

# Statistical survey on calculation of gross value added, gross fixed capital formation and assets and liabilities for non-financial enterprises

MS\_DV.KV.IN\_Q\_EN\_2024\_0

## Reference Metadata in ESMS 2.0 structure

<b>1</b>	<b>Contact</b>
<b>1.1</b>	<b>Contact organisation</b>
State Statistical Office	
<b>1.2</b>	<b>Contact organisation unit</b>
Department for quarterly calculations of GDP and calculations of GDP at constant prices	
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<b>2</b>	<b>Metadata update</b>
<b>2.1</b>	<b>Metadata last certified</b>
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<b>3</b>	<b>Statistical presentation</b>
<b>3.1</b>	<b>Data description</b>
<p>The data for enterprise, the data for calculation of value added in actual quarter, gross output and intermediate consumption, the data for calculation of compensation of employees, number of employees and situation on inventories. The data for calculation of gross fixed capital formation. The questionnaire covers the data for resource and obligation of enterprises in non-financial sector.</p> <p>The questionnaire collects data for the needs of NBRNM statistics. Data on assets and liabilities for loans and credits given and taken by non-financial enterprises, other assets and liabilities as well as total financial assets and liabilities.</p>	
<b>3.2</b>	<b>Classification system</b>
National clasification of activities Rev. 2	
<b>3.3</b>	<b>Sector coverage</b>
Combination sample (25 employees and more and the bussiness entities with number of employees under 24, who have gross output more than 30000000 denars (more than 500000 EUROS) on yearly level only non-financial enterprises	
<b>3.4</b>	<b>Statistical concepts and definitions</b>
"The calculation on the value added, intermediate consumption, gross output, compensation of employees, number of employees and stage of inventories for that quarter and calculation of the gross fixed capital formation for actual quarter. The resources and obligations are on accordance with: ESA 95, ESA 2010, the SNA 93, SNA 2008, Regulation (EU) no. 2223/96 of European council on 25th June 1996, The manual ""Quarterly national accounts"" IMF, different manual from Eurostat."	
<b>3.5</b>	<b>Statistical unit</b>
Non financial bussiness entities according the National clasification of istitutional sectors (KIS), and National clasification of activities (NACE) Rev. 2.	
<b>3.6</b>	<b>Statistical population</b>
The units of observation are non-financial report entities according NACE Rev. 2. The report entities are selection on combine sample (25 and more than 25 employees, and of the other side, the number of employees maximum 24, but with gross output over 30000000 denars (500000 EUROS) on yearly level.	
<b>3.7</b>	<b>Reference area</b>

Republic of North Macedonia	
<b>3.8</b>	<b>Time coverage</b>
0	
<b>3.9</b>	<b>Base period</b>
The base period for collected of data are actual quarter of the year.	
<b>4</b>	<b>Unit of measure</b>
The data are in thousand denars	
<b>5</b>	<b>Reference period</b>
The actual quarter of the year	
<b>6</b>	<b>Institutional mandate</b>
<b>6.1</b>	<b>Legal acts and other agreements</b>
<p>Article 26 from act of state statistics ("The Official Gazette of the Republic of Macedonia no. 54/97, 21/07, 51/11, 104/13, 42/14, 192/15, 27/16, 83/18 and 220/18 and 31/20") and Programme of Statistical Researches for period 2018-2022 ("The Official Gazette of Republic of Macedonia no. 20/13, 24/14, 13/15, 22/18 and 29/23").</p> <p>"European system of accounts ESA 95, ESA 2010, System of national accounts SNA 93, SNA 2008, Regulation (EU) no. 2223/96 of the council of Europe from 25th June 1996, Regulation (EU) no. 1500/2000 of European commission, Regulation(EU) no.1267/2003 of European parliament and Council of Europe, Regulation (EU) no. 400/2009 of European parliament and Council of Europe.</p>	
<b>6.2</b>	<b>Data sharing</b>
The data from that investigation are used as input for calculation on GDP by production method on quarterly level.	
<b>7</b>	<b>Confidentiality</b>
<b>7.1</b>	<b>Confidentiality - policy</b>
The data which collected with those statistical questionnaire individual data which are protected with the Act for State Statistic ("The Official Gazette of the Republic of Macedonia no. 54/97, 21/07, 51/11, 104/13, 432/14, 192/15, 27/16, 83/18, 220/18 and 31/20) for their protect during collection, processing, publishing, storage of the data and destruction in according the law."	
<b>7.2</b>	<b>Confidentiality - data treatment</b>
The data which are collected from that investigation are confidential and used for interior (input for calculation of GDP according production method on quarterly level)	
<b>8</b>	<b>Release policy</b>

<b>8.1</b>	<b>Release calendar</b>
The data from that investigation are use as input for calculation of GDP as production method on quarterly level.	
<b>8.2</b>	<b>Release calendar access</b>
Because the data from the investigation for calculation of valeu added and gross fixed capital formation are use as input for calculation of GDP as production method on quarterly level. For this reason, the data are not published on calendar access on the web side of the State Statistical Office.	
<b>8.3</b>	<b>User access</b>
The data from investigation for value added and gross fixed capital formation are used as input for calculation on GDP by production method.	
<b>9</b>	<b>Frequency of dissemination</b>
The quarterly data from that investigation are not published.	
<b>10</b>	<b>Accessibility and clarity</b>
<b>10.1</b>	<b>News release</b>
The quarterly data from that investigation are not published.	
<b>10.2</b>	<b>Publications</b>
The quarterly data from that investigation are not published	
<b>10.3</b>	<b>On-line database</b>
The quarterly data from that investigation are not published.	
<b>10.4</b>	<b>Micro-data access</b>
The quarterly data from that investigation are not published.	
<b>10.5</b>	<b>Other</b>
The quarterly data from that investigation are not published.	
<b>10.6</b>	<b>Documentation on methodology</b>
On the internet side on the domen for the GDP existing link for methodological explanation for primary aggregates.	
<b>10.7</b>	<b>Quality documentation</b>
The questionare for calculation of the value added and gross fixed capital formation are survey which data are used on many analitical purposes (The calculation of GDP by production method on current and constant prices) where the quality of data should be measure in accordance of quality of survey who used that data. From that reason, the quality from that survey are not measure and documented.	

<b>11</b>	<b>Quality management</b>
<b>11.1</b>	<b>Quality assurance</b>
<p>The data from quarterly report for calculation of value added and gross fixed capital formation is used as input for calculation of indicators which are part from many surveys. The quality of that indicators are compared with same on yearly level after finished the current year. For the better quality of the quarterly report the mathematically-logical control are used. The method of imputation of the data of current quarter compared with yearly data from previous year are used. One of steps to ensure better data of current quarter are the compared with same quarter data from previous year.</p>	
<b>11.2</b>	<b>Quality assessment</b>
<p>The estimation the quality of quarterly survey by standard criteria are not used, because the quality of that survey are weight across the other investigation, who use some indicators from quarterly survey.</p>	
<b>12</b>	<b>Relevance</b>
<b>12.1</b>	<b>User needs</b>
<p>The data from quarterly investigation for calculation of value added and gross fixed capital formation are used as input for other calculations and users are the same departments from State Statistical Office.</p>	
<b>12.2</b>	<b>User satisfaction</b>
<p>The satisfactioun of users are not weigh because the data from that survey are not published and are used from from the same departments on State Statistical Office.</p>	
<b>12.3</b>	<b>Completeness</b>
<p>"The categories which are gathered from quarterly survey for calculation of value added and gross fixed capital formation are harmonized with European Sistem of accounts - ESA 95, ESA 2010, Sistem of National Accounts - SNA 93, SNA 2008, Regulativa (EU) no. 2223/96 on Council of Europe from 25th June 1996, Manual "" Quarterly national accounts"" on IMF, Manuals from Eurostat"</p>	
<b>13</b>	<b>Accuracy and reliability</b>
<b>13.1</b>	<b>Overall accuracy</b>
<p>Data accuracy is not measured by measuring random error, systematic error, or qualitative assessment.</p>	
<b>13.2</b>	<b>Sampling error</b>
<p>Sampling errors are not measured through the use of biased and unbiased estimators or through the coefficient of variation.</p>	

<b>13.3</b>	<b>Non-sampling error</b>
<p>Errors during coverage, or rather how much of the reporting units are covered less than they should be or how much of them are covered more than necessary, are measured by comparing the data from the department that conducts the research (eg turnover, employees) with the data from the other departments at the State Statistics Office. Measurement errors are tried to be reduced to an unnoticeable level through timely testing of the questionnaire, as well as continuous training of business entities with constant telephone contact. Processing errors are also minimized through the automatic calculation of certain categories of data collected from the quarterly report for calculation of added value and investments in fixed assets (mathematical-logical control). Non-response errors are tried to be reduced by imputation of the data from the current quarter based on the annual data from the previous year, more precisely, the movement of the calculated categories from the quarterly survey from the previous year is observed and benchmarked with the annual data from the same year, and then performs imputation of the data in the current quarter (if there is no response) in accordance with the movements of the previous year. More specifically, comparison, assessment and imputation of the data is performed in the current quarter if no data is available for the same. Errors in case of non-response can be reduced by implementing the Law on State Statistics in which appropriate fines are determined depending on the type of non-compliance.</p>	
<b>14</b>	<b>Timeliness and punctuality</b>
<b>14.1</b>	<b>Timeliness</b>
<p>Data from the quarterly survey on value added and investment in fixed assets are processed in accordance with the annual program of statistical surveys and the same data are used as input for calculations in other analytical studies. These data are not disseminated.</p>	
<b>14.2</b>	<b>Punctuality</b>
<p>The data from the quarterly survey for the calculation of the value added and investments in fixed assets are not disseminated.</p>	
<b>15</b>	<b>Coherence and comparability</b>
<b>15.1</b>	<b>Comparability - geographical</b>
<p>Republic of North Macedonia</p>	
<b>15.2</b>	<b>Comparability - over time</b>
<b>15.3</b>	<b>Coherence - cross domain</b>
<p>Certain categories, variables from the quarterly survey for calculation of value added and investments in fixed assets, despite having a different methodology, are compared according to NKD rev.1 and NKD Rev.2 with the data from other departments from sector for business statistics at the State Statistics Office . These data are compared in such a way that their methodology is first considered and before they are compared, the methodological differences are reduced (taking</p>	

only one part of the data, the variables from the departments, or merging the data from several variables into one). at the highest level of comparability in order to check the reliability, the accuracy of the collected data from this survey with other surveys.

#### **15.4 Coherence - internal**

The calculated categories, variables from the current quarterly survey for the calculation of value added and investments in fixed assets as previous data needed for further analysis and processing, at the end of the year are compared with the data from the financial accounts as definitive annual data in order to perceive the possibility and the way to eliminate the errors with which the differences of this comparability would approach to a minimum level.

#### **16 Cost and burden**

The burden on the data providers (reporting units) in function of the time spent during the year to fill out the quarterly report for the calculation of value added and investments in fixed assets is measured through the report itself, where it is specified as a separate question in the questionnaire. The workload and the size of the required time is correlated with the size of the reporting unit (a larger reporting unit with a larger number of employees, income, expenses, and longer time to fill out the questionnaire). In order to reduce this time, every year an effort is made to remove certain variables, categories in the questionnaire that can be automatically calculated or evaluated from the questionnaire (variables-categories that are needed for the calculation of the necessary derived categories should be evaluated according to their participation in the financial accounts of the previous year for the same derived categories).

#### **17 Data revision**

##### **17.1 Data revision - policy**

##### **17.2 Data revision - practice**

#### **18 Statistical processing**

##### **18.1 Source data**

The source of data is the processed data from the Quarterly survey for calculation of value added and investments in fixed assets for non-financial business entities (Form DV.KV.IN). The reporting method is used for data collection. The reporting units submit a quarterly report for the calculation of added value and investments in fixed assets to the State Statistics Office within a certain period, based on the Program for Statistical Research in the Republic of North Macedonia for a certain year. Sources of data are bookkeeping and personnel records, as well as the documentation available to the reporting unit. Data collection is done on a sample basis. The sample type is combined. The criterion for the selection of the reporting units is the number of employees (25 and over 25 employees and gross value of production over 30000000 MKD (500000 euros) per year).

##### **18.2 Frequency of data collection**

quarterly

### **18.3 Data collection**

When the forms are received (in E-Stat) they are recorded, controlled and downloaded in the application (in Access). The application carries out additional controls according to the defined validation rules. In case there are errors and/or illogicalities, the data providers are contacted.

### **18.4 Data validation**

Data verification is done at the State Statistics Office. For the verification of the data from the survey, an appropriate mathematical-logical control are developed.

### **18.5 Data compilation**

The data from the quarterly survey on value added and investments in fixed assets are collected according to NKD Rev.2 in thousands of denars. These data are collected in appropriate categories, namely: value added, intermediate consumption, gross value of production, compensation of employees, average number of employees, state of inventory as well as calculation of the value of investments in fixed assets. For certain reporting units that have not submitted data in certain quarters, data imputation is performed for those quarters for which there is no data based on the Annual Financial Accounts from the previous year.

### **18.6 Adjustment**

## **19 Comment**

## **A.1 Annexes**