and promoting national grid statistics in national statistical institutes. The reason for this activity comes from two major political definitions of EU: the European Statistical System (ESS) strategic goal to integrate spatial information and statistics and the INSPIRE initiative to develop interoperable spatial data sets. In order to achieve its final goal, Eurostat has made available a harmonised grid net of the whole Europe.

In addition to the European-wide grid net, there are country clips of the grid net covering only one country at a time. The grid net provides a reference system of grid cells for harmonised grid data set. The Croatian Bureau of Statistics uses the grids prepared by Eurostat for the purposes of the project.

The following variables are used for the purposes of merging statistics with geospatial information:

a) data from Register of Business entities
b) ETRS 89 LAEA grid
c) spatial units ranging from the state level down to the address level.

- Statistical units

The basic statistical observation unit is the Business entity at a certain address.

- Statistical population

The target refers to the total number of business entities at a certain address connected by the 1 x 1 km grid.

1. Relevance

1.1. Data users

External data users:
- DG Regio
- citizens

1.1.1 User needs

It is expected that DG Regio will be the major user of prepared data. The project of merging statistics with geospatial information resulted in production of the following data sets:
- total number of business entities
- number of business entities according to NKD 2007. sections
- number of business entities by legal organisational forms.

1.1.2 User satisfaction

Not applicable.

1.2. Completeness

Data are published in accordance with the EU legislation.

1.2.1 Data completeness rate

Data completeness rate is: 100%

2. Accuracy and reliability

2.1. Sampling error

Not applicable.

2.1.1 Sampling error indicators

Indicator for this survey is not applicable.

2.1.2 Bias due to sample selection process

Indicator for this survey is not applicable.

2.2. Non-sampling error

Not applicable.

2.2.1 Coverage error

All units are included in the frame, since all addresses on the territory of the Republic of Croatia and all levels of spatial units are observation targets.

2.2.2 Over-coverage rate

Indicator for this survey is not applicable.

2.2.3 Measurement errors

Not applicable.

2.2.4 Non-response errors

Not applicable.

2.2.5 Unit non-response rate

Indicator for this survey is not applicable.

2.2.6 Item non-response-rate

Indicator for this survey is not applicable.

2.2.7 Processing errors

Not applicable.

2.2.8 Imputation rate

Indicator for this survey is not applicable.

2.2.9 Editing rate

Indicator for this survey is not applicable.

2.2.10 Hit rate

Indicator for this survey is not applicable.

2.2.11 Model assumption error

Not applicable.

2.3. Data revision

2.3.1 Data revision – policy

Users of statistical data are informed about revisions (preliminary, final data) on the web site of the Croatian Bureau of Statistics.

2.3.2 Data revision – practice

Provisional figures are not published in this survey and therefore regular revisions are not planned.

2.3.3 Data revision – average size

Indicator for this survey is not applicable.

2.4. Seasonal adjustment

Not applicable.

3. Timeliness and Punctuality

3.1. Timeliness

3.1.1 Time lag – first results

Indicator for this survey is not applicable.

3.1.2 Time lag – final results

Indicator for this survey is not applicable.

3.2. Punctuality

3.2.1 Punctuality – delivery and publication

Indicator for this survey is not applicable.

4. Accessibility and clarity

First results of the project were disseminated to Eurostat, DG Regio and on the GeoSTAT portal of the Croatian Bureau of Statistics.

As a part of the project, the Methodological Guidelines were prepared that contain the explanation of the whole procedure of producing population grids. The current version of the Methodological Guidelines will be revised if new moments appear during the production of data sets.

4.1. News release

Not applicable.

4.2. Other publications

Methodological Guidelines No. 76/2018: “Merging Statistical Data of the Register of Business Entities with Geospatial Information in the Republic of Croatia” (https://podaci.dzs.hr/media/qiygb31e/metod_76.pdf).

4.3. On-line database

GeoSTAT portal of the Croatian Bureau of Statistics (https://geostat.dzs.hr/)

4.4. Micro-data access

The conditions under which certain users can access microdata are regulated by the Ordinance on the Conditions and Terms of Using Confidential Data for Scientific Purposes.

4.5. Documentation on methodology

The draft version of the Methodological Guidelines under the title Merging Data of the Register of Business Entities with Geospatial Information in the Republic of Croatia is bilingual. The Methodological Guidelines explain all levels of preparing and producing statistical data in grids as well as references to other documents that were used in the project.

The results of the project (total number of business entities, number of business entities by NKD 2007. sections and number of business entities by legal organisational forms) were produced in CSV format and used for producing maps related to a relevant subject matter.

For the purposes of producing grid statistics and on the basis of instructions received from the European Forum for Geostatistics, a bilingual handbook was also prepared, in English and Croatian.

5. Comparability

5.1. Asymmetry for mirror flows statistics

Not applicable.

5.2. Comparability over time

5.2.1 Length of comparable time series

Indicator for this survey is not applicable.

5.2.2 Reasons for break in time series

Not applicable.

6. Coherence

6.1. Coherence – short-term and structural data

Indicator for this survey is not applicable.

6.2. Coherence – national accounts

Indicator for this survey is not applicable.

6.3. Coherence – administrative sources

Indicator for this survey is not computed.

7. Cost and burden

7.1. Cost

The project was financed by the European Commission – Eurostat.

7.2. Burden

Not applicable.