Statistical survey on constructions on which construction activities were performed by business entities, for buildings, civil engineering and hydraulic engineering

BS_GRAD.11_A_EN_2022_1

Reference Metadata in ESMS 2.0 structure

1	Contact
1.1	Contact organisation
State Statistical Office	
1.2	Contact organisation unit
Department for industry, construction and business tendencies	
1.3	Contact name
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2	Metadata update

2.1	Metadata last certified

14/06/2023

2.2	Metadata last posted

14/06/2023

2.3	Metadata last update

14/06/2023

3	Statistical presentation

3.1	Data description

Data for residential and non-residential buildings (value of completed construction works by type of structures - buldings and civil engineering structures, number of finished dwellings in housing units, useful surface area of the dwellings in m2). For the structures data is obtained for the type of the construction works, whether it is newly built, alteration, or adaptation, sanation or reconstruction of the objects, and also for the type of ownership of the objects.

3.2	Classification system

National Classification of Activities - NKD Rev.2; Nomenclature of type of construction and construction works - NGOGR; Nomenclature of Territorial Units for Statistics - NTES, 2013.

3.3	Sector coverage

Section F - Construction, according to the NKD Rev.2.

3.4	Statistical concepts and definitions

Construction is any separated, freestanding functional structure (subterranean, surface and hydraulic construction), whose purpose is determined in advance and it is located in a specific area. According to the type, constructions as a part of construction activity are classified into: - Building constructions - Civil engineering works (constructions) Building construction comprises building of constructions which are mainly above the ground surface and that are built in height. This group includes all residential and business buildings, and all the buildings that are auxiliary to the civil engineering and hydraulic engineering constructions (terminal buildings,

airport buildings, transformer stations, harbor terminals, silos, etc.). Civil engineering comprises building of constructions that are mainly located on the surface or underground. This group includes constructions such as: roads, railways, bridges, tunnels, etc. Building unit is any independent structure constructed above ground, with fundaments, enclosed with external walls and covered by a roof, whether designed for residential or for agricultural, commercial, industrial or cultural purposes or for the provision of services. For the structures data is obtained for the type of the construction works, whether it is newly built, alteration, or adaptation, sanation or reconstruction of the objects, and also for the type of ownership of the objects. - The value of completed construction works is the invoiced value without VAT of the realised construction works during the reference period.

3.5	Statistical unit

The statistical unit are the business entities that, according to their economic activities, belong in the sector F (Construction) in the NACE Rev. 2 Classification, and allso other business entities that are registered in other sector but they have completed some construction works.

3.6	Statistical population

Statistical population are the structures on which construction activities are performed during the reference year.

3.7	Reference area

- NUTS 1 and 2 (Republic of North Macedonia)

- NUTS 3 (Statistical Regions)

- NUTS 4 (Municipalities)

3.8	Time coverage

From January 1952 onwards, and there is no break in the time series of the data.

3.9	Base period

2021 = 100

4	Unit of measure

Number, m2, %, thousand denars.

5	Reference period

Year.

6	Institutional mandate
6.1	Legal acts and other agreements

National: Law on State Statistics ("Official Gazette of the Republic of Macedonia" No. 54/1997, 21/2007, 51/2011, 104/2013, 42/2014, 192/2015, 27/16, 83/18, 220/18 and "Official Gazette of the Republic of North Macedonia" No. 31/20), Programme of Statistical Surveys 2018-2022 ("Official Gazette of the Republic of Macedonia" No. 22/18, 224/18 and "Official Gazette of the Republic of North Macedonia" No. 18/20 and 300/20). https://www.stat.gov.mk/ZaNas_en.aspx?id=8

6.2	Data sharing

7	Confidentiality
7.1	Confidentiality - policy

Individual data are protected by the Law on State Statistics . http://www.stat.gov.mk/ZakonZaStatistika_en.aspx . Data collected with statistical surveys from the reporting units or indirectly from administrative or other sources are confidential data and are used only for statistical purposes. Results from the statistical processing may also generate information considered as confidential, for example: anonymised individual data, tables with low level of aggregation, as well as unreleased data. The Policy on Statistical Confidentiality http://www.stat.gov.mk/ZaNas_en.aspx?id=32 contains the basic principles used in the SSO.

7.2	Confidentiality - data treatment

All individual or personal data, in each phase of statistical processing, are treated as confidential data and may be used only for statistical purposes. When releasing data from this survey at an aggregated level, there is no need for additional data treatment for the purpose of ensuring confidentiality.

8	Release policy
8.1	Release calendar

Data are released in accordance with the Release Calendar, which is published on the web site of the State Statistical Office. The Release Calendar is prepared annually before the beginning of each year and is updated quarterly.

8.2	Release calendar access

Release Calendar

https://www.stat.gov.mk/Kalendar_en.aspx

8.3	User access

In accordance with the Dissemination policy , all users have equal access to statistical data at the same time. Data are released on the web site at the same time for all users, which are informed with the Release Calendar , and no user has privileged access.

9	Frequency of dissemination

Yearly.

10	Accessibility and clarity

10.1	News release

"Yearly release "Completed construction works and completed dwellings in housing units built by construction business entities".

http://www.stat.gov.mk/PrikaziSoopstenie_en.aspx?rbrtxt=56

10.2	Publications

Not applicable, data from the statistical survey are not published in a thematic publication.

Last publication: Construction in the Republic of Macedonia, 2010 - 2014

http://www.stat.gov.mk/PrikaziPoslednaPublikacija_en.aspx?id=12

10.3	On-line database

MAKStat database is available on the SSO web site. Number of table views from MAKStat database is 1194.
http://makstat.stat.gov.mk/PXWeb/pxweb/en/MakStat/?rxid=46ee0f64-2992-4b45-a2d9-cb4e5f7ec5ef .

10.4	Micro-data access

According to the Law on State Statistics (Article 41) https://www.stat.gov.mk/ZakonZaStatistika_en.aspx and the Policy on Access to Anonymised Microdata   https://www.stat.gov.mk/ZaNas_en.aspx?id=22%20 for scientific purposes , data collected for the

purpose of official statistics may be used for scientific purposes if there is no risk of direct or indirect identification, i.e. disclosure of data individuality. Access to microdata is possible only in the safe room at the SSO, based on a submitted and approved request and a signed agreement.

10.5	Other

Statistical Yearbook,

http://www.stat.gov.mk/PrikaziPublikacija_1_en.aspx?rbr=735

Regions of the Republic of Macedonia,

http://www.stat.gov.mk/PrikaziPublikacija_1_en.aspx?rbr=736

Survey data are sent to Eurostat and they are released on the web site of this institution.

10.6	Documentation on methodology

Methodological explanations are released on the SSO web site. http://www.stat.gov.mk/MetodoloskiObjasSoop_en.aspx?id=56&rbrObl=20 .

10.7	Quality documentation

http://www.stat.gov.mk/Meta_godini_en.aspx

11	Quality management

11.1	Quality assurance

The commitment of the SSO to ensuring quality of products and services is described in the:

- Law on State Statistics
- Strategy of the State Statistical Office
- Quality Policy of the State Statistical Office

as well as in the continuous efforts for harmonisation with the European Statistics Code of Practice . The main aspects and procedures for quality management in the phases and sub-processes of the Statistical Business Process Model, as well as the good

practices for ensuring quality are documented in the internal document called "Guide for ensuring quality of statistical processes". Input and output metadata, as well as relevant quality indicators for certain sub-processes are described in the document "Guide for survey managers.

11.2	Quality assessment

The overall assessment of data quality is based on standard quality criteria: relevance, accuracy and reliability, timeliness and punctuality, coherence and comparability. The quality assessment is contained in the quality report that is prepared each year.

12	Relevance

12.1	User needs

Data for the completed construction works and number of finished dwellings are used by the Government, Economic Chamber, business subjects, International organisations. The external users are using: - the indicators for the completed construction works and number of finished dwellings are an important indicator for the economy and monetary police and also are indicator for future investments in construction sector; - the Economic Chambers, scientific researchers, business subjects and other various users that have needs for the short-term statistics for their's policy creation.

12.2	User satisfaction

The State Statistical Office conducts the User Satisfaction Survey . This Survey was conducted in 2009, 2012, 2015 and the last one in 2017.

12.3	Completeness

13	Accuracy and reliability

13.1	Overall accuracy

Data accuracy is ensured by working on decreasing sampling and/or non-sampling errors, as well as with additional data comparisons and analysis before dissemination.

13.2	Sampling error

The survey is not conducted with random sample and there is no calculation of sampling errors.

13.3	Non-sampling error

Measurrement errors: Data respondents are informed for the survey by sending an informational letter. Collected data are controled in the central statistical office. Data editing errors: Data entering is done with manually data entering in appropriate application for which activity are engaged data entry staff. While data entering implemented are rules for automatic controls, and also additional control after finishing of data entering. If there is any higher data inconsistency the reporting units are contacted, and for some items an imputation is made by sequential hot deck method (automatic data imputation) or method of expert imputation (manually data imputation). Non - response errors: The unit non-responce rate is 11.2%.

14	Timeliness and punctuality

14.1	Timeliness

T + 180.

14.2	Punctuality

Data are disseminated within the established deadlines in accordance with the Release Calendar.

Time lag of publication of the release (average yearly) = 0 days.

15	Coherence and comparability

15.1	Comparability - geographical

There is geographical comparability of the released data at national and regional level. With respect to geographical comparability with other EU countries, it is also ensured because data are collected in line with EU regulations.

15.2	Comparability - over time

Time series from 1952 onwards and there is no break-up in the time series. The number of reference periods in the time series from the last break-up is 71.

15.3	Coherence - cross domain

"Comparisons are made on a micro level with the data from the survey ""Monthly report on the value of completed and contracted construction works, total number of employees and effective worked hours"". Data are coherent."

15.4	Coherence - internal

Internal coherence of data is ensured.	
16	**Cost and burden**
17	**Data revision**
17.1	**Data revision - policy**
In accordance with the Statistical Data Revision Policy .	
17.2	**Data revision - practice**
Data revision is done always when there is change in the methodology.	
18	**Statistical processing**
18.1	**Source data**
"This statistical survey is a sample survey. The sample is taken from the monthly survey "Monthly report on the value of completed and contracted construction works, total number of employees and effective worked hours" (GRAD 21) and included are all the business entities that have performed construction activity in the reference year. The sample is revised every year. The sample for 2022 comprises of 141 business entities.	
18.2	**Frequency of data collection**
Yearly.	
18.3	**Data collection**

"Data collection from the business entities is done with non-random sample, with method of self-fulfilling the ""Annual report on constructions built by business entities" (GRAD.11) and the Control sheet for the ""Annual report on constructions built by business entities".

18.4	Data validation

Data are controlled according to the defined rules for logical controls. Data validation is done after the data withdrawn. Data are checked from the available documentation supplied while registering for a building permit. Data validation is also done on the output data before their publishing.

18.5	Data compilation

Editing: Data are collected annualy. Afterwards data are controlled, with logical controls, imputations of missing values, and than data are entered in appropriate application with implemented on-line data controls. Weighting: The output data are no weighted and no weights are calcullated.

18.6	Adjustment

Seasonal and working day adjustment are not implemented.

19	Comment

A.1	Annexes