

**CENSUS\_INS21ES\_A\_PL\_2021\_0000**

National Reference Metadata in Euro SDMX Metadata Structure (ESMS)

Compiling agency: Statistics Poland



## Eurostat metadata

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For any question on data and metadata, please contact: [Eurostat user support](#)

<b>1. Contact</b> <a href="#">Top</a>	
<b>1.1. Contact organisation</b>	Statistics Poland
<b>1.1.1. Responsible party</b>	Statistics Poland

<b>1.1.2. Responsible party role</b>	Resource Provider Custodian Owner User Distributor Originator Point of Contact Principal Investigator Processor Publisher Author
<b>1.2. Contact organisation unit</b>	Demography Survey Department
<b>1.5. Contact mail address</b>	Al. Niepodległości 208, 00-925 Warszawa

<b>2. Metadata update</b> <a href="#">Top</a>	
<b>2.1. Metadata last certified</b>	31/12/2022
<b>2.2. Metadata last posted</b>	31/12/2022
<b>2.3. Metadata last update</b>	28/02/2023

<b>3. Statistical presentation</b> <a href="#">Top</a>	
<b>3.1. Data description</b>	
Total population in 1km2 grid by sex and groups of age	
<b>3.1.1. Resource title</b>	
Total population of Poland in 1km2 grid by sex and groups of age.	
<b>3.1.2. Resource abstract</b>	
Total population in 1km2 grid by sex and groups of age.	
<b>3.1.3. Resource type</b>	
Spatial data set	

<b>3.1.3.1. Additional information if 'spatial data set' is marked</b>
Not applicable.
<b>3.1.4. Resource locator</b>
<a href="https://geo.stat.gov.pl/atom-web/download/?fileId=2795b7ed9098f86ab761352519ba1d85&amp;name=GRID_NSP2021_RES.zip">https://geo.stat.gov.pl/atom-web/download/?fileId=2795b7ed9098f86ab761352519ba1d85&amp;name=GRID_NSP2021_RES.zip</a>
<b>3.1.5. Unique resource identifier</b>
<a href="http://geo.stat.gov.pl/id/dataset/PL.ZIPGUS.2827/PD.GRID.2021">http://geo.stat.gov.pl/id/dataset/PL.ZIPGUS.2827/PD.GRID.2021</a>
<b>3.1.6. Coupled resource</b>
<a href="https://geo.stat.gov.pl/atom-web/atom/PD">https://geo.stat.gov.pl/atom-web/atom/PD</a>
<b>3.1.7. Resource language</b>
ENG
<b>3.1.8. Keyword value</b>
Population Distribution
<b>3.1.9. Originating controlled vocabulary</b>
<a href="https://inspire.ec.europa.eu/theme/pd">https://inspire.ec.europa.eu/theme/pd</a>
<b>3.1.10. Metadata language</b>
ENG
<b>3.2. Classification system</b>
Resident population by sex (males, females) and age groups (0-14 years, 15-64 years, 65 years and over), as required by COMMISSION IMPLEMENTING REGULATION (EU) 2018/1799 of 21 November

2018 on the establishment of a temporary direct statistical action for the dissemination of selected topics of the 2021 population and housing census geocoded to a 1 km<sup>2</sup> grid.

### **3.3. Coverage - sector**

Total population in 1km<sup>2</sup> grid by sex and groups of age.

#### **3.3.1. Topic category**

Society

#### **3.3.2. Spatial data service type**

Download Service

### **3.4. Statistical concepts and definitions**

Data for resident population

#### **3.4.1. Statistical concepts and definitions - Total population**

A general population (resident) in the area for at least 12 months. For residents of the administrative unit comprises: a) permanent residents (people registered for permanent residence or not), without the people staying away from home (residence) in the country or abroad, for at least 12 months, b) people who came from another place of residence in the country or from abroad (immigrants without permanent residence card) for a period of at least 12 months.

Residents (the residence population) is one of two categories of resident population developed by the Central Statistical Office.

Residents (the usual residence population) is developed for international statistics as defined by the Regulation of the European Parliament and Council of EU No. 1260/2013 of November 20, 2013 on European demographic statistics.

#### **3.4.2. Statistical concepts and definitions - Sex**

Sex (male, female) according to COMMISSION IMPLEMENTING REGULATION (EU) 2018/1799 of 21 November 2018 on the establishment of a temporary direct statistical action for the dissemination of selected topics of the 2021 population and housing census geocoded to a 1 km<sup>2</sup> grid .

#### **3.4.3. Statistical concepts and definitions - Age**

The age reached in completed years of age at the reference date shall be reported in groups 0-14, 14-64, 65 and above.

#### **3.4.4. Statistical concepts and definitions - Employed person**

Data and metadata will be accessible in March 2024.

**3.4.5. Statistical concepts and definitions - Place of birth**

Data and metadata will be accessible in March 2024.

**3.4.6. Statistical concepts and definitions - Place of usual residence one year prior to the census**

Data and metadata will be accessible in March 2024.

**3.5. Statistical unit**

Grid cell

**3.6. Statistical population**

Persons enumerated in the 2021 census are those who were usually resident in the territory of the reporting country at the census reference date. Usual residence means the place where a person normally spends the daily period of rest, regardless of temporary absences for purposes of recreation, holidays, visits to friends and relatives, business, medical treatment or religious pilgrimage.

**3.7. Reference area**

Poland

**3.7.1. Geographic bounding box**

14.1229 24.1458 49.0020 54.8358

**3.7.2. Spatial resolution**

1000

Unit:m

**3.7.3. Coordinate Reference System**

EPSG:3035 - ETRS89 / LAEA Europe

<b>3.8. Coverage - Time</b>
Data refer to the situation in the reporting country at the census reference date, March 31st 2021.
<b>3.9. Base period</b>
Data refer to the situation in the reporting country at the census reference date, March 31st 2021.

<b>4. Unit of measure</b>	<a href="#">Top</a>
Person.	

<b>5. Reference Period</b>	<a href="#">Top</a>
<i>The 2021 National Population and Housing Census in Poland was conducted between 1 April 2021 and 30 September 2021, as at 24:00 on 31 March 2021.</i>	
<b>5.1. Temporal extent</b>	
Time period between March 31st 2020 and March 31st 2021	

<b>6. Institutional Mandate</b>	<a href="#">Top</a>
<b>6.1. Institutional Mandate - legal acts and other agreements</b>	
<p>The legal acts governing all issues related to the conduct of the 2021 National Population and Housing Census are:</p> <ul style="list-style-type: none"> <li>• Regulation (EC) No 763/2008 of the European Parliament and of the Council of 9 July 2008 on population and housing censuses (OJ L 218, 13.8.2008, p. 14);</li> </ul>	

- Commission Implementing Regulation (EU) 2017/543 of 22 March 2017 laying down rules for the application of Regulation (EC) No 763/2008 of the European Parliament and of the Council on population and housing censuses as regards the technical specifications of the topics and their breakdowns (OJ L 78, 23.3.2017, p. 13);
- Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data and repealing Directive 95/46/EC (Official Journal of the EU L 119 of 04.05.2016, p. 1) as regards the principles of personal data processing;
- Regulation (EC) No 223/2009 of the European Parliament and of the Council of 11 March 2009 on European statistics and repealing Regulation (EC, Euratom) No 1101/2008 of the European Parliament and of the Council on the transmission of data subject to statistical confidentiality to the Statistical Office of the European Communities, Council Regulation (EC) No 322/97 on Community Statistics, and Council Decision 89/382/EEC, Euratom establishing a Committee on the Statistical Programmes of the European Communities (OJ L 87, 31.3.2009, p. 164). Council Regulation (EC) No 322/97 on Community Statistics and Council Decision 89/382/EEC, Euratom establishing a Committee on the Statistical Programmes of the European Communities (Text with EEA relevance) (OJ L 87, 31.3.2009, p. 164), as regards the rules on the development, production and dissemination of statistics and statistical confidentiality;
- Act of 29 June 1995 on Public Statistics (Journal of Laws of 2018, item 997, as amended);
- Act on the National Population and Housing Census 2021.

## 6.2. Institutional Mandate - data sharing

The Population and Housing Census 2021 Act contains provisions setting out data sources and the scope of information to be collected during the census, as well as procedures governing data gathering. On the basis of this Act, data were obtained from natural persons, and were also submitted by entities managing information systems.

## 7. Confidentiality

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### 7.1. Confidentiality - policy

In Poland, the protection of confidentiality of information concerning natural persons is one of the key principles governing the handling of data collected during statistical surveys, including the census. The obligation to observe statistical secrecy in official statistics is defined in Art.10 of the [Act on Official Statistics. Consolidated text of Journal of Laws of 2021, item 955](#), which reads: Article 10 "Identifiable individual data collected in statistical surveys are subject to absolute protection.

These data may only be used for statistical studies, compilations and analyzes and for the creation by the President of the Central Statistical Office of the frame for statistical surveys; sharing or using these data for purposes other than those specified in the Act is prohibited (statistical confidentiality)".

## 7.2. Confidentiality - data treatment

At the current stage (only sex and age groups were available), only the general rule for protecting statistical confidentiality was applied, namely the rule of 3-anonymity (stipulated in the act on official statistics). Secondary suppression was applied to suppress data if one of the categories included in a given aggregate could easily be disclosed by a subtracting the sum of the remaining values from the corresponding resident population total. In general, this procedure consisted in suppressing the second smallest value of the category of the same variable.

## 8. Release policy

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### 8.1. Release calendar

Data on population in 1km<sup>2</sup> grid was released on December 15th 2022. Population data by sex and age groups were reported in February 2023.

### 8.2. Release calendar access

Release calendar is published at the Statistic Poland website: [www.stat.gov.pl](http://www.stat.gov.pl). (Only in Polish).

### 8.3. Release policy - user access

Taking into account the different needs of users, the results of the censuses should be made available as soon as possible after the censuses are completed and the data presented at the lowest possible territorial level, while respecting the principles of statistical secrecy.

The results of the 2021 census shall be made available according to a schedule publicly accessible to the recipients of the information through various forms and tools that will allow the needs, capacities and preferences of different user groups to be taken into account.

For the Census 2021, the following forms of making result information available are used:

- News Releases - the fastest form of making outcome information available, used to disseminate preliminary census data, website: [Statistics Poland / National Census / National Population and Housing Census 2021 / Preliminary results of the National Population and Housing Census 2021 / Preliminary results of the National Population and Housing Census 2021](#);

- database system, website: <https://stat.gov.pl/en/databases/>;
  - publication - the traditional form of making census results available;
  - other forms of sharing (e.g. infographics, dashboards, tweets
- e.g.: <https://stat.gov.pl/en/infographics-and-widgets/infographics/infographics-preliminary-results-of-the-national-population-and-housing-census-2021,53,1.html>

In terms of tools for sharing result information from the Census 2021, the tools used are:

- Local Data Bank, website: [Statistics Poland - Local Data Bank](https://stat.gov.pl/en/infographics-and-widgets/infographics/infographics-preliminary-results-of-the-national-population-and-housing-census-2021,53,1.html)
- Domain Knowledge Base, website: <http://swaid.stat.gov.pl/en/SitePages/StronaGlownaDBW.aspx>
- Geostatistic Portal, website: [https://portal.geo.stat.gov.pl/en/home/?simply\\_static\\_page=73142](https://portal.geo.stat.gov.pl/en/home/?simply_static_page=73142)

- electronic communication tools - social media, e-mail, newsletter, presentation of information on the occasion of various events (e.g.: seminars, conferences, meetings).

The dissemination policy foresees the dissemination of statistical data at the same time (at 10:00 am) through different forms and tools.

### 8.3.1. Conditions applying to access and use

<https://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse/noConditionsApply>

### 8.3.2. Limitations on public access

<https://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse/noConditionsApply>

## 9. Frequency of dissemination

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Data on population and housing censuses are disseminated every decade.

## 10. Accessibility and clarity

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### 10.1. Dissemination format - News release

Census data in the form of news release are published successively (according to the release calendar) and include general data from the census topics. The release of data is preceded by information on the Statistics Poland website.

### 10.2. Dissemination format - Publications

Publications - the traditional form of making the census results available will be online and/or in book form. The preparation of thematic publications is planned. Information on data accessibility was published on website <https://stat.gov.pl> - calendar e.g. of publication:

<https://stat.gov.pl/en/national-census/national-population-and-housing-census-2021/national-population-and-housing-census-2021/preliminary-results-of-the-national-population-and-housing-census-2021,1,1.html>

### 10.3. Dissemination format - online database

The primary database in which the census results are made available is the Local Data Bank, available at the website: [Statistics Poland - Local Data Bank](#)

Information on data accessibility was published on website [Statistics.Poland Calendar](#)

### 10.4. Dissemination format - microdata access

Internal users (these are mainly statisticians) are guaranteed full access to individual (non-identifiable) Census 2021 data, while for external users a special application standardises access. External users, in particular the scientific and research communities, will be able to carry out research work based on individual (non-identifiable) data from the 2021 census in the Analytical Microdata Base (ABM).

### 10.5. Dissemination format - other

An additional tool for the cartographic presentation of census data is the Geostatistic Portal. It offers the possibility to present information and make the information available to a wide audience. The tool is aligned with European standards and all data is presented in a non-identifiable form, respecting statistical confidentiality.

website: [Geostatistics Portal](#)

### 10.6. Documentation on methodology

Selected methodological aspects regarding the Population and Housing Census in 2021, taking into account the objectives of the census, legal grounds, method of conducting the census, scope of data and data sources, thematic scope and dissemination of data are available in the publication "National Population and Housing Census 2021 Research methodology and organization" on the website: [Statistics Poland / National Census / National Population and Housing Census 2021 / Preliminary results of the National Population and Housing Census 2021 / Preliminary results of the National Population and Housing Census 2021](#)

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### 10.7. Quality management - documentation

Detailed information on quality will be provided in the full report to EUROSTAT (31 March 2024) in accordance with Regulation (EU) 2017/881 of 23 May 2017 as regards the modalities and structure of the quality reports and the technical format for data transmission.

## 11. Quality management

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### 11.1. Quality assurance

It is possible to assess the quality of the census on the basis of the final results. Currently, part of the census data released for selected census topics is preliminary. Detailed information on quality will be provided in the full report to EUROSTAT (31 March 2024) in accordance with Regulation (EU) 2017/881 of 23 May 2017 as regards the modalities and structure of the quality reports and the technical format for data transmission.

#### 11.1.1. Lineage

The grid-level population data submitted in February 2023 are preliminary. The development of the resident population category is due to international commitments.

Detailed information on quality will be provided in the full report to EUROSTAT (31 March 2024) in accordance with Regulation (EU) 2017/881 of 23 May 2017 as regards the modalities and structure of the quality reports and the technical format for data transmission.

#### 11.1.2. Conformity, specification

The grid-level population data submitted in February 2023 are preliminary. The development of the resident population category is due to international commitments.

Detailed information on quality will be provided in the full report to EUROSTAT (31 March 2024) in accordance with Regulation (EU) 2017/881 of 23 May 2017 as regards the modalities and structure of the quality reports and the technical format for data transmission.

#### 11.1.3. Conformity, degree

Detailed information on quality will be provided in the full report to EUROSTAT (31 March 2024) in accordance with Regulation (EU) 2017/881 of 23 May 2017 as regards the modalities and structure of the quality reports and the technical format for data transmission.

## 11.2. Quality management - assessment

Procedures to ensure quality assessment of census data addressed both the data collection stage and the processing stages.

### 1. Data collection stage

The data covered by the information scope of the 2021 Census were collected through an electronic census form.

The electronic form/application contained scoping and logical controls that allowed progression to subsequent questions, depending on the answer given to the question and displayed visual prompts (in the form of so-called 'helpers') that included an explanation of the definition of the term in question and a description to facilitate understanding of the question in order to answer it correctly. In addition, the electronic form was supported by dictionaries such as address, country of residence, country of birth and country of citizenship.

The census application was also adapted to the needs of people with disabilities. Deaf and deaf-mute persons were able to use a web-based self-reporting application that met Web Content Accessibility Guidelines (WCAG 2.0) standards. Furthermore, 4 language versions of the census application were prepared. In addition to Polish, the application was available in English, Russian and Ukrainian.

Various IT systems and applications were used in the census. The central link of the IT environment for the implementation of the 2021 Census was the CORstat\_Census IT System, which brought together all resources and functions related to the management of the tasks of the census participants. CORstat\_Census interacted with data acquisition systems and applications collected data and information related to the implementation of data acquisition processes. It also made it possible to monitor the status of the census, report on the status of the census and control the workflow between the different data collection channels.

### 2. The person-address-dwelling list

The person-address-dwelling inventory was prepared based on address and person data from available administrative and statistical records and was the main source of information on both persons and buildings and dwellings to be enumerated. In addition, the inventory was an essential tool for managing the census, checking the completeness of the persons, buildings and dwellings to be enumerated, authentication in the self-enumeration, as well as the flow of information on the degree of completion of the census between data collection channels. At the same time, the list is a very important element in the processing and elaboration of the Census 2021 results.

Many administrative and non-administrative and statistical registers and systems have been used in the construction of the person-address-housing inventory. Information extracted from administrative registers is subjected to the so-called 'standardisation' process, i.e. data control and validation activities, in accordance with the procedures developed in statistics, which include both IT and substantive mechanisms and procedures.

Based on administrative data sources, the inventory collected the most complete set of persons (Polish citizens and foreigners) as well as dwellings and buildings, which was crucial for the implementation of the adopted data collection methods.

The inventory is a set of basic data on each type of census unit created as relational tables: BUILDINGS, DWELLINGS, COLLECTIVE LIVING QUARTERS, PERSONS containing join keys between the inventory tables.

It contained the addresses of buildings, dwellings, collective living quarters (CLQs) and their inhabited premises subject to enumeration with accompanying spatial location data in the form of x, y coordinates.

### **3. Deduplication and survey selection procedures**

The data collected in the census were subjected to procedures for monitoring the quality of data obtained through different channels. A deduplication of the questionnaires received from the different channels was carried out in order to obtain one unique questionnaire ensuring the acquisition of complete information. The deduplication procedure used specially developed algorithms for calculating the metrics by which personal, as well as residential surveys were labelled. The process of selecting the best questionnaires assumed that in the input set, which is the set of all questionnaires, there could be many residential questionnaires for one dwelling and many personal questionnaires for the same person, which consisted, among other things, of multiple log-in attempts, technical difficulties, and telecommunications difficulties. As a result of performing the process, which consisted of:

- housing survey selection procedure;
- personal questionnaire selection procedure

the most complete questionnaire for a dwelling and a person was selected.

The sets of person questionnaires for the dwelling indicated by the algorithms formed a subset of the selected questionnaires for further elaboration of the results.

Detailed information on quality will be provided in the full report to EUROSTAT (31 March 2024) in accordance with Regulation (EU) 2017/881 of 23 May 2017 as regards the modalities and structure of the quality reports and the technical format for data transmission.

## **12. Relevance**

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### **12.1. Relevance - User Needs**

The proposed thematic scope was consulted with key data recipients who use statistical data to perform their statutory tasks (in particular, with public administration units and scientific and

research centres). Public consultations are an activity that, by involving the public in the decision-making process that involves defining the information needs of the census, contributes to a broader and more conscious understanding of the census activities undertaken and, as a consequence, to the expression of support for the entire undertaking.

Website: <https://stat.gov.pl/en/national-census/national-population-and-housing-census-2021/national-population-and-housing-census-2021/national-population-and-housing-census-2021-research-methodology-and-organization,3,1.html>

### 12.2. Relevance - User Satisfaction

Statistics Poland conducts activities aimed at evaluating user satisfaction, including e.g. regarding the scope and forms of sharing census data.

### 12.3. Completeness

The data will be made available in accordance with the scope required by REGULATION (EU) 2017/543 of 22 March 2017 on population and housing censuses as regards the technical specifications of the topics and of their breakdowns.

## 13. Accuracy

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### 13.1. Accuracy - overall

#### Place of usual residence / Place of usual residence (GEO)

The data produced within the topic: Place of usual residence are as defined in Regulation 2017/543

The resident population has been derived based on information on the place of usual residence, the nature of residence and the length of time individuals have been resident. This means that residents include:

- (a) permanent residents, with the exception of persons residing outside their place of residence for a period of at least 12 months regardless of their place of residence at home or abroad;
- (b) persons residing temporarily for at least 12 months, arriving from elsewhere in the country or from abroad.

Students were recognised as residents in their place (municipality) of study, in the case of studies abroad they were not counted as residents of Poland. Foreigners studying in Poland were included as residents of Poland.

Young people studying in secondary schools were counted as residents of the municipality of permanent residence (family home) regardless of the location of the school.

Homeless persons were counted as residents of the municipality in which they were enumerated.

Permanent residents of Poland residing in collective living quarters (CLQs) were enumerated as residents of the municipality in which the CLQs was located. Foreigners residing in CLQs were considered residents if their actual or intended period of residence was at least 1 year, if it was less than 12 months then they were not considered residents of Poland.

Soldiers and persons on military missions and diplomats and their families remained residents of Poland.

### **Gender/Sex (SEX)**

Data compiled under the theme Gender (total, male, female) are as defined in Regulation 2017/543

### **Age/Age (AGE)**

Data to be compiled by topic Age attained in completed years of life at reference date (less than 15 years, 15 to 64 years, 65 years and over): are as defined in Regulation 2017/543

### **13.2. Sampling error**

Not applicable, full survey.

### **13.3. Non-sampling error**

Not applicable, full survey.

## **14. Timeliness and punctuality**

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### **14.1. Timeliness**

Census reference date was March 31, 2021. Total population in 1 km<sup>2</sup> grid was published in December 2022. Final census data will be available by March 31, 2024.

#### **14.1.1. Date of publication**

Total population in 1 km2 grid was published in December 2022.
<b>14.1.2. Date of last revision</b>
28/02/2023
<b>14.1.3. Date of creation</b>
31/12/2022
<b>14.2. Punctuality</b>
Data delivered on time.

<b>15. Coherence and comparability</b>	<a href="#">Top</a>
<b>15.1. Comparability - geographical</b>	
<p>Statistics Poland maintains Spatial Address Databases (PBA) containing statistical address points with geographic location of each residential building or building with at least one dwelling. Spatial Address Databases are updated and archived quarterly. The Population and Housing Census 2021 survey frame was built based on the population record (a dataset maintained at Statistics Poland). While a table with persons is the main table of the survey frame, there are also tables for dwellings and buildings. Statistical address points hold locations for building with dwellings. Grid IDs were calculated for all statistical address points before they were matched with buildings in the census survey frame. The grid reference was written to the building table, from which it was easily transferred to persons.</p>	
<b>15.1.1. Geographic information - data quality</b>	
<p>Statistics Poland maintains Spatial Address Databases (PBA) containing statistical address points with geographic location of each residential building or building with at least one dwelling. Spatial Address Databases are updated and archived quarterly. The Population and Housing Census 2021 survey frame was built based on the population record (a dataset maintained at Statistics Poland). While a table with persons is the main table of the survey frame, there are also tables for dwellings and buildings. Statistical address points hold locations for building with dwellings. Grid IDs were calculated for all statistical address points before they were matched with buildings in the census survey frame. The grid reference was written to the building table, from which it was easily transferred to persons.</p>	

### 15.2. Comparability - over time

Grid-level population data are available as results from the 2021 census.

### 15.3. Coherence - cross domain

Population data at the grid level are not compiled from other sources.

### 15.4. Coherence - internal

The internal consistency of the data provided is ensured by legal regulations regarding the census specifying the divisions and definitions of topics.

## 16. Cost and Burden

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Since January 2020 Statistics Poland is conducting the “Development of procedures for census results' reporting in a kilometre grid” project under Eurostat grant agreement number 882010 — 2019-PL-CENSUS-GEO with the following tasks:

- Development of steering metadata for data processing
- Development of procedures for data aggregation to a kilometre grid
- Development of procedures for imposing statistical confidentiality
- Preparation of the environment for data transfer to the Census Hub
- Designing and conducting procedures for loading data into the dissemination database
- Designing and conducting processes for data transfer into the Census Hub

The project's estimated budget is 138 807,41 € with 70% EU contribution: 97 165,19 €

## 17. Data revision

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### 17.1. Data revision - policy

With a view to the needs of national users and international commitments, the principle of successive release of preliminary data for the census topics in the basic breakdowns has been adopted. Final data will be released according to the adopted release calendar.

### 17.2. Data revision - practice

Explanations in point 17.1

## 18. Statistical processing

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### 18.1. Source data

The National Population and Housing Census 2021 was conducted as a full survey. Data were collected from the entire population subject to the survey by a mixed method, i.e. :

1. Directly from respondents by means of an electronic census form using:

- online self-census,
- telephone interview,
- interview with the participation of a census taker.

2. Administrative data. A list of administrative registers are presented in the publication "National Population and Housing Census 2021 Research methodology and organization",

website: <https://stat.gov.pl/en/national-census/national-population-and-housing-census-2021/national-population-and-housing-census-2021-research-methodology-and-organization,3,1.html>

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### 18.2. Frequency of data collection

Data on population and housing censuses are collected every decade, in a reference year that falls during the beginning of every decade.

### 18.3. Data collection

Data on population and housing censuses are collected every decade, in a reference year that falls during the beginning of every decade. The information will be provided after the final data have been compiled (March 31st 2024).

### 18.4. Data validation

The address and dwellings inventory, as a collection created from multiple sources, with varying levels of quality and completeness of address data, required verification. The data validation procedures applied to both the population and dwellings and buildings sets.

**Buildings and dwellings** - due to the subject scope of the census, the verification of the inventory covered facilities directly related to the fact of population residing/occupying in them. The verification was conducted by employees of municipalities' offices, and the changes submitted by them were subsequently analysed and accepted by experts of statistical services. The purpose of the verification carried out was to ensure the completeness of buildings, dwellings, collective living quarters and other objects inhabited by the population and to establish the correctness of their addresses.

**Persons.** Verification of the list of persons is the creation of a unique set (target population). Activities included the verification and marking of persons aged 90 and over, persons who left Poland for permanent residence or persons appearing only in one register. The verification of the list of persons took into account the so-called "sign of administrative life", i.e. confirmation of the presence of a person by establishing the fact of updating information about that person in at least two registers.

Activities included, among others, the verification and marking of persons aged 90 and over, persons who left Poland for permanent residence or persons appearing in only one register.

Due to the delay of the person-address-dwelling inventory creation for the state census in relation to the critical moment of the survey, it was necessary to carry out an updating action. Based on data from the population register (PESEL) and concerning births, deaths and population migration, the list of persons was updated with regard to the facts that took place in the period from 1 January 2021 to 31 March 2021.

### 18.5. Data compilation

In the census survey frame, all buildings are assigned a grid identifier. The grid ID was assigned to all person records based on the building-person relation. The aggregation process took place on the database table, based on the Grid ID attribute.

Only for a small subgroup of enumerated persons, the place of residence was determined only with the accuracy of the town (no building address) and for this reason it was not possible to assign them kilometre grid mesh IDs in the usual (standard) way. The kilometre grid mesh identifier could not be determined (due to the lack of residence address assignment) for 333.0 thousand (0.9%) residents out of 37,019.3 thousand. Persons from a given locality with an unknown building address were therefore assigned to the grid mesh randomly, but at the same time in proportion to the shares of the population (with a known building address) from the same locality already assigned to individual meshes.

#### 18.6. Adjustment

The information will be provided after the final data have been compiled (March 31st 2024)

#### 19. Comment

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No comments.

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#### Annexes