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Reference Metadata in ESMS 2.0 structure

Statistical survey on the value of completed and contracted construction works, total number of employees and effective hours worked

BS_GRAD.21_M_EN_2022_0

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
Dragan Nedelchin	
1.4	Contact person function
Junior Associate	
1.5	Contact mail address
Dame Gruev 4, 1000 Skopje, Republic of North Macedonia	
1.6	Contact email address
dragan.nedelcin@stat.gov.mk	
1.7	Contact phone number
3295-663	
1.8	Contact fax number
2	Metadata update
2.1	Metadata last certified
03/04/2023	
2.2	Metadata last posted
03/04/2023	

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2.3	Metadata last update
03/04/2023	
3	Statistical presentation
3.1	Data description
<ul style="list-style-type: none"> -Nominal values of contracted construction works (Nace Rev.2) by types of constructions -Nominal and real indices of completed construction works (Nace Rev.2) by types of constructions -Seasonally adjusted indices of completed construction works (Nace Rev.2) by types of constructions -Nominal and real values of completed construction works (Nace Rev.2) by types of constructions 	
3.2	Classification system
<p>National Classification of Activities - NKD Rev.2;</p> <p>Nomenclature of type of construction and construction works - NGOGR.</p>	
3.3	Sector coverage
Section F - Construction, according to the NKD Rev.2., Division 41 - Buildings and Division 42 - Civil Engineering Works.	
3.4	Statistical concepts and definitions
<p>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. - The value of completed construction works is an invoiced value without VAT for the monthly completed (realised) construction works. - Values of contracted construction works, that are supposed to be finished in the current year. - Number of employees in the business entity in the reporting month. Covered are the employees in the reporting unit at the end of the month regardless if they were that day at work, vacation, sick leave or other. - Number of effective hours worked for all the employees in the business entity in the reporting month. Data is collected for the average number of effective hours worked during the</p>	

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month. Deflator from the construction costs is used for calculation of the indices for completed construction works, from 2010 onwards.

3.5 Statistical unit

Statistical unit are the business entities with scope of the construction activity in accordance with the section F from the National Classification of Activity - NACE Rev.2, Division 41 - Buildings and Division 42 - Civil Engineering Works, as well as the business entities that are not classified in the construction sector but are performing large-scale construction activities.

3.6 Statistical population

Statistical population are the business entities with scope of the construction activity in accordance with the section F from the National Classification of Activity - NKD Rev.2, Division 41 - Buildings and Division 42 - Civil Engineering Works, as well as the business entities that are not classified in the construction sector but are performing large-scale construction activities.

3.7 Reference area

NUTS 1 and 2 (Republic of North Macedonia)

3.8 Time coverage

From 1952 until 2007 (previous year = 100). From 2007 (2010 = 100) according to the Nomenclature of type of construction and construction works.

3.9 Base period

2015=100

4 Unit of measure

indices, %, thousand denars, number, hour.

5 Reference period

Month.

6 Institutional mandate

6.1 Legal acts and other agreements

National: Law on State Statistics ("Official Gazette" no. 54/97, 21/07, 51/11, 104/13, 42/14, 192/15 27/16, 83/18, 220/18 and .31/20) http://www.stat.gov.mk/ZakonZaStatistika_en.aspx and the Programme of Statistical Surveys 2018-2022 (" Official Gazette " No. 222/18, 224/18 and .18/20 и 300/20) http://www.stat.gov.mk/ZaNas_en.aspx?id=8.

International:

Council Regulation 1165/98

COMMISSION REGULATION (EC) No 1503/2006 of 28 September 2006 implementing and amending Council Regulation (EC) No 1165/98

Regulation (EU) 2019/2152 on European business statistics, and it's implementing Regulation 2020/1197 laying down technical specifications.

Eurostat Methodology of short-term business statistics, 2006.

6.2 Data sharing

Time series from January 2007, via eDAMIS transmitted to Eurostat.

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 website 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 : http://www.stat.gov.mk/Kalendar_nov_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 website at the same time for all users, which are informed with the Release Calendar, and no user has privileged access.

9 Frequency of dissemination

Monthly.

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10	Accessibility and clarity
10.1	News release
10.2	Publications
<p>The last publication:" Construction in the Republic of Macedonia".</p> <p>http://www.stat.gov.mk/PrikaziPoslednaPublikacija_en.aspx?id=12</p>	
10.3	On-line database
<p>MAKStat database - Construction</p> <p>Number of page views: 326.</p> <p>http://makstat.stat.gov.mk/PXWeb/pxweb/en/MakStat/MakStat_Gradeznistvo_MesecPodatociGradeznistvo</p>	
10.4	Micro-data access
<p>According to the Law on State Statistics http://www.stat.gov.mk/ZakonZaStatistika_en.aspx (Article 41) and the Policy on Access to Anonymised Microdata for scientific purposes http://www.stat.gov.mk/ZaNas_en.aspx?id=22%20, 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</p>	
10.5	Other
<p>Survey data are sent to Eurostat and they are released on the web site of this institution.</p>	
10.6	Documentation on methodology
<p>Methodological explanations are released on the SSO web site.</p> <p>http://makstat.stat.gov.mk/PXWeb/pxweb/en/MakStat/MakStat_Gradeznistvo_MesecPodatociGradeznistvo/175_Grad_Mk_Indeksi_mesecniG21_en.px/?rxid=46ee0f64-2992-4b45-a2d9-cb4e5f7ec5ef</p> <p>Short Term Business Statistics Methodology,EUROSTAT</p> <p>https://circabc.europa.eu/sd/a/fd45995c-7bfd-4db0-986e-14ac23072343/Methodological%20manual%202006%20KS-BG-06-001-EN.pdf</p>	
10.7	Quality documentation
<p>Metadata views <15.</p>	
11	Quality management
11.1	Quality assurance

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The commitment of the SSO to ensuring quality of products and services is described in the Law on State Statistics, the Strategy of the State Statistical Office (http://www.stat.gov.mk/ZaNas_en.aspx?id=6) and the Quality Policy of the State Statistical Office (http://www.stat.gov.mk/ZaNas_en.aspx?id=24), as well as in the continuous efforts for harmonisation with the European Statistics Code of Practice http://www.stat.gov.mk/ZaNas_en.aspx?id=2. The main aspects and procedures for quality management in the phases and sub-phases 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

12 Relevance

12.1 User needs

Data for the completed and contracted construction works are used by the Government, Economic Chamber, business subjects, International organisations. The external users are using: - the indicators for completed construction works as an important indicator for the economy and monetary policy; - the PEEI main economic indicators for the economic movements in the EU; 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 http://www.stat.gov.mk/ZaNas_en.aspx?id=33 at the domain level. This Survey is conducted at 2009, 2012, 2015 and the last one was in 2017.

12.3 Completeness

All aggregation levels, according to the short-term statistics regulations, are calculated and published nationally and transmitted to Eurostat.

Completeness of national data = 100%.

Completeness of Eurostat data = 100%.

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.

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13.3	Non-sampling error
Coverage errors: Overcoverage rate is 4%. Measurement errors: The reporting units are informed about the survey via information note that is created automatically from eStat. Data editing errors: In eStat implemented are validation rules. Also implemented are rules for controls and calculation of output data. Imputation is done from the data from the previous period. Non - response errors: The unit non-response rate is 0%.	
14	Timeliness and punctuality
14.1	Timeliness
T + 45.	
14.2	Punctuality
Data are disseminated within the established deadlines in accordance with the Release Calendar.	
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 January 2007 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 192.	
15.3	Coherence - cross domain
"Data comparisons are made on a micro level with the data from the survey ""Annual report on constructions built by business entities"", while on a macro level comparisons are made with the data from the Labour Force Survey. 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. http://www.stat.gov.mk/ZaNas_en.aspx?id=25	
17.2	Data revision - practice

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Data revision is done always when there is change in the base year and change in the methodology.

18 Statistical processing

18.1 Source data

"This statistical survey is a sample survey. The sample is created using the method of total coverage with cut-off threshold. The sample for the ""Monthly report on the value of completed and contracted construction works (GRAD 21)"" covers 82% from the total value of the completed construction works by the business entities. The sample is revised every year. The sample for 2022 comprises of 186 business entities. "

18.2 Frequency of data collection

Monthly.

18.3 Data collection

"Data for the value of completed construction works, value of contracted construction works, number of employees and effective hours worked are collected with the questionnaire ""Monthly report on the value of completed and contracted construction works (GRAD 21)"" via eStat data collection system. Data collection from the business entities is done with non-random sample, with method of self-fulfilling. The business entities report the data for the reference month and send to the SSO latest to the 15-th day next month."

18.4 Data validation

Data are controlled according to the defined rules for controls. In eStat implemented are mathematical and logical controls. Also in the application implemented are rules for controls and calculation of output data.

18.5 Data compilation

Editing: After data are withdrawn they are controlled, with logical controls, imputations of missing values from the previous period, and afterwards data entering is done in appropriate application with implemented on-line controls. Data analysis and validation is done before and after data dissemination, on aggregated level. Weighting: The output data are not weighted and no weights are calculated.

18.6 Adjustment

Data are both seasonally and working day adjusted using JDemetra+.

19 Comment

A.1 Annexes