

STATISTICAL OFFICE

REPORT ON IMPLEMENTATION OF
PROGRAMME OF OFFICIAL STATISTICS
2014 – 2018

Podgorica, February 2019

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SUMMARY

In accordance with the obligation laid down in Article 26 of the Law on Official Statistics and Official Statistical System (Official Gazette of Montenegro No 18/12), (hereinafter referred to as the “Law”) Statistical Office produced *the Report on Implementation of the 2014-2018 Programme of Official Statistics*.

Statistical Office is the main producer and disseminator of official statistics data, defined by Five-Year Programme of Official Statistics and Annual Plan of Official Statistics, as well responsible professional body, organiser and coordinator of official statistics system of Montenegro, and it represents the official statistics of Montenegro in the international statistical system.

Report on Implementation of the Programme of Official Statistics is prepared by Statistical Office in cooperation with other producers of official statistics: Ministry of Finance, Central Bank of Montenegro, Ministry of Science, Tax Administration, Customs Administration, Public Health Institute of Montenegro, Pension and Disability Insurance Fund, Health Insurance Fund, and Capital Market Authority. In addition to focusing on the accomplishment of tasks under their competence, other official statistics producers have been devoted to the fulfilment of obligations defined by the 2014-2018 Programme of Official statistics (hereinafter referred to as the “Programme”).

The Programme is a strategic document of Statistical Office, and it represents a framework for development, production and dissemination of official statistics of Montenegro for the period of five years. All priority activities of official statistics are summarized and incorporated in this document, adopted in accordance with the Development Strategy of Official Statistics.

Report on Implementation of the 2014-2018 Programme of Official statistics provides information on:

- Achieved development aims of official statistics planned in the mentioned five-year period;
- Achieved results of official statistics by statistical areas;
- Implemented development activities that cannot be divided by statistical areas, and
- List of official statistics producers.

Planned statistical activities defined by the Programme are successfully implemented through the Annual Plan of Official Statistics, all results of official statistics were disseminated via publications and on the official website of the Statistical Office. Herewith, Statistical Office has coordinated activities focused on achieving strategic aims, through:

1. Harmonisation of official statistics of Montenegro with the EU *acquis* in the field of official statistics:

- *Significant progress was achieved in fulfilment of benchmarks in Chapter 18 - Statistics*, key data transmission is continued, in accordance with the detailed source of data and methods aimed at reaching transparency of process and quality of data, together with reaching higher compliance level with the EU *acquis*, and which further use an input for the calculation of macroeconomic data in line with the ESA 2010;
- *Legal, strategic and administrative framework defined* under the *Programme of Accession of Montenegro to the EU 2018-2020*;
- *Strategic framework defined at the annual level pursuant to the Programme of Work of Government of Montenegro*, and in accordance with the Law (Annual Plan of Official Statistics, Reports on implementation of Annual Plan of Official Statistics, Statistical Release Calendar);
- *Methodological alignments with the EU standards achieved* in following areas: macroeconomic statistics, national accounts and prices; agriculture and environment; business statistics - tourism, labour market, energy, industry, construction, transport, statistics of living conditions, and innovation statistics;
- *Printed and published 25 publications and responded to 2.937 user requests*;
- *GNI Inventory transmitted to EC-EUROSTAT* – representing a detailed description of used data sources and methods with related documents and data used in the calculation of gross domestic product;
- *Road map (tables) in form of Action Plan defined*, according to which Statistical Office will transmit the tables to Eurostat after temporary closing of Chapter 18 – Statistics;
- *Experimental and balanced supply and use tables produced and transmitted to Eurostat* for years 2013 and 2014;

- Pursuant to Trilateral Agreement on Cooperation, in area of national accounts statistics, draft version of **Classification of institutional units by institutional sectors** according to the ESA 2010 methodology prepared for reference 2015 year;
- **Official statistical data transmitted within defined time deadline, in accordance with the Transmission Programme ESA 2010**, via defined software for data transmission (e-Damis);
- **Higher accessibility of sustainable development indicators** and position of Montenegro in the database of indicators from the UN sustainable development list in accordance with the National Strategy of Sustainable Development up to 2030;
- **Cooperation with international statistical institutions improved**: Agreement on Cooperation signed with the National Statistical Institute Romania (No 01-956 of 23 March 2015) and possibilities for bilateral cooperation created through expert assistance in area of statistics with Greece, Hungary, Lithuania, Latvia, Ireland and Estonia;
- **Membership of Statistical Office in Statistical Modernisation Group** together with 16 national and international statistical organizations. Statistical Modernisation Group is a cooperation partnership, created as an initiative of UNECE – High level group for modernization of official statistics (HLG-MOS). HLG-MOS monitors the project of modernisation and manages models and tools necessary for the support to the modernisation in statistical organizations;
- **International and national classifications systematically implemented**: DEGURBA classification established – urbanization level for 14 municipalities (Tivat, Kotor, Herceg Novi, Budva, Bar, Ulcinj, Podgorica, Niksic, Danilovgrad, Cetinje, Kolasin, Andrijevica, Plav and Savnik); classification CPA 08 introduced – Statistical classification of products by activities which is necessary in supply and use table production; revision of International standard classification of education - ISCED classification (ISCED 11) done;
- **Commitment on Confidence in Official Statistics adopted**: with the adoption of this Declaration, the Government of Montenegro expressed the commitment to strengthening the confidence in the official statistics based on the European principles

- and quality standards of official statistics (adopted at its 64th session of the Government of Montenegro on 22 February 2018);
- ***Information on preparations for register-based census of population, households and dwellings 2021 with proposals of measure proposals for the improvement of situation adopted*** (adopted at the 64th session of the Government of Montenegro on 22 February 2018);
 - ***Information on use of administrative sources for statistical purposes*** adopted (at the 139th session of the Government of Montenegro on 10 December 2015);
 - ***License for work for scientific and research activity of Statistical Office obtained:*** Ministry of Science issued a licence to Statistical Office for carrying out scientific and research activities in area of social science on 10 July 2017 (Decision No 1 - 1068/4);
 - ***Improvements in area of establishment of GRID statistics;***
 - ***Methodology for Keeping Uniform Records and Uniform Register of Spatial Units*** defined and it is available for users at the official website of Statistical Office;
 - In cooperation with the Ministry of Sustainable Development and Tourism, representatives of Statistical Office actively participated in the development of specific plan for implementing the Directive 2007/2/EC of the European Parliament and of the Council in Montenegro.

2. Quality management through monitoring the implementation of the European Statistics Code of Practice:

- ***High harmonisation of Statistical Office with the EU quality concept of official statistics:*** European Commission and Eurostat performed the control of official statistics production process through a Peer Review mission to determine the level of development and quality of statistical results in the 2013 – 2018 period;
- ***Quality policy adopted*** fully aligned with the European Statistics Code of Practice and Total Quality Management – TQM principles;
- ***Quality Management Strategy adopted,*** a strategic development document in area of ensuring quality in the statistical system of Montenegro;

- *Guide for Implementation of Quality Management Strategy adopted* – providing guidelines to staff on the implementation of Quality Management Strategy;
- *Implementation plan for carrying out the quality policy adopted;*
- *Revision policy adopted* which defines general rules on the revision of published official statistics results;
- *Quality reporting system developed:* 2016 and 2017 quality reports published on the official website of Statistical Office in accordance with the guidelines of European statistical system for efficient reporting on quality;
- *User satisfaction survey carried out and published survey results* which will serve as a basis for continuous work on the improvement of data and service quality, as well as for the development of action plans for ensuring the quality of Statistical Office's work;
- *Staff satisfaction survey carried out* with the aim to monitor the level of staff satisfaction.

3. Strengthening administrative capacities through continuous development of human potentials to ensure the sustainability of official statistics:

- *Statistical Office Human Resources Plan for 2018 adopted* (No 01-127 of 15 January 2018);
- *Education/traineeship in Eurostat* with duration of 4-6 months was used by 15 staff members;
- *Education and participation in 730 international activities* (conferences, meetings, workshops, and study visits) out of Montenegro with purpose to improve the official statistical system of Montenegro via IPA MB project;
- *20 trainings organized in area of official statistics* in 2017 with 237 participants;
- *Number of staff with finished postgraduate (12) and doctoral studies (1)* in area of official statistics;
- *Cooperation with universities and general scientific and research community strengthened* by signing the agreement on cooperation.

4. Increased use of administrative sources to reduce costs and burden on reporting units:

- *In 2014 – 2018 period, there were signed 15 agreements on cooperation out of total 22 signed agreements:* Secretariat of Judicial Council, Ministry of Interior and Public Administration; Ministry of Education; Agency for Electronic Media; Supreme Prosecutor's Office; Agency for Electronic Communication and Postal Activity; Trilateral Agreement with Central Bank of Montenegro, Ministry of Finance and Statistical Office; Ministry for Human and Minority Rights; Municipality Tivat; University of Montenegro; Ministry of Agriculture and Rural Development; Central Bank of Montenegro; University Mediteran; University Donja Gorica and Ministry of Public Administration.
- *Activities on the exploration of possibilities to implement a register-based 2021 Census of Population, Households and Dwellings in Montenegro started;*
- *Increased use of administrative source for statistical purposes, with 14 statistical surveys in 2014, the number increased to 49 statistical surveys, which use administrative source in the statistical production at the end of 2018.*

5. Improvement of organization and control of statistical processes by introduction of modern technologies:

- *IT strategy adopted with action plan for the 2014 – 2018 period;*
- *Integrated system for data processing– IST implemented.* In accordance with the Generic Statistical Business Process Model – GSBPM, it standardizes statistical processes and databases in the statistics of agriculture, social statistics, ICT survey in households and enterprises, and MICS survey;
- *CAPI system improved by using the “on-line” method, in agriculture, social statistics, ICT survey in households and enterprises with the support of IST;*
- *CAWI system implemented in statistics of agriculture with the support of IST;*
- *14 software licenses provided for the analysis of statistical data for IBM SPSS – Statistical Package for the Social Sciences;*
- *Windows server and user licenses installed;*

- *IT equipment modernised by purchase of four servers and use of modern methods* by purchase of tablets for the needs of data collection in field;
- *Hardware optimisation done;*
- *Software for preparation of publications and books provided:* CorelDRAW and Acrobat Pro 2017.
- *Software for system protection against computer viruses provided: Kaspersky;*
- *Software EaseUS Todo for SQL server data back-up provided;*
- *Permanent license for ArcGIS spatial register provided;*
- *Metadata system improved in accordance with the EURO SDMX Metadata Structure (ESMS)* which also includes other official statistics producers in accordance with the structure recommended by Eurostat;
- *Data back-up improved* thus improving the data security.

6. Strengthening of Statistical Office's coordination role in statistical system:

- *Montenegro official statistics system extended to one more official statistics producers, Ministry of Science, in area of statistics 'Research and development ';*
- *Statistical Office is a direct holder of Grant contract* under the IPA II multi-beneficiary programme (2014-2018) with support and approval of Eurostat;
- *Coordination over statistical system developed through negotiation structure* established for Chapter 18 – Statistics;
- *Coordination inside statistical system developed* by: establishment of METADATA system; signing interinstitutional agreements on cooperation; and by establishment of reporting system on official statistics results through quality reports for users;
- *Statistical Data Source Coordination Sector established:* primary role of sector is coordination of statistical system, i.e. cooperation with other official statistics producers, cooperation with institutions of administrative data sources and cooperation with business sector;
- *In cooperation with UNICEF, Statistical Office conducted the Multiple Indicator Cluster Survey - MICS6 survey,* international programme of household surveys that ensures the data related to position of children and women, as well as key indicators that

monitor country development according to the Millennium Development Aims and other national and international strategies;

- *In cooperation with UNICEF, Statistical Office coordinated the data collection for the needs of updating the TransMonEE database* which covers broad range of data of importance for social and economic issues important for position and wellbeing of children, youth, and women at the level CEE/CIS countries;
- *Analytical report with topic 'Disaggregation of SDG data on children' prepared* within the cooperation between Statistical Office and UNICEF.

7. Development of dissemination in accordance with development of information and strengthening of communication with users:

- *Overview of data at the official website of Statistical Office improved.* Data selection provided by determined criteria, data download in Excel, pdf and xml format. Graphical illustration of selected data is also enabled;
- *25 publications printed and published; 996 releases published* in monthly, quarterly and annual dynamics in the 2014 – 2018 period;
- *2.937 user requested were in total responded;*
- *Communication with data users strengthened:* Statistical Office prepared a proposal of the 2019 – 2023 Programme of Official Statistics, available to all users of official statistics in period from 31 July to 5 September 2018. Within this period, users were able to submit their suggestions, amendments, via the official website of Statistical Office www.monstat.org. The total number of received proposals is 66 from 42 institutions and natural persons;
- *Cooperation with NGOs, as well as scientific and research institutions strengthened:* there were signed three agreements on cooperation with scientific and research institutions in considered reporting period (Centre for Eco-Toxicological Researches, Public Health Institute of Montenegro, and Institute for Strategic Studies and Projections).

1. PROGRAMME OF OFFICIAL STATISTICS 2014 – 2018

Organisation and affairs of the official statistical system, collection, processing, and storing statistical data, and other issues of importance for official statistics are regulated by this Law.

Pursuant to Article 21 and 22 of the Law, activities of official statistics are defined for five-year period based on the Programme, and in accordance with the Development Strategy of Official Statistics 2014 – 2018. The Programme is prepared by Statistical Office, in cooperation with other producers of official statistics, Central Bank of Montenegro, Ministry of Finance, Ministry of Science, Capital Market Authority, Tax Administration of Montenegro, Public Health Institute of Montenegro, Customs Administration, Health Insurance Fund, Pension and Disability Insurance. The Programme is based both on the needs of users, and EU requests mentioned in the document of Eurostat ‘Statistical Requirements Compendium’.

At the level of statistical system of Montenegro, under the Programme, there are defined 289 statistical activities of different periodicity, out of which 236 (or 82%) are under competence of Statistical Office, while other official statistics producers defined 53 (or 18%) statistical activities, implemented at the annual level through the Annual Plan of Official Statistics. A detailed overview of statistical activities is given in Table 1. At the level of statistical system of Montenegro, pursuant to the Programme of Official Statistics 2014 – 2018, planned statistical surveys are carried out at the annual level in accordance with the Annual Plan of Official Statistics.

Pursuant to the Programme, the area of official statistics is divided in five domains and statistical activities are accordingly defined (289): Demography and social statistics (82); Macroeconomic statistics (62); Business statistics (71); Agriculture, forestry and fishery statistics (54), and Environment and multi-domain statistics (20), a graphic illustration is given in Chart 1.

Analysing statistical activities by periodicity, the highest number of surveys has annual implementation dynamics - 159 (55%), quarterly 42 (15%), monthly 34 (12%), three-year 28 (10%), biannual 10 (4%), graphical illustration is given in Chart 2.

Table 1. Total number of statistical activities defined by the Programme, and implemented at the annual level through the Annual Plan of Official Statistics.

No	Name of official statistics producer	Statistical activities planned by the Five-Year Programme	Annual Plan of Official Statistics 2014	Annual Plan of Official Statistics 2015	Annual Plan of Official Statistics 2016	Annual Plan of Official Statistics 2017	Annual Plan of Official Statistics 2018
1	Statistical Office	236	171	189	159	166	173
2	Ministry of Finance	5	5	6	6	5	5
3	Central Bank of Montenegro	10	8	9	9	8	10
4	Public Health Institute of Montenegro	15	11	16	16	16	16
5	Tax Administration	5	2	6	12	12	6
6	Capital Market Authority	6	3	3	3	3	3
7	Health Insurance Fund	2	2	2	2	2	2
8	Pension and Disability Insurance Fund	2	2	2	2	2	2
9	Customs Administration	1	1	1	1	1	1
10	Ministry of Science				1	2	2
11	Real Estate Administration	1					
12	Ministry of Finance and Tax Administration	1					
13	Ministry of Finance of Montenegro, Statistical Office	1					
14	Statistical Office and Central Bank of Montenegro	1					
15	Statistical Office, Ministry of Finance	1					
16	Statistical Office, Ministry of Finance, and Tax Administration	2					
	Total	289	205	234	211	217	220

Chart 1. Statistical activities by domains, defined by the Programme.

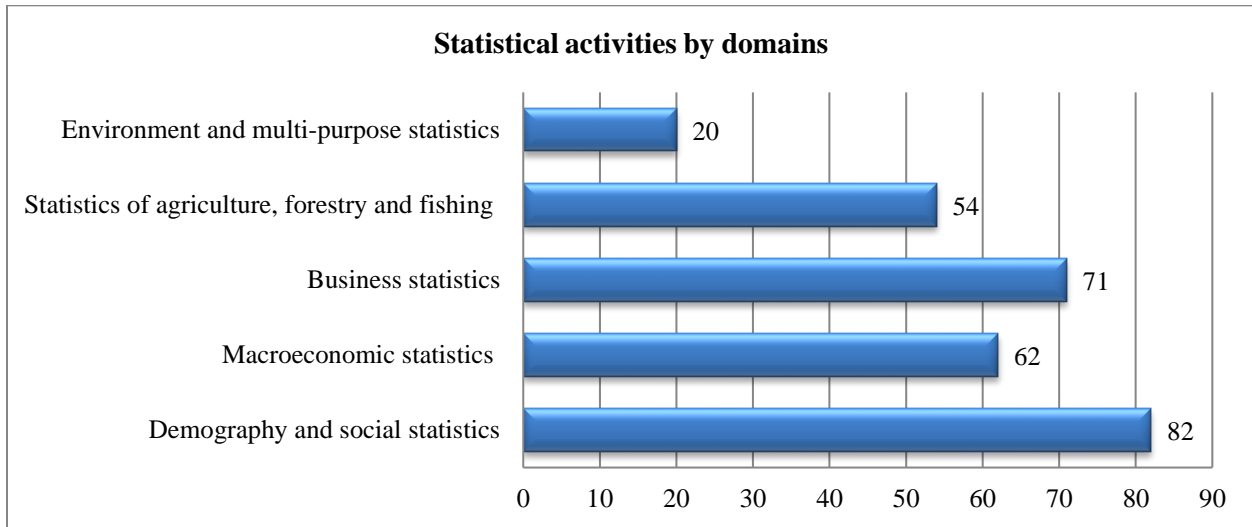
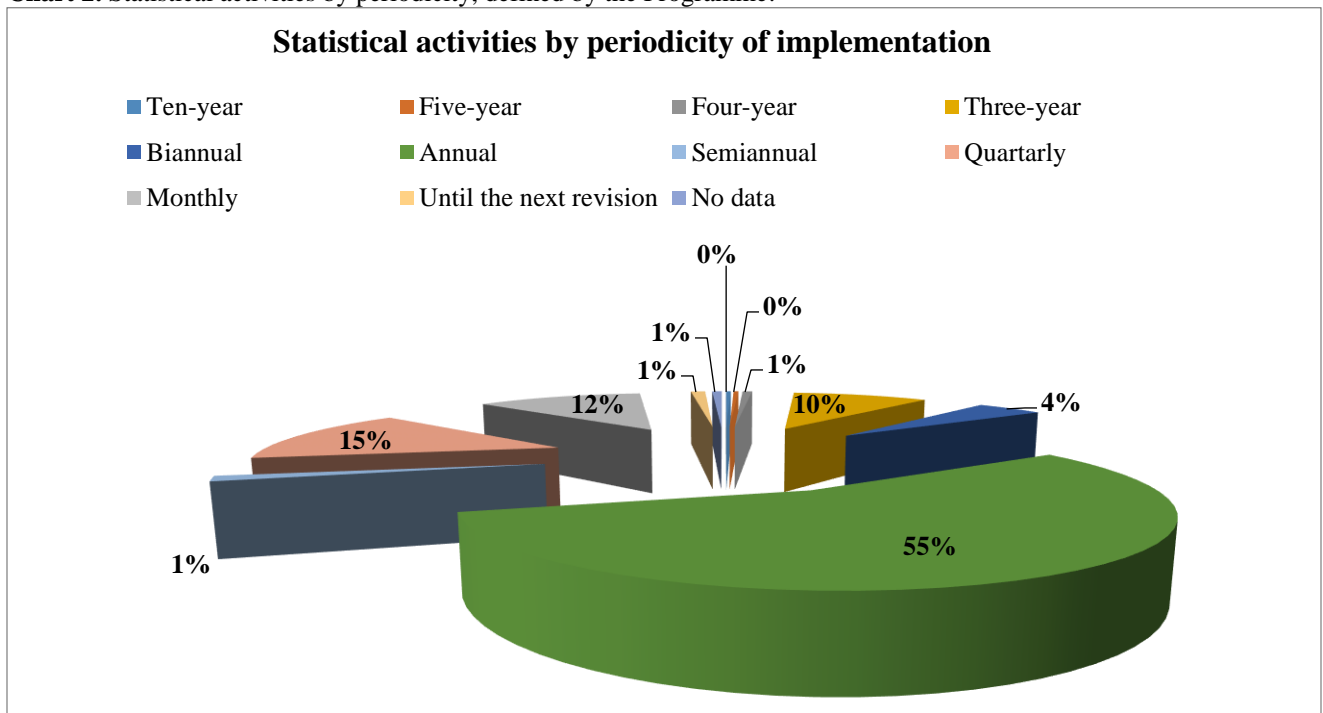


Chart 2. Statistical activities by periodicity, defined by the Programme.



With approval and assistance of Eurostat, Statistical Office became a direct holder of Grant contract under the IPA II multi-beneficiary (MB) programme (2014-2018) with its implementation since 2015. A special significance of this type of contract reflects in part that intended resources

of IPA MB projects are directly granted to national statistical institution to manage it. We especially point out that this type of contract provides additional financial resources for the Statistical Office which significantly affect faster development of official statistical system. Aimed at efficient use of donor resources through the Grant contracts, during 2015 Statistical Office established a system for preparation and implementation of Grant contract. Coordination and monitoring of system is done by Department for Implementation of International Statistical Projects. In the 2014-2018 period there were implemented two MB programmes in form of Grant contract.

In addition to the multi-beneficiary programmes, Statistical Office implemented two IPA national projects which covered all statistical areas and whose implementation significantly affected the improvement of official statistical system in Montenegro. Implemented projects are:

- IPA 2010 national project started in May 2013 up to May 2015.
- IPA 2013 national project started on 12 February 2016, with duration of 18 months.

In addition to the IPA programmes, Statistical Office also implemented a large number of other international projects. Since 2014 up to now, Statistical Office has implemented the projects as it follows:

- In September 2014, an agreement between UNDP and Statistical Office was signed with purpose of implementing the project ‘Biannual update report on climate changes’ with duration of 8 months. Statistical Office continued in 2017 to cooperate with the United Nations Development Programme (UNDP) office on the implementation of project ‘Biannual update report (BUR)’ which refers to updating of biannual report on climate changes. The project was implemented in period from 27 July to 15 December 2017. Statistical Office was engaged as one of several implementation partners, and aim of projects was to provide the assistance to Montenegro for integration of recommendation related to climate changes in national and sector development policies through strengthening of institutional and technical capacities which was partly started through the production of national reports on climate changes.
- Upon initiative of Energy Community Secretariat, and under project of strengthening energy statistics capacities, Statistical Office carried out an annual survey on consumption of energy products in industry, public and commercial sector in 2014. Upon proposal of Statistical Office from 1 December 2014, Energy Community Secretariat approved to fund

the project in the amount of envisaged budget, including technical assistance of consultant that performed monitoring of project implementation. Technical assistance and monitoring the use of dedicated resources for purpose of project implementation was done by the Energy Institute ‘Hrvoje Požar’ from Zagreb, in accordance with the Contract No UG-15-00034;

- In cooperation with UNICEF, Statistical Office has coordinated the data collection at the annual level for the needs of updating the TransMonEE databases. TransMONEE covers a broad range of data important for social and economic issues important for position and wellbeing of children, youth, and women in countries of CEE/CIS region. A coordinator for data collection – updating the TransMONEE database is Statistical Office, and data collection is done at the interinstitutional level in cooperation with several institutions. Within the cooperation achieved with UNICEF, Statistical Office also prepared analytical reports for Montenegro at the annual level in different domains of interest;
- Upon request of Ministry of Labour and Social Welfare, Statistical Office carried out the survey ‘From School to Work’ within the International Labour Organisation – ILO project. Statistical Office signed the agreement with ILO for period May-December 2015. Statistical Office took over carrying out the survey and transmitting its results to ILO. The target group of survey is young people aged 15-29 years, time and activities they spend from the time they enter the labour market until they find a ‘stable’ job. The project activities were finished according to plan, and data were transmitted to ILO within the planned deadline;
- During 2018, Statistical Office implemented the survey MICS developed by UNICEF. MICS survey in Montenegro 2018 and MICS survey in Roma settlements in Montenegro 2018 are carried out within the sixth round of MICS survey (MICS6). This survey provides information on children and women and measures key indicators which enable monitoring the progress toward Sustainable Development Goals (SDG), EU integration and other international obligations.

1.1. GENERAL DEVELOPMENT AIMS OF OFFICIAL STATISTICS

Within the mentioned five-year period, there are defined official statistics activities through an overview of official statistics development aims that refer to:

1. Harmonisation of official statistics of Montenegro with the EU *acquis* in area of official statistics:

Negotiations under Chapter 18 – Statistics cover the harmonisation of Montenegrin legislation with the EU *acquis* in area of official statistics. This area is considered very important, because positive changes that will arise from the successful negotiation process will have better quality, availability and credibility of statistical data as their results and basis for public policy creation. During the previous period, the work continued on the fulfilment of final benchmarks for Chapter 18 – Statistics in following areas: Macroeconomic statistics, National Accounts and prices; agriculture and environment; business statistics - tourism, energy, industry, construction, transport, living condition and income statistics and innovation statistics.

The transmission of key data continued in accordance with the detailed description of sources and methods to achieve process transparency and data quality, together with reaching a higher level of harmonisation with the EU legislation – a higher level of methodological harmonisation is achieved for all surveys in the statistical system of Montenegro, in accordance with the EU *acquis* in official statistics, and that further serves as an input for the calculation of macroeconomic data in line with the ESA 2010. An important number of additional inputs for fulfilment of key tables defined by benchmarks for closing chapters is provided with this. The data of the most important macroeconomic indicators are submitted in accordance with GNI Inventory document, thus an important level of obligations of first benchmark is fulfilled.

The highest level of quality is achieved in accordance with the European Statistics Code of Practice based on 15 principles (independence, objectivity, security, adequacy of resources, relevance, etc.). The Code is accepted through the Law, because of which it is assessed by EC as fully harmonised with the EU *acquis*. The harmonisation/implementation level is also confirmed through the Peer Review - assessment mission held at the end of 2018, and which shows that the highest level of quality is achieved in accordance with the European Statistics Code of Practice and all defined principles of European Statistics.

All data are submitted by the set deadlines, in accordance with the Transmission programme ESA2010, as well as through a software for data transmission (e-Damis). The infrastructure set in Statistical Office is additionally strengthened and the data are submitted to Eurostat.

A new working group for preparation and managing negotiation process on accession of Montenegro to European Union, for the EU *acquis* which refers to negotiation Chapter 18 - Statistics, was established on 26 July 2018 by the decision of the Government of Montenegro. The working group is consisted of 28 members, representatives of Statistical Office, other official statistics producers, administrative data source holders, academic community and civil sector.

In addition to Chapter 18 - Statistics, representatives of Statistical Office actively participate in the process of harmonising other chapters. Statistical Office is a member of 11 working groups for the rest of negotiation chapters, in accordance with the new decisions of the Government adopted during 2018:

- 1) Chapter 11 – Agriculture and rural development;
- 2) Chapter 12 – Food safety, veterinary and phytosanitary policy;
- 3) Chapter 13 – Fisheries;
- 4) Chapter 17 – Economic and monetary policy;
- 5) Chapter 18 – Statistics;
- 6) Chapter 19 – Social policy and employment;
- 7) Chapter 20 – Enterprise and industrial policy;
- 8) Chapter 22 – Regional policy and coordination of structural instruments;
- 9) Chapter 25 – Science and research;
- 10) Chapter 30 – External relations;
- 11) Chapter 33 – Financial and budgetary provisions.

Statistical Office defined legislative, strategic, and administrative frameworks from the aspect of existing situation and future plans under the Programme of Accession of Montenegro to the EU 2014 - 2018. All defined activities were implemented in line with the set deadlines. This activity also considered the assessment of relevance of given CELEX numbers, both to Chapter 18 – Statistics, as well as to CELEX numbers in other chapters given to other negotiation chapters referring to official statistics.

Statistical Office prepared the *Information on Plan for Fulfilment of Benchmarks for Closing Negotiations in Negotiation Chapter 18 - Statistics*, defining with these key activities on fulfilment of benchmarks as well as key challenges for further integration process. The Information on Plan for Fulfilment of Benchmarks for Closing Negotiations in Negotiation Chapter 18 - Statistics, was adopted by the Government of Montenegro on 26 July 2018.

2. Quality management through monitoring the implementation of the European Statistics Code of Practice:

Statistical Office is strongly devoted to the official statistical data quality, and adopted a new quality policy during the mentioned five-year period, which is fully aligned with the European Statistics Code of Practice and Total Quality Management – TQM principles. Herewith, Statistical Office published on its website the documents as it follows:

- *Commitment on Confidence in Official Statistics* (adopted at the 64th session of the Government of Montenegro on 22 February 2018);
- *Quality Declaration* was adopted with purpose of ensuring the quality of official statistics data, which is in accordance with Quality Policy and principles of official statistics of Montenegro. The purpose of official statistics is a continuous development, production, and dissemination of statistical data in accordance with the European Statistics Code of Practice;
- *Quality Policy* is the document where it is described how Statistical Office ensures quality, using mission and vision, as well as operative aims;
- *Dissemination Policy* is the key document of Statistical Office that refers to the dissemination of official statistics data. All strategic acts and documents in area of dissemination aimed at informing users on activities in area of dissemination are defined on the basis of this policy;
- *Quality Management Strategy*, as a strategic development document in area of ensuring the quality in the statistical system of Montenegro, with purpose to implement and use of TQM principles;
- *Guide for Implementation of Quality Management Strategy* provides practical suggestions to staff member for the implementation of Quality Management Strategy. Its focus is on

providing instructions for the implementation of quality management aims in Statistical Office;

- *Implementation Plan* for carrying out the quality policy creates preconditions for an appropriate implementation of TQM principles in Statistical Office;
- *Revision policy* which defines general rules for revision of published official statistics data, manner of informing users related to possible causes of revision, categorisation of revision and documentation that cover all aspects of revision. It is important to point out that the revisions are done in the interest of users, because the primary aim of statistics is to ensure timely the data which are reliable to the extent permitted by available data sources. In accordance with the Revision Policy, adopted were both *Procedure on Unplanned Revisions*, and *Instructions for Preparation and Publication of Statistical Release Calendar*.

The mentioned strategic documents are available for the users of official statistics data at the official website of Statistical Office, www.monstat.org.

Under the quality policy, there is also developed a quality report system, and accordingly *Form and Instructions for Producing Quality Report for Users and Producers*. This system is an instrument for monitoring a relevant group of quality indicators for a certain period, aimed at the identification of areas which need quality improvement. To implement the report, there is used the Eurostat's guide and handbook '*ESS handbook for Quality reports*'.

Under defined quality policy, Statistical Office for the first time carried out:

- *Survey on User Satisfaction* with purpose to define the satisfaction of users with the quality of statistical data and new needs of users. Indicators obtained with this survey will enable the official statistics producers to look more realistically at users' needs;
- *Survey on Staff Satisfaction* with purpose to monitor the level of satisfaction of staff in the continuity. The dynamics in carrying out the survey is biannual.

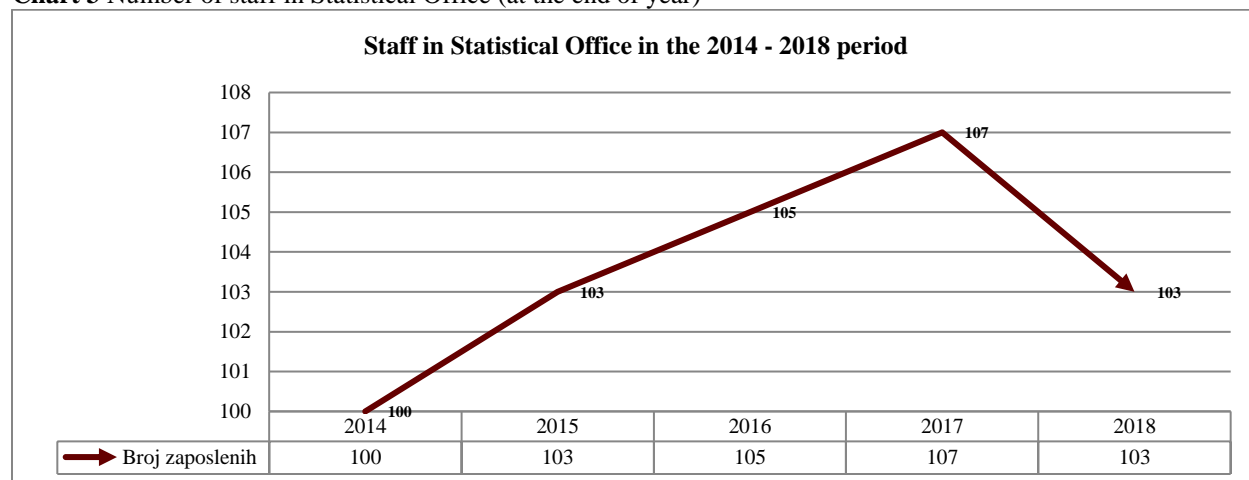
The introduction of quality management system and quality policy improves quality of statistical processes, final results and user satisfaction. Constant progress activities within coherent and organized system lead to higher efficiency of production process and quality increase of very statistical results.

From 29 October to 2 November 2018, there was held the Peer Review (mission of Eurostat), with the aim to determine the harmonisation level of statistical system of Montenegro with the European Statistics Code of Practice. This mission was participated by approx. 80 representatives of Statistical Office, other official statistics producers, administrative data providers, data users, international users, and media, with whom the experts engaged on this occasion held meetings. The main conclusions of this mission show that Statistical Office and statistical system of Montenegro possess a fully harmonised legislative framework, ensure professional independence with high level of quality, data confidentiality, and objectivity in the work.

3. Strengthening administrative capacities through continuous development of human resources to ensure sustainability of official statistics:

The Rulebook on Internal Organization and Job Descriptions of Statistical Office (No 01-2338 of 4 September 2014) envisages 200 civil servants and state employees' posts. The current number of staff in Statistical Office is 103.

Chart 3 Number of staff in Statistical Office (at the end of year)



At the beginning of 2014, there were 104 staff members in total in Statistical Office; staff fluctuations are observed during the five-year period, due to leave to retirement of staff members or due to mutual agreement terminations (a significant leave of high educated and trained statisticians was present due to better conditions in private sector). At the end of 2014, there were 100 staff members in total in Statistical Office.

Based on the public advertisement in 2015, there were 2 assistant directors nominated in Statistical Office – high education staff and 4 members employed at the permanent basis, as well as 1 member on a temporary basis – trainee. But, during the year, there were 3 staff members who left Statistical Office (age retirement). At the end of 2015, in total 103 staff members were employed in Statistical Office.

Based on the public advertisement 2016, in Statistical Office there were 5 staff members employed based on permanent basis. But, in the same period, 3 staff members left Statistical Office (age retirement, end of traineeship and mutual agreement termination). At the end of 2016, Statistical Office employed in total 105 staff members.

Based on the public advertisement in 2017, there were employed 5 staff members in Statistical Office on the permanent basis. Three staff members left Statistical Office during 2017 (disability pension and mutual agreement termination). At the end of 2017, in total 107 staff members were employed in Statistical Office.

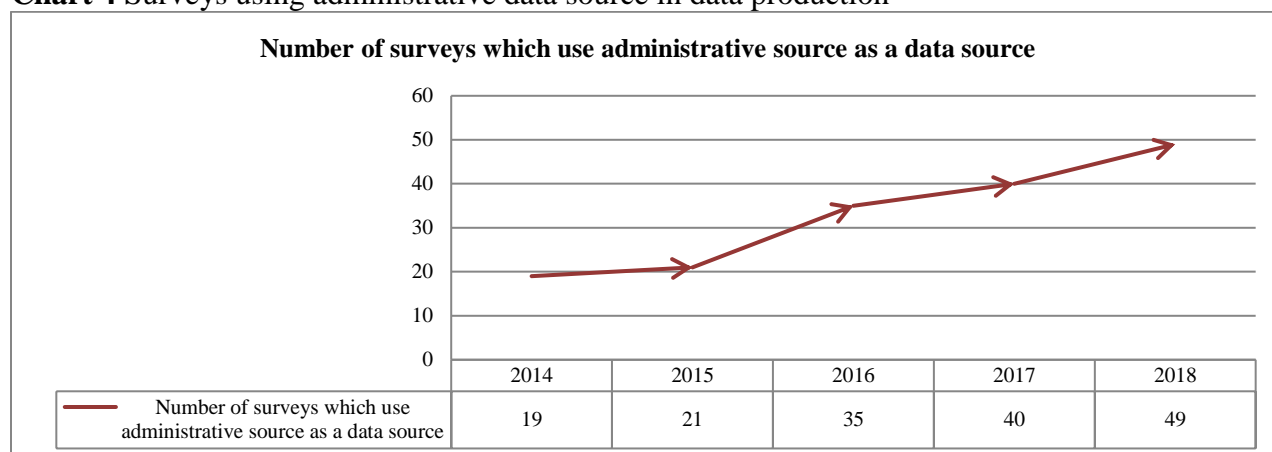
During 2018, there were 4 staff members who left Statistical Office (death, age retirement, mutual agreement termination and end of mandate). At the end of 2018, in total 103 staff members was employed in Statistical Office.

The Conclusion of the Government Montenegro (No 07-3481 of 6 July 2018) adopted the Montenegro Public Administration Optimisation Plan 2018 - 2020, according to which employment (both with permanent and temporary basis) was stopped up to 1 July 2019.

4. Increased use of administrative sources aimed at reducing costs and burden of reporting units:

Interinstitutional cooperation with other official statistics producers and administrative data providers are especially important for the harmonization process of Montenegrin legislation with the EU *acquis* aimed at coherence and completeness of system, as well as use of standards classifications and definitions in statistical data production.

Statistical Office signed 22 agreements on cooperation with administrative data providers in the previous period, and in this way reduced the PAPI method use percentage (pencil and paper interview method for data collection), and increased the use of administrative sources from 22% in 2019, to 9% in 2014.

Chart 4 Surveys using administrative data source in data production

Operative aim defined by the Development Strategy of Official Statistics 2019 – 2023 *Creating new data sources for official statistics production* is only a continuation of aim defined by the Development Strategy of Official Statistics by which is wanted an increased use of administrative sources to be achieved.

5. Improvement of organization and control of statistical processes by introduction of modern technologies:

During the observed five-year period, Statistical Office modernized the data collection by introducing new methods: CAWI (Computer-Assisted Web Interview) and CAPI (Computer-Assisted Personal Interviewing).

- CAWI (Computer-Assisted Web Interview) method for data collection refers to electronic questionnaires where reporting units are legal persons. The web portal for entering electronic questionnaires has been developed. The portal can be accessed via website: <http://upitnik.monstat.org/unos/>. By filling the questionnaire at the website, reporting units directly enter the data in the database, thus additional entering is not necessary. This method for data collection has been developed in the following statistical areas: energy, agriculture, tourism, hotels and restaurants, and internal trade;
- CAPI (Computer Assisted Personal Interviewing) method refers to the data collection by using laptops. This method is used for interview-based surveys where reporting units are households. This method for data collection has been developed in the statistical areas as it follows: agriculture, economic accounts in agriculture, and information and communication technologies statistics.

6. Strengthening coordination role of Statistical Office in statistical system:

Aimed at more efficient coordination of official statistical system, increased use of administrative sources and reducing the costs in Statistical Office, a new sector, Sector for Coordination of Statistical Data Source, has been established. The primary role of Sector is coordination over statistical system, i.e. cooperation with other official statistics producers, cooperation with administrative data providers, and cooperation with business sector aimed at increased quality of data source for the production of official statistics.

Continued improvements of mutual cooperation with other official statistics producers and administrative data providers are of key importance for the harmonisation process of Montenegrin legislation with the EU *acquis* aimed at coherence and completeness of the system as well as implementation of standard classification and definitions in establishing statistical indicators.

In this manner, the coordination role of statistical system has been strengthened through:

- Negotiation structure established for Chapter 18 - Statistics;
- Structure for official statistics data production defined by the National Strategy for Sustainable Development up to 2030, and in accordance with the Programme. In this sense, one of indicators in this area is an increased availability of indicators and improved ranking of Montenegro in the database for the UN sustainable development indicator list; and
- Improvement of cooperation with other official statistics producers.

During 2017, Statistical Office implemented activities that referred to the observation of possibilities to conduct a register-based census of population, households, and dwellings 2021 in Montenegro. An important activity is to determine availability and quality of data in the existing registers, primarily in Central Population Register which has been under the competence of Ministry of Interiors since January 2017. As an obstacle for closing Chapter 18 – Statistics, there was recognised a problem of conflict of laws of which the 2021 Population, Households, and Dwellings Census will depend. This was also pointed out by high commissioners of the European Commission to the representatives of the Government of Montenegro. Resolving of the conflict of laws that currently disable the access to the existing registers, and thus calling into question carrying out the register-based 2021 Population, Households, and Dwellings Census is the first step in solving this problem.

In order to exercise Statistical Office's right to use necessary data from the administrative data sources with identifiers, as well as the right to integrate these administrative source with official statistics, which are necessary for development, production, and dissemination of official statistics, during 2017 there were proposed amendments to the set of laws to (Law on Protection of Individual Data, Law on Foreigners, Law on Central Population Register). It is important to stress the importance of access to these data which will enable the implementation of register-based 2021 Census of Population, Households and Dwellings, and note that state institutions are well on track to achieve higher quality of state records. This will be an important step on the way to the European integration for all chapters of negotiation process. Statistical Office is an institution whose work is based on the law that is fully aligned with the European standards and devoted to the protection of individual data. Accordingly, the second activity which referred to the implementation of register-based 2021 Population, Households, and Dwellings Census is the establishment of Address Register under competence of Real Estate Administration. This register will enable increased quality of work and reduced business costs of large number of institutions at government and local government level, public and private enterprises, but also it will enable easier and faster access to necessary data for all interested users. The importance to establish the Address Register is recognised in the following domains: demography, economy and territorial statistics; spatial planning; performing of affairs under competence of: police, military, tourism, health, education, etc. The Register is also important for the improvement of e-government. The Government of Montenegro established a commission that is engaged in monitoring the implementation of these activities.

Based on the national request for data on immigrants, Statistical Office established the cooperation with Administration for Diaspora. The topic of cooperation refers to the production of methodology, that will enable the production of data on immigrants, in accordance with the Law on Cooperation of Montenegro with Immigrants (Official Gazette of Montenegro No 47/15), using the existing records.

7. Development of dissemination in line with development of information technologies and strengthening communication with users:

To improve dissemination and access for users is one of strategic aims of Statistical Office for the 2014 – 2018 period. The results of strategic work on improving the manner of dissemination of official statistical data, as well as relation with users during the five-year period are visible through the following activities:

- ***Overview of data on the official website of Statistical Office is improved:*** data selection is possible according to the given criteria, data download in Excel, pdf and xml form. Additionally, a chart view of selected data exists;
- ***25 publications printed and published, 996 releases published*** with monthly, quarterly, and annual periodicity, in the 2014 – 2018 period;
- ***2 937 users' requests in total were responded.***

Chart 5. Number of responses to user requests

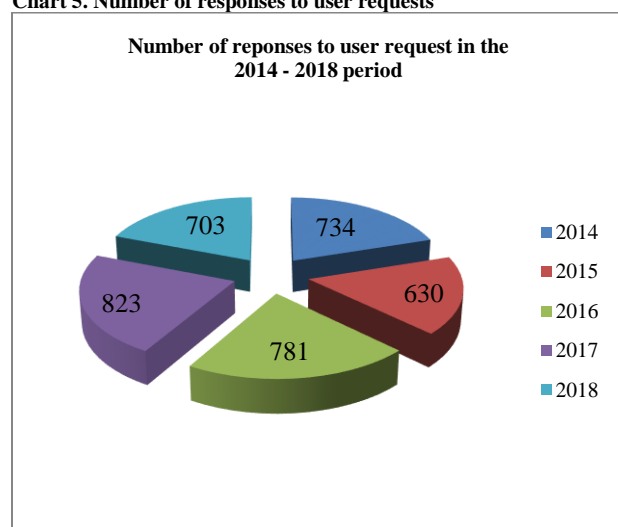
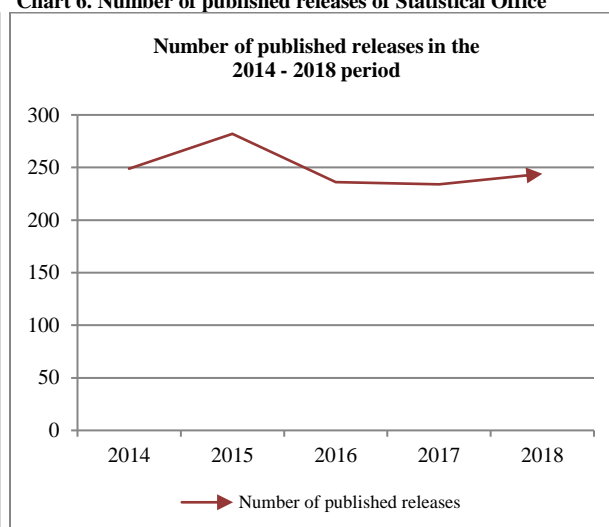


Chart 6. Number of published releases of Statistical Office



Statistical Office for the first conducted the user satisfaction survey in 2017. The survey results serve as a basis for continuous work on the increase of data and service quality, as well as to produce action plans in area of ensuring quality of Statistical Office's work. In the same time, this survey represents a step for strengthening the communication with data users aimed at meeting their needs. Based on the obtained data, Statistical Office has produced the *Action Plan for Implementation of Suggestions* provided by users to improve work and services provided by

Statistical Office. The total average assessment grade of users' satisfaction with services of Statistical Office is scaled from 1 to 5 (1- unsatisfied, 5-very satisfied) is 4.0, i.e. 54.2% of respondents assessed the satisfaction with Statistical Office with 4 or more. Survey periodicity is defined as biannual, while survey results are published at the official website of Statistical Office.

Statistical Office prepared the draft of the Programme of Official statistics 2019 - 2023, which was available to all official statistics users in period from 31 July to 5 September 2018. During this period, users were able to submit their suggestions and proposals via official website of Statistical Office, www.monstat.org where is created a banner (icon). Using the banner, interested users could download the 2019-2023 Programme of Official Statistics draft, form for sending proposals, amendments to the 2019-2023 Programme of Official Statistics draft, and Guideline for fulfilment of form. The total number of received proposals was 66 from 42 institutions and natural persons.

Ministry of Science has issued a work licence to Statistical Office for the implementation of scientific and research activities in area of social sciences on 10 July 2017. Thus, it confirmed that as the statistical leader, Statistical Office is obliged to collect data, process, and dissemination of Montenegrin statistics perform in professionally independent, transparent and highly expert manner.

Statistical Office has been continuously worked on strengthening of communication and cooperation with non-governmental organizations as well as with scientific and research institutions. Thus, Statistical Office signed in the previous five-year period three agreements of on cooperation with scientific and research institutions (Centre for Eco-Toxicological Researches, Public Health Institute and Institute for Strategic Studies and Projections), aimed at improving the quality of its work. Increasing cooperation of Statistical Office and general public is one of important aims in future work so that the work the Statistical Office performs would become more transparent, more visible to public, both national and international.

1.2. SECTOR DEVELOPMENT AIMS OF OFFICIAL STATISTICS

DEMOGRAPHY AND SOCIAL STATISTICS

Under demographic and social statistics there are statistical surveys which cover the following statistical areas: population, culture, justice, labour market, living conditions, social services and household consumption, as well as statistics for ICT survey, development and innovation.

Table 2. Statistical activities defined by the Programme from domain of demography and social statistics

Code	Statistical domain	Number of planned statistical activities by domain	Number of implemented statistical activities by domain	Official statistics producer
1.01.	Population	9	9	Statistical Office
1.02.	Labour market	8	8	Statistical Office
1.03.	Education and lifelong learning	21	21	Statistical Office
1.04.	Culture	9	9	Statistical Office
1.05.	Health and protection	15	15	Public Health Institute of Montenegro and Health Insurance Fund
1.06.	Distribution of income and living standard	4	4	Statistical Office
1.07.	Social protection	12	12	Health Insurance Fund/Pension Insurance Fund, Statistical Office
1.10.	Crime and justice	4	4	Statistical Office
	TOTAL	82	82	

An overview of the most important development priorities and achieved results in area of social statistics follows below:

1. Change from reporting methods to administrative sources:

During the five-year reporting period from 2014 to 2018, in domain of demography and social statistics, there were adopted seven agreements on cooperation in area of justice, education, electronic media. The data from the Register of Ministry of Education are used for the production

of preschool, primary and secondary education statistics. High education statistics is partly produced from the University of Montenegro register on students. Statistics of electronic media replaced the statistics of radio and television, and the data source is the register of Agency for Electronic Media.

2. Establishment of international migration and asylum statistics:

Asylum statistics is established and data are regularly transmitted in accordance with the dynamics (monthly, quarterly, and annual) determined by the Regulation No 862/2007 of the European Parliament and of the Council of 11 July 2007 on Community statistics on migration and international protection and repealing Council Regulation (EEC) No 311/76 on the compilation of statistics on foreign workers.

3. Strengthening capacity aimed at more efficient organization of surveys with households as reporting units, and to increase response rate and collected data quality:

Aimed at better quality of data collected and increase of response rate for surveys carried out in households, measurement errors are mainly monitored through questionnaire structure and logical order of asking questions. In addition, the influence on quality also has a regular holding of training for interviewers and logical control of data entered.

4. Preparation for the 2021 Census of Population:

In the reporting period, Statistical Office prepared and submitted to the Government of Montenegro 2 pieces of information considering the preparations for the register-based Census of Population, Households, and Dwellings 2021. Preconditions for implementation of the census and measures for meeting preconditions are defined.

5. Harmonization of existing surveys in accordance with the Eurostat methodological recommendations:

In reporting period, continuous improvements were done within data contents in domain of migration, education, culture and other social statistics. Additionally:

- Data on relative poverty line were published for period of five years (2013 – 2017) following the Eurostat methodology (EU-SILC);

- New rotation scheme of sample design 2-(2)-2 was used in Labour Force Survey;
- Labour costs survey implemented in line with the survey dynamics (four-year survey);
- Quality analysis of databases from administrative source was done aimed at observing possibilities to use the same source both for production of vacancy statistics, and for production of earnings statistics from administrative sources (pilot surveys).

6. Establishment of ESSPROS database (European System of integrated Social Protection Statistics):

A cooperation with administrative data providers in area of social protection - ESSPROS statistics has been established. Reporting units, social protection programmes and sources of their funding in Montenegro were identified, as well as data collected for the 2013 – 2017 period.

MACROECONOMIC STATISTICS

During the 2014 – 2018 period, activities on further harmonization of National Accounts – NA of Montenegro with the EU standards were implemented.

Table 3. Statistical activities defined by the Programme in domain of macroeconomics statistics

Code	Statistical domain	Number of planned statistical activities by domain	Number of implemented statistical activities by domain	Official statistics producer
2.01.	Annual sector accounts	13	13	Statistical Office/ Customs Administration
2.02.	Quarterly accounts	4	4	Statistical Office/Central Bank of Montenegro/Ministry of Finance
2.03.	Monetary and financial statistics	11	11	Central Bank of Montenegro/Capital Market Administration
2.04.	Government finance statistics	11	11	Ministry of Finance /Statistical Office/Central Bank of Montenegro
2.05.	Monitoring own resources	3	3	Ministry of Finance /Tax Administration/Statis tical Office
2.06.	Prices	10	8	Statistical Office
2.07.	International trade of goods	5	4	Statistical Office
2.08.	International trade and Balance of Payments	5	5	Central Bank of Montenegro
	TOTAL	62	59	

- Under statistical area *Annual Sector Accounts*, all planned surveys were implemented;
- Under statistical area *Quarterly Accounts*, all planned surveys were implemented;
- Under statistical area *Monitoring own resources*, Statistical Office implemented the survey *GNI macroeconomic aggregate calculation* under its competence;
- Under statistical area *Prices*, eight surveys in total were implemented, of which five regular and three new pilot surveys. Owner Occupied Housing – OOH survey was not implemented due to lack of human resources and appropriate administrative data sources.

Having in mind that relevant regulations in area of prices do not require the implementation of survey '*Report on price convergence according to Maastricht criteria*', and due to a lack of demand by users, it was withdrawn;

- Under statistical area *International trade of goods*, four out of five planned statistical surveys were implemented. It has not been worked on the introduction of INTRASTAT system, since its implementation is postponed for the next period.

1. Harmonization of national accounts with ESA 2010 methodology

During 2015, the ESA 2010 methodology was implemented, and data on annual Gross Domestic Product (GDP) and Gross National Income (GNI) for the 2010-2014 period were published in line with the ESA 2010 methodology.

2. Production of the first Supply and Use Tables - SUTs:

During 2014, there was carried out the *Survey on Structure of Income and Expenditures of Business Entities and Entrepreneurs* (SPIR) for needs of producing SUT. Results of this survey were used for the production of experimental SUT for reference year 2013.

3. Improvement of quarterly GDP – QGP calculation through improvement of existing and development of new data sources:

The calculation of QGDP by expenditure approach was introduced in 2015, and ESA 2010 methodology implemented in the QGDP calculation in December 2015. Through the IPA MB programme, administrative source identification was done and development of production method for QGDP calculation.

4. Development of coordination and cooperation between institutions that under their competence collect and publish macroeconomic statistics within the implementation of ESA 2010 methodology:

In May 2016, the Agreement on Cooperation was signed in area of National Accounts – government finance statistics and related statistics, between Statistical Office, Central Bank of Montenegro, and Ministry of Finance.

5. Preparation for introducing INTRASTAT in international trade in goods statistics:

In area of international trade statistics, a progress was achieved in methodological development for two expected statistical results: experimental process of foreign trade of Montenegro by enterprise characteristics for 2014 and foreign trade of Montenegro by invoice values, i.e. values in currency for the 2014 - 2017 period.

Considering that INTRASTAT system is compulsory for the EU member countries, preparation activities for the work on introducing the mentioned system in international trade in goods will be implemented in the next period.

6. Development of additional surveys in price statistics

In observed five-year period, Price Statistics Department implemented eight surveys in total, out of which five surveys are regular and three surveys are new pilot surveys. Owner Occupied Housing Price Index survey was not implemented due to a lack of human capacities and appropriate administrative data sources. Having in mind that relevant regulations in area of prices do not require the implementation of survey '*Report on price convergence according to Maastricht criteria* ', and due to a lack of demand by users, it was withdrawn.

In accordance with Regulations EC No 93/2013 and 119/2013, pilot surveys Harmonized Index of Consumer Prices at Constant Tax Rates and House Price Index were partly implemented, having in mind also that under current IPA project, the work on their experimental calculation continued to harmonize further with the European standards. Harmonized index of consumer prices at administrative prices is fully implemented, representing one more step forward in the harmonization process of price statistics with the EU laws.

BUSINESS STATISTICS, REGISTERS AND CLASSIFICATIONS

During the 2014 – 2018 period, activities on further harmonization of business statistics with the EU standards were implemented.

Table 4. Statistical activities defined by the Programme in domain of business statistics, registers and classifications

Code	Statistical domain	Number of planned statistical activities by domain	Number of implemented statistical activities by domain	Official statistics producer
3.01.	Annual business statistics	6	6	Statistical Office
3.02.	Short-term business statistics	20	19	Statistical Office
3.03.	Energy	9	9	Statistical Office
3.04.	Transport	23	21	Statistical Office
3.05.	Tourism	10	9	Statistical Office
3.06.	Business register	3	3	Statistical Office
	TOTAL	71	67	

The Programme in domain of business statistics envisaged the implementation of 71 surveys. Out of envisaged number of surveys, there were implemented 67 surveys (94.4%), while 4 surveys were not implemented (5.6%). In part 1.3 Achieved results of official statistics by domain (Domain 3) there are provided in details achieved results in the implementation period of the Programme, as well as reasons for not implemented certain surveys.

The overview of the most important development priorities and achieved results in area of business statistics, registers and classifications is the following:

1. Further harmonization of short-term statistics in accordance with the international standards

Under the implementation period of the Programme, a number of short-term indicators was introduced in accordance with the main Regulation No 1165/98 that defines the domain of short-term business statistics. The survey in domain of hotels and restaurants was withdrawn and included in the survey on turnover in services, in line with the EU laws.

Data collection method changed from the traditional method (reporting method via post) to the method of data collection via Internet application (e-questionnaires). E-questionnaires were introduced for the retail trade statistics survey, tourism and short-term energy statistics;

Statistical processes which represent horizontal activities were improved, and contributed to improve the quality of short-term business statistics. Metadata, quality reports, and databases for the transmission to Eurostat in SDMX were prepared;

The process on calendar and seasonal adjustment of short-term indicators started. Calendar and seasonal adjustments were performed in statistics of construction, retail trade and service activities.

2. Continuation of activities on development of quality, especially Business Register update

Four special surveys for needs of updating Statistical Business Register were implemented. These statistical surveys are the only source for determining primary activity of new established unit or for discovering a change of primary activity of valid unit, as well as for determining enterprise group. All of these surveys were done on the total coverage and were carried out due to a lack of appropriate administrative sources for these data which are necessary according to the EU laws. A continuous work on profiling complex enterprises and group of enterprises has started. *Guide for International Profiling* has been produced. Also, three publications were done with the data from Statistical Business Register, as it follows:

- *Number and structure of business entities in Montenegro;*
- *Number and structure of business entities with foreign ownership in Montenegro;*
- *New and inactive business entities, and*
- *Analysis of Business Entities by Municipalities and Sectors.*

A continuous work has been done on monitoring the quality of data from the Business Register. The quality of data provided from administrative source regarding accuracy and coverage has been improved. Additional data sources have been used to expand the coverage of units or variables, and it has to be point out the importance of previously done detailed analysis of administrative sources and data availability. Having in mind that Statistical Business Register is used as a sample frame for statistical surveys, it is necessary that the infrastructure created between register and

statistical surveys is two-way, so that the data from surveys can be used for the register update at the same manner, as the data from administrative sources. Reports on Statistical Business Register's quality were done every year and were sent to Eurostat.

3. Continuous monitoring and adoption of international statistical classifications in all statistical domains

Statistical classification of products by activity - CPA 08, necessary for SUT production, was introduced. CPA 2008 is the European classification which is equivalent to the World Central Classification of Products (CPC Ver.2). Additionally, the Degree of Urbanization - DEGURBA classification, which is used for the production of data at urban and rural level was introduced and it was done for six municipalities.

AGRICULTURE, FORESTRY AND FISHERY STATISTICS

In the 2014 – 2018 period, activities in domain of agriculture, forestry and fishery statistics were implemented with the aim to further harmonize with the EU standards, At the end of this period, agriculture, forestry and fishery statistics cover: production statistics (crop statistics, livestock, meat and eggs statistics, milk and milk product statistics), structural statistics, organic statistics, agro-environmental, forestry, as well as agro-monetary statistics.

Table 5. Statistical activities defined by the Programme in domain of agriculture, forestry and fishery statistics

Code	Statistical domain	Number of planned statistical activities by domain	Number of implemented statistical activities by domain	Official statistics producer
4.01.	Agricultural production	20	10	Statistical Office
4.01	Agricultural production	1	1	Public Health Institute of Montenegro
4.02.	Agricultural structure	1	1	Statistical Office
4.04.	Agricultural accounts and prices	6	6	Statistical Office
4.05.	Forestry statistics	22	21	Statistical Office
4.06.	Fishery statistics	3	5	Statistical Office
4.07.	Agro-environmental statistics	1	1	Statistical Office
	TOTAL	54	45	

In statistical domain of agriculture, forestry and fishery, the 2014-2018 Programme of Official Statistics envisages the implementation of 54 surveys. Out of planned surveys, there are 53 surveys under competence of Statistical Office, out of which there are nine surveys redesigned in 2014. Redesigning of statistical surveys in area of crop production considered merging 9 statistical surveys in 3 surveys due to change in data collection method, adoption of international recommendations, reducing burden of reporting units, and increase in number of obtained data.

In forestry statistics, *Survey on Fuelwoods in Households* was not implemented due a lack administrative capacities.

Table 6. Redesigned surveys in agriculture

Name of statistical survey planned by Annual Plan of Official Statistics for 2014	Name of new statistical surveys in 2014
Survey on planted areas in autumn sowing	Survey on sown areas in spring sowing Survey on harvested areas, achieved yields of crops, fruit, and grape Survey on achieved yields of early crops and prognoses of late crop yields
Survey on vegetable and flower production in protected areas	
Survey on areas by cadastre municipalities	
Survey on areas and sowing at the end of spring sowing	
Survey on expected yields of early crops and fruit	
Survey on achieved yields of early crops and fruit and expected yields of late crops	
Survey on expected yields of late crops and fruit	
Survey on achieved yields of late crops, fruit and grapes	
Survey on production and processing citrus fruit	

In area of fishery statistics, one survey is redesigned in three which were produced as a result of work of Working Group for Fishery, in accordance with the signed Agreement on Cooperation with Ministry of Agriculture and Rural Development.

Table 7. Redesigned surveys in fishery

Name of planned statistical surveys	Name of new statistical surveys
Report on fishery in rivers, lakes and ponds	Report on fishery in rivers and lakes
	Report on catch of fish in fishponds - aquaculture
	Report on catch of fish and shellfish - mariculture

Overview of the most important development priorities in area of agriculture, forestry and fishery:**1. Quality management in accordance with new European Statistics Code of Practice****Crop production statistics**

In 2014 the data collection method was changed in area of crop production statistics, i.e. from estimate to interview method, what caused the reduced number of surveys. By introduction of three new sample surveys in crop production, the international recommendations were adopted, reporting units' burden was reduced, and number of obtained data was increased.

Aimed at the harmonization of crop production statistics with the Regulation (EU) No 543/2009 of the European Parliament and Council on crop statistics, the recalculation of data series for the 2007 – 2013 period, and data are submitted to Eurostat via e-DAMIS web portal. The data in area of crop production statistics are regularly submitted to Eurostat.

In crop production statistics, aimed at quality management, the first quality report for 2016 was done for the survey on achieved yields on late crops, fruit, and grapes. The report is published on the official website of Statistical Office.

Livestock statistics

In domain of livestock statistics, the CAPI method was applied in the data collection for the Annual Report on Livestock of Agriculture Holdings (Survey on Number of Livestock), firstly for two municipalities, and then for three municipalities (Podgorica, Danilovgrad, and Ulcinj). In this area, the modification of questionnaire and methodology was done upon the proposal of experts in area of livestock, aimed at obtaining more complete data and producing gross domestic meat production. Livestock, meat and eggs statistics are harmonized with the Regulation (EZ) No 1165/2008. The data from statistical survey 'Monthly report on slaughtering livestock and poultry in slaughterhouses until December 2014' were quarterly published, from January 2015 at monthly level, while since January 2016 they have started to be presented through releases, not only in absolute amounts, but also as indices, month per month of previous year, previous month and compared to the average of previous year. The data on entering raw (cow) milk in diaries and obtained dairy products are interviewed at the same manner since January 2016. Annual data on

entering raw milk and obtained dairy products in dairies are regularly collected, as well as data for other annual surveys for national needs. Milk and milk products statistics has been harmonized with Directive 96/16/EC and Decision 97/80/EC. In area of livestock statistics, the Survey on Activities in Incubators due to their non-existence.

Fishery statistics

A progress was achieved in the domain of fishery. Namely, since 2017 the estimation method was replaced, and data collection on sea fish catch is based on administrative data source obtained from the Ministry of Agriculture and Rural Development, in accordance with the Law.

Agricultural accounts and prices

In area of agriculture accounts and prices aimed at quality management, the first quality report for 2016 was produced for Survey on Sale of Agricultural Products. The report was published at the official website of Statistical Office.

Forestry statistics

In area of forestry statistics, with aim to manage the quality, there was produced the first quality report for 2016 for Survey on Production of Forest Assortments in State Forests. The report is published at the official website of Statistical Office.

Development of new surveys

Structural statistics

In 2016, Statistical Office successfully implemented a pilot Survey on Agricultural Holdings' Structure. In line with the Regulation (EC) No 1166/2008, the main Survey on Agriculture Holdings' Structure was conducted for the first time in November 2016. Preliminary results of implemented survey were for the first time published at the official website of Statistical Office and within the deadline submitted to Eurostat via e-Damis web portal in line with requests for data submission (Manual for Data Suppliers).

In July 2018, an interinstitutional working group was created for the needs of calculation of the Standard Output for 2013 (SO 2013), in accordance with the document (Typology Handbook RI/CC 1500, rev. 4). Under the working group, with expert assistance, the calculation of Standard Output is being continuously done for 2013.

Crop production statistics

Pilot survey on vineyard –grapevine structure for other purpose was carried out in November 2014, pursuant to the Annual Plan of Official Statistics for 2014. The survey was harmonized with Regulation (EU) No 1337/2011 of the European Parliament and Council of 13 December 2011 concerning European statistics on permanent crops. The Annual Plan of Official Statistics for 2015 is planning the implementation of Survey on Structure Vineyards – Grapevines for other purposes which was not implemented due to inability to updated the Statistical Register of Agricultural Holdings from administrative sources.

In area of crop production statistics, the pilot project – annual crop production statistics was implemented via IPA 2014 MB project. Possibilities for improvement, administrative data source use aimed at improve the data quality were observed during the project. Additionally, a possibility for a change to CATI method (Computer-Assisted Telephone Interviewing) was examined to collect the data on crop production.

Through IPA 2015 MB project, the pilot survey on vegetable was implemented in 2018. During the project, a possibility to use CAPI method in crop statistics data collection was explored.

Livestock statistics

Within IPA 2015 MB project in 2017, by using the statistical principle of reducing reporting units' burden started with the activities to use administrative data source (Ministry of Agriculture and Rural Development). It is expected that this pilot project will enable that this becomes the only way of data collection from the middle of 2019. The data for trade of broilers (export and import) by type and purpose, available via the foreign trade data of Statistical Office, are compiled and transmitted to Eurostat for the first time from April 2018, as preliminary ones. These data are harmonized with the Regulation (EC) No 617/2008. Data for gross indigenous production (GIP) were established in 2014 and were sent for the first time to Eurostat via e-Damis in March 2018. Aimed at the improvement of milk and milk products statistics and exploring the possibilities for new ways of data collection for monthly surveys, a web application for electronic data collection for monthly report on entering raw milk and obtained milk products in diaries was done in the middle of 2018.

Agro-environmental statistics

In area of agro-environmental statistics, based on the Agreement on Cooperation with the Ministry of Agriculture and Rural Development, the data collection from 2014 and from administrative source (Administration for Food safety, Veterinary, and Phytosanitary Affairs) started for the survey on turnover of pesticides. The data for 2017 were for the first time transmitted to Eurostat in December 2018 in accordance with the Regulation (EC) No 1185/2009.

Organic production statistics

In cooperation with Ministry of Agriculture and Rural Development, preliminary data for organic production statistics for 2016 and 2017 were for the first time transmitted to Eurostat in 2018, in accordance with the Regulation (EC) No 834/2007.

Fishery statistics

In area of inland fishing, in March 2015 there were separately implemented surveys on fish catches in rivers and lakes, aquaculture and mariculture for 2014 in accordance with the EU Regulation No 762/2008. These surveys were integrated in one survey.

Economic accounts for agriculture statistics

In area of economic accounts for agriculture, a pilot survey on land and land rent price was implemented, in accordance with the joint methodology agreed between European Commission – Eurostat and member countries in 2010. The recalculation of rented land value was done for the 2012 - 2016 period.

Forestry statistics

In area of forestry statistics, two pilot surveys were carried out aimed at obtaining the data for creation of conditions for experimental establishment of Economic Accounts in Forestry Agriculture.

2. Continuation of activities on farm register development

An improved software solution in new tools for statistical farm register was created. The Rulebook on Structure, Updating and Use of Statistical Farm Register. There was established a link between Statistical Farm Register and Farm Register in Ministry of Agriculture and Rural Development.

Statistical farm register is regularly updated from both internal and external data sources in accordance with the Rulebook on Structure, Update and Use of Statistical Farm Register.

MULTI-DOMAIN STATISTICS

Table 8. Statistical activities defined by the Programme in multi-domain statistics

Code	Statistical domain	Number of planned statistical activities by domain	Number of implemented statistical activities by domain	Official statistics producer
5.01.	Business cycle analysis statistics	1	1	Statistical Office
5.02.	European Strategy 2020 and sustainable development	1	1	Statistical Office
5.03.	Environmental statistics	11	11	Statistical Office
5.05.	Geographical and local information	2	1	Statistical Office
5.06.	Science and technology statistics	1	1	Statistical Office
5.07.	Information society	1	1	Statistical Office
6.01	Quality, evaluation, statistical coordination and classification	3	3	Statistical Office
	TOTAL	20	20	

1. Further improvement of environmental statistics

In area of waste statistics aimed at quality management, the quality reports for 2016 were produced for the survey on waste generated in industry and survey on municipal waste. The reports are published at the official website of Statistical Office. Development of environmental-economic accounting (material flow accounts) started within IPA grant 2015.

2. Further development of statistics on scientific and research activity and innovations

A pilot survey *Innovative activities of enterprises* was implemented for the first time in 2018. The data were collected for the 2014 – 2016 period. A methodology used in this statistical survey was harmonized with the recommendations of OECD's guide for collecting and using data on innovation - OSLO Manual. The data collected by Survey on Innovation Activities of Enterprise for the 2014 – 2016 period were transmitted to Eurostat via e-Damis.

1.3. OFFICIAL STATISTICS DATA BY DOMAIN

DOMAIN 1.

Domain: 1.01. Population

Possibilities to conduct a register-based population census in Montenegro were analysed with the expert assistance, and preconditions for its implementation in 2021 were defined under the population domain. This analysis considered the adoption of information by the Government of Montenegro as it follows:

- *Information on Use of Administrative Source for Statistical Purposes* (adopted at the 139th session of the Government of Montenegro on 10 December 2015);
- *Information on Preparations for Register-based 2021 Census of Population, Households, and Dwellings* (adopted at the 64th session of the Government of Montenegro on 22 February 2018).

In managing migrations and asylum, within the reporting period, Survey on Asylum Seekers (regular survey from 2018), and pilot *Survey on Illegal Migration, Acquiring and Losing Citizenship* were introduced.

Improvements were achieved in the data collection within marriages and divorces statistics with the electronic data transmission agreed with the Municipality Podgorica Service for Marriages, representing 1/3 of data in the data coverage.

Domain 1.02. Labour market

A regular dynamic in Labour Force Survey – LFS data transmission to Eurostat was achieved, in accordance with the deadline from Regulation (EZ) No 577/1998. Both quarterly micro data for the 2011-2018 data, and quality indicators for the same period were transmitted to Eurostat. In accordance with the recommendations of Eurostat (The EU LFS precision requirements), a new rotation scheme of sample design 2-(2)-2 was implemented. LFS implemented a new ISCED 2011 classification. Quality reports for LFS for 2015, 2016 and 2017 were sent.

A regular transmission of monthly data on number of registered unemployed persons to Eurostat was established (source: Employment Office of Montenegro), so that a possibility to produce the

data on monthly rate of unemployment is analysed by using quarterly LFS data. In cooperation with International Labour Organization, LFS questionnaire included a set of questions that will be tested aimed at the production of indicators on informal employment.

With purpose of increased use of administrative data, Statistical Office established a cooperation with colleagues from Employment Office and Tax Administration. These institutions regularly submit databases that are analysed with a view of assessing possibilities to use it as a source for production of vacancy statistics as well as earnings from administrative sources (pilot surveys).

Survey on labour costs was conducted in 2017, meeting the survey dynamics (four-year survey) demand. The tables on Survey on labour costs for 2012 were submitted to Eurostat. The database with Survey on earnings' structure 2014 was submitted to Eurostat in accordance with deadlines determined by Regulation (EC) No 530/1999. The data on minimal earnings in Montenegro defined by the Government of Montenegro in 2013, by Decision on Determining Minimum Earnings (Official Gazette of Montenegro No 18/13) are regularly sent to Eurostat.

Domain 1.03. Education and lifelong learning

In domain of preschool, primary and secondary education, there is used MEIS – electronic database of Ministry of Education.

In domain of higher education, the Agreement on Joint Cooperation was signed in area of higher education and cooperation established on electronic data transmission with the University of Montenegro. We receive the data for all levels of enrolled students of primary, secondary and postgraduate (specialist and master) and doctoral studies, as well as for all levels of graduated students.

The agreements on cooperation in area of higher education was also signed with two private universities in Montenegro, out of three in total present in Montenegro. There is currently working on the establishment of a regular data transmission for all levels of enrolled students of primary, postgraduate (specialist and master) and doctoral studies, as well as on data submission for all levels of graduated students.

Reporting method for data submission remained for statistical survey on academic, expert staff and structure of higher education institutions, as well as other higher education institutions.

Domain: 1.04. Culture

In cultural domain two rounds of negotiations were done with the data users. There is a national request for cultural statistics which is produced.

Domain: 1.05. Health and protection

Under domain of health and protection annual surveys are implemented in accordance with the Annual Plan of Official Statistics.

Domain: 1.06. Distribution of income and living standard

Poverty Analysis in Montenegro is a survey last published by Statistical Office in 2014 for 2013 data. This survey calculates the absolute poverty line based on the consumption method, in line with the World Bank methodology.

Survey on Income and Living Conditions

Statistical Office regularly conducts the Survey on Income and Living Conditions from 2013. The data for the 2013 – 2017 period were sent to Eurostat via e-Damis. The Quality Report was also sent to Eurostat. Data from this survey for five-year period (2013-2017) were for the first time published in December 2018, within publication *Statistics of Income and Living Conditions* <http://monstat.org/cg/novosti.php?id=2880>

Household Budget Survey

Until 2015, the Household Budget Survey – HBS was regularly conducted - annually. Periodicity of HBS data collection and dissemination changed from 2015 from annual to multiannual survey, in accordance with the Annual Plan of Official Statistics and Statistical Release Calendar. Accordingly, the survey is conducted every two years, and then three years. From 2015, HBS uses the Classification of Individual Consumption by Purpose (COICOP) on five-digit level, as well as International Standard Classification of Education (ISCED 11). The HBS data have been regularly sent to Eurostat via e-Damis, in accordance with the Eurostat's recommendations.

Minimal consumer basket

In the 2010-2015 period, the data on Minimal Consumer Basket were published in accordance with the Plan and Programme of Statistical Surveys of Statistical Office. The methodology for Minimal Consumer Basket was revised in 2016 and 2017.

Since January 2018, Statistical Office has started to publish the data on Minimal Consumer Basket by the new, revised methodology, using new data sources of Household Budget Survey from 2015 and Census of Population, Households and Dwellings from 2011.

Domain: 1.07. Social protection

Statistical survey on social protection - ESSPROS

In 2017 Statistical Office for the first time implemented a pilot project on Statistics of Social Protection – ESSPROS for data referring to the 2013-2015 period. During 2017 and 2018, there were collected the data referring to 2016 and 2017. The data were transmitted to Eurostat via e-Damis for the 2013-2016 period.

Domain: 1.10. Crime and justice

In crime domain, regular reporting to Eurostat continued, while for a part of national surveys a possibility to use the electronic database of Judicial Council as a data source is considered.

DOMAIN 2.

Domain: 2.01. Annual economic accounts

Time series for annual Gross Domestic Product – GDP data were published in accordance with the European System of Accounts – ESA 2010 methodology; a work was done on the production of non-financial sector accounts; improvements in the compilation of annual accounts in constant prices; Survey on Structure of Income and Intermediary Consumption by Activities was implemented, whose results are used in the production of experimental Supply and Use Table. In accordance with the trilateral Agreement on Cooperation, in domain of National Accounts, government finance and related statistics (signed in May 2016, between Ministry of Finance, Central Bank of Montenegro and Statistical Office) during 2016 representatives of the mentioned

institutions worked on the preparations of experimental classification of institutional unit by institutional sectors for reference 2015, in accordance with the ESA 2010 methodology.

Domain: 2.02. Quarterly accounts

The time series of QGDP was published, in accordance with the ESA 2010 methodology by expenditure approach; by monitoring quarterly indicators of economic growth, the work to establish a basis for experimental calculation of QGDP by production approach continued; there was also worked on the experimental calculation of QGDP by production approach based on available administrative data and experimental calculation of quarterly gross investments in fixed assets; production of experimental data on number of employees at quarterly and annual level according to the ESA 2010 methodology was also done; experimental procedure of seasonal adjustment of QGDP was implemented.

Domain: 2.03. Monetary and financial statistics

Under statistical domain of monetary and financial statistics, Central Bank of Montenegro fully implemented within its competence two surveys (Reserve requirement – statistical monitoring of the level of reserve requirement and Money Market – statistical records of government bills – values of issued (required) sales, government bills, interest rates on government bills). Three surveys are in the implementation phase: Bank Balance Sheet – balance statistics harmonized with the EU Regulation; Interests rate – interest rates statistics harmonized with the EU regulation and statistics of other financial institutions – statistic of other financial institutions harmonized with the EU regulation.

Domain: 2.04. Government finance statistics

Under domain of Government finance statistics, Ministry of Finance implemented 5 statistical surveys defined by the official statistics annual plans in line with the 2014-2018 Programme of Official Statistics.

The time series of the main aggregates of income and expenditures of public sector were published by economic and functional classification, in accordance with the national methodology, monitoring income and expenditures by types at central and local level of country. The time series

of government debt are published in accordance with national methodology, by types, level of indebtedness, value structure, structure of domestic and foreign debt, etc.

The 2014-2018 Programme of Statistical Surveys contained a guideline by which the surveys conducted by Ministry of Finance should be based on the ESA2010 standard (European System of Accounting Standards). This request is partly met due to a lack of administrative capacities, so that appropriate activities defined by trilateral Agreement on Cooperation in domain of NA, government sector and related statistics, and by the Strategy for implementation of ESA2010 methodology in public finances statistics will be transferred to already started mid-term period 2019 - 2023.

Although the request is partly fulfilled, in part of implementation of ESA2010 methodology in government finance statistics, established working group intensively worked on the implementation of the mentioned methodology in cooperation with the expert from Slovenia and with the engagement of Croatian expert via the project funded by IPA2013. Additionally, two missions were held with the expert engaged with the technical assistance of IMF, aimed at strengthening administrative capacities.

Domain: 2.05. Monitoring own resources

Within its competence, Statistical Office implemented the Statistical survey '*Calculation of macroeconomic aggregate GNI*' in accordance with the ESA 2010 methodology.

During 2016, Ministry of Finance in cooperation with Tax Administration and Statistical Office coordinated the work on the implementation of survey '*Determining own resources from the value added tax – VAT*'. Accordingly, document '*Statement on basis of own resources from VAT for 2014*'. The preparation of the mentioned document is defined by *Action Plan for Establishment of System of European Union Own Resources in Montenegro*, and which is adopted within the Negotiation Chapter 33: Financial and budget provisions.

Domain: 2.06. Prices

In observed five-year period, Price Statistics Department implemented 8 surveys in total, out of which 5 regular surveys and 3 new pilot surveys. Owner Occupied Housing Price Index survey was not implemented, due to a lack of human capacities and adequate administrative data sources. Having in mind that relevant regulations in price statistics does not require the implementation of survey '*Report on Price Convergence According to Maastricht Criteria*', and due to a lack of demand by side of users, it was terminated.

In price statistics, Harmonized Consumer Price Index (HICP) and Purchasing Power Parity (PPP) are largely harmonized with the EU standards and requested data set are regularly submitted to Eurostat. Important improvements were achieved in observed period, which reflect in the following:

- Metadata updated in accordance with SIMS V2.0 (Single Integrated Metadata Structure), and
- Quality reports for users and producers created for all regular surveys in price statistics, where quality reports for users (2016 and 2017) are published at the official website of Statistical Office.

Under IPA projects, the experimental calculation of harmonised indices of consumer prices in administrative prices, as well as in constant tax rates continued.

With purpose of introduction of House Price Index, administrative data sources were identified, what is an important step in further development of index. Under the current IPA 2015 project, the work on calculating the experimental HPI index continued. The index was significantly improved by using the data from the statistical survey '*Prices of dwellings in new buildings*'.

Domain: 2.07. International trade of goods

The European Classification of Goods for 2017 – Combined Nomenclature 2017 (CN2017) was implemented. The first experimental foreign trade data by enterprise characteristics for 2014 were prepared, as well foreign trade data by invoice value for the 2014 – 2017 period.

Domain: 2.08. International trade in services and balance of payment

In domain of trade in services and balance of payment, Central Bank of Montenegro implemented 4 planned surveys within its competence (Balance of Payment, Survey on matters of direct foreign investment, Survey on credit transactions with foreign residents, Survey on transactions and balance within accounts held abroad). The implementation of the survey International Investment Position is ongoing.

A new IMF methodology for balance of payment statistics - BPM6 manual (harmonized with ESA 2010) was implemented in 2014. The revision of balance of payment data was done in accordance with the new methodology for the 2010-2014 period. Under the current IPA 2015 project, the work on the improvements of international trade in services statistics continued, and a significant progress in the production of this statistics by countries was achieved in line with the Eurostat's request. Central Bank of Montenegro implemented the SDMX standard for data transmission to the international institutions (IMF and Eurostat). Balance of payment and foreign direct investments statistics are regularly submitted to Eurostat via eDamis portal in accordance with the regulations EU and BOP Vademecum.

DOMAIN 3.

Domain: 3.01. Annual business statistics

A progress was achieved by the change in the data production and dissemination for the following statistical surveys: *Structural Survey on Enterprise Businesses*, *Outward Foreign affiliates statistics (outward FATS)* and *Inward Foreign affiliate statistics (Inward FATS)*. The deadline for dissemination of data from these surveys in 2016 was shortened for 2 months. Thus, the data are published in October, instead in December.

Annual survey on industrial production (PRODCOM) and investment in fixed assets are fully harmonized with the European legislation in the implementation period of Programme.

Domain: 3.02. Short-term business statistics

In domain of short-term business statistics (industry, construction, retail trade and services), significant improvements in alignment with the EU standards were achieved in the period of implementing the Programme. Construction and retail trade statistics were fully harmonized with the Regulations (EZ) No 1165/98 and 1158/2005.

Industry and other services statistics are partly harmonized with the European legislation. In industry statistics, Index on turnover in industry was published, while in turnover and service activities, Index on turnover was calculated based on administrative data sources.

Short-term business statistics improved a number of horizontal activities which contribute to the increase of quality in this statistical domain: (i) introduction of e-questionnaire (CAWI method for data collection) for retail trade survey, (ii) introduction of metadata, (iii) production of quality report, and (iv) calendar and seasonal data adjustment.

In the implementation period of the Programme, there were not conducted the surveys in business statistics, as it follows:

- Services producer price index (SPPI): partly harmonized survey. Under this survey, two indices were calculated: H51 air transport price index and H53.10 postal service price index. Other indices set out by the Regulation EU No 1165/98 and Regulation No EU 1158/2005 were not calculated due the lack of administrative capacities.

Domain: 3.03. Energy

Structural energy statistics and energy product price statistics are fully harmonized with the EU laws. Energy balance covers all relevant energy products produced and consumed in Montenegro. Short-term energy statistics are fully harmonized, except for short-term statistics of petroleum products which is at the middle level of harmonization with the EU laws.

In cooperation with Energy Community Secretariat and Energy Institute ‘Hrvoje Požar’ from Croatia, the survey on the consumption of energy products in industry, public and commercial sector in Montenegro for 2014, in accordance with the Regulation (EU) No 1099/2008 and 147/2013.

Domain: 3.04. Transport

In period of five-year Programme implementation, Statistical Office harmonized all surveys in transport statistics with the European laws. Under maritime transport statistics, an agreement was achieved with administrative data source – Maritime Safety Administration on electronic data delivery necessary for the Survey on Arrivals and Departures of Ships in Docks. This enabled a change to the detailed reporting to Eurostat and full alignment of this statistical domain with the EU laws. In rail transport statistics, a change from simple to detailed reporting to Eurostat was made in accordance with the Regulation (EC) No 2016/2032. The survey on road freight transport was conducted under IPA project. It went through the validation process by Eurostat, in accordance with Regulations (EC) No 1172/98 and No 70/2012. Air transport statistics is fully aligned with Regulation (EC) No 437/2003. Transport accident statistics is fully harmonized with the Decision (EC) No 93/704. The data are regularly transmitted to Eurostat under the *Common EUROSTAT/ITF/UNECE Questionnaire*.

In business statistics, the surveys not conducted in period of implementing the Programme were as it follows:

- Passenger mobility statistics: the survey not implemented due to a lack of administrative capacities;
- Car mobility statistics: the survey not implemented due to a lack of administrative capacities.

Domain: 3.05. Tourism

During the implementation of the Programme, a pilot Survey on Tourist Activities of Population in Montenegro was for the first time conducted in 2016. The implementation of this survey was continued in 2017 and 2018 under the IPA project. the CAWI method was used for data collection for the Survey on Arrivals and Overnight Stays of Tourists in Collective Accommodation. Metadata were created. With purpose of harmonization with Regulation (EC) No 692/2011, an analysis was produced with topic: ‘*Harmonisation of tourism statistics with the EU standards*’, aiming to improve the data source quality. In business statistics, the surveys not implemented within the Programme implementation period were the following:

- Tourist Satellite Accounts (TSA): the survey was not implemented due to a lack of administrative capacities.

Domain: 3.06. Business registers

Four individual surveys were implemented for the needs of Statistical Business Register – SBR update. These statistical surveys are, *inter alia*, the only source for determining the primary activity of new established unit or for discovering a change in the primary activity of valid unit, as well as for determining which enterprise group it belongs to. All surveys were conducted with a full coverage, and due to a lack of appropriate administrative sources for the data necessary according to the EU regulation. A continuous work has been started on profiling complex enterprises and group of enterprises. *Guide for International Profiling* was produced. Three publications with the data from SBR and Analysis of Business Entities by Municipalities, and by Sectors were produced, as it follows:

- Number and structure of business entities in Montenegro;
- Number and structure of business entities owned by foreigners in Montenegro, and
- Newly created and inactive business entities.

A continuous work was done on monitoring the SBR data quality. The quality of data used from administrative sources in accuracy and coverage was improved. Additional data sources were used to increase the coverage of units or variables, and very important is that a detailed analysis administrative sources and data availability these sources possess was done before. Considering the fact that SBR is used as a sample frame for statistical surveys, it is necessary to have two-way

information flow between this register and statistical surveys, so that information from surveys can be used for the SBR update in the same way as information from administrative sources. The quality reports of SBR were produced and sent to Eurostat every year.

DOMAIN 4.

Organic production statistics

In cooperation with Ministry of Agriculture and Rural Development, and in accordance with Regulation (EC) No 834/2007, preliminary data on organic production for 2016 and 2017 were sent to Eurostat in 2018, for the first time. The data collection method is administrative source.

Domain: 4.01. Agricultural production

In crop statistics, the data collection method was changed. Estimation was replaced by interview method. With purpose of harmonizing crop statistics with Regulation (EU) No 543/2009 of the European Parliament and Council on crop statistics, the recalculation of data series for the 2007 – 2013 period was done and the data were transmitted to Eurostat via e-DAMIS web portal. Data in area of crop production statistics are regularly sent to Eurostat. Two pilot surveys were implemented in area of crop production with the aim to improve data quality and examine possibilities to use CATI and CAPI method: *Survey on crop production in 2016*, and *Survey on vegetable production in 2018*.

In livestock statistics, possibilities for the data collection by CAPI method in the Survey on Number of Livestock were explored for three municipalities. Livestock, meat and eggs statistics was harmonized with Regulation (EU) No 1165/2008, while milk and milk products statistics was harmonized with the Directive 96/16/EC and Decision No 97/80/EC. In livestock and slaughtering statistics, activities on change to administrative data sources started to reduce the burden of reporting units. Data on trade of broilers by type and purpose (import and export) obtained from Foreign Trade Department are compiled and for the first sent to Eurostat from April 2018. These data are harmonized with the Regulation (EU) No 617/2008. Data for gross indigenous production (GIP) have been produced since 2014 and for the first time sent to Eurostat via e-DAMIS web portal in March 2018. Aimed at improvement of milk and milk product statistics and exploring

possibilities for new ways of data collection for monthly surveys, a web application for electronic data collection for monthly Report on Enters of Raw (Cow) Milk and Obtained Milk Products in Dairies in the middle of 2018.

Domain: 4.02. Farm structure surveys

Survey on farm structure in accordance with the Regulation (EC) No 1166/2008 was conducted in November 2016. Preliminary results of the survey implemented were published at the official website of Statistical Office and via e-Damis web portal sent to Eurostat.

Domain: 4.04. Agricultural accounts and prices

Harmonisation with the EU standards in domain of agro-monetary statistics which cover economic accounts and prices in agriculture is continuously done.

Economic accounts in agriculture comprises: production account; generation of income account; net entrepreneurial income; and capital account. A significant progress was made within the reporting period in the creation of production account in agriculture, in accordance with Regulation (EC) No 138/2004, because the norms for family farms at the level of Montenegro (in part of wine and brandy production), and thus both production value (output) and production account was finalized.

The calculation system for generation of income account based on available data, and the system for creating capital account in agriculture (based on obtained data on livestock, plantations and machinery) were set.

A complete system for calculating the absolute prices in agriculture and agricultural product price index with a base year 2015 for the 2011 - 2016 period was set in accordance with the Eurostat's Handbook for EU agricultural price statistics, March 2018.

Recalculation of rented land price for the 2012 – 2016 period (entrepreneurial income account) was done based on the results obtained from the pilot Survey on Land and Rented Land Price, in accordance with the *joint methodology* agreed between EC - Eurostat and member countries in 2010.

In part of labour force in agriculture, the established system was updated with using the data from the 2010 Agriculture Census and available official statistics data from surveys. In 2017, the

existing system was updated with available data from the Farm Structure Survey 2016 in part of paid and unpaid work in agriculture and the results obtained are present via Economic Accounts in Agriculture. In this manner, the harmonisation with the EU standards was achieved.

Domain: 4.05. Forestry statistics

A detailed overview of all necessary data was done and a method for the estimate of lacking data was chosen for the purpose of producing production account in forestry. In cooperation with members of Working Group for Forestry Statistics, method for recalculating the total area under forest based on the data from National Forest Inventory, as well as method of recalculating total production of forest product based on fuelwood consumption for 2011 were experimentally set.

Domain: 4.06. Fishery statistics

In fishery statistics (sea fish catch), there was achieved a result with the aim to change the data collection method, i.e. estimation method was changed with the administrative data source obtained from the Ministry of Agriculture and Rural Development. Data are collected on aquaculture and mariculture in domain of fresh water fishery and thus the data collected increased in accordance with the EU Regulation No 762/2008.

Domain 4.07. Agro-environmental statistics

Data were sent to Eurostat for the first time in December 2018 for 2017 as preliminary. The data collection method is administrative source.

DOMAIN 5.**Domain: 5.01.** Business cycle analysis statistics

Euro-indicators (*Principal European Economic Indicators - PEEI*) aims at representing general economic information. They are defined by Eurostat under different statistical domains: balance of payment statistics (foreign direct investments), short-term business statistics (industrial production index, retail trade index, construction activity index, etc.), foreign trade statistics (import and export of goods and services), Monetary and financial statistics (interest rate), national accounts statistics (GDP, personal consumption, etc.), price statistics (harmonized consumer price index, producer price index, etc.).

In the implementation period of five-year Programme of Official Statistics 2014 - 2018, Statistical Office established a number of PEEI indicators in different statistical domains, reflecting in increased number of data sent to Eurostat. The progress was pointed out in different international reports. Missing indicators are defined by new Programme of Statistical Surveys, and through this report they are represented by information on not implemented activities.

Domain: 5.02. European Strategy 2020 and Sustainable Development

The idea of sustainable development in Montenegro in form of environmental and natural resources protection was created by the Declaration on Ecological State from 1992. Harmonisation of national policies with the UN document Agenda 21 was crowned with document 'Directions for Development of Montenegro as an Ecological State' created in 2001, in accordance with the UN Sustainable Development Strategy in Montenegro 2007, when the first National Strategy of Sustainable Development of Montenegro. The aim of this Strategy was to achieve a balanced economic development which can be sustained during longer time period, reduce poverty, preserve natural resources and minimise waste, improve education and health system, i.e. protect cultural heritage. The first set of indicators on sustainability in Montenegro was created in 2007 and harmonised with the UN Millennium Development Goals and EU statistical system, in the world of EU integration.

By adoption of the Sustainable Development Agenda up to 2030, in line with obligations Montenegro, as a member of United Nations has in the implementation of this Strategy, Montenegro adopted National Strategy on Sustainable Development up to 2030 in July 2016. A competent institution for the coordination of implementation defined by the National Strategy on Sustainable Development up to 2030 is Ministry of Sustainable Development and Tourism.

Statistical Office is a partner in this process and after analysing the existing statistical capacities of Montenegro there were identified 55 indicators under competence of Statistical Office, i.e. 121 indicators under competence of official statistics producers out of total 241 sustainable development indicator from the UN list. Statistical Office covered the indicators by the Programme of Official Statistics at the five-year level and it implements them at with annual periodicity through the Plan of Official Statistics.

Domain: 5.03. Environmental statistics

In accordance with the requests of the Regulation (EC) No 2150/2002 and Commission Regulation (EU) No 849/2010 of 27 September 2010 amending Regulation (EC) No 2150/2002 of the European Parliament and of the Council on waste statistics, the recalculation of data for the 2011 – 2015 period was done. The data were published in July 2017. The data on structural indicators for the 2011 – 2015 period are submitted to Eurostat. In accordance with the requests of Regulation No 2150/2002, the data on generated and treated waste quantities for 2016 were submitted in June 2018.

Domain: 5.05. Geographical and local information

In domain of geographical and local information, continuous monitoring and implementation of international statistical classifications are done in all statistical domains:

- Licensed software Arc Gis 2015 purchased;
- Improvements achieved in the implementation of DEGURBA classification – urbanization level for 14 municipalities (Tivat, Kotor, Herceg Novi, Budva, Bar, Ulcinj, Podgorica, Niksic, Danilovgrad, Cetinje, Kolasin, Andrijevica, Plav, and Savnik);
- Improvements in establishment of GRID statistics. Statistical GRID data are networks geographically related to cell system - cell network. The data from the 2011 Population,

Households and Dwellings Census are used and overlap with geographical maps. The purpose of these instructions is to provide a systematic guide for Statistical Office for the implementation of Degree of Urbanization (DEGURBA) Classification LAU2 in Montenegro, by criteria and standards defined by the European Commission;

- Statistical Office participated in the implementation of national project component 4.2 Address Register, which is under the competence of Real Estate Administration;
- Methodology for keeping uniform records and register of spatial unit defined. It is available for users at the official website of Statistical Office;
- For needs of MICS6 survey, there were prepared 600 innovative maps of census and statistical circles with use of new orthoimages;
- In cooperation with Ministry of Sustainable Development and Tourism, representatives of Statistical Office actively participated in producing a specific plan in Montenegro for the implementation of Directive 2007/2/EC of the European Parliament and of the Council of 14 March 2007 establishing an Infrastructure for Spatial Information in the European Community (INSPIRE).

In cooperation with Real Estate Administration, Statistical Office is provided with the access to the use of orthoimages in UTM projection and vector files of buildings, roads, streets and addresses, for municipality Tivat, the situation from 2010/2011, for statistical purposes. The approval was obtained for using orthoimages in UTM projection as well as digital cartographic group of data on heights in xyz coordinates (Digital Elevation Model (DEM)), also in format of UTM projection, as well as all shape files with identifications codes, also for the situation from 2010/2011.

As challenges in further improvements, we point out that Statistical Office is competent for alphanumerical data from the Register of Spatial Units, and Real Estate Administration is competent for a graphical display of the mentioned, and this directly influences on the development of geographical and local information.

Domain: 5.06. Science and technology statistics

Statistics of research and development was implemented in 2014 and 2015 in Statistical Office, as an official statistics producer of this statistics up to then, while it is implemented from 2016 in Ministry of Science. A methodology used in this survey is based on the Frascati Manual (OECD 2002 and 2015) – standards for data collection and reporting on research and experimental development. Final data were transmitted to Eurostat under the envisaged deadlines (g+18 months) and via e-Damis. A possibility to prepare preliminary data (g+10 months) has not been yet achieved. Plan for 2017 contained the introduction of pilot interview survey on *Government Budget Allocations for Research and Development (GBARD statistics)*, and the regular one in 2018, but due to limited human resources in Ministry of Science, this plan was not implemented. With the change of job descriptions in 2019, Ministry of Science introduced a special post for work on these two statistics.

Pilot survey *Innovative Activities of Enterprises* was for the first time conducted in 2018, under the competence of Statistical Office. There were collected the data for the 2014 – 2016 period. A methodology used in this statistical survey is aligned with the recommendations from the OECD Guidelines for collecting, reporting and using data on Innovation (OSLO Manual). The data from the Survey on Innovative Activities of Enterprises for the 2014 - 2016 period were transmitted to Eurostat via e-Damis.

Domain: 5.07. Information society

Statistical Office conducts the Survey on use of information and communication technology in enterprises, households and by individuals from 2011 in accordance with EU regulations and Eurostat methodology. The data for the 2014-2018 period were published in accordance with the Statistical Release Calendar and transmitted to Eurostat via e-Damis web portal. Metadata and quality reports for 2016, 2017, and 2018 were transmitted to Eurostat via web application Metadata Handler.

Statistical Office collects the data for the survey Use of information and communication technologies in households and by individuals from 2016 by the use of CAPI method for data collection (Computer-Assisted Personal Interviewing) by using laptops.

In 2018, the Agreement on Cooperation with Ministry of Public Administration was signed in area of data delivery from the Survey on Use of Information and Communication Technologies in Households and Enterprises.

DOMAIN 6.

Domain: 6.01. Quality, evaluation, statistical coordination and classification

During the five-year period, 2014 – 2018, there has been working on monitoring and adoption of international statistical classification in all statistical domains. Statistical classification of products by activity - CPA 08, which is necessary in supply and use table production, was adopted. Additionally, the DEGURBA classification – urbanisation level was introduced and used for 14 municipalities. It is used for the purpose of data production both at urban, and rural level. Revisions of existing classifications are continuously monitored, thus the revision of International Standard Classification of Education - ISCED classification (ISCED 11) was done whose implementation is necessary, so that the comparability of education statistics data is ensured between countries, as well as COICOP 5 classification of individual consumption by purpose, five-year level.

1.4. DEVELOPMENT ACTIVITIES OF OFFICIAL STATISTICS WHICH CANNOT BE CLASSIFIED BY DOMAIN

A constituent part of the Programme represents also general aims of development activities which cannot be divided by domains, and which relate to:

1. Modernisation of official statistics data production

In time of fast information progress and globalisation conditions, the introduction of modern IT solutions in all phases of statistical process represents a necessity to increase velocity and quality in data collection, and to use available data sources. To achieve the mentioned, all software programmes are licensed and the newest Windows user licences were installed in Statistical Office. A permanent license for ArcGIS spatial register was provided which ensures the data conversion from digital cadastre plans to all standard forms for the spatial data exchange.

Improvements in the terms of modernisation of IT equipment and implementation of modern methods are achieved by purchase of new software which is by appropriate techniques and methods arranged so that available server sources are rationally used (virtualisation).

To protect against server downtime, a reconstruction of old electrical installations in the server room was done and stronger capacity devices - Uninterruptable Power Supply –UPS purchased which provide a temporary power supply in case of power cut. The system protection against computer viruses was improved by purchasing antivirus software Kaspersky.

Within licensing process an introduction of modern version of software is of great importance, therefore five permanent software licenses were provided during 2017 for the analysis of statistical data. Of great importance is an introduction of modern version of IBM SPSS (Statistical Package for the Social Sciences) in the licensing process.

Having in mind that the centralization of data storage is also of great importance, the process of making SQL server data copies was improved with the purchase of EaseUS Todo software.

The modernisation process of IT equipment and use of modern methods continued in 2017. There were purchased both tablets for the needs of data collection in the field, and new server which is adapted in a such manner to use rationally available server resources.

During the five-year reporting period, Statistical Office worked on the modernization of data collection, processing and dissemination process by using CAWI, CAPI and CATI method:

- CAWI method (Computer-Assisted Web Interviewing) for data collection via internet was used in four surveys in Statistical Office,
- CAPI method (Computer Assisted Personal Interviewing) for data collection via laptops was used in six surveys in total.
- CATI method (Computer-Assisted Telephone Interviewing) for data collection via phone was used in two surveys.

New applications were also developed for 16 statistical surveys, what caused faster and more quality production of official statistical data. Aimed at better organization of statistical process, there were also developed applications that have impact on the improvement of the very business:

- Aimed at improvement of organization and control of data collection process, an application with the title “*Deadline for data collection*” was developed. By using the application, it is possible to monitor the deadline for data collection for all statistical surveys defined by the Annual Plan of Official Statistics and reduce delays in meeting the deadlines for collection;
- Application was developed for data entering for 2019–2023 Programme of Official Statistics, Annual Plan of Official Statistics, and Statistical Release Calendar;
- For the needs of monitoring deviations in publishing statistical data from the Statistical Release Calendar, the application “*Deviations from the Statistical Release Calendar*” was developed. By using the application, it is possible to enter all deviations from the Statistical Release Calendar and to create the ***Report on Deviations*** with a reason for the deviation;
- For the needs of monitoring the implementation of IPA MB projects, there were developed the applications.

The process of official statistics production was improved by the adoption of new procedures and guidelines by which the official statistics production process is standardised. In the 2014 – 2018 period, there were adopted 54 internal acts of Statistical Office.

A more user-friendly access to the data on the Statistical Office’s website was provided.

2. Increased use of administrative data for statistical purposes

Statistical Office has a coordination role in the process of publishing official statistics, and for further development is quality and updated administrative database.

For development of administrative database, it is necessary to sign new agreements on inter-institutional cooperation, what includes also obtaining administrative data. A role of every institution is defined by methodology, without payment, for statistical purposes, defined by the law also.

Through a direct cooperation with other producers and institutions, Statistical Office influences on coherence, completeness and use of standard classifications and definitions in forming statistical indicators. By the use of the same statistical standards in the whole statistical system, it is possible to obtain a complete and coherent picture on social and economic position in the country.

A good inter-institutional cooperation, achieved by Statistical Office with signing 22 agreements on cooperation with administrative data providers, constant updating and timely delivery of data to Statistical Office significantly improved the production of official statistics data, and thus also the statistical system of Montenegro.

3. Centralisation of regional departments for data collection

In reporting period from 2014 to 2018, the centralisation of regional units for data collection was done. The Rulebook on Internal Organisation and Job Descriptions of Statistical Office in force (No 01-2338 of 4 September 2014) establishes the *Department for Data Collection* whose primary role for data collection from reporting units. The collection of official statistics data is done in Podgorica and in offices in the municipalities as it follows: Niksic, Bijelo Polje, Berane, Rozaje, Kolasin, and Pljevlja.

In Podgorica the data are collected for eight municipalities: Podgorica, Danilovgrad, Ulcinj, Bar, Budva, Tivat Kotor, and Herceg Novi. In the office in Niksic, the data are collected for eight municipalities: Niksic, Savnik, Pluzine, Zabljak, Mojkovac, Plav, Gusinje, and Cetinje. In the office in Berane, the data are collected for three municipalities: Berane, Andrijevica, and Petnjica.

In the office in municipalities: Bijelo Polje, Rozaje, Kolasin and Pljevlja, the data are collected for the mentioned municipalities.

New methods for data collection were introduced: CAWI (Computer-assisted web interviewing) and CAPI (Computer-assisted personal interviewing). A remarkable response level was achieved in data collection by CAWI method for the following surveys:

- Turnover index in retail trade: 45% reporting units submit the reports by CAWI method;
- Arrivals and overnights stays of tourists: 42% reporting units submit the reports by CAWI method;
- Purchase, sale and supplies of petroleum products: 20% reporting units submit the reports by CAWI method;
- Report on entering raw milk (cow milk) and obtained milk products: 45% reporting units submit the reports by CAWI method.

The centralisation of regional units contributed to the reduction of time necessary for data collection and reducing overburden of reporting units.

4. Improvement of process for statistical survey data processing and software development

The process of statistical survey data processing was improved with the introduction of newer software, *Visual Studio*.

Additionally, Statistical Office implemented an *Integrated System of Data Processing – IST*, by which statistical processes and databases providing multidimensional analysis were standardised. This is IST.net application, a uniform database of active metadata developed on the basis of Generic Statistical Business Process Model - GSBPM. Every module of IST represents one phase from GSBPM.

GSBPM represents a standard overview of business process which identifies activities, responsibilities, resources, documents statistical processes in a standardised manner. By using the model there is developed a system for monitoring, documenting and check of all phases in the official statistics data production.

By establishment of IST system on bases of GSBPM, statistical phases are automatized, from data entering to their dissemination, which enable a constant control of data flow and monitoring data processing quality.

IST is an interpreter, reads the data in the meta database which represent a description of every application and based on reading data it generates, implements in a real time every phase of statistical survey, from entering to dissemination.

The most important components of IST are:

- Update of meta database;
- Generated data entering;
- Web application generator;
- Logical control;
- Automatic correction;
- Advance search of individual and aggregates data from database;
- Generating report, and
- Possibility of managing the databases' procedures containing individual and aggregated data.

GSBPM is not designed as a strictly defined frame in which all steps must be implemented by the same order, but as a model which identifies steps in statistical business process and interdependence between them. Although the model presents a logical order of working phases in the most of statistical business processes, elements of model can appear by different order. Therefore, this model is simple and broadly useable. The same principle is implemented in the IST.

Use of IST provides standardisation and centralisation of statistical processes.

5. Licensing software, modernisation of tools and backup procedure

An important part in the process of licensing is to introduce the latest, modern versions of software, as well as to provide migration of current system in new one by continuity in work and functioning of system. The introduction of new software tools enabled better control and data processing of data, as well as faster and more quality work on their statistical analysis.

In the 2014 – 2018 period, four new servers are purchased, as it follows:

- Web server for portal where reporting units are provided with the access to applications for electronic data entering;
- Server for improvement of local computer Statistical Office's network;
- E-mail server;
- CAPI server.

All software programmes of Statistical Office are licensed. The latest Windows user licenses are installed:

- MS Windows for 126 users, and
- Microsoft Office Professional for 126 users.

The following server licenses are provided:

- Windows Server Standard 2012;
- Six licences R2, SQL Server Standard 2014;
- Six licences, CAL (Client access licences) for SQL Server;
- Two licences for Exchange Server Standard;
- CAL for 150 users for Exchange Server.

For development and improvement of applications, there were purchased ten licenses for software for development of web applications (Visual Basic Studio). A permanent license is provided for ArcGIS spatial register by which a data conversion of digital cadastre plans in all standard forms for the exchange of spatial data.

In the mentioned period there were provided 14 permanent software licenses for the analysis of statistical data for IBM SPSS (Statistical Package for the Social Sciences). There were also provided 2 additional software licenses for the analysis of statistical data for SAS Analytics Pro. Software for the preparation of publications and books was purchased: CorelDraw and Acrobat Pro 2017.

Since the centralisation of data storage is also of great importance, there is a need for the automation of making reserve copies and to store them in separate premises protected against unauthorised entering, fire and water. In this direction there were improved the protection:

- Against unauthorised Internet access to the servers of Statistical Office, by purchase and installation of hardware (CISCO ASA firewall);
- Against server downtime by purchasing devices of stronger capacity (UPS - Uninterruptable Power Supply), which provide temporary power supply in case of power cut;
- In process of making copies of data from SQL server, by purchase of EaseUS Todo software;
- Computer viruses by purchase of antivirus software Kaspersky.

The backup data is improved by adoption of new and improvement of existing internal procedures which relate to data storage and information security. A significant progress is made with the aim to modernise IT equipment and there was achieved that an average age of server is five years. A continuous work is done on the rationalisation of number of server by adjusting so that available server sources are rationally used by the introduction of modern IT technologies.

6. Improvement of website aimed at dynamic overview of data as well as metadata system development:

Aimed at more modern and simpler overview and access to the data by users, there was improved the display of data at the official website of Statistical Office: selection of data is enabled by set criteria, download of data in Excel, pdf and xml format. Additionally, there is also a graphical display of selected data.

Within the mentioned period, the first data sets in SDMX format were prepared and transmitted to Eurostat via e-Damis web portal, and in accordance with the ESA 2010 Programme for data transmission.

Statistical Office improved already set system of metadata in the previous period. Following the recommendations of European statistics, the ESMS structure of reference meta data was expanded with EQRS structure, making together the SIMS v2.0 structure. This improved structure, together with the data from the Annual Plan of Official Statistics, makes a „base of quality”, that contain all necessary elements for producing the Quality Report for users.

The metadata system development includes also other official statistics producers, and in this way all pieces of information on statistical surveys of official statistical system of Montenegro are in one place. Reference metadata are available on the official website of Statistical Office.

7. Introduction of internal communication portal – Intranet

Introduction of internal communication portal – Intranet was not implemented due to a lack of administrative capacities (human and financial).

8. Development activities that refer to sample methodology

Through international cooperation and monitoring the EU *acquis* in official statistics, for individual statistical domains, Statistical Office worked on the improvement of implementing statistical methodology of sample in surveys, defining standards and use of methods by which an optimal sample allocation was provided.

Under sample design and selection phase, the coordination of sample was done with the aim to minimise overlapping of two or more samples selected from overlapping populations. In this manner, the burden of reporting units decreased. Improvement of quality and coverage of statistical registers and use of data from administrative source enables more adequate preparation of frame for statistical survey, higher use of calibration method, and this further contributed to higher preciseness of estimated parameters and created a possibility for obtaining assessments at the level of smaller domains.

An adequate software support and use of new program solutions (SAS, SPSS, R, etc.) contributed to the implementation of the mentioned activities.

1.5. OFFICIAL STATISTICS PRODUCERS

In accordance with Article 7 of the Law, the official statistical system of Montenegro covers the official statistics producers, as it follows:

1. Statistical Office, (MONSTAT);
2. Central Bank of Montenegro;
3. Ministry of Finance;
4. Other official statistics producers defined by the Programme of Official Statistics.

Other official statistics producers defined by the Programme:

1. Public Health Institute of Montenegro;
2. Customs Administration;
3. Tax Administration;
4. Capital Market Authority;
5. Health Insurance Fund of Montenegro;
6. Pension and Disability Insurance Fund of Montenegro, and
7. Ministry of Science.

Statistical Office is the main holder and disseminator of statistical data, as well as responsible professional body, organiser and coordinator of official statistics system, and it shall represent the official statistics of Montenegro in the international statistical system. In collecting, producing, processing, and disseminating statistical data, official statistics producers must apply official statistics principles, as well as methodologies and standards for producing statistics under their responsibility to produce transparent and internationally comparable data upon approval of competent body and in accordance with this Law.

List of statistical activities defined by the Programme

1.01. Population
Statistical Office
Main demographic indicators
2021 Population, households and dwellings census
Population estimates
Statistics on international migration
Divorce statistics
Statistics on births
Marriage statistics
Statistics on deaths
Statistics in internal migration
1.02. Labour market
Statistical Office
Labour Force Survey (LFS)
Labour cost index
Survey on earnings' structure
Semi-annual survey on employees and earnings of employees
Statistical survey on insured persons – employees by activity and municipalities
Statistical survey on vacancies
Statistical survey on labour costs
Statistical survey on employees and earnings of employees
1.03. Education and lifelong learning
Statistical Office
Statistical survey on academic, professional staff and structure of higher educational institutions
Statistical survey on enrolment to postgraduate and doctoral studies
Statistical survey on institutions for preschool education
Statistical survey on graduated students (undergraduate studies)
Statistical survey on PhD holders
Statistical survey on master degree holders and specialists
Statistical survey on primary schools– extracurricular activities of students
Statistical survey on primary schools at the end of school year
Statistical survey on primary schools at the beginning of school year
Statistical survey on primary musical education at the beginning of school year
Statistical survey on primary musical education at the end of school year
Statistical survey on primary education and upbringing of children with special educational needs at the end of school year
Statistical survey on primary education and upbringing of children with special educational needs at the beginning of school year
Statistical survey on primary education of adults at the end of school year
Statistical survey on primary education of adults at the beginning of school year

Statistical survey on secondary schools– extracurricular activities of students
Statistical survey on secondary schools at the end of school year
Statistical survey on secondary schools at the beginning of school year
Statistical survey on secondary education and upbringing of children with special educational needs at the end of school year
Statistical survey on secondary education and upbringing of children with special educational needs at the beginning of school year
Statistical survey on enrolment of students (undergraduate studies)
1.04. Culture
Statistical Office
Statistical survey on broadcasting operators and emitters
Statistical survey on archives
Statistical survey on libraries
Statistical survey on cinemas
Statistical survey on museums and museum collections
Statistical survey on theatres
Statistical survey on sport clubs
Statistical survey on television
Statistical survey on symphony orchestra
1.05. Health and care
Health Insurance Fund
Report on income and expenditures of Health Insurance Fund
Public Health Institute of Montenegro
Report on completed compulsory immunization against infectious diseases
Report on treated patients in service of hospital-patient treatment
Report on organization and work of hospitals
Report on abortions
Report on work and established diseases, and conditions in hospital health care
Report on work and established diseases, and conditions in outpatient health care
Report on work of blood transfusion service
Register of acute coronary syndrome
Register of cerebrovascular diseases
Register of malignant neoplasm
Register of drug addiction
Register of diabetes
Register of traumatism
1.06. Distribution of income and living standard
Statistical Office
Poverty analysis in Montenegro
Household Budget Survey (HBS)
Minimal consumer basket
Statistics of income and living conditions

1.07. Social protection
Pension and Disability Insurance Fund
Report on beneficiaries of pension and disability insurance
Health Insurance Fund
Report on number of insured persons under international agreements on social insurance
Statistical Office
Statistical survey on social care centres
Statistical survey on pupils and students' dormitories
Statistical survey on institutions for accommodation of children without parental care
Statistical survey on child allowance beneficiaries
Statistical survey on beneficiaries and types of social protection
Statistical survey on social protection - ESSPROS
Statistical survey on institutions for children and youth with behavioural disorders
Statistical survey on institutions for accommodation and care of adult persons
Statistical survey on institutions for accommodation of child and youth with disabilities
1.10. Crime and justice
Statistical Office
Statistical survey on minors against whom proceedings before the panel have been legally concluded
Statistical Survey on minors against whom proceedings based on criminal charges and preparation proceedings have been concluded
Statistical survey on adults against whom criminal proceedings have been concluded
Statistical survey on adults against whom proceedings based on criminal charges and previous proceedings have been concluded
2.01. Annual economic accounts
Customs Administration
Institutional sectors' accounts
Statistical Office
Establishing elements necessary for gross domestic product calculation: calculation of gross value added in agricultural sector
Establishing elements necessary for gross domestic product calculation: calculation of gross value added and government sector expenditure
Establishing elements necessary for gross domestic product calculation: calculation of gross value added of entrepreneurs
Establishing elements necessary for calculation of gross domestic product: calculation of gross value added in tourism sector – craft industry
Establishing elements necessary for calculation of gross domestic product: calculation of financial services indirectly measured
Survey on income structure and intermediary consumption by activities
Production of set of accounts for non-financial sector
Classifying institutional units by institutional sectors for total economy
Gross value added – GVA calculation of non-financial sector – Establishing elements necessary for Gross Domestic Product - GDP calculation by production approach

GVA calculation of financial sector – Establishing elements necessary for GDP calculation by production approach
Calculation of annual Gross Domestic Product by expenditure approach
Calculation of annual Gross Domestic Product by production approach
2.02. Quarterly accounts
Statistical Office
Quarterly survey on income, expenditures and stocks
Calculation of quarterly Gross Domestic Product by production and expenditure approach – by using direct approach
Statistical Office or Sector for survey and development - Central Bank of Montenegro
Projections of quarterly Gross Domestic Product by consumption and production approach – by using indirect approach
Statistical Office, Ministry of Finance of Montenegro
Production of set of accounts for government sector
2.03. Monetary and financial statistics
Central Bank of Montenegro
Balance sheet of banks
Interest rates
Reserve requirement
Statistics of other financial institutions
Money market
Capital Market Authority
Analysis of state securities
Analysis of collective investment schemes
Analysis of other securities
Analysis of financial intermediators businesses
Analysis of stock exchanges
Capital market indices
2.04. Government finance statistics
Ministry of Finance, Statistical Office
Analysis of government finance statistics
Ministry of Finance
Main aggregates of income and expenditures of public sector
Report on government debt
Table of receipts and costs of public sector
Tax Administration
Annual registration of tax on income of natural persons
Report on calculated and paid taxes and contributions and monthly report on paid personal income for employees
Monthly report on value added tax
Registration of tax on income of legal persons
Registration data on legal and natural persons
2.05. Monitoring of own resources

Ministry of Finance and Tax Administration
Determining own resources from Value Added Tax - VAT
Statistical Office, Ministry of Finance and Tax Administration
Calculation of GNI macroeconomic aggregate
Determining own resources from GNI
2.06. Prices
Statistical Office
Harmonized Consumer Price Index (HICP)
Harmonized Consumer Price Index at administrative prices (HICP-AP)
Harmonized Consumer Price Index at constant tax rates (HICP-CT)
Owner Occupied Housing Price Index
Consumer Price Index (CPI)
House Price Index (HPI)
Survey on construction within purchasing power parity
Survey on machinery and equipment within purchasing power parity
Survey on consumption goods within purchasing power parity
Report on price convergence according to Maastricht criteria
2.07. International trade of goods
Statistical Office
Unit value indices of export and import of goods
Trade of goods of Montenegro with EU member countries
Trade of Montenegro by enterprise characteristics
Trade of Montenegro by invoice currency
External trade of Montenegro (EXTRASTAT SISTEM)
2.08. Trade of services and balance of payment
Central Bank of Montenegro
Survey on credit transactions of residents with abroad
Survey on direct investments with abroad
Survey on transactions on accounts in abroad
International investment position
Balance of payment of Montenegro
3.01. Annual business statistics
Statistical Office
PRODCOM statistics
Production of structural business statistics (Structural survey on business of enterprises)
Outward foreign affiliates statistics (OFATS)
Investment in fixed assets
Investment in fixed assets in household sector
Inward foreign affiliates statistics (IFATS)
3.02.
Statistical Office

Price index of industrial products from import
Price index of industrial product producers
Price index of industrial product producers for export
Service producer price index (SPPI)
Industrial production index (IPI)
Turnover of other services index
Industrial production value index
Survey on dwelling price in new buildings
Survey on construction permits
Survey on construction works
Survey on construction works done by businesses
Survey on construction works in household sector
Survey on demolished buildings
Survey on consumption of construction material and fuels
Statistics of construction activities
Statistics of retail trade
Statistics of retail trade by commodities
Statistics of wholesale trade
Statistics of wholesale trade and retail trade of motor vehicles and motorcycles
Total turnover from other services
3.03. Short-term business statistics
Statistical Office
Balance of biomass
Balance of electricity
Balance of liquid fuels
Balance of coal
Prices of electricity in households and industry
Complex energy balance
Short-term statistics of electricity
Short-term statistics of coal
Statistics of purchase, sale, and stocks of petroleum products
3.04. Transport
Statistical Office
Statistics on airport infrastructure and traffic at airports
Statistics on number of transport accidents
Statistics on arrivals and departures of ships in ports
Statistics on infrastructure and traffic in air transport
Statistics on capacities of transshipment means in maritime transport
Statistics on local transport
Statistics on car mobility
Statistics on passenger mobility

Statistics on maritime transport – inventory state
Statistics on postal and telecommunication services
Statistics on postal and telecommunication network
Statistics on transshipment in ports
Statistics on passenger and freight transport in maritime transport
Statistics on traffic at airports
Statistics on traffic at airports by airport pairs
Statistics on roads and bridges
Statistics on registered road motor vehicles and trailers
Statistics on freight road transport
Statistics on merchant navy
Statistics on air transport
Statistics on railway infrastructure
Statistics on railway transport – passenger and freight transport
Statistics of transport, storage and communications
3.05. Tourism
Statistical Office
Survey on arrivals and overnight stays of tourists in registered and not registered accommodation
Survey on arrivals and overnight stays of tourists
Survey on arrivals and overnight stays of tourists in registered accommodation with 20 beds and over
Survey on visits of foreign cruise ships
Survey on hikers
Survey on trips of residents
Survey on foreign vessels for leisure and sport
Survey on participation of residents in tourism
Survey on inward tourism in accommodation not rented
Tourist satellite accounts (TSA)
3.06. Business registers
Statistical Office
Survey on businesses of middle sized and large enterprises
Survey on enterprises with units in their composition
Survey on structure of small enterprises
4.01. Agricultural production
Public Health Institute of Montenegro
Report on food and objects of general use quality control
Statistical Office
Survey on structure of vineyards- grapevine for other purposes
Report on vegetable and fruit production in protected space
Report on entering raw milk and obtained milk products
Report on poultry incubator activities
Report on livestock and poultry slaughtering in slaughterhouses

Report on expected yields of late crops and fruit
Report on expected yields of early crops and fruit
Report on achieved yields of late crops, fruit and grape
Report on achieved yields of early crops and yield prognoses of late crops
Report on achieved yields of early crops and fruit and expected yields of late crops
Report on agricultural enterprises and agricultural cooperatives
Report on areas and plantations at the end of spring sown
Report on areas by cadastre municipalities
Report on harvested areas and achieved yields of crops, fruit and grapes
Report on production and processing of citrus fruit
Report on livestock of agricultural holdings – Survey on number of livestock
Report on entering of raw milk (cow milk) and obtained milk products
Report on veterinary
Report on sown areas in autumn harvest
Report on sown areas in spring harvest
4.02. Agricultural structure
Statistical Office
Statistical survey on farm structure
4.04. Agricultural accounts and prices
Statistical Office
Land and land rent prices
Report on expenditures and production of agricultural holdings
Report on prices of agricultural products, raw materials, resources, and services provided for agriculture
Report on purchase of agricultural products from individual producers
Report on sale of agricultural products from own production of agricultural companies and agricultural cooperatives
Agricultural accounts
4.05. Forestry statistics
Statistical Office
Survey on exploitation of state forests
Survey on wood biomass consumption in primary wood processing
Survey on consumption of fuelwood in car services
Survey on consumption of fuelwood in households
Survey on consumption of fuelwood in rotisseries
Survey on consumption of fuelwood in bakeries
Survey on consumption of fuelwood in restaurants
Survey on consumption of fuelwood in schools and preschool institutions
Survey on production and sale of charcoal
Survey on production and sale of woodchips
Survey on production and sale of wood briquettes

Survey on production and sale of wood pellets
Survey on production and sale of firewood, round wood and wood residues
Survey on trade of fuelwood
Report on construction buildings, roads, and machinery
Report on exploitation of private forests
Report on hunting
Report on forest growing and silviculture
Report on production of forest assortments in state forests
Report on changes in forest areas
Report on damages from a fire in private forests
Report on damages from a fire in state forests
4.06. Fishery statistics
Statistical Office
Report on maritime fishery
Report on fishermen and fishing equipment in maritime fishery
Report on fishery in rivers, lakes and fishponds
4.07. Agro –environmental statistics
Statistical Office
Statistical survey on pesticides
5.01. Statistics of business cycle analysis
Statistical Office
Euro-indicators (PEEIs)
5.02. European strategy 2020 and sustainable development
Statistical Office
Europe 2020 indicators
5.03. Environmental statistics
Statistical Office
Annual survey on public sewage system
Annual survey on public water supply
Survey on number and capacities of waste treatment facilities
Survey on amount of waste imported to landfill
Survey on waste collection and processing
Survey on waste generated in agriculture
Survey on waste generated in construction and service activities
Statistical survey on use and protection of water against pollution in industry
Statistical survey on irrigation systems
Statistical survey on waste generated in industry
Statistical Office
Statistical survey on municipal waste
5.05. Geographic and local information
Real Estate Administration

INSPIRE
Statistical Office
GISCO
5.06. Statistics of science and technology
Statistical Office
Statistical survey on scientific and research activity – research and development
5.07. Information society
Statistical Office
Survey on use of information and communication technology in enterprises, households and by individuals
6.01. Quality, evaluation, statistical coordination and classification
Statistical Office
DEGURBA classification
Classification of products by activities - CPA 08
International standard classification of education - ISCED 11