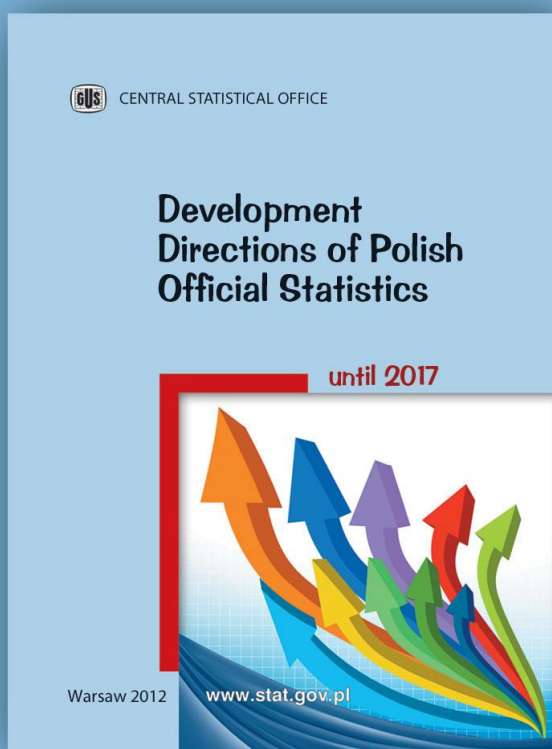




CENTRAL STATISTICAL OFFICE

INTERIM RAPORT on the implementation of Development Directions of Polish Official Statistics until 2017

2012–2014



Warsaw, August 2015

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INTRODUCTION

At the end of 2014, the Polish official statistics reached the halfway point in the implementation of the long-term development program, i.e. set objectives and planned development activities, which were reflected in the document *Development Directions of Polish Official Statistics until 2017*.

Like in 2012, when preparing the aforementioned directional strategic document, we were following the need to inform our partners and users of statistical information about the adopted vision of development of the Polish official statistics and our plans in its pursuit, also when preparing this report we would like to provide information about progress in the implementation of the scheduled development works.

Interim Report on the Implementation of Development Directions of Polish Official Statistics until 2017 has a structure (layout and content of chapters) similar to the one in the program document. It will allow you to find easily a reference of the previous works effects described in the *Report* to the intentions described in the *Development Directions*.

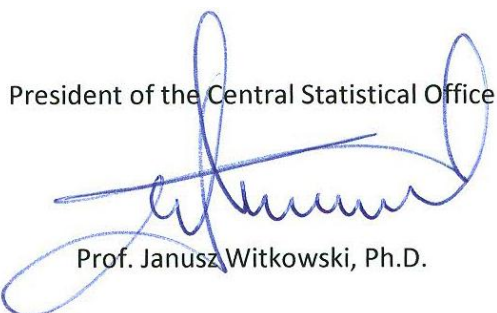
There you can find both reporting and evaluation information (completed activities and assessment of achieving objectives) and guidelines on further works (Further activities), including possible adjustments in the plans adopted in 2012 at the stage of creating the *Development Directions*.

The development activities planned and implemented in the years 2012-2014 related to increasing role and importance of Polish official statistics on the international stage, reinforcing the position in the national information system and creating a positive image in the society, enriching information offer in connection with the user needs and facilitating access to information resources of statistics. For that purpose, it was necessary to undertake activities involving lifting statistical production effectiveness, manifesting itself both in the process of reorganization of the statistical process and modernization of the IT environment supporting this process.

The achievement of many results of the mentioned activities, especially with regard to the development of IT tools, was fostered by support received from the funds of the European Union under the project SISP and SISP-2 (Public Statistics Information System).

Expressing thanks to all partners: bodies running and co-running surveys under official statistics, data providers and statistical information users for past cooperation, as well as employees of official statistics units for their current work and involvement in the implementation of the development vision, I provide this study hoping that you will appreciate the official statistics' achievements in the period of the last three years and you will positively evaluate projects for the years to come.

President of the Central Statistical Office



Prof. Janusz Witkowski, Ph.D.

Warsaw, August 2015

Chapter I

STRATEGIC OBJECTIVES UNTIL 2017

Genesis and description of the strategic document *Development Directions of Polish Official Statistics until 2017*

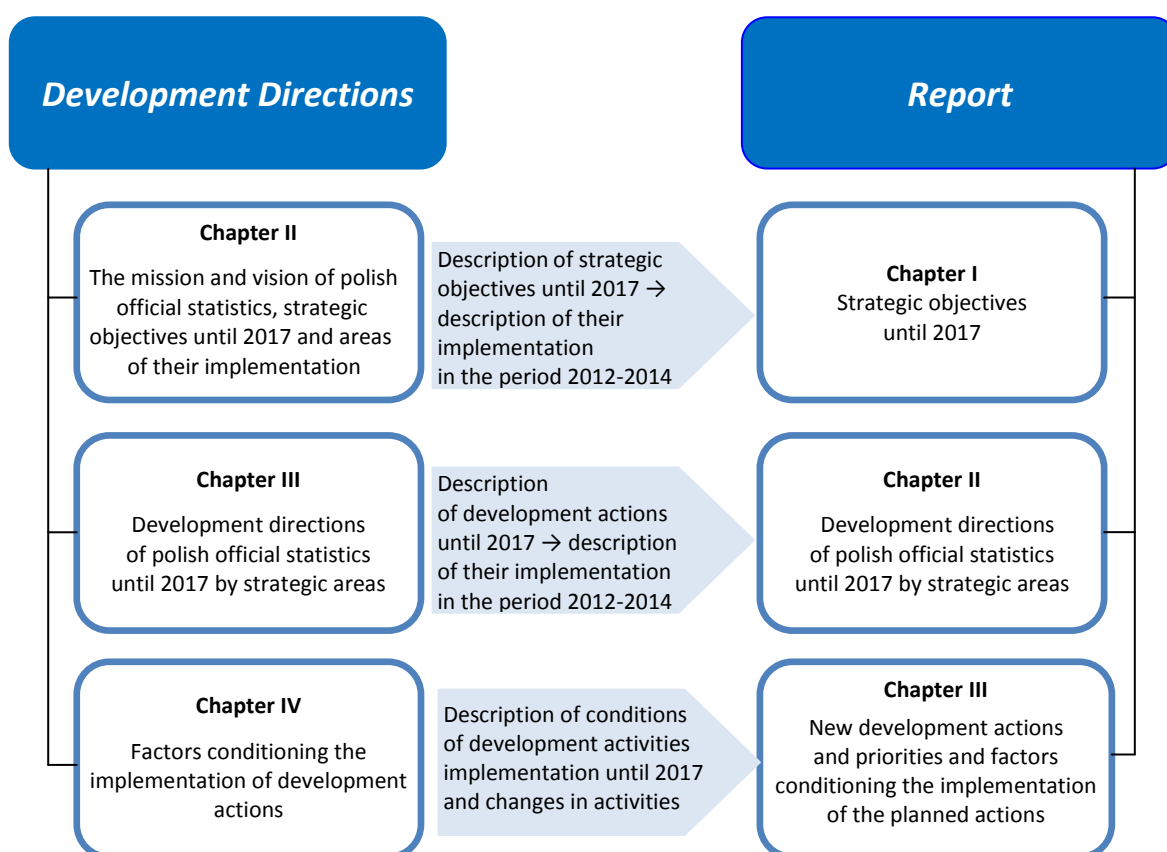
The document *Development Directions of Polish Official Statistics until 2017* (further *the Development Directions*) was approved and adopted for implementation by way of internal order of the President of the Central Statistical Office of Poland no. 17 of 18 May 2012. It was created when the official statistics service, understanding the need to adapt to changes in the environment, were planning or had partly started actions aiming at modernization and improvement in their activities.

They formulated mission of the official statistics, development vision until 2017 as well as strategic objectives whose achievement will allow changing vision in reality. The development activities, aiming to pursue the adopted strategic objectives, are grouped in five strategic areas and assigned to operational objectives agreed for each area.

This document serves the official statistics services as a framework, horizontal development program and the external environment as a guide to plans of the official statistics in the years 2012-2017.

The first half of the time perspective described in it elapsed at the end of 2014.

Comparison of the scheme of the documents: *Development Directions of Polish Official Statistics until 2017* and *Interim Report for the Years 2012-2014 on the Implementation of Development Directions*



General summary of the strategic objectives achievement degree

When formulating the development vision until 2017, the President of the Central Statistical Office (CSO) of Poland defined the following **strategic objectives** to be achieved by the Polish official statistics services, aiming at achieving the vision:

- ◆ Strengthening the role of Polish official statistics in the international arena, as well as strengthening the professional leadership position with regard to providing plausible, reliable, and independent national statistical information;
- ◆ Strengthening the position of official statistics in the national information system;
- ◆ Further developing statistical survey methodology, as well as implementing new survey themes that correspond to the needs of domestic and international users, including the priorities of the European statistical programme for 2013-2017;
- ◆ Improving the process of producing statistics and disseminating data;
- ◆ Improving the system for managing the organisation and human resources of official statistics services .

After the first half of the set period, i.e. in the years 2012-2014, we record a significant progress in the achievement of the adopted strategic objectives.

Strategic objective:

- ◆ *Strengthening the role of Polish official statistics in the international arena, as well as strengthening the professional leadership position with regard to providing plausible, reliable and independent national statistical information*

Aspiration of the Polish official statistics to achieve due position of active participant of the European Statistical System (ESS) is achieved consistently and successfully.

In the years 2012-2014, great activity of Polish experts from different fields of statistics was recorded on the international arena. It was manifesting itself with participation in many working teams and groups, aimed at the development of solutions that determine the shape and the way of functioning of European or world statistics. The provisions in legal acts being drafted were actively negotiated and presented positions of the Polish official statistics – were consistent, which was enhancing effectiveness of actions at the level of ESS and the Council. Growing effectiveness of action and effective representation of interests of the Polish statistics on the forum of the Working Group of the Statistical Council was due, among others, to changing the organization of international cooperation inside the CSO of Poland, consisting in strengthening coordination of activities in this area.

The Polish official statistics was also supporting the transformation and modernization of statistical systems of the states participating in the program of the Eastern Partnership through the implementation of development cooperation projects for their benefit. Countries using knowledge and experience of Polish experts, among others, Georgia and Moldova, are interested in their further support to strengthen the institutional capacities of statistical services, being a significant partner for national government and local government institutions.

It is important to mention also intensive development of the cross-border cooperation, conducted by Polish statistical offices from border regions with their counterparts from neighbouring countries. Many common initiatives are undertaken and they bring positive effects for either party. They include, among others, common statistical surveys, concerning phenomena typical of border regions, common publications and data banks and meetings and conferences aimed to exchange experiences.

The implementation of the above development activities contributes to a stronger presence and role of the Polish official statistics on the international arena.

In the discussed period (2012-2014), many activities were carried out also to strengthen the position of domestic leader in the provision of high quality statistical information. Professionalism of official statistics services and high standard of prepared information were additionally strengthened by cooperation with the scientific environment. Large emphasis was put on the development of cooperation and communication of statistics with the environment. Popularization of knowledge about the functioning of official statistics as well as statistical knowledge was intended to shape awareness of users about importance and benefits arising out from the use of data provided by official statistic as well as the use of comparable and uniform information standards. These educational activities were accompanied by activities involving extension of contacts with the mass media to new methods of cooperation, improvement in the strategy of satisfaction of information needs of users and creation of new forms of partnership-based cooperation with different groups of statistical information users. Thanks to the undertaken development initiatives, interest in public statistics and its products increased.

Strategic objective:

- ◆ *Strengthening the position of official statistics in the national information system*

The conducted activities were aimed, above all, to strengthen the perception of official statistics – under which surveys are conducted not only by the President of the CSO, but also by the supreme or central state administration, the National Bank of Poland, and other statutorily authorised units – as a producer of consistent, complementary, methodologically transparent statistical information, and of the CSO – as a leading institution with regard to setting standards for creation of statistics and coordinator of activities related to statistics.

One of the main initiatives was the amendment to the Law of 29 June 1995 on official statistics. The Act of 9 April 2015 amending the Law on official statistics and other acts (Journal of Laws, item 855)

introduced a number of new solutions, including relating to the coordinating role of the President of the CSO. Main coordination tool, which is annual *Programme of statistical surveys of official statistics* (Pbssp), will be, from 2018, prepared in a new formula, considering integrated approach to the process of collection and processing data. The amended regulations provide not only a wider access to the data presently collected in information systems of the public administration, but also authorize the President of the CSO to report to administrators of these systems requests concerning their information content to enable possibly broad use of administrative sources of data for statistical purposes. As a result, these activities are to provide gradual resignation from laborious and expensive source surveys, and hence reduction in the existing information loads incurred by respondents. The participation of the President of the CSO in shaping the operated and generated systems of the public administration is manifested also in care for the use of identification, classification and definition standards in those systems, which affects their consistency and enables their broader use by various public administration entities.

Simultaneously with activities providing strengthening the legal basis for standardization and coordination of official statistics surveys, intensive works were conducted on the creation of tools supporting these processes, under the projects SISP and SISP-2. The Statistical Metadata System (SMS) was built along with the Information Standards Repository (RSI), and a classification server was created to which 12 classifications were entered. SMS is available for external users, which means that units from outside the CSO and statistical offices (e.g. conducting surveys under the surveys program or administrators of administrative information systems) will be allowed to benefit from metadata gathered in SMS, and will also be allowed to create them in selected areas. The service of exchange of data and statistical metadata will provide CSO SDMX system built for that purpose.

The above development activities were closely related to the development of survey methodology (described in area 3.), in particular in the scope of providing data and statistical indicators for the purposes of preparation and monitoring of national and European strategies and development plans.

The conducted activities enrich the information offer of official statistics, raise consistency and quality of shared statistical data and metadata which, combined with involvement in cooperation with the environment, especially at the regional level, contributes to reinforcing the role of official statistics in the information system of the state. A symptom of the above are the provisions of the Partnership Agreement where, under works concerning fulfilment by Poland of the ex-ante conditions for European funds 2014-2020, the CSO was indicated as an institution cooperating with the Ministry of Infrastructure and Development for thematic objective 7. *Statistical systems and result indicators*. The CSO was defined as a horizontal institution having necessary expert knowledge and determining information standards, which is key for conducting effective policy based on facts and objective data and result-focused management.

Strategic objective:

- ◆ *Further developing statistical survey methodology, as well as implementing new survey themes that correspond to the needs of domestic and international users, including the priorities of the European statistical programme for 2013-2017*

Works related to the development of programs of statistical surveys of official statistics for the years 2012-2014 were preceded by author units' thematic and methodological review of the surveys included in the programs.

In the analyses made as part of surveys reviews reported and expected needs of different groups of national and international users, regulations of domestic and international law, generating obligations for the Polish statistics, and interest in survey results were taken into consideration. Subsequent aspects taken into account include improvement in survey methodology and methods, improvement in their quality, increase in effectiveness. Results of the conducted analyses were reflected in survey programs and in performed methodological works. The thematic content of programs was also assessed by the Statistical Council and the Program Commission. The Methodological Commission was expressing opinions on methodology of new and significantly changed surveys.

Under the survey programs for the years 2012-2014 were introduced 24 new surveys, while, owing to the lack of interest in results or outdated issues, a decision was made to resign from 7 surveys. New surveys related to important issues relating to the condition and changes taking place in society, economy and natural environment. At this point examples inspiring great interest in the issues of social surveys can be listed, such as: situation of migrants and their descendants on the labour market, finance of cultural institutions, material deprivation, welfare, poverty phenomena, living conditions of families in Poland, social exclusion processes. With regard to broadly understood economic issues, new surveys or significantly modified surveys related to: expenses of the state budget and units of the public finance sector in the system of tasks, payment services, fiscal data for the purposes of EU budget supervision, nanotechnology, municipal audit, natural resources, prices of residential real estate, economic situation in agriculture, calculations of emission of pollutants into the air, waste managed in forestry and fishery. The scope of regular surveys shown on the annual basis in survey programs was also changed as necessary for the needs reported in the broadly conducted consultations and arrangements regarding survey topics in the future years, as well as under current cooperation of official statistics services with authorities as well as offices and institutions of various levels.

Changes in surveys resulting from adjustment of the information offer to the needs of recipients often require methodological works. Methodological works in the years 2012-2014 were carried out above all due to the need for developing solutions in order to implement new statistical surveys, modify the scope of past survey topics, take attempts to integrate surveys as well as increase the possibilities of making international comparisons. An important reason was also pursuit of reducing burden of respondents, among others, by acquisition of data from administrative sources. In this period, 43 new methodological works were taken. From among works related to social statistics, a special attention should be attained to such topics as: accounts of work, intellectual capital in Poland, wealth of households, territorial diversity of quality of life of population, improvement in the methodology

of integrated statistical surveys with regard to trips, improvement in the methodology of surveying Poles and Polish diaspora in the world, insurance of households, methodology of education satellite account. On the contrary, as regards economic statistics, particular importance was attained to methodological works concerning: analysis of the possibility of estimating multi-factor productivity of the Polish economy, international trade in services in entities with share of foreign capital, satellite account of maritime economy and analysis of the possibility to use data from administrative sources in surveys on companies and population.

In the discussed period, many methodological works were continued, and some were completed, including relating to: development of measurement indicators to survey social welfare in Poland, indicators of sustainable development and complex indicators, examination of scale and reasons for the phenomenon of social exclusion among the homeless, examination of the possibility to use existing administrative sources in order to support surveys being conducted on the labour market, development of the methodology of survey module of taxes related to the environment (in line with the requirements of the European Commission under economic accounts of the environment), development of the methodology of satellite account of education, examination of the possibility to obtain data from school system and education from the IT Educational Information System (SIO) and their presentation in the national official statistics and transfer of relevant data on education to international organizations, development of the survey methodology and tools to acquire data on professional history of university graduates, improvement in the methodology of estimating the traffic of people on the border of Poland with the EU countries in connection with Poland's membership in the Schengen Area. With regard to economic statistics, the completed methodological works included: development of the methodology of estimating value added in all types of activity of maritime economy to provide information about its share in GDP, analysis of data sources and their availability for the purpose of introducing to quarterly national accounts the method of the so-called quick estimates, allowing obtaining results about the value of GDP in a short time, development of the methodology of calculating production indicator of the sector of services for Poland, preparation of the concept of surveying e-administration that enables monitoring the implementation of the strategy of IT introduction of the country and transferring credible data requested by international institutions, development of the methodology of preparing a simplified Tourism Satellite Account for Poland, analysis of the possibility of replacing and combining administrative data and statistical data related to agriculture, development of a new method of estimating labour inputs in agriculture and a new method of setting the number of individuals working in agriculture in the inter-census periods for the purposes of national accounts.

Strategic objective:

◆ *Improving the process of producing statistics and disseminating data*

Bearing in mind growing pace of changes in the environment in which statistics operates, and strong pressure on lifting effectiveness, i.e. providing recipients with the expected statistical products and services, of high quality, in the scheduled time, fitting, at the same time, the planned budget, in July 2012 the *Concept of Organization of Statistical Surveys until 2020* was prepared, containing a proposal of modernization of surveys organization on the basis of the process approach. According to this concept, organization of statistical surveys of official statistics should create a consistent system, named an Integrated Statistical Business Process System (ZSRBS), being in mutual relations of components (as: organizational structure along with human resources, work processes, IT environment) whose construction, functions and linkages will ensure the most efficient functioning of the whole structure.

Using past European and world experience of other public statistics organizations, related to development of sector model of statistical work processes (GSBPM), an Integrated Statistical Business Process Model (ZMRBS) was developed; it is adjusted to Polish conditions, constituting a unique scheme of functioning of the Integrated Statistical Business Process System. The gradual implementation of the concept started from the four priority areas concerning: strategy of communication with external users, analysis of user needs, appointment of analytical teams, as well as integration of input data.

Conducted development activities aim at process standardization, and hence improvement in work effectiveness. An important role in their implementation is played by the IT tools designed and constructed for that purpose. The metadata repository in SMS provides standardization and harmonization of surveys through definition and process metadata, i.e. consistent, clear and unified definition of statistical survey elements. The modernized Reporting Portal, thanks to increased efficiency and stability, improves and facilitates the statistical data collection process. Introduction of the electronic form of data collection in polls (social and agricultural) increases effectiveness of statistical pollsters' work. The Statistical Data Processing System (SPDS) guarantees uniform, consistent and complete process of providing Statistical Data Warehouse (HDS) with source data from various sources.

Talking about improvement in the statistical production process, it is not possible to ignore issues relating to reducing loads of respondents, increasing the use of administrative sources in statistical surveys, improving the quality of surveys as well as statistical products generated as their result, in particular statistical analyses. Among effects of the development activities in this field, executed in the years 2012-2014, the following can be included, among others: optimization of the scope and frequency of some surveys, to facilitated fulfilment of the statistical obligation as a result of increased efficiency and functionality (management of reporting on the part of data provider) of the Statistical Portal and enabled transfer of data directly from IT systems of reporting entities (TransGUS), ensuring (among others, by means of changes in the Law on official statistics) a broader access to data from information systems of public administration or improving survey methodology and organization as a result of regular quality controls.

In the discussed period, also many development activities were executed with regard to sharing the statistical process products. The execution of the task related to modernization of the Information Portal of the CSO and Local Data Bank (BDL) and construction and sharing the Analytical Platform

SWAiD – Knowledge Databases, by the use of modern database and publication tools, enabled users broad access to regularly updated information from the official statistics system. Establishment and development of the Geostatistical Portal allows additionally spatial visualization of disseminated statistical data. In order to support the process of strategic planning and monitoring, the development monitoring system STRATEG was created. It gathers used for monitoring the execution of strategies binding in Poland (at the state, superregional and voivodeship level) and in the European Union (Europe 2020 strategy). Additionally, the system makes available statistical data essential for execution of cohesion policy.

Streamlining direct and electronic service by modernization of Statistical Information Centres and launching a statistical helpline provides greater possibilities of initiating new and expanding already implemented campaigns aimed at specific groups of recipients as well as individual customers.

Fast and professional response to reported by environments local demand for statistical information resulted in strengthening the position of statistical offices as equivalent partner in the region and tightening the previous cooperation. Participation in conferences, seminars, task groups and in working teams influenced tightening cooperation with scientific environments and local administration units.

The above initiatives are a response to needs of users and affect improvement in the image of official statistics.

Strategic objective:

- ◆ *Improving the system for managing the organisation and human resources of official statistics services*

The implementation of the above strategic objectives was concentrated mainly on activities resulting from: *Human Resource Management Program in the Central Statistical Office 2013-2016*, the project *Statistical Education System*, and from the implementation of the management control system.

The HRM Program, apart from the diagnosis of the present condition, contains priorities for the future years as well as a detailed schedule of their implementation. The priorities of human resource management process in the CSO include:

- improving human capital management processes and tools,
- improving the motivation system, for the purpose of optimum use of potential of employees and reduction in staff fluctuation,
- supporting professional development of members of the civil service.

It is worth emphasizing that *Human Resource Management Program in the Central Statistical Office 2013-2016* was distinguished by the Chancellery of the Prime Minister from among the programs drawn up in all offices and is described as one of three best programs.

As a result of execution of development works aiming at improvement in organizational management internal regulations were adjusted to the requirements of legal regulations with regard to management

control standards concerning the division of competences, responsibilities and scope of tasks of organizational units and particular employees.

Preparation of competence profiles for employees of the CSO and statistical offices was integrated to the previously conducted personnel policy and to defined mission and vision of public statistics. Properly prepared competence model is a tool supporting main personnel management processes and is used for create and update job descriptions, in the employee recruitment process, employee appraisal system , building development paths or plans of professional promotion, as well as planning of training needs.

In 2014, a decision was made to join the project co-financed from the EU funds *Processes, objectives, competences – integrated management in the office*, under which, among others: key processes in official statistics units were identified, selected processes were mapped, optimized and analysed in terms of resource allocation.

Results of those activities are very important in the context of preparation of official statistics services for gradual implementation of the Integrated Statistical Business Process System, based on the process approach to statistical production. A lot of attention was also dedicated to more efficient internal communication in the organization. The System of Electronic Document Circulation (SEOD) and the Corporate Portal were launched, offering to employees modern environment supporting their work, facilitating communication and exchange of information.

Implementation (under the statistical education system) of the Educational Portal provides systematic improvement in knowledge and competences of official statistics staff.

Chapter II

DEVELOPMENT DIRECTIONS OF POLISH OFFICIAL STATISTICS UNTIL 2017 BY STRATEGIC AREAS

Area 1.

Polish official statistics in the national and international arena

Objective 1. Strengthening the position of the Polish official statistics in the international arena

Completed development activities

- Development of international cooperation strategy and implementation of its assumptions.
Development activities intended to strengthen the position of the Polish official statistics in the international arena are executed in accordance with the assumptions of international cooperation strategy which was prepared as a complementary document to the *Development directions of Polish Official Statistics until 2017* and approved by the President of the CSO in March 2013. This document, entitled the *International cooperation directions within the development of Polish Official Statistics until 2017* presents basic directions and priorities of cooperation with other countries and international organizations in the field of statistics and detailed provisions concerning the planned development activities.
- Increase in effectiveness of participation of official statistics services in works of international groups and teams.
 - The CSO prepared national positions, presented by the Management of the CSO at the meetings of the European Statistical System Committee (ESSC), Conference of Director Generals of National Statistical Institutes (DGINS), Directors Groups and ESS Partnership Group joined by the President of the CSO as a member in July 2014,
 - representatives of the CSO were invited to participate in works of important statistical bodies: DSS Board (Vice President of the CSO), European Forum for Geography and Statistics (Director of the Programming and Coordination of Statistical Surveys Department – is the President of this Forum). It was reflected in the increase in impact of Polish statisticians on the developed solutions and decisions taken under ESS,
 - representatives of the Polish statistics participated actively in works of many groups and task forces operating on the international forum, co-creating the methodological or organizational solutions developed there (e.g. participation in works of modernization committees: UNECE High Level Group and United Nations Geospatial Global Information Management, in works of the team Framework Regulation Integrating Business Statistics, or in works on the manual of UNECE *Measuring Human Capital and Big Data Quality Framework*),
 - employees of official statistics services actively participated in international projects, implemented by member states under the ESSnet cooperation network, co financed

from the European Commission grants. In the years 2012-2014, the Central Statistical Office participated as a co-partner in 10 international projects (8 ESSnet projects and 2 large international projects, concerning energy efficiency ODYSSEE-MURE, gathering 32 institutions of EU member states and Norway). At the end of 2014, the CSO started execution of two subsequent projects for ESS, i.e. the annual SIMSTAT project and the two-years Geostat 2 project. These projects were continuation of previously initiated works,

- at the level of the Council, apart from participation of experts from author departments, it was decided that all meetings of the Council Working Party on statistics should involve constant participation of a representative of the Central Statistical Office International Cooperation Department. It enabled presenting consistent positions of the Polish official statistics concerning draft legal acts presented on this forum,
- a new task became cyclical expression of opinions on the Eurostat documents related to development of the ESS Vision 2020. The CSO also actively participates in the works on projects included in the ESSVision Implementation Program.

- Strengthening cooperation under *the Eastern Partnership*.

Under *Multiannual Development Cooperation Programme 2012-2015* of the Ministry of Foreign Affairs, the official statistics services performed activities for improving functioning of the statistical systems in partner countries: Georgia and Moldova. In 2013, the national statistical system of Georgia and National Statistical Office in Georgia (GEOSTAT) were supported in the field of regional accounts. In 2014, cooperation with the Georgian party was continued under the project concerning regional statistics, including analyses of regional development as well as regional accounts compilation. Implemented in 2014 development cooperation project with Moldova was aimed at preparation of Moldovan statisticians for preparation of balances of agricultural products.

Additionally, in 2014, under the meeting of the Thematic Platform of the Eastern Partnership for economic integration and convergence with EU policies, the CSO supported the idea of establishing the Eastern Partnership's Panel of Statistics and declared readiness for the Office's participation in initiatives of Eurostat in this respect.

- Cross-border cooperation was intensified

Cross-border cooperation takes place at the level of regional statistical offices. They cooperate with their counterparts from the neighbouring countries of Poland, e.g. SO Białystok with Lithuania and Belarus, SO Rzeszów with Slovakia and Ukraine, SO Wrocław with the Czech Republic and Germany, SO in Zielona Góra with Germany, SO Lublin with Belarus and Ukraine, SO Opole with the Czech Republic, SO Kraków with Slovakia. Cross-border and euroregional cooperation included: direct contacts and consultations, statistical surveys and methodological works, preparation and issue of publications and works related to building, development and supplying cross-border databases.

- Organization of international conferences and working meetings: the CSO was organizing and taking part in international statistical events.

Representatives of official statistics services prepared speeches at international conferences:

- in 2012, 52 employees took part in 32 conferences, presenting 11 papers,
- in 2013, 55 employees took part in 40 conferences, presenting 16 papers,

- in 2014, 79 employees took part in 43 conferences, presenting 22 papers.

Apart from regular conferences under ESS as DGINS or sponsored by international organizations, e.g. International Statistical Institute (ISI), statistics representatives participated in conferences devoted to the current statistical topics as Big Data or quality in statistics.

The CSO organised also international conferences in the country. The most important include:

- meeting of the Voorburg group concerning statistics of the service sector (October 2012),
- meeting of the LSO network (Network on Labour Market, Economic and Social Outcomes of Learning) concerning education indicators (September 2013),
- conference *Statistics-Knowledge-Development* concerning, among others, the role of statistics in the contemporary world and challenges to be faced by official statistics (November 2013),
- conference of the European Forum for Geography and Statistics concerning cooperation under the European Statistical System in order to create a common infrastructure of geo-statistical data and develop best practice in collection, production and dissemination of statistics in spatial terms (October 2014).

In addition, the CSO arranged specialized statistical trainings:

- workshop on LFS/BAEL survey methodology (May 2013),
 - training under ESTP in statistics of the sector of government and local government institutions, with particular focus on fiscal notification (January 2014),
 - EFTA training on the use of administrative sources in statistics (October 2014).
- Arranging internships for employees of statistical offices from non-EU countries
- The CSO arranged internships for experts from various statistics areas from non-EU countries, whose main aim is to share experience related to the use of developed standards in the statistical production process. In 2013, four interns started internships and in 2014 interns numbered to seven. Internships are implemented mainly under the Instrument for Pre-Accession Assistance (IPA), but also cooperation with Turkey or under the project KPRM *Internships in civil service*.
- Preparation (most intense in 2014) for the peer review concerning the degree of implementation of the principles of the European Statistics Code of Practice (CoP) in the Polish statistical system. It is supposed to assess extent in which a given statistical system (NSS) executes quality principles laid down in CoP. Additionally, it describes coordination role performed by the CSO in the national statistical system as well as the level of cooperation and the level of integration of the country with the European Statistical System.

Assessing achievement of objectives in the area

The completed development activities contributed to more effective presentation of interests of Poland during ESS meetings and on the forum of the Council working group. Apart from maintenance of the existing ones, new international contacts were established, also informal. Reinforced preparation of experts of the CSO for effective presentation of the national position on the international stage contributed to gradual strengthening of the position the Polish statistics on the international arena.

Results and products of international grant projects should be assessed as diverse, depending on the specific nature of a given project. Data, methodological studies, analyses, survey results, IT tools, results of conducted surveys or quality reports were transferred to international coordinators

in accordance with the provisions of grants agreements. Author units transferred national contributions to reports on time, bearing in mind scheduled scopes of works, as well as pursuant to arrangements with international coordinators.

Development cooperation projects, implemented by services of the Polish official statistics for the Georgian and Moldovan statistical system, contributed to reinforcement of these systems respectively in the area of: regional statistics (including regional accounts) and balances of agricultural products. Project implementation reports were accepted by the Ministry of Foreign Affairs, acting as the national coordinator with regard to development cooperation.

Participation in the Eastern Partnership's Panel of Statistics is an opportunity to involve directly the Polish official statistics in Eurostat coordination activities, aimed to adjust statistics of the Eastern Partnership countries to quality standards applied within the European statistical system, which increases the meaning of Poland on the international arena.

Organization of international conferences and working meetings and acceptance of interns resulted, on the other hand, in strengthening the image of the Polish official statistics among the participants of these events, contributed to positive perception of the Office and promotion of the Central Statistical Office's accomplishments in the area.

Further activities

The development activities described in the *Development Directions* and in the complementary document *International cooperation directions within the development of Polish Official Statistics until 2017* will be continued. It is planned to:

- Further active participation of Polish official statistics services in works of international group and teams in the scope of development of statistics under ESS, e.g. modernization of social statistics, integration of business statistics (FRIBS).
- Continuation of development activities conducted under international grant projects.
- Strengthening substantive preparation for meetings on the international arena.
- Works under the implementation of specific projects implementing the provisions of the ESS Vision 2020 – common strategic document of the European Statistical System replying to challenges faced by official statistics. The activities will be performed, among others, under the appointed Vision Implementation Network (VIN) the CSO is a member of.
- Cooperation within *the Eastern Partnership*
 - under *Development Cooperation Plan for 2015* of the Ministry of Foreign Affairs, the Polish official statistics will pursue the project directed to official statistics of Georgia entitled *Support the development of the Georgian System of Public Statistics in the field of environmental statistics*,
 - under *Multiannual Development Cooperation Programme 2016-2020* of the Ministry of Foreign Affairs, it is planned to continue long-term cooperation with Moldova and Georgia and it is considered to begin cooperation with Ukraine,

- activities under the Eastern Partnership's Panel of Statistics (from the beginning of 2015), among others, through presentation by representatives of the CSO of the issues concerning short-term statistics and labour market statistics.
- Further development activities in the area of cross-border cooperation, e.g.:
 - negotiations are in progress in order to launch cooperation with the Slovak Regional Statistical Office in Zylina,
 - in 2016 it is planned to organize in Poland a meeting of experts of Eurostat, Slovakia and the Czech Republic about surveys on prices of building facilities for the needs of determining Purchasing Power Parity (PPP).
- Continuation of activities related to organization of study visits and receipt of interns from non-EU countries. It is planned that e.g. in 2015 under the IPA program 5 people will undergo internship.

Objective 2: Strengthening the position of official statistics as the main, reliable, plausible and independent source of statistical information in the country; improving cooperation and communication with respondents and users of statistical information

Completed development activities

- Development of cooperation with the scientific environment

The CSO and regional statistical offices develop cooperation with universities and scientific institutes. New or updated valid agreements on cooperation and agreements with universities and scientific institutions are concluded. Depending on the needs, bilateral agreements are concluded, i.e. between unit of the official statistics services and a scientific entity, or trilateral agreements between a statistical office and the CSO and a scientific entity. Cooperation includes, among others, involvement in research and analytical projects performed by official statistics services, organization of scientific conferences and seminars, works with regard to improving methodology of statistical surveys. Proposals of changes in survey methodology are assessed by the Methodological Commission that is advisory authority of the President of the CSO, competent in this respect. The Methodological Commission consists of representatives of scientific environments representing different fields of science.
- Making it possible to conduct analyses for scientific purposes on the data of unidentifiable unit data, the so-called position for scientists.

In the CSO and statistical offices there is a possibility to make available, for scientific purposes, unidentifiable unit data on specially prepared computer workstations. Unit data are disseminated in safe environment, which means that they may be processed without the possibility of copying. Processing is conducted with the use of SAS software, giving the possibility of work on econometric models.

- Cooperation with government and local government administration bodies, including participation in works of teams, task groups, monitoring committees as well as under concluded agreements.

Representatives of the official statistics services, both at the national and regional level, co-participate in developing methodological and organizational solutions related to the implementation of national and international legal requirements with regard to statistics and, with development of common surveys and exchange of information, serve as experts and consultants when establishing priorities and assessing the adopted solutions as part of development strategies and programs, assessing the effects of implementation of policies and recommendations of changes concerning improved design and implementation of programs as well as their analysis in terms of effectiveness, efficiency and impact. Official statistics is also provider of data and indicators necessary to create and monitor development documents.

- Development of cooperation with the mass media, especially at the regional level, through: development of a base of permanent contacts with the mass media, preparation and sending of press notes, organization of press conferences, interviews and briefings, articles devoted to official statistics in periodicals, including cyclic periodicals.
- Promotional activities addressed to users of statistical information, among others: lectures and information and promotional stalls, free transfer of publications and promotional-information materials, organization of open doors in the CSO and statistical offices, sending of links referring to websites with news, honorary patronages of the President of the CSO and directors of offices, participation in mass events (Polish harvest festival, job fairs), running a web blog.
- Development of cooperation with local government, local government administration (social dialogue commission), business environment and schools, among others, through: preparation of information materials supporting decision-making processes of public administration, participation in projects with regard to preparing diagnosis of the socio-economic situation and evaluation of changes taking place, active participation in working teams, task groups conducted by local public administration units, preparation of thematic regional analyses according to the needs of local authorities, consulting of curricula at higher schools.
- Modernization, under the project SISP-2, of Statistical Information Offices in the CSO and in Centres of Regional Information operating in 16 statistical offices, combined with lifting employee qualifications and skills with regard to communication with customer (including delivery of trainings and public speeches).

The function of Information Offices is statistical education of users and dissemination of knowledge about statistics. Every Information Office serves also as a statistical library and storage area of collections of statistics publications, disclosing to users multifunctional electronic catalogues, compatible with all official statistics units.

- Extension of the information offer by making it possible for users to use new and modernized systems of sharing and analysing statistical data.

Assessing achievement of objectives in the area

Actively developed cooperation with scientific environments increases thematic and methodological innovation of statistical surveys carried out by official statistics, as well as quality of statistical analyses. Jointly implemented research and analytical projects enable identifying new potential sources of information as well as research solutions which, after assessment of quality and adjustment to methodological standards binding in official statistics, may be implemented into the statistical information system. The object of works as well as consultations and evaluation in the years 2012-2014 covered e.g.:

- issues related to methodological changes in surveys relating to: human capital, market of works of art, e-administration, intermodal transport, innovative activities of companies, activities with regard to nanosciences and nanotechnology in the public sector and companies,
- development directions of new methods (e.g. mixed mode – that may potentially have a significant impact on relevance and reliability of surveys) and measurements in statistics (for instance, in the scope of flash estimates of quarterly gross domestic product, identification of the mechanisms and course of the business cycle for Poland, calculating indicators of the economic situation in agriculture in extended sections, preparing indicators of measurement of social welfare in Poland, estimates of illegal activities in Poland),
- the issues relating to: integration of statistical surveys (e.g. on trips – for the purposes of statistics of tourism, national accounts and balance of payments), satellite accounts (e.g. science, culture), use of data from administrative sources and combining them with statistical data.

Started discussions on the statistics system modernization allowed identifying methodological problems related to the development of the official statistics system in program, organizational and technological terms (e.g. common variables for the needs of various surveys). Organized together seminars and scientific conferences contribute to perceiving official statistics resources as a commonly available source of high quality statistical data, prepared according to specific methodological standards, and HR resources of statistics as a holder of advisory and expert knowledge in the field of statistical surveys. Purpose and grounds for contracts with universities and scientific institutions are verified on a regular basis. The level of cooperation depends on needs and possibilities of official statistics services and scientific units.

The result of initiating permanent contacts with the mass media, including information and educational activities, is more frequent use of statistical data in materials as well as gradual improvement in the quality of press comments using result statistical information which, consequently, makes society treat more favourably activities of official statistics.

Promotional and information activities, targeted at a wide group of users, popularize knowledge about official statistics.

The activity of official statistics units, especially in regions, in the development of cooperation with government administration, local government and the business environment contributes to systematic strengthening of the positive image of official statistics and perceiving it as a partner in current activity and creating and monitoring development policy.

The purpose of modernization of Information Centres was to ensure proper working conditions for users of the Directing Information System (SISK) and shared, when using it, official statistics resources,

including systems constructed and shared within SISP and SISP-2 projects. The task regarding modernization of statistical Information Centres was fully completed. Statistical Information Centres were equipped with measures making it possible to continue substantive work with regard to building a strong position of official statistics in each region of Poland.

Further activities

- Continuation of activities aimed to tighten cooperation with universities and scientific units in the scope necessary to reinforce the potential of official statistics.
- Systematization of cooperation with external partners, concerning research and analytical projects, in order to avoid doubling of activities.
- Further development of cooperation with authorities and other institutions preparing development programs and socio-economic decisions.
- Continuation of activities related to:
 - dissemination of statistical knowledge,
 - statistical education of all user groups,
 - promotion of official statistics, including expansion of knowledge of users about development directions of regional surveys and new products offered to recipients by statistics,
 - building of a strong position of statistical offices as a reliable source of statistical data about region for all user groups, including cooperation in the scope of development of statistical surveys significant from the point of view of the specific nature of a region, and improvement in the forms communication with statistical information recipients.

Objective 3. Building a statistical education system which constitutes a source of statistical knowledge for respondents and users of statistical information, as well as a being a tool for improving the qualifications of employees of official statistics services

Completed development activities

- Preparation of a diverse offer of traditional and e-learning training, dedicated to internal and external recipients.

In 2014, more than 2000 of dedicated trainings were delivered to employees of official statistics units, including interviewers. Also e-learning trainings were launched for employees (altogether 20 trainings were prepared).

External users could benefit in total from more than 900 educational activities (trainings, lessons, competitions, meetings, conferences, seminars and open days).

Based on the results of the survey on educational needs of selected user groups conducted in 2014, the educational offer targeted at external users was diversified and adapted to the needs of particular user groups:

- government administration – trainings in official statistics database system (including in operation of the STRATEG system), participation in working meetings related to preparation of selected surveys conducted by the CSO, preparation of publications with survey results,
 - local government administration – trainings in running statistical surveys and analyses (with particular focus on workshops in operation of the STRATEG system), the possibility of participation in conferences, preparation of publications about particular regions, constant cooperation with regard to Centres for Regional Research (OBR),
 - children and school teenagers – lessons (familiarization of pupils with statistic terms, skill of analysis and presentation of statistical data), competitions of knowledge about statistics, educational games,
 - students – lectures on statistics combined with workshops in data analysis and presentation (including systems and bases STRATEG, BDL and other CSO databases), competitions for M.A. thesis, the possibility of participation in thematic conferences, materials for unaided studying on the Educational Portal, thematic publications, the possibility of participation in internships and trainings in particular official statistics units,
 - research workers – the possibility to participate in thematic conferences, thematic publications,
 - general public – open days, Educational Portal; actions focused on creating awareness about the importance of statistical surveys.
- Organization in 2014 of trainings under the SISP-2 project.
Trainings under the project covered both IT training in handling projects as well as training in soft competences. In 2014, employees of statistical offices involved in educational activities participated in trainings raising competences related to delivering speeches and customer service.
 - Launching the Educational Portal.
The Educational Portal (available as one of thematic tabs on the CSO Information Portal) is a place where the most important information about official statistics is presented, concerning, among others: organizational structure of official statistics services, the most important surveys conducted by official statistics, statistical data quality components. It is also a source of information about long-term history of the CSO and history of population censuses in Poland.
The Portal contains tabs designed for the youngest users. They include educational games concerning statistical issues, addressed to various age groups. Students and the unemployed can become familiar on the Educational Portal with the offer of trainings and internships prepared by the CSO along with requirements necessary to start training or internship.
The Educational Portal contains also current information about current events, organized conferences, seminars, competitions and contests.
 - Works for the purpose of coordinating educational activities.
Standards of educational activities targeted at external and internal beneficiaries were determined both in terms of educational activities and staff performing the above task. Among others, the following elements were introduced: visual identification system for activities related to statistical education (logo, colours). The scope and way of presenting information in educational tabs on statistical offices' websites were determined. Additionally, on the Corporate Portal was created a website for individuals dealing with statistical education. It is used

for the dissemination of good practices, e.g. scenarios of lessons, lectures and common work on new tasks.

- Appointment of the Statistical Education Council.

The Statistical Education Council (RES) was established by regulation no. 17 of the President of the CSO of 22 May 2014, for a three-year-long term of office. The Council is an opinion-making and advisory body of the President of the CSO on matters related to the functioning and development of statistical education. The main tasks of the Council include recommending directions for the development of the statistical education system, issuing opinions on projects of educational activities presented to the President of the CSO (including annual statistical education plans), evaluating the state of the functioning of the statistical education system and drawing conclusions in this regard evaluating cooperation between official statistics and higher-education institutions and other national scientific units in respect of the statistical education system, as well as making recommendations in this regard , developing indicators to measure the results of the statistical education system. The Council includes representatives of units subordinate to the President of the Central Statistical Office and the Ministry of National Education, the Ministry of Science and Higher Education, the Ministry of Finance, and the National Bank of Poland.

Assessing achievement of objectives in the area

As a result of development activities undertaken until 2015 in statistical education, different groups of statistical information users, including representatives of government and local government administration, scientific and academic environment as well as school environment have a possibility to increase the level of their statistical knowledge. Thanks to performing educational activities already among kindergarten children, through all stages of education and future professional development, habits of using information and statistical survey results are shaped. Very great interest of schools in the conducted educational activities proves the need and effectiveness of execution of this type of activities.

The popularization of knowledge about official statistics and various aspects of its application contributes to growth in interest of users in the results of statistical surveys, and broader use of official statistics resources, as well as to lifting the quality of reports and surveys transferred by respondents.

In the case of employees of official statistics services, thanks to preparing a diverse educational offer corresponding to the actual needs of official statistics staff, and thanks to disseminating educational tools (as the Educational Portal), the level of employees' competence is growing systematically, in proportion to tasks of official statistics.

In connection with emergence of new aspects concerning the Statistical Education System Concept, which requires analysis and increased amount of labour and time, the schedule of its implementation is subject to periodical updates.

Further activities

- Development of a base of e-learning trainings, and hence the application of the blended-learning system to educate both internal and external beneficiaries.

- Appointment in 2015 of the Editorial Staff of the Educational Portal, whose task will be both preparing materials for publication in the Educational Portal as well as approving articles transferred by authors from organizational units of official statistics entities. The Editorial Staff will include also individuals whose task will be ensuring technical support for functioning of the Educational Portal.

- Systematic expansion of the content of the Educational Portal.

In the future, the Educational Portal will contain information about the most interesting issues related to statistics at the academic level. Part dedicated to teachers of different types of schools will contain materials and didactic aids devoted to the statistical issues (e.g. ready scenarios of classes) - for use during classes conducted in school, and the offer of educational classes for various age groups, prepared by the CSO and regional statistical offices. Plans include also virtual exhibitions devoted to archive documents.

- Preparation of educational offer and launch of educational activities on a large scale, addressed to users of the mass media for the purpose of a more effective use of the mass media to disseminate knowledge about official statistics and its role for the national economy, as well as raising awareness of users of statistical information about this topic.
- Improvement in training skills of official statistics workers performing educational activities. In 2015, *Program of Internal Coaches* will be implemented, used mainly to raise the quality of workshops and trainings delivered by official statistics workers for external beneficiaries.
- Undertaking organizational and program activities, related to full implementation of the Statistical Education System Concept, including standardizing procedures for implementation of educational activities in particular official statistics units. At the moment, educational tasks have been standardized at the stage of their planning, however, a uniform procedure of their implementation is still missing.
- Preparation of the concept of cooperation with national scientific entities regarding statistical education.

This task was initiated through common launch with the Warsaw School of Economics (SGH) of the 1st edition of Extra-mural PhD Studies for employees of official statistics units. It is planned to deepen cooperation with scientific entities involved in statistics, including to launch at the Collegium of Economic Analysis SGH of the 1st edition of postgraduate studies *Social and economic analyses methods* (in October 2015)

- Organization in the school year 2016/2017 of the 1st National Contest of Knowledge about Statistics.
- Continuation of works aiming at development of skills, competences and knowledge of users, in particular pupils, students, employees of public administration, representatives of the mass media.
- Development of cooperation with foreign statistical entities regarding statistical education, including:
 - preparation of the concept of cooperation with other foreign statistical entities (scheduled at 2016),
 - involvement in works for launching the program of European studies in statistics – European Masters in Official Statistics (EMOS).

Area 2.

Integration of Official Statistics System

Objective 1. Introducing legal changes which strengthen the coordinating role of the President of the CSO in the Polish official statistics system

Completed development activities

- Preparation of the draft Law on amendment to the Law on official statistics and other acts.

In November 2014, the draft Law was adopted by the Council of Ministers and submitted to the Sejm. First reading of the draft was held on 17 December 2014. The Sejm passed the Law on 9 April 2015, which then – with no amendments on the part of the Senate – was signed by the President of the Republic of Poland (27 May 2015) and was published in the Journal of Laws under item 855 on 22 June 2015.

Assessing achievement of objectives in the area

Development activities related to the introduction of legal changes strengthening the coordination role of the President of the CSO in the system of official statistics, planned at the stage of preparing *Development Directions* (2012), assumed introduction of a new law on official statistics. In connection with the need of as quick as possible regulation of the issue of access of official statistics to the data used for the purposes of implementation of the annual programme of statistical surveys of official statistics, a decision was made to change the concept and prepare amendment to the existing legal regulations regulating the bases of functioning of official statistics. The scope of the amendment focused mostly on the issue of data acquisition and processing, including personal data. It included also regulations relating to the cooperation role of the President of the CSO. It was planned in the amendment, among others: a new formula of the programme of statistical surveys of official statistics, including technological changes in the process of statistical data collection, including resignation from a separate executive act concerning model statistical forms. Instead detailed formats of data transfer were introduced: they will be published on the Central Statistical Office's website and additionally on websites of bodies or entities running statistical surveys. When selecting data sources, the amendment puts emphasis on such factors as: data quality, their relevance and burdens borne by respondents, which is associated with the use of the data located already in information systems of public administration and official registers. As a result, provisions were introduced allowing the President of the CSO to report to entities and bodies requests for information content and requirements of administrative data quality for the purpose of their use for the needs of official statistics.

Further activities

- Preparation and introduction to the legal system of a new law regulating, comprehensively and adequately to the contemporary reality, principles of operation of official statistics system and the coordination role of the President of the CSO in this system.

- Works intended to strengthen the cooperation role of the President of the CSO in the Polish statistical system by cooperation with other producers of official statistical data, including under improvement of domain statistics, with particular focus on the quality of statistical products.

Objective 2. Coordination and standardisation of surveys conducted in the Polish official statistics system

Completed development activities

- Development (within SISP and SISP-2 project) of IT tools supporting standardization and coordination of statistical surveys of official statistics:

- building of the Statistical Metadata System (SMS),

SMS is a central source of statistical metadata, kept and used in official statistics which may be grouped in many ways, depending on the adopted criteria of division. The following division of statistical metadata was applied:

- survey metadata – metadata describing statistical surveys,
- definition metadata – metadata describing notions and key assumptions e.g. classifications, elements of the Glossary of Terms, questions and sets of questions (precedents),
- methodical metadata – metadata referring to methodologies of statistics production processes, e.g. selection of sample, data collection method, edition processes,
- system metadata – metadata used during data processing, e.g. identifying publications, collections and databases, dates of modification, sizes of collections, methods of access to databases, mapping between logical and physical names, notes for particular cells,
- operational metadata – metadata generated as a result of implementation of the procedures, e.g. times of inquiries execution, frequency of system errors,
- quality metadata – indicators describing quality and efficiency.

SMS contains also information describing data stored in databases of the CSO. On the other hand, definitions of relations of metadata with data in the structure of the Central Statistical Office's warehouse bases are maintained on the part of these warehouses.

An additional coordination and standardization element of SMS is the Repository of Information Standards (RSI) constituting a database of knowledge (metadata) about public administration information systems.

Under SMS also an SPBS module was built, whose function is to improve the process of planning statistical survey and enable monitoring its course.

- creation of the Classification Server in which the following classifications were placed:
 - Polish Classification of Activities (PKD) 2004 and 2007,
 - Polish Classification of Goods and Services (PKWiU) 2004 and 2008,
 - Classification of Fixed Assets (KŚT),
 - Polish Classification of Types of Constructions (PKOB),
 - Combined Nomenclature (CN) 2011, 2012, 2013, 2014, 2015,
 - Classification by Broad Economic Categories (BEC),

- Standard International Trade Classification (SITC),
 - Classification of Occupations and Specializations (KZiS) 2012 and 2014,
 - Standard Goods Nomenclature for Transport Statistics (NST) 2007,
 - Waste Classification 2002,
 - Classification of the Functions of Government (COFOG),
 - Classification of the Purposes of Non-Profit Institutions Serving Households (COPNI).
- Conducting activities standardizing surveys in the field of social statistics and labour market:
 - harmonization of the scope of statistical forms and definitions of the ministry of health, internal affairs and the CSO; integration of data from the Ministry of Internal Affairs, Ministry of National Defence and the Ministry of Health,
 - introduction of standardized *core variables* to social surveys,
 - modification of the Classification of individual consumption by purpose (COICOP),
 - preparation of methodologically harmonized survey system regarding domestic and foreign trips of Poles and foreigners coming to Poland (conducted works involved integration of 4 surveys on tourism),
 - implementation of a dictionary of synonyms of occupations according to the Classification of Occupations and Specializations as a standard in surveys regarding labour market.

Assessing achievement of objectives in the area

The Statistical Metadata System was prepared in order to implement the tasks related to gathering metadata in the designed structures and their dissemination. Gathering in the SMS Repository centralized metadata resources, which will be a base for implementation of typical processes of official statistics (designing surveys, processing data and dissemination results), by the standardized course of processes, their harmonization, integration and elimination of redundancy of performed tasks will improve coordination of statistical production processes and their management. Centralization of metadata resources means also consistent and uniform understanding of statistical variables and applied classification, and thus providing data users with more comprehensive and consistent data description. Direct SMS users are units in charge and organizing surveys and owners of information systems, constituting sources of data for statistics. Other statistics users use resources of the SMS Repository, in an indirect way, i.e. through uniform and consistent description of statistical data or area of metadata shared on the Central Statistical Office's websites.

The Repository of Information Standards is a base of information standards. Collecting in one place knowledge about informational resources of various public administration units, including the scope of data, the adopted methodology, definitions of information features, applied classifications and identifiers and making them available to all concerned parties enables other units to use better administrative data, which contributes to raising the quality of the information system of the state and to increasing interoperability of the systems. An important advantage is ease in access to such information presented on the website of the CSO.

Thanks to creating uniform environment for designing subjective and objective scopes of surveys and using common definitions of metadata and using the same validation rules, the quantity of incorrect data collected in the course of surveys will decrease and comparability of survey results will increase.

SMS and its modules were initially supplied with possessed, but so far dispersed information. Works are underway related to their verification and consistency as well as introduction of a broader scope of metadata as stipulated in particular models.

Activities completed now and in the future years will allow improving effectiveness of cooperation of official statistics services and other bodies running statistical surveys under the system of official statistics with regard to survey standardization.

Further activities

- Broader implementation of SMS and its maintenance and development.

Activities associated with standardization, including the use of common methods and tools that are used to ensure premium quality of statistical data, require great commitment of both experts from the field of statistics and IT specialists. Works related to SMS implementation involve all official statistics units, according to their competences.

- Development of cooperation with the present and future administrators of public administration information systems aiming at filling the repository with information about information standards.

Efficient functioning of the Repository of Information Standards requires permanent cooperation of the CSO and other public administration units – administrators of systems, in particular with regard to the description of systems and setting of uniform and consistent information standards in public administration. When describing systems in RSI, public administration units will both use information already gathered in other elements of the system, i.e. conceptual, identification and classification standards, and introduce necessary new information, from their competence area. As a target, RSI will become a place of gathering descriptions of public administration information standards.

- Continuation of works with regard to national and international harmonization of statistical surveys, including:
 - participation in developing common (OECD, Eurostat, WHO) international definitions and methodological descriptions of terms, in order to increase data comparability; implementation of the adopted definitions in national statistical surveys,
 - on-going update of *core variables* and COICOP, depending on Eurostat recommendations and needs of national recipients,
 - updating the scope of the collected data to changes in the regulations concerning European statistics in the field of tourism and balance of payments and national accounts; improvement in methodology of surveys on travel and estimation of cross-border traffic,
 - development of the methodology of integration of variables concerning the labour market under work accounts.

Objective 3. Improving tools enabling the standardisation of administrative records used as information source for official statistics

Completed development activities

- Implementation of electronic exchange of data about schools and educational institutions between the REGON and the Register of Schools and Educational Institutions, comprising the Educational Information System (SIO), kept by the Ministry of National Education.
- Dissemination – at the request of the Centre of Health Protection Information Systems – Web Service, allowing collecting to system of the Register of Entities Performing Medical Activities data from the REGON register, in order to achieve consistency with regard to entries of entities performing medical activities.
- Implementation of electronic exchange of data between REGON and the National Court Register (KRS) from December 2014 and acquisition, electronically, of supplementary data for entities entered in KRS from the Central Business Entity Register - National Taxpayer Register from January 2015.
- Automatic provision of information about identification numbers immediately after their assigning) via the data communications system in the Central Register and Information on Economic Activity (CEIDG), Register of Schools and Educational Institutions and in the National Court Register.
- Implementation in 2014 of the new REGON register (built under the SISP project), including:
 - dissemination on the website of the CSO, a modernized search engine, allowing access to information about entities entered in the REGON register, currently updated with data from the register,
 - enabling using access to registration data of REGON via a web service – API interfaces. This is a network service sharing data from the REGON register to authorized government administration bodies and local government bodies and other government institutions (according to Art. 44 of the Law on official statistics) and commercial entities. Service programming interface (API) allows searching REGON resources according to the selected criteria and browsing and displaying results directly at the level of data communication systems of recipients.
- Modernization of past solutions regarding dissemination and transferring data from the TERYT register, including:
 - expansion of the present module of the Public Base of TERYT Register to an additional functionality TERYT_ADR which allows disseminating dictionaries through a web portal of the Central Statistical Office: TERC (System of identifiers names of territorial division units, SIMC (System of identifiers and names of towns) and ULIC (Central catalogue of streets) adapted to encode addresses,
 - preparation of a new network service (Ws1) permitting automatic disseminating with internal and external system users unit data and mass data from the catalogues: TERC, SIMC and ULIC (in official, address and statistical version).

Assessing achievement of objectives in the area

The completed development activities with regard to the REGON register improved data acquisition, being the basis for entries or their update in the register. Thanks to modernization of the REGON register system the time of registration of entities is shorter, and the information about registration numbers assigned to them will be returned electronically to relevant registers (KRS, CEIDG, SIO). An important thing, from the point of view of external recipients, was to prepare tools ensuring free access to data in the register, ensuring disseminating of data from the register on the current basis, immediately after updating the data of national economy entities. The set objectives were achieved.

The completed development activities with regard to the TERYT Register made it possible to streamline electronic access to the register for public administration offices, entities of the socio-economic life and citizens, contributing, at the same time, to popularization of identifiers in this register as a standard for territorial identification of objects collected in other registers and records.

Further activities

- Continuation of activities aimed to increase the degree of integration of the REGON register with other national registers and records, listed in the commonly binding legal regulations. Works aimed to improve operation of the IT system of the REGON register and adapt to changing legal conditions will be continued.
- Construction of a new module of the Public Base of the TERYT Register, enabling disseminating the register catalogues for the needs of individual users.
- Works on a solutions that facilitate acquisition, for the needs of updating the TERYT Register, of data from the Records of Towns, Streets and Addresses, kept by offices of gmina and from the State Register of Borders and Areas of Territorial Division Units of the Country.
- Continuation of cooperation with the Head Office of Geodesy and Cartography with regard to creating and implementing technical infrastructure of the integrated system of information about real estate - pursuant to the provisions of the Regulation of the Council of Ministers in this respect.
- Creation of an Internet application, which performs functions related to running and updating the list of identifiers, names of territorial division units of the country and territorial units for statistics – suitable for the new database platform.

a. Demographic and Social Statistics

Objective 1a. Development of statistics significant for the assessment of current demographic situations, and the prospects for population development

Completed development activities

- Preparation and popularization of results of the national population and housing census 2011 (NSP 2011) in connection with the analysis of the current demographic and social situation of Poland.

Popularization of *Report on the results of NSP 2011*, as well as information (including analysis of data in time retrospection) in all thematic areas, i.e.:

- *Population. Demographic and social condition and structure,*
- *Households and families. Demographic characteristics,*
- *Population and households. Socio-economic condition and structure (part I and II),*
- *Economic activity of the population of Poland,*
- *Selected aspects of economic activity of population,*
- *Commuting,*
- *Foreign migrations of population,*
- *Internal migrations of population,*
- *Results related to the national and ethnic, language and religious structure of the population of Poland.*

- Implementation of study works and surveys enabling monitoring of demographic processes and acquiring information about demographic and social and economic conditions of their course.

One of the elements enabling monitoring demographic and social processes is information about transformations within families. In 2014, works were undertaken on recognition of available data about families – acquired in social surveys - to use them to prepare cyclic data in this respect. The works apply to methodological issues and possibilities of preparing selected indicators.

- Preparation and implementation of cyclic polls concerning migration of population and polls involving minority community members living in Poland; cooperation with neighbouring countries.

In the 2nd quarter 2014 a modular BAEL survey *Situation on the Labour Market of Migrants and Their Descendants* was conducted.

Cooperation is conducted with representatives of statistical offices in the UK and Germany, consisting in the exchange of experience with regard to migration surveys.

- Preparation of new long-term demographic forecasts of population and households for the country, regions and local units – on the basis of results of NSP 2011.

In October 2014, the demographic forecast of population until 2050 for Poland and voivodeships, and in December 2014 the demographic forecast for poviats were published.

In 2014, methodological works started on the forecast of residents – with regard to methods of estimating long-term unregistered migrations (emigration and immigration, drains and flows), preparation of the forecast of residents (depending on the type of input data), and reverse balances of population of residents and reverse recalculation of demographic factors.

Also methodological works were undertaken with regard to the forecast of households.

- Works aiming at the implementation of the system of automatic coding of causes of deaths and acquisition of data about deaths directly from medical documentation.

The system of automatic coding of causes of deaths (the so-called IRIS application) is specialized software recommended by Eurostat as a tool supporting work of a physician-encoder by improving the process of automatic coding of causes of deaths.

Official statistics services are preparing the IRIS system for implementation in Poland. Apart from the implementation of IT assumptions, the adaptation of the system to the Polish conditions requires extensive substantive support with regard to preparation of dictionaries and logical linkages of disease processes and medical events on the part of medical experts of the Ministry of Health – the institution responsible for proper coding of causes of deaths.

Currently, the system is undergoing surveys. Its implementation is planned after introducing the electronic transfer of records of causes of deaths, i.e. after introducing the so-called death e-card, enabling loading information directly to the system.

Assessing achievement of objectives in the area

Analyses with regard to demographics and population development prospects, subject to the retrospection of the course of processes and in connection with the socio-economic situation of the country were conducted and used when setting the assumptions for demographic forecasts, including migrations. They were supporting also preparation of estimates of the number of emigrants staying temporarily abroad. The result of these works is prepared and popularized Polish, voivodeship and poviats demographic forecast of population for the years 2014-2050.

To describe selected population groups, data from NSP 2011 and from current surveys on deaths, births and contracted marriages were largely used. In 2014, an analytical study was prepared concerning the demographic situation of elderly people and consequences of aging population structure in the light of the forecast for the years 2014-2050.

In the period to 2014, the development activity regarding surveys covering minority communities living in Poland as well as cooperation with neighbouring countries was not performed. A methodology work was planned, relating to minority communities living in Poland, assuming, among others, cooperation with neighbouring countries. First attempts were taken of initiating cooperation with Ukraine (country where most immigrants come from) with regard to migrations, however, owing to no interest on the part of Ukraine, cooperation was not established. The activity will not be continued until 2017, due to the political situation in Ukraine.

Further activities

- Popularization of the results of the forecast of households until 2040 and the demographic forecast of residents in Poland until 2050
- The implementation of activities concerning building a system of surveys on the family.
- The implementation of surveys devoted to special groups of population with the use of data from social surveys conducted in the CSO, among others, BAEL, EU-SILC.
- The implementation, in cooperation with the Ministry of Health, of the automatic system of coding of causes of deaths as a system supporting work of physicians-coders and acquisition of data about deaths directly from medical documentation via the Platform P-1 (Electronic Platform for Collection, Analysis and Sharing Digital Resources about Medical Events).

Objective 2a. Development of surveys and analyses concerning social development issues, including the quality of life, human and social capital, the phenomenon of poverty, as well as social exclusion

Completed development activities

- Extension of the scope of analyses concerning the issues of social development.
The publication issued in 2013 *Poverty in Poland in the light of surveys of the Central Statistical Office* presents, among others, information regarding the scope of economic poverty on the basis of surveys on household budgets. On the basis of the results of *the European Union Statistics on Income and Living Conditions* (EU-SILC), the scope of poverty was discussed in Poland in comparison with the European Union and indicators of risk of poverty and social exclusion were presented. This paper presents also the analysis of multidimensional poverty and use by households of different forms of assistance, on the basis of results of the new multi-aspect *Survey on Social Cohesion*, which was conducted in 2011. More information about the results of this survey is presented in the publication of 2013 *Quality of Life, Social Capital, Poverty and Social Exclusion in Poland*, which contains an in-depth analysis of multi-dimensional poverty and social exclusion as well as quality of life, social capital in network dimension and involvement in socio-religious activities. In both publications, data are presented by different territorial sections (regions, voivodeships and classes of towns of residence) as well as socio-economic and demographic features of households and people (age, sex, disability, unemployment, economic activity, source of maintenance, biological type of household, education, etc.).
- Works with regard to integration of data about quality of life from many sources. Approximately 60 objective and subjective indicators were prepared on the basis of surveys carried out by the CSO or obtained administrative data. These indicators were grouped in 10 thematic areas: material living conditions, main type of activity and work, health, education, free time and social relations, economic and physical safety, the state and basic rights, civil activity, quality of the environment at the place of residence, subjective welfare.

- The second edition (the first was issued in 2011) of *Survey on Social Cohesion* was extended, among others, to the scope of questions concerning social capital (including norms, values and the sense of trust), whereas questions concerning digital exclusion and virtual social capital were modified and the scope of questions concerning involvement in socio-religious activities was extended.
- Reconstruction and adjustment of the content of survey questionnaires from surveys on household budgets, surveys on the condition of households and on time budget to the demand reported by data users.
- Conducting a detailed analysis of results of the survey on time budget made in 2013 and presenting them in a two-part publication *Budget of time of population in 2013*. The first part of the publication, apart from analysis of the results, contains also the valuation of time of own work in households, an innovative attempt to estimate production of households, comparative analysis with the results of the previous survey from before ten years and analysis of time budget of children aged 10-14 years (the data obtained for the first time for this age group). The second part of the publication, which is planned for the 4th quarter of 2015, will contain, among others, analysis of the phenomenon of accompanying activities, rhythms of activities, changes related to life cycle as well as analysed for the first time subjective assessment of time devoted to performed activities.
- The survey of social and economic dimension of activities of organizations from the non-profit sector was extended to the missing groups of entities – political parties and the trade unions, creating a complex system of acquiring and processing data in this respect, taking into account both data from reporting surveys and from approximately 20 administrative sources. In 2012, the publication *Voluntary service in organizations and other forms of non-profit work outside a household 2011* was issued, presenting the results of the first in the Polish official statistics survey aimed to measure social and economic importance of work provided voluntarily and in non-profit way beyond own household. Not only was the survey, implemented as a module to BAEL, consistent with the methodology developed by the International Labour Organization with regard to the measurement of voluntary service, it was also the second in the world and the first in Europe implementation of this methodology. The methodological standard for the measurement of voluntary service developed in the survey *Non-profit work outside a household* was implemented also to the *Survey on Time Budget* and *Survey on Social Cohesion*.
- Preparation – as part of activities related to the development of social capital analyses in 2013 – of synthetic indicators of the manifestation of social capital at the meso level (between organizations and institutions), on the basis of data on the cooperation of non-profit organizations with other entities. The indicators were published in an information memo *Social capital at the meso level – cooperation of third sector organizations*.
- Appointment of a team for human capital, whose task is to prepare indicators in this field using available information from various sources. These indicators characterize in particular: access to education, participation at different educational stages and skills obtained during education.

Assessing achievement of objectives in the area

The adopted and gradually implemented concept of multidimensional measurement of quality of life, including introduction of survey on social cohesion, provide the basis for conducting complex analyses of both objective and subjective aspects of quality of life and various socio-economic phenomena and processes.

The analyses prepared and published in the discussed period present the image of social life in Poland, with particular focus on multidimensional poverty and social exclusion, quality of life and social capital.

The presented indicators of risk of poverty and social exclusion are used to monitor the achievement of objectives of the Europe 2020 Strategy.

With regard to the integration of data coming from many sources concerning broadly understood quality of life, a significant progress was made. Under the works of the Team for quality of life a set of indicators was developed, enabling evaluation of important areas of quality of life. These indicators were published in the folder *Quality of life in Poland. 2014 edition*.

Extension of surveys on the non-profit sector enabled creating a complex and consistent system of surveys. Covering with statistical observation of all types of entities being part of the sector enables presenting data about particular types of organizations: associations, foundations, political parties and the trade unions. In addition, it creates a rich, multidimensional image of the whole sector and enables evaluating its significance in the national economy.

Works on the range of questionnaires for surveying household budgets, surveying the condition of households and surveying time budget and methodology of surveying human capital were a response to the demand reported by data recipients. The data collected thanks to these surveys are an important basis for conclusions about many aspects of quality of life of population.

Further activities

- Conducting the *Survey on Social Cohesion* with the extended scope (publication of results in the 4th quarter of 2015 and in 2016).
- Improving further and extending analyses with regard to broadly understood quality of life, social capital, poverty and social exclusion, on the basis of the results of the *Survey on Social Cohesion* and other polls; issuing analytical and methodological publications in this field.
- Continuing works concerning indicators that monitor quality of life (development of supplementary and contextual indicators, construction of time series, calculation of indicators including selected breakdowns and publication of the folder *Quality of life in Poland*).
- Running implemented polls and developing their methodologies for the purpose of their more complete integration and coverage of information gaps concerning quality of life.
- Extending surveys on social economy to other than non-profit organizations types of social economy entities.
- Updating surveys regularly, depending on recommendations of Eurostat or needs of national recipients.

- Continuing works on updating data used to calculate indicators related to human capital and publishing indicators in the STRATEG database.
- Issuing an information folder about the diversity of the condition of human capital in subregions of Poland.

Objective 3a. *Development of surveys regarding labour market; preparing comprehensive analyses of the labour market*

Completed development activities

- The execution of tasks with regard to the development of survey methodology on the labour market aiming at satisfaction of domestic and foreign information users, including:
 - extending the subjective scope of surveys on working conditions in Poland to additional variables (concerning stress and mobbing and risks of physical factors), in the modular survey to the *Labour Force Survey* (BAEL), conducted in 2013,
 - cooperation with the Central Labour Protection Institute - State Research Institute (CILP-PIB), the Ministry of Labour and Social Policy and the National Labour Inspectorate, as regards collection and dissemination of the information on working conditions in Poland (exchange of unidentified data, common analyses, work on data consistency),
 - executing, during BAEL in the 4th quarter of 2014, a modular survey in which additional information was obtained on individuals performing work under non-standard forms of employment and on type of contract and cause of its conclusion,
 - preparing *Survey on working time organization and distribution* that will be completed in 2015 as BAEL modular survey. The survey will provide information about: individuals working at 15 years of age and more by demographic features, possibility to use flexible forms of working time organization, availability and need to adjust working time to performed tasks, degree of employees' autonomy in the scope of their tasks.

- Running analyses of the labour market considering various factors of its development
Using information obtained under the surveys carried out by the CSO and data from administrative systems of the Ministry of Finance and the Social Security Institution, e.g. the following was estimated: the number of individuals receiving remuneration in the amount at most statutory minimum, self-employed and working only under a mandatory contract or contract for a specific work. The data were published for the years 2012 and 2013.

- Developing employment quality indicators according to the recommendations of the UN Economic Commission for Europe (UNECE).

On the basis of international guidelines on the measurement of work quality, 31 employment quality indicators were developed and presented (for the first time in one specification), classified into five thematic groups. For the majority of the presented indicators, data relate to 2013 (in some cases 2012 or 2011, which results from frequency of collecting information). The presented indicators were calculated on the basis of the results of surveys conducted

by the CSO. Their largest part originated from BAEL representative survey, including from the module *Accidents at work and health problems related to work*, but also from other surveys such as: *Survey on remuneration structure by occupations*, *Survey on working conditions*, *Adult education*.

- The analysis of the labour market in the aspect of aging society and prolonging retirement age
In the years 2012-2014, three editions of the publication *Individuals aged over 50 on the labour market* were developed. The publications present professional activity of people aged above 50. and characteristics of their labour market situation, including full-time employed, part-time employed and unemployed individuals. The data were prepared by regions, voivodeships, PKD 2007 sections, sex, age, level of education, occupations, job seniority and employment status. In addition, basic indicators were presented in comparison with the EU countries.
- The analysis of data about the labour market obtained in the censuses PSR 2010 (National Agricultural Census 2010) and NSP 2011, with particular focus on acquiring information from administrative systems in terms of using administrative registers for the needs of the labour market statistics, including:
 - developing the method of using some administrative sources to obtain basic data about labour market situation of individuals with status of economic activity non-defined during the census,
 - developing the method of selection of the main work and some information characterizing the actual main workplace (including location, status of employment) under NSP 2011,
 - developing the method of acquiring basic data about individuals working in individual agriculture according to the previously valid definition of a farm (on the basis of KRUS),
 - co-participation in works on sampling frame for social surveys, in the scope of acquiring information concerning the labour market and updating variables using administrative registers of the Social Insurance Institution.

Assessing achievement of objectives in the area

In the labour market surveys selected additional aspects were included - in line with recipients' expectations. Works were performed which allowed assessing the possibility to obtain from the bases of the Social Insurance Institution data about the distribution of the employed at the level of lower administrative divisions for the whole economy. The developed model of cooperation with institutions participating in the system of collecting information about working conditions in Poland will be used also in the future.

In the course of implementation of subsequent editions of the survey *Individuals aged above 50 on the labour market* a tool enabling automation of the process of processing and generating output tables was improved. Analysis of demand for information for people aged above 50. allowed focusing development activities under the survey.

Introducing methodological changes into agricultural surveys (lack of possibility to survey full population of individuals connected with agriculture) made it necessary to verify the assumptions for the development of methodology of estimated labour inputs in agriculture. Works are underway on the possibility of acquiring data from administrative registers or other surveys which will enable identification of individuals working in farms with max. total area of 1 ha of arable land.

Further activities

- Continuation of works on the development of surveys and analyses related to the labour market, subject to new phenomena having effect on the shape and situation on the labour market in Poland, e.g.: non-standard forms of employment and unregistered work or growing – in connection with prolonging retirement age – meaning of people aged above 50.
- Continuation of cooperation with Central Institute for Labour Protection – National Research Institute (CIOP-PIB) with regard to the possibility of creating a common information system concerning working conditions in Poland.
- Conducting adaptation works to the planned changes in labour market statistics (presently arrangements take place on the international forum, attended by the CSO). These arrangements will affect the way of conducting and results of, among others, Labour Force Survey, National Population and Housing Census and National Agricultural Census in 2020
- Further activities involving the use of administrative data sources in surveys on the labour market (obtaining data, improving completeness) and in works on the scope and update of Sampling Frame for Social Surveys.
- Analytical studies concerning the impact of demographic processes on supply and demand for work, differences in wages and salaries of women and men, as well as job offers reported to labour offices, under the works of the analytical team for labour market analyses.

b. Business Statistics

Objective 1b. Development of surveys and analyses describing changes in the country's economic sphere, also in the functioning of enterprises, production, waste management, market for goods and services as well as transport and communications

Completed development activities

- Conducting works aimed to extend the information scope of survey on demographics of companies.

In cooperation with Eurostat, the methodology was developed and data concerning demographics of companies-employers and rapid-growth companies were prepared according to the amended European regulation. Under preparatory works, pilot sets of data concerning rapid-growth companies were developed and transferred to Eurostat. Also methodological works were conducted with regard to demographics of companies in the regional system and concerning quarterly data about the number of bankruptcies and registrations. Also in this case, pilot sets of data were developed.

- Performance of development works with regard to surveying indicators of entrepreneurship:
 - analysis of the methodology of surveying indicators of entrepreneurship applied by other countries,
 - analysis of studies describing economic situation, using indicators of entrepreneurship,
 - preparation of a set of indicators of entrepreneurship to describe the phenomenon of entrepreneurship in Poland,
 - preparation of survey methodology, ensuring obtaining and preparing a determined set of indicators of entrepreneurship.
- Conducting works in the scope of development of surveys concerning linkages of companies operating in Poland with the international economy, among others:
 - analysis of the needs of national users, analysis of available data sources and the possibility of their secondary use,
 - participation in works of working groups of Eurostat and OECD involved in the topic of international relations of companies.
- Development works concerning surveys on producer prices, among others: verification of methods of selecting samples to be surveyed, improvement in the stage of editing collected data, including imputation of no answers and update of weight systems.
- Execution of a methodological paper concerning estimating short-term data about construction and installation production generated by small construction companies. As a result of the paper, monthly estimates of this production were prepared for the years 2008-2013 and then were compared with the corresponding results of the annual survey on activities of companies with the number of employees of up to 5.
- The participation in works on the improvement of the Central Waste System of the Ministry of Environment by: extension of the scope of data to all types of business activities in which waste is generated, improvement in data quality and possibility of versioning and archiving unit data.
- The participation in design and implementation works concerning the database on waste (BDO), carried out by the Team for database of products and packaging and waste management, appointed by the Minister of Environment (new development activity)
- Implementation in 2013 of a survey on waste generated and managed in forestry and fishery. The last edition of the survey will be conducted in 2015.
- Examination of national and international (Eurostat) information needs and then preparation of initial concept of survey on communication mobility of population.
- Conducting, under works on extending the scope of subject survey *Assessment of companies providing services related to handling business activities* to entities with the number of the employed of 9 and less and the survey *Demand for services* to entities with the number of the employed of 10-49, analysis of data sources available under surveys conducted by the Polish official statistics and administrative data for entities with the number of the employed of 9 and less and for entities with the number of the employed of 10-49 in the respective sections, groups and sections of type of activities.

Assessing achievement of objectives in the area

The scope of information acquired in surveys on demographics of companies was extended to data concerning companies-employers and rapid-growth companies. Also a considerable level of progress in works was achieved towards further extension of the information scope of survey to data in the regional system and quarterly data about the number of bankruptcies and registrations.

The survey *Indicators of entrepreneurship* reached a stable form, which enables preparing a publication presenting the survey results. Thanks to the analysis of methodology of entrepreneurship survey implemented in the European Union and OECD member countries, the results are prepared according to the adopted general principles for this type of surveys and are comparable.

The prepared and presented in the issued publication sets of indicators concerning financial performance of companies affiliated in groups in comparison to the effects of activities of all companies, and data regarding linkages of companies operating in Poland and international economy take account of the needs of national and foreign user, enable preparing analyses about sizes and directions of these linkages as well as their effects and impact on the national economy.

Development activities regarding surveys on prices in industry brought about effects in the form of recalculation of the data for the years 2010-2012 for specific variables (according to PKD - subject method) and transferring to Eurostat monthly price indexes for these variables.

The created new system of calculating producer price index according to PKWiU (subject method) and preparation of monthly producer price indexes for the years 2010-2012 will enable improving the system of national accounts.

Completing the implementation of the methodological paper concerning developing model cost estimates for the selected civil and water engineering structures (including road and bridge structures) used as weight systems in price surveys. Based on the obtained model cost estimates, new model road and bridge structures were selected.

Completing the implementation of the methodological paper *Recognizing the possibilities of estimating short-term data about construction and installation production completed by small construction companies*. Having compared the results of the developed estimation method with the results of annual survey on activities of companies with the number of employees of up to 5, it was assessed that the solutions adopted in estimating data would not provide credible monthly data and would not enable, at the present time, covering full community of construction units with short-term surveys related to construction and installation production. The obtained results will be, however, the object of interpretation of directions and scale of differences in terms of the possibility of modifying the adopted data estimation method.

The development activities completed in the years 2012-2014 with regard to waste statistics contributed to the extended and improved quality of information on waste sent to EC according to Regulation of the European Parliament and of the Council (EC) no. 2150/2002 on waste statistics (transmission of data in 2012 and 2014). Changes in development activities in this respect are connected with the effective date of regulations of the Act on Waste, pursuant to which a database will be created of products and packaging and waste management (BDO), administered by the minister competent for environment. The use of BDO resources will enable fulfilling the reporting obligations concerning waste, including the information about the condition of waste management in forestry and fishery. This base is to constitute a source of data for all waste streams. It will improve consistency and quality

of data about waste, transferred to EC by various units in the country, and will remove methodological problems related to the use of data from various sources.

The completed works concerning survey on communication mobility of the population will enable a pilot survey to be conducted, taking account of the aspects of communication mobility of the population on the basis of obtained funds beyond the budget of the CSO.

After an analysis of available data sources and funds, in connection with the planned extension of the scope of subject survey *Assessment of companies providing financial services related to handling business activities* to entities with the number of the employed of 9 and less, and the survey *Demand for services* – to entities with the number of the employed of 10-49, it was established that the extension would be attainable using data available under the Polish official statistics or administrative sources. This method will enable maintaining costs of the aforementioned surveys at the previous level, as well as it will not impose on respondents an additional reporting obligation.

Further activities

- Continuation of works on the extension of the information scope of survey on demographics of companies to data in the regional system, quarterly data about the number of bankruptcies and registrations, and conduct of methodological works to satisfy requirements which will be introduced in new draft acts of the European law.
- Running further development works in terms of surveys and studies concerning entrepreneurship and globalization, among others, by participation in works of working groups of Eurostat and OECD involved in these issues, considering results of the aforementioned works in development works, and further analysis of the needs of national recipients.
- Change in the weight system for variables related to prices of sold industrial production and for construction, based on the value of production sold for 2015, including recalculation of the data for the years 2015-2017 for the abovementioned variables.
- Increase in the degree of details of national indexes of producer prices for production of food and non-alcoholic beverages at the level of class according to NACE Rev. 2.
- Comparison of the received monthly estimates with the results of monthly survey on construction and installation production, completed by construction entities with the number of the employed above 9, for the years of 2008-2013, and analysis of the received results and attempt of possible modification of the developed method of estimates.
- Implementation in 2015 of another edition of statistical survey on waste in forestry and fish culture. After launching the BDO base, planned by the Ministry of Environment in January 2016, the aforementioned statistical surveys will not be conducted.
- Continuation of works on the concept of surveying communication mobility of the population

The results of the pilot survey will be used to develop target survey methodology, considering also requirements of Eurostat (currently in Eurostat works are underway to develop common methodology for member states) – approx. 2017, dependent upon progress in works conducted in Eurostat.

- Development of the methodology of estimating data about turnover for entities with the number of the employees of 9 and less in the survey *Assessment of companies providing financial services related to handling business activities* and data about purchasing external services for entities with the number of the employees of 10-49 in the survey *Demand for services*.

Objective 2b. *The development of statistics concerning the use of the means of production, as well as crop diversification in terms of food safety, environmental protection and implementation of Common Agricultural Policy provisions*

Completed development activities

- Conducting an analysis of unit data in terms of agri-environmental factors, e.g. crop diversification, crop rotation, fertilizing and use of plant pesticides, by using new tools, shared after the National Agricultural Census 2010(PSR 2010).
- Undertaking an attempt to initiate cooperation with entities involved in certification of food quality and safety systems, under works related to gathering data concerning food safety, and broadening knowledge in this field.
- Initiating actions of a group of fertilization experts to improve survey on consumption and supplies of mineral and calcium fertilizers to the domestic market.

Owing to the change in the scope of the surveyed characteristics in 2013, a new questionnaire was prepared to collect data concerning consumption of mineral and calcium fertilizers and supplies of these fertilizers for agriculture from producers and importers.

Assessing achievement of objectives in the area

Generalized results of PSR 2010 and survey on the agricultural production methods were used in the sector studies of the CSO and in analytical publications prepared by representatives of scientific institutes. In addition, skills and experience gained by employees when conducting in-depth analyses of unit data are systematically used when designing annual agricultural surveys. Proposals of new solutions will be reflected in the implementation of the tasks related to preparation of common agricultural census in 2020.

Attempts to initiate contact with entities involved in certification of food quality and safety systems failed. Activities under this objective came down to deepening knowledge concerning food safety and active participation in works of parliamentary commissions, performing tasks connected directly or indirectly with this issue, e.g. comments were submitted to the draft Act on plant pesticides and draft regulation on the conditions of application of plant pesticides.

Maintaining contacts with experts and using their assessments and opinions contribute to improvement in the survey on consumption and supplies of mineral and calcium fertilizers, more complete satisfaction of the needs of statistical information users as well as implementation of tasks imposed on the Central Statistical Office by Eurostat.

Further activities

- Works on broadening the scope of activities related to agri-environmental objectives that are an important element of the Common Agricultural Policy for the years 2014-2020.

They include: ecological agriculture, agri-environmental-climatic activities, support for areas with natural restrictions and other particular restrictions, investments in fixed assets with positive environmental-climatic effects, foresting of arable land and payments for NATURA 2000 areas. In connection with the above, activities were taken and will be continued, aimed to:

- improve the methodology of estimating nitrogen and phosphorus excretion factors as an important element of estimating flows of these elements in agriculture,
- calculate unit production of particular natural fertilizers and concentration of nitrogen and phosphorus in these fertilizers
- assess the possibility to implement the *Capri JRC* model methodology, to estimate elements of the balance of nitrogen gross, at the national and voivodeship level.

Any activities are conducted under the contract for subsidy for implementation of the project *Pilot surveys aimed at methodological improvement in agri-environmental statistics and development of grasslands statistics*.

- Continuous improvement in the methodology of consumption of mineral and natural fertilizers and stock of farm animals.

Results of works conducted in the CSO will be used as support for central institutions, including mainly the Ministry of Agriculture and Rural Development, in monitoring key conditions in agriculture and in planning, negotiating, analysis, assessment and introduction of policies for the development of Polish agriculture. Activities of the CSO are connected, among others, with the implementation of the EU Directive whose main aim is reduction in water contamination with nitrates from agricultural sources and prevention of further contamination.

Objective 3b. Development of surveys and analyses connected with the changes in the climate and energy situation, as well as with preventing negative phenomena within this domain

Completed development activities

- Participation in legislative works concerning legal regulations having impact on statistical surveys on climate-power issues:
 - at the international level:
 - Regulation on energy statistics,
 - Regulation on European economic accounts of the environment,
 - at the national level:
 - Power Law (amendments to the Act),
 - Act on renewable energy sources,
 - Act on power effectiveness.

- Development of a system of statistical indicators, constituting a tool used to describe, explain and assess trends in energy consumption and power efficiency and plan activities for improvement in effectiveness of energy use (under the methodological paper *Power efficiency indicators*).
- Preparation of a detailed concept of methodical issue, concerning statistical reporting related to energy from renewable sources (under the methodological paper *New energy*).
- Performance of works related to improvement in surveys on energy consumption in the sector of transport and households.
- Performance of works related to updating the subjective scope of the survey *Balances of fuels and energy* and the objective scope of the survey *Road transport* to be used when preparing physical accounts of energy flows, being a module of economic accounts of the environment.
- Execution of the research paper *Disaggregation of the indicators from the Europe 2020 strategy to the level NTS-2: development of methodology and estimation of emission of pollutants into the air for selected substances (greenhouse gas and their precursors) at the voivodeship level*.

Assessing achievement of objectives in the area

Conducted development activities brought about the following effects:

- improvement and increase in particularization of balances of fuels and energy,
- development of a detailed analysis of factors (by means of worked out tools, among others, decomposition) affecting size of energy consumption, presented in the publication *Effectiveness of energy consumption in the years 2002-2012*,
- preparation and presentation of indicators of the Europe 2020 Strategy: *Share of energy from renewable sources in the final gross energy consumption* and *Consumption of primary energy*.

Research paper, prepared in 2014 by the Institute of Environmental Protection – National Research Institute, National Centre of Balancing and Managing Emissions, to the order of the CSO, achieved the assumed research objectives, which made it possible to incorporate survey on emission of pollutants into the air at the voivodeship level to Pbssp 2016.

The paper results may be used for detailed analyses of regional size of the distribution of emissions of greenhouse gas and their precursors by many users. It is planned to apply the developed methodology to make calculations for the following years, i.e. after 2012.

Further activities

- Undertaking works ensuring obtaining data about energy carriers not surveyed so far in energy statistics and affecting emissions of pollutants into the air.
- Development of a set of tables of physical energy flow accounts (PEFA), with data for the years 2014-2015.
- Undertaking works aiming at development of surveys on power efficiency of buildings.
- Participation in works regarding improvement in calculations of indicators monitoring the Europe 2020 Strategy.

- Participation in the legislative works of the EU concerning statistics of prices of natural gas and electric energy.
- Development of research concerning consumption of energy in households for the purpose of obtaining information on energy consumption by directions of its consumption.

c. Macroeconomic Statistics

Objective 1c. Development of macroeconomic analyses concerning the composition of economic growth, business cycle and measures of socio-economic development

Completed development activities

- Extended statistical and analytical studies related to current economic events in Poland and its environment, for instance, in the form of:
 - analytic report *Macroeconomic situation in Poland in the context of the world economic processes*, completed with in-depth analysis related to current economic events in Poland and in the European Union (EU), such as: analysis of structural deficit and presentation of frames of analysis of fiscal situation by the European Union and the International Monetary Fund, analysis of income inequality in Poland and EU, the process of recovery from the crisis in the European Union member states.
 - Publications: *Linkages of the Polish economy with Russia, Ukraine and Belarus – selected aspects*.
- Development of the methodology and a set of tools for analysis of the course of business cycle for Poland and the structure of aggregated indicators of the economic situation: leading and simultaneous; visualization of results in the form of systematically updated timer of the economic situation.
- Preparation and adaptation to the Polish conditions and development of the OECD methodology of decomposition of Gross Domestic Product (GDP) and Gross Value Added (GVA) applied to in-depth analyses of the structure of regional differences.
- Adaptation of the OECD methodology of decomposition of GDP and GVA for analysis of the structure of growth and differences in the level of economic growth in Poland and in EU member states (published as annex to the publication *Macroeconomic situation in Poland in 2011 in the context of the world economic processes*) and its application in annually published analyses.
- Adaptation of the methodology of estimating multifactor productivity functions (Multifactor Productivity – MFP) for the Polish economy, with reference to methods used by national statistical offices and other research centres in the EU and in the world (EU KLEMS methodology).

- Preparation of the detailed concept and delivery of advanced training for experts of the CSO in advanced methods of analysing time series and reasoning on the basis of data and results of statistical models.

Assessing achievement of objectives in the area

The aforementioned completed development activities are innovative, refer to the methodology applied by research centres in the EU and in the world. Thanks to them, it was possible to provide much information about the phenomena taking place in the Polish economy and its linkages with the economic situation of other countries in Europe and in the world. In the recent years, macroeconomic issues has been the object of interests of many user groups. Conducting works aimed to develop macroeconomic analyses and measures of the socio-economic development, the CSO met expectations of recipients of statistical data in this respect. The undertaken initiatives and activities are long-term and will be continued.

Further activities

- Development of the methodology of calculating decomposition of productivity of the economy KLEMS by type of activities and extension of time series of analyses. The use of this methodology in the aforementioned analyses of diversity of development processes in the EU and regional diversity in Poland.
- Further development of the methodology of decomposition of GDP and GVA applied to in-depth analyses of the structure of development differences with regard to the issues of diversity of development processes in the European Union (level of national economies) and regional diversity in Poland.
- Continuation of the publication of the annual analytic report *Macroeconomic situation in Poland in comparison with the processes in the world economy*, completed with in-depth analyses of selected detailed topics related to current economic events in Poland and the European Union, also in the form of additional (separate) analytical and statistical studies, using surveys of the CSO.
- Continuation of works on specialist training programs for experts of the CSO and expansion of their issues to the problems of modelling and implementing methods of quantitative analyses (modelling) in the selected applications in the field of statistical surveys.

Objective 2c. Development of a national accounts system, ensuring the consistency of statistics within the domestic economy and integrating these with international standards

Completed development activities

- Development of new methodical frames to implement standards of national and regional accounts according to the principles of ESA 2010, in connection with replacing in 2014, under Regulation of the European Parliament and of the Council no. 549/2013 of 21 May 2013 on the European System of National and Regional Accounts in the Community (ESA 2010), previously binding ESA 95 with a new system ESA 2010.
- Implementation of the detailed Manual on Government Deficit and Debt (MGDD), edition 2014.
- Conducting methodical works, consisting in analysis of the scope of the sector of government and local government institutions and recognition of units, which, according to ESA 2010 and MGDD guidelines, should be incorporated to the sector, and proper allocation of revenues and expenses for ESA transactions (with particular focus on taxes). Changes were described in a message concerning government deficit and debt in 2013.
- Incorporation of values of production under illegal activities to national and regional accounts.
- Application of new solutions adopted in the statistics of balance of payments, included in the new Balance of Payments Manual BPM6 that superseded the currently valid Balance of Payments Manual BPM5.
- Revision of data from national accounts under the implementation of additional recommendations of the European Commission and use of new data sources.
- Change in reference year for national accounts, from 2005 to 2010.
- Active cooperation with Eurostat when preparing a uniform 5-grade classification COICOP, which then will be implemented to survey harmonized indexes of consumer prices (HICP), household budgets surveys (HBS), and surveys on purchasing power parity (PPP) in 2015.
- Preparing and conducting information and educational activities, addressed to statistical information users as well as statistics employees, in connection with the implementation of new methodological standards. They consisted, among others, in:
 - publishing a manual concerning differences between ESA95 and ESA2010 and information notes concerning revision of the standard on websites of the CSO,
 - presenting issues related to the implementation of ESA 2010 at the meetings with the users of data from national accounts (scientific conferences, seminars, press conference).
- Development activities with regard to regional accounts, among others:
 - implementation of the classification PKD 2007 in regional accounts (retrospective calculations of data by type of activities),
 - adjustment of the calculation methodology in regional accounts to the principles of ESA 2010 (development of methods of regionalization) and retrospective calculations of time series of data from regional accounts,

- implementation of the revised ESA 2010 Transmission Program – increase in frequency and range of data from regional accounts transferred to Eurostat in regional tables of ESA 2010 Questionnaire,
 - implementation of the project *Methodological and technical improvement of national accounts*. Preparatory works for implementation of the revised ESA transmission program (estimates initial of gross value added at the level of NUTS 2),
 - expansion of the range of regional accounts to initial estimates of GDP/GVA total by voivodeships (within t+12 months),
 - execution of the research paper *Survey on outward processing traffic in international exchange for the needs of national accounts* – preparation of the method of regionalization of data concerning outward processing traffic and making of experimental calculations by voivodeships (NTS 2).
- Undertaking works, under the requirement of lifting completeness of national accounts, towards the extension of estimates of grey economy (included in GDP since 1995) to entities with the number of employees of 50 and more.

Assessing achievement of objectives in the area

Polish national accounts, subject to regional accounts, were adjusted to the requirements binding in the EU. Key methodical changes were introduced under the implementation of ESA 2010, BPM6 and MGDD 2014 edition. The works were carried out in cooperation with Eurostat.

The implementation of ESA 2010 principles to Polish national and regional accounts ensures consistency with European standards and comparability of the data between EU member states and fulfilment of statistical requirements of the European Commission.

Implementation of a uniform classification COICOP into HICP, HBS and PPP surveys will reduce their labour consumption and improve the quality of the obtained results. It will provide also better comparability of the surveyed aggregates at the international level.

The implementation of PKD 2007 provides comparability of data from regional accounts with other statistics as well as under ESS.

The extended scope of data from regional accounts and the accelerated date of sharing basic data (GDP/GVA total) fulfil expectations of the recipients of statistical data.

Further activities

- Full implementation of ESA 2010 to national and regional accounts, including publishing of full time series of data from regional accounts (for the years 2000-2012), further improvement in the calculation methodology in regional accounts in order to adapt fully to ESA 2010 principles.
- Automation of national accounts.
- Preparation of quick estimates of quarterly GDP published within t+30 days.
- Preparation of data, for which Poland received derogations, according to the decision of the European Commission of 26 June 2014.

- Preparation and application of a new IT tool SDMX in order to transmit data to Eurostat (from August 2016).
- Cooperation with Eurostat when agreeing on the final Polish language version of the classification COICOP, which will be announced in annex to the implementing regulation PPP. Surveys on prices of consumer goods for the needs of PPP will be conducted in accordance with a new standardized classification COICOP-PPP.
- Preparation of the manual: *Description of sources and methods of calculating Gross Domestic Product along with Process Tables*.
- Preparation of the manual: *Description of sources and methods used in preparing data for the purposes of excessive deficit procedure*.
- Preparation of the study: *Inventory-taking of regional gross value added* containing a detailed description of sources of data and adopted calculation methods of particular transactions by regions, and a process table.
- Works involving the implementation of the Classification of Territorial Units for Statistics NUTS 2013:
 - development of the methods of regionalization of data concerning GDP and GVA by type of activities, by new subregions,
 - retrospective recalculations of data concerning GDP and GVA for the years 2000-2012 by new subregions.
- Continuation of activities with regard to estimates of illegal activities, involving current completion of the time series and expansion of the range of estimates to alcohol smuggling.

Objective 3c. *The modernization of price surveys*

Completed development activities

- Implementation, in cooperation with Eurostat, of the project *Modernization of the system of data collection and calculation of harmonized indexes of consumer prices (HICP)*, whose objective is to, among others, examine the possibility to use scanned data in consumer prices statistics. Agreements were signed with three commercial chains for regular data provision. Currently, pre-implementation data analysis is carried out.
- Modification of the method of including selected groups of goods and services in consumer prices indexes.
- Increase in the sample of goods and services whose prices are quoted via the Internet.
- Implementation, starting from 2014, of the 5-grade classification COICOP in price statistics to calculate consumer price indexes.
- Expansion of the scope of the database of retail prices.

- Development of methodology and implementation of the system of calculating indexes of prices of flats and houses purchased by households (OOH).
- Undertaking activities aimed to extend the scope of the concerned survey on service producer prices.

Under the methodological work *Survey on service producer prices, improvement in methodology and extension of the scope of subject survey*, a pilot survey was conducted aiming at collecting information about factors affecting prices of different types of services and pricing mechanisms applied by companies.

- Preparation of experimental price indexes for lands developed with residential buildings and lands intended for residential housing.

Assessing achievement of objectives in the area

As a result of the conducted development works, the methodology of calculating consumer price indexes was improved, and, at the same time, international obligations in this respect were fulfilled. Most of the conducted works require continuous improvement, in proportion to changing market conditions and guidelines of international organizations.

In reply to demand of data users, except for the works included in the document *Development Directions*, activities were taken on the development of the so-called flash estimates with regard to consumer price indexes and on assumptions to the new application for tablets, to record retail prices, and on the implementation of a new software to control retail prices at the voivodeship and national level.

The results of the conducted pilot survey on fluctuation in prices of different types of services and pricing mechanisms applied by companies are a starting point for further works aimed to improve the quality of results of surveys on prices of service producers.

Works aimed to prepare price indexes for lands developed with residential buildings and lands intended for residential housing showed a number of problems with quality and completeness of source data (Register of Real Estate Prices and Values). It is necessary to continue works in this area.

Further activities

- Improvement in the methods of including specific groups of goods and services (e.g. tourist services) in consumer price indexes.
- Identification of the possibility of implementing new methods of acquiring data about the prices directly from pharmacies and other administrative sources.
- Development of works on the application of methods of qualitative adjustments, subject to methods of hedonic regression, for groups with most often changing characteristics.
- Undertaking works on the implementation of new methods of acquiring data about the prices related to energy, gas and insurance.
- Successive (in 2015 and 2016) extension of the scope of survey on prices of service producers to new types of activities according to PKD.

- Development of proposals of changes to be implemented in surveys on prices of service producers that will contribute to improvement in the quality of the obtained results.
- Continuation of works aimed to prepare consumer price indexes for selected types of real estate.

Objective 4c. The development of financial sector surveys and analyses

Completed development activities

- Integration of surveys on entities running activities related to credit brokerage, factoring and lease in the integrated Financial Activities Form.
- Intensification and extension of the survey of the relations between the sphere real and financial markets (survey on financial instruments used by non - financial companies, including survey on the relations between companies and banks, insurance companies, debt collectors, etc.).
- Development of analyses of selected segments of the financial sector (banking sector, insurers, lessors, credit brokers, agents). Supplementation of thematic publications devoted to individual segments of the financial sector with extended parts relating to macroeconomic conditions in Poland, European Union and in the world.
- Development of tools and obtaining a list of the public finance sector units: cooperation with the Ministry of Finance in order to create new legal instruments used to prepare a list of the public finance sector units. Modification of relevant IT systems used to collect these data in the Central Statistical Office, Ministry of Finance and Regional Accounting Office.

Assessing achievement of objectives in the area

Implementation of the assumed objectives in the scope of development of research and analyses of the financial sector confirmed the rightness of development directions taken. As a result of the undertaken works research forms were integrated, subject and object of the research was broadened, a number of studies has been added to the publication of different segments of the financial sector. At the same time, no unrealised activities were recorded nor delays in relation to the ones planned for the period 2012-2014.

Further activities

- Works on the integrated publication presenting in-depth analyses concerning financial activities of the examined entities by the CSO under research of specialised financial market segments, following integration of research in this area.
- Extending the previous and creation of new analytical tools concerning public finance of local government units (including analyses of creation mechanisms of debt of local government units).
- Works aiming at preparation of research methodology of entities running debt collection activities and subsequent specialised financial market segments (not covered by financial supervision).

d. Multi-domain Statistics

Objective 1d. Provision of information necessary for comprehensive monitoring of development processes, and effects of development policies included, among others, in national and international programmes, as well as in strategic documents

Completed development activities

- Conducting identification of information gaps with regard to monitoring the national and international strategic documents and beginning works aiming at performing them.

On the basis of the agreement between the President of the CSO and the Minister of Regional Development, a development monitoring system was built and made available in September 2013, STRATEG, which supports processes connected with running development policy by dissemination of a number of indicators (coming also from outside the system of official statistics) crucial for programming and monitoring actions and delivery of tools for their comprehensive analysis.

- Conducting research works ensuring the calculation of new indicators and/or territorial levels – under the project *Support for monitoring system of cohesion policy in the financial perspective 2007-2013 and programming and monitoring cohesion policy in the financial perspective 2014-2020*, implemented in 2014 from the funds of the European Regional Development Fund under the Operational Programme Technical Assistance (POPT) 2007-2013.
- Implementation of the analytical works aiming at updating the national list of indicators of sustainable development based on the objectives and assumptions included in the binding national strategic documents, i.e. in the Long-term National Development Strategy, Middle Term National Development Strategy and 9 integrated strategies.

According to the adopted assumptions, the updated set of indicators will also include aspects which have not been provided for in the national strategic documents, and which are important from the point of view of the sustainable development concept. In connection with the above, works were implemented aiming at preparation of indicators relating to the provisions included in final document of the summit Rio+20 *The future we want*, in particular concerning the equality of sexes and conditions of life, including poverty.

- Active participation in the process of preparation of strategic documents at the regional level (voivodeship development strategies, sectoral development strategies of the voivodeships, regional operational programmes) and building monitoring systems of development of public policies (selection and constructing statistical indicators).

Assessing achievement of objectives in the area

Through the preparation and sharing with a wide group of recipients of an integrated development monitoring system STRATEG, publishing offer of official statistics has been enriched. Additionally, the application of modern and intuitive in operation tools, used for data visualisation, supports conducting statistical data analyses and interpretation of results, as well as allows to increase the graphic attractiveness of studies and publications. These actions are a response to the demand

of users, concerning access to consistent set of statistical data used for monitoring the national and international development strategies.

Part of identified information gaps has been supplemented with regard to new indicators and/or territorial levels. Under the project concerning support for monitoring system of cohesion policy in 2014, 6 research projects were finished, whose result was to obtain more detailed data, e.g. concerning issues monitored in the Strategy Europe 2020.

The result of works on indicators of sustainable development is to prepare proposals of new indicators under four orders: social, economic, environmental and institutional-political.

The implemented development actions contributed to the reinforcement of the role of the CSO as an important partner in the process of monitoring of development. A symptom of this are provisions in the Partnership Agreement, where, under works concerning fulfilment by Poland of ex-ante conditions for European funds 2014-2020, the CSO has been indicated as the institution cooperating with the Ministry of Infrastructure, and Development for thematic purpose 7.: *Statistical systems and result indicators*. The CSO was defined as a horizontal institution having necessary expert knowledge and determining information standards, which is key for conducting an effective policy based on facts and objective data and management focused on result.

Further activities

- Continuing works related to optimisation of the STRATEG system efficiency, its extension (new functionalities, information content) and current updating. It is planned, among others, to enable an analysis covering the territorial sections of the European Union states at the level of NUTS 2, dissemination of indicators originating from the Regional Operational Programs, as well as preparation of a manual supporting users in proper interpretation of indicators.
- Development of regional research designed to stimulate growth in information cover, including the developing of new statistical indicators necessary in the process of monitoring the development of public policies. For 2015, 24 topics are planned under the project concerning support for programming and monitoring cohesion policy, thanks to which it is planned to obtain new indicators or indicators not available previously at lower aggregation levels, among others, from area of the labour market, poverty, research-development activities (R&D), innovation, national accounts and regional, public services.
- Maintenance of active relations with local government units (including Regional Territorial Observatories), in order to arrange common directions of operation and mutual support, by combining analytic, organisational and technological potential, bearing in mind rational use of public funds and the need to eliminate – where possible – doubled.
- Continuation of works on the set of indicators of sustainable development, in order to update, consider new strategic objectives and search for measures best demonstrating the concept of sustainable development in national conditions.

Objective 2d. *The expansion of statistical and regional analyses necessary to make appropriate decisions regarding the development and take initiatives in the regions*

Completed development activities

- Implementation of the system of regional analytical studies, covering the statistical study easily identifiable for the recipient, being a consistent series and comparable between the voivodeships.
- Implementation, in the years 2010-2013, of methodological work *Typology of rural areas*, which ended with drawing up a report showing classification of use of land and business typology of gminas in Poland (including division of urban-rural gminas into towns and rural areas).

New divisions show functional diversity of rural areas. In addition, they provide the basis to carry out analyses of regional diversity of the aforementioned areas, and hence contribute to better establishment of priorities and more adequate activities with regard to the implemented cohesion policy.

- Implementation of works on the expansion of information offer of official statistics in territorial systems, including:
 - preparation, from January 2013, and disseminating on websites of statistical offices monthly publications *Economic situation in the voivodeship* and relevant data in the Internet database,
 - preparation, in 2014, of the study of *Map of poverty at the level of subregions in Poland with the use of intermediate estimation*. The primary purpose of conducted works was estimation of poverty hazard indicator in Poland at lower than previously published by the CSO level of spatial aggregation, i.e. subregions. For the purposes of the implementation of the task, statistic was used of small areas, based on the model approach,
 - preparation by statistical offices of analytical studies relating to different regions. Studies include subject matter significant from the point of view of local government and local communities.

Assessing achievement of objectives in the area

Introduction from 2012 into the publishing offer of the system of regional analytical studies enabled to provide the recipients with standardised, regularly published publications, which constitute a complex analysis of each voivodeship, including phenomena important from the point of view of the specific nature and socio-economic development of a given region, as well as guarantee comparability in time and with other regions.

Finally, the developed model made it possible to estimate poverty hazard indicator in cross-section of subregions with acceptable precision. This model made it also possible to evaluate spatial diversity of poverty in Poland at this level of spatial aggregation.

Both development actions concerning the system of cohesive regional analyses and works aiming at supply data at the lowest level of aggregation, contribute to strengthening the role of official statistics as a partner in the process of development monitoring.

Further activities

- The development of publications and studies of analytical nature (comprehensive, statistical domains), atlas (as a supplement of spatial analyses), infographics (containing basic information presented graphically).
- Implementation of subsequent methodological works, e.g. concerning the application of Geographical Information System (GIS) in regional statistics and spatial dimension of suburbanisation. It is planned to incorporate further active participation of Polish services of official statistics in works on:
 - the development of analyses and data with the use of geospatial tools,
 - raising information quality facilitating running development policy at particular administrative levels,
 - development of sharing any statistical information for functional areas, both in the form of analytical publications and through statistical data databases (including Local Data Bank),
 - expansion of information offer of official statistics in territorial systems,
 - system development of cohesive regional analyses prepared by statistical offices.
- Issue, for the first time in 2015, of publication *Business operations with the number of employees up to 9 people* with data for 2013, presenting detailed results of research of business operations of these companies at the level of voivodeships and according to the type of conducted operations. The publication will be issued in cycles every year after the end of the research for the previous year.
- Continuation of currently initiated (within POPT projects) works on estimation of poverty hazard indicator in Poland in cross-section of poviats using statistics methodology of small areas and selected indicators Europe 2020 from the area of poverty and social exclusion, for lower levels of spatial aggregation than so far possible using classic estimators. It is planned to issue analytical publication in 2016 in this field.
- Evaluation of publishing items from the system of regional analytical studies; adaptation of forms and publishing subject matter to actual needs of users in the region, with particular focus on analytical and problematic studies.
- Review of issues and scope of analytical studies and thematic publications for different regions and their adaptation to the identified information needs.

Objective 3d. *The preparation and development of satellite accounts*

Completed development activities

- Acquisition and execution of pilot projects co-financed from EU funds, supporting the development of satellite accounts.

Under the implementation of action the CSO performed, supported by external experts, the following pilot projects within the scope of environmental accounts:

- European environmental economic accounts, taxes mode relating to the environment – EEEA TAX. The project was implemented in the years 2012-2013. Report to EC was submitted according to the contract, in February 2014,
- European environmental economic accounts, expenses on environmental protection module – EEEA EPEA. The project was implemented in the years 2013-2014. Report to EC was submitted according to the contract, in December 2014,
- pilot project within the scope of accounts of the goods and environmental services sector – EEEA EGSS. Project will end in December 2015.
- Extension of the scope of accounts module of material flows, recognition of data sources, preparing methodology and implementation of experimental studies of new modules of European environmental economic accounts in cooperation with relevant government departments, institutions cooperating with the CSO and representatives of science.

According to the requirements of Regulation of the European Parliament and of the Council (EU) 691/2011 of 6 July 2011 on European environmental economic accounts, material flows accounts (MFA) and air emission accounts (AEA) have been prepared. Pursuant to the aforementioned Regulation, Member States are obliged to supply from 2013 to the Commission (Eurostat) data related to the aforementioned accounts and module taxes mode related with the environment for which Poland obtained derogation until 2015

Methodology concerning European environmental economic accounts was developed also under methodological work and during the completion of pilot projects within the scope of environmental economic accounts.

- Implementation of works with regard to forestry satellite account:
 - Preparation and transferring on the annual basis (from 2013) to Eurostat of a priority table IEEAF (*Integrated Environmental and Economic Accounting for Forests*),
 - *preparation of Methodology of valuation of forest land value and forest stands in Poland* (positively approved by the Methodological Commission of CSO),
 - development of the methodology of preparing balances of coal in wood biomass and in forest ecosystem.
- Undertaking in 2013 works on the development of maritime economy satellite account, which was a response to information needs reported by government administration and local administration and the scientific environment. This is a new operation in relation to the one planned in *Development directions*.
- With regard to science satellite account:
 - making, in 2013, experimental estimation of the impact of capitalisation of R&D works on gross domestic product, in accordance with recommendations of the task team of Eurostat for capitalisation of research and development works (Task Force on Research and Development - Implementation of capitalisation of R&D),
 - adjustment of data of internal expenses on research activities and development activities, by change in the assignment of business entities to institutional sectors and elimination of expenses that have been included in gross expenses on fixed assets (in particular R&D works concerning software, including software created for own use),

- preparation of time series from 1995 for sections of Polish Classification of Activities and NUTS 2 units with global production of R&D, in order to estimate depreciation of outlays for the R&D works in the sector of government institutions and local administration. The application of geometrical depreciation of fixed assets (PIM), with the assumption that the average period of use is 10 years (in accordance with the recommendation of the task team Eurostat *Task Force on Research and Development-Implementation of capitalisation of R&D*),
- estimation, in 2014, of the impact of capitalisation of R&D works on gross domestic product on the side of production, on the side of income and on the side of allocation (for the years 2008-2013).
- Works on implementation of a new, common for OECD, Eurostat and WHO, methodology of preparation of the State Health Account SHA2011 to the Polish conditions, including:
 - preparation of keys of transition from classification of expenses on protection of health according to the old methodology SHA1.0 to classification according to a new methodology SHA2011,
 - pilot filling of Joint Health Accounts Questionnaire SHA for 2012.
- Preparation of initial methodology for culture satellite account and preparation of experimental account.
- Undertaking works designed for specification of the existing financial data sources related to education, used for the development of education satellite account.
- Implementation of works related to sport satellite account:
 - review of methodology of development of satellite accounts used by other European states,
 - adjustment of selected categories of products and business operations concerning the sports sector included in the Vilnius Definition of Sport, to the currently binding classification (reclassification in accordance with the Polish Classification of Activities 2007 and Polish Classification of Products and Services 2008),
 - preliminary estimate of the number of working for sport (with specification of women) for 2013.

Assessing achievement of objectives in the area

Undertaken actions with regard to the development of environmental economic accounts should be assessed as positive. Works planned for the years 2012–2014 were fully completed. Further development direction of environmental economic accounts in the CSO is determined in accordance with the binding legislation of the EU, and pursuant to the requirements of Eurostat, included in the European Strategy 2014 concerning environmental accounts (ESEA 2014).

Under the implementation of methodological work *Maritime economy satellite account* actions have been taken whose scope included, among others, development of a complete listing of goods and services typical of types of operations classified as maritime economy, indication of the method and place of intake of investment expenses in maritime economy and identification of a specific kind of transactions. Also works were carried out aiming at specification of the existing financial data sources related to waste maritime economy. The obtained results will be used to determine the amount

of the share of maritime economy in the whole economy. The data will be used by public national institutions and individual recipients and will be used for assessment of the present economic situation and shaping economic policy.

The result of works on estimation of the impact of capitalisation of R&D works on gross domestic product is to determine principles on the basis of which current outlays on R&D works are to be treated in the system of national accounts as an element of gross expenditures on fixed assets (Gross Fixed Capital Formation - GFCF). Objectives in this respect have been completed, and development works finished with implementation and the use of new standards and methodologies in the system of national accounts (System of National Accounts – SNA 2008, European System of Accounts – ESA 2010).

Poland actively participates in the development of international common methodologies of obtaining statistical data from the area of health and health protection, education and tourism. Undertaken actions are consistent with the schedule of works carried out on international forum. Currently works are continued on the implementation of a new methodology of account preparation SHA2011, which will be valid for the EU Member States at transferring account results from 2016.

Actions related to the development of accounts of culture and education are underway. Works completed in 2012-2014 resulted in submitting preliminary methodologies projects to give opinion by the Methodological Commission.

Selected information related to sport satellite account, illustrating the effect of sport on the national economy (e.g. on sports infrastructure, share in gross value added, the effect of sport on various areas of life), are systematically provided for the needs of the Ministry of Sport and Tourism.

Further activities

- Continuation of activities designed for further development of environmental economic accounts:
 - in relation to coming into life in 2014 of a Regulation of the European Parliament and of the Council (EU) no. 538/2014 on European environmental economic accounts, according to which Member States will be obliged from 2017 to transfer from the scope of three new modules, i.e. environmental protection expenses accounts (EPEA), environmental goods and services sector accounts (EGSS) and physical energy flows accounts (PEFA),
 - in connection with the planned by Eurostat introduction to the legal basis of new accounts (probably forestry and water).
- Continuation of works over the development of maritime economy satellite account and improvement of quality of science satellite account.
- Preparation of the State Health Account for 2013 according to the methodology SHA 2011.
- Continuation of works over culture and education satellite account.

Under culture satellite account methodology will be improved of the account according to ESA 2010, as well as works will be conducted related to broadening the scope of an account with non-profit sector and development of contribution methodology in creation of cultural capital.

Under education satellite account development works will be continued concerning using the existing sources of data and estimation and considering additional educational services.

- Estimation of particular elements of sport satellite account based on the latest data available.

Objective 4d. *Development of surveys and analyses describing the process of information society development, changes related to the development of Information and Communication Technology as well as their influence on social life and business activity*

Completed development activities

- Cooperation with Eurostat and offices from other countries, under working and task groups, in order to determine a consistent methodology.
- Cooperation with all the concerned parties with regard to methodology and survey results of information society, in order to fully satisfy the needs of users of statistical information.
- Analysis of available information that could be used at preparation of extended survey of information society in the field of new indicators being a reflection of developing new technologies, including required in the future by Eurostat.
- Implementation of the methodological works aiming at calculations of additional, supplementary information on the sector of information and communication technology (ICT), using the data collected in the survey of information society.
- Constant publication of additional indicators describing issues of information society.

Assessing achievement of objectives in the area

Constant cooperation with Eurostat and offices from other countries enabled to make reliable international comparisons. As a result of cooperation at the European and national level, extended scope of indicators was obtained in the area of using information-communication technology in companies, households and by individual persons.

Under cooperation organised by the Silesian Centre Of information Society and the University of Economics in Katowice a list of indicators was prepared monitoring the development of IT society at the level of voivodeships. These indicators are used, among others, to create and monitor voivodeship strategies of development of information society.

Data collected in the study of information society were used also to develop broader scope of information concerning ICT sector and sharing with the recipients. Additional indicators were published in the signal study, publication concerning information society and in tables placed on the website of the CSO.

Further activities

- Continuation of all the so far conducted development activities concerning statistical research from the scope of information society and concerning application of ICT, in accordance with the provisions in *Development directions*.

e. Censuses

Objective 1e. The development of the concept for implementing national censuses planned to be conducted around 2020, including the way of using new methods, sources and tools for acquiring data for the needs of censuses

Completed development activities

- Conducting works on the methodology and the subject range of a new Population and Housing Census, planned to be carried out around 2020 – with the use of experience of the census of 2011, including:
 - co-participation in creating implementation recommendations for census round 2020 (cooperation with the UN Economic Commission for Europe and Eurostat) in developing mandatory topics, including determination of definition and scope of presenting data (during implementation),
 - works on the use of the administrative data to update the Building Base with information on buildings and flats located in them, along with characteristics of housing conditions, as well as the form of ownership and condition of equipping in devices and technical-sanitary systems.
- Conducting works aiming at determining surveillance field for agricultural statistical survey, including National Agricultural Census 2020. The result of undertaken actions was a change in the definition of an agricultural farm for the purposes of the statistical survey.
- Recognition of possibilities of updating sampling frame for agricultural survey with data from administrative sources. The frame is now updated on the annual basis, above all, with administrative data and, in the case of farms taking part in survey, statistical data.
- Works aiming at presentation of census results in the spatial terms, using GIS technology (Geostatistics Portal).

Assessing achievement of objectives in the area

In 2014 in the scope of development action concerning works on the methodology and the subject range of a new Population and Housing Census, planned for 2021, a review was made of experiences resulting from the Census 2011 and they were used in works on preparation of the project of concept to conduct future census. Project was prepared of organisational structure along with assigning tasks to particular teams. As a part of this action, no delays occurred. There is no need to introduce modifications or changes.

In addition, employees of the CSO participated and still participate in the works at the international level on the preparation of methodological assumptions for another census round in 2020 and post-2020 census strategies. The effects of these works will be clearly visible in the subjective and objective scope of the Census 2021 in the country. Cooperation takes place in accordance with the schedule as determined by the UN and Eurostat.

Building Base, which is to be used in the next round of census is subject to continuous updating on the basis of information obtained from statistical research, and administrative sources. Owing to the

changing buildings and apartments resources, the obtained results are assessed according to the situation as at the end of the year.

The planned tasks relating to determining the field of observation in agricultural census and updating the sampling frame for agricultural survey were performed in whole. It should be pointed out that these were initial actions which will contribute to optimisation of agricultural census costs. Determination of subsequent tasks with regard to methodology and organisation of national agricultural census in 2020 and intensification of actions in this area will take place in 2015.

In July 2013 the CSO launched Geostatistics Portal – GIS application, in which results are presented of National Agricultural Census 2010 and National Census of Population and Housing 2011 in the spatial terms. In the Geostatistics Portal also results of analyses were published, carried out under completed project ESS, in 1 km grid (1km x 1km). In November 2014 an agreement was concluded with the Implementing Authority for European Programmes (Digital Poland Projects Centre) for financial support for the Geostatistics Portal – Phase II project. The objective of this project is enabling users to make advanced geostatics analyses on the basis of output statistical information prepared on the basis of the data acquired during implementation of National Agricultural Census 2010 and National Census of Population and Housing 2011. Additionally, Polish statistics is involved in works of task force on the integration of statistical and geospatial information (GISCO) and in international projects, initiated under ESS, in the use of geographical information in statistics.

Further activities

- Continuation of methodological works concerning:
 - preparing methodology of population and housing census, planned to be carried out around 2020, which will enable to obtain information from many thematic areas on a possibly lowest level of territorial division of the country,
 - annual administrative data acquisition to prepare statistical analyses in the thematic scope included in the census of population and housing 2011 and anticipated in the future round of census.
- Continuous update of the Building Base based on the acquired information, in order to obtain a reliable resource condition of buildings and flats for use as the results of another census round.
- Preparation of the concept of organisation and methodology of agricultural census, including recognition of possibilities of wider use of administrative sources and improvement in the quality and data cohesion of administrative sources.
- Preparation of draft legislations concerning the national agricultural census and the national census of population and housing.
- Dissemination, as a result of the implementation of Geostatistics Portal – Phase II project, of functionality enabling to make advanced geostatics analyses on the basis of output statistical information data acquired in National Agricultural Census 2010 and National Census of Population and Housing 2011.
- Continuation of works in teams and task groups concerning 2020 census round.
- Further works related to development of the Geostatics Portal under Operational Programme Digital Poland, in the scope of presentation of the censuses results in spatial terms.

Area 4

Collecting, processing and analysing of statistical data

Objective 1. Increase of the effectiveness of the statistical production process and of the accompanying organisation and coordination processes

Completed development activities

- Preparation, on the basis of GSBPM model (Generic Statistical Business Process Model), of the Polish Integrated Statistical Survey Business Process Model (ZMRBS) and the Concept of new organization of statistical survey defining the vision of an Integrated Statistical Business Process System (ZSRBS) as standard, integrated statistical production process.
- Appointment of teams and working groups responsible for the preparation and implementation of the concept of new organization of statistical survey under identified groups of processes in particular stages of statistical production.
- Determination of the priority areas under ZSRBS and commencement of works aiming at their stage implementation.
- Preparation of the concept, construction and gradual implementation of the Statistical Metadata System (SMS), permitting the creation and use of metadata at every stage of the statistical process.
- Building a system of sampling frame for social survey and sampling frame for agricultural survey.
- Improving the quality of Statistical Unit Database (BJS), including increase in the frequency of obtaining data from the Polish Social Insurance Institution (ZUS) for its update.
- Assignment the geographical coordinates in the system of sampling frame for social survey, in the sampling frame for agricultural survey and Statistical Unit Database.
- Analysis of the application possibility in statistical research of solutions designed and implemented in census, including:
 - conducting pilot survey, concerning the implementation of solutions prepared for the *PSR2010* and *NSP2011* project in the F-01/I-01 survey: *Statistical forms on revenues, costs and financial result and as well as current assets, liabilities and investment outlays on fixed assets of entities conducting business activity*. Works included: defining objects in Metainformation Subsystem (PM), works in the environment of the Operating Microdata Base (OBM) and testing on the real data of processes designed in OBM.
 - the preparation of the method of using some of administrative sources and the selection method of some data in the labour market on the basis of experience from the National Population and Housing Census 2011
- Modification and development of the IT environment supporting collection, processing and analysis of statistical data.

Implementation of this development action proceeded mostly through implementation of the SISP project in particular:

- modernisation of the application servers platform – Reporting Portal, by the implementation of new significantly more efficient servers and migration to the new, 64-bit software version, ensuring greater efficiency and stability of the system operation,
- building and implementation of the System for acquisition, processing and Integration of Statistical Data (SPDS), used for data processing process management from various sources as well as: integration, autocorrection, imputation and generalisation of data and validation of correctness and ensuring integrity of data and supplying the data to the Statistical Data Warehouse.
- establishment of a Statistical Data Warehouse (HDS) as the central place of statistical data storage collected from the Reporting Portal, coming from census, administrative sources and other reporting systems of official statistics. HDS is the source of data for publishing through the Information Presentation System (SPI), with the principles of statistical confidentiality.
- building and implementation of The Analytical Platform SWAiD –Knowledge Databases, permitting access to the updated, on the current basis, information from the system of official statistics.

Units of official statistics conducted also works of development nature beyond the works conducted under the SISP project, consisting in improvement in the functionality of IT systems used during execution of statistical research.

- Implementation of IT tools enabling management of conducting a survey in multichannel data collecting, including, among others data flow control in CAXI channels as well as monitoring and reporting in individual survey campaigns.
- Implementation for operation of new mobile devices (tablets), intended for execution of survey in the field and preparation of dedicated applications ensuring recording data on these devices. These devices offer much greater (from the previously used) calculation power, and thanks to greater area of the touch screen, they are more ergonomic.

Assessing achievement of objectives in the area

In July 2012 the President of the CSO prepared and accepted *Concept of Statistical Surveys Organisation until 2020*, assuming implementation of the GSBPM model to statistical production and standardisation of different statistical production stages. The concept described particular phases of getting to full implementation of GSBPM through preparation and implementation of an Integrated Statistical Survey Business Process Model.

The implementation of changes described in the concept is a long-term task, which due to its strategic nature requires consideration of both future gains and generated costs. Considering the financial and organisational possibilities, in the first step of getting to an Integrated Statistical Surveys Business Process System four issues were defined which began the gradual implementation of the concept:

- communication strategy with external users – plan of activities prepared for 2015,
- examining user needs– concept was prepared and methodology of diagnosing the needs of users,

- appointing analytical teams,
- integration of input data – concept, model of description and tool enabling collecting metadata enabling integration of input data were prepared.

Implementation of activities in the aforementioned scope allows to improve or implement work processes in the most significant areas from the point of view of relations official statistics – provider and recipient of data.

To ensure coherent, harmonised and integrated course of the statistical production process it is necessary to link with relevant metadata objects. The built for that purpose Statistical Metadata System (SMS) enables to design and create various kinds of metadata models, including those related to statistical surveys and its course of and management of these models and metadata collected in SMS repository.

For external users the resources of SMS repository (including RSI) are available in connection with data resources or as metadata through the Information Presentation System. Achievement of all benefits related to gathering and management of metadata will be possible after the end of the present SMS implementation process.

Coherent management of the process of acquisition and integration of statistical data, the result of which is improvement in the quality of data and shortening the time needed for preparation for further analysis, enables on the other hand, SPDS, designed and built under the implementation of development activities in the scope of increasing statistical production effectiveness. SPDS is integrated with HDS, which automates processes of its supply and the process of creating dedicated products. It also facilitates the process of secondary use of data and their integration for secondary research. Uniform manner of defining validation rules affects increase in data quality in HDS subsystem. The system ensures also full documentation of the process of processing and data safety. On the SPDS platform currently approximately 30% of data is processed.

A very important issue for improving the production process is the performed modernisation of the Reporting Portal, being the key reporting electronic system of the CSO. It enabled to increase its efficiency and stability, and, as a consequence, effectiveness of the work of system users.

The works conducted on modernisation of assumptions to IT survey systems enable, on the other hand, to improve the course of processing and data analysis and obtain statistical data of increasingly better quality.

Development actions related to the implementation of IT tools, supporting execution of survey of the CSO, contributed to the increase in work efficiency of statistical pollsters.

A substantial meaning for standardisation and harmonisation of statistical research was on the part of actions concerning studies used in research carried out by official statistics. In 2012 a central study was created for agricultural surveys on the basis of data from National Agricultural Census 2010 and administrative data. In the years 2013-2014 the study was updated based upon administrative data and agricultural surveys conducted in a given year. The study for agricultural surveys included all agricultural farms fulfilling the definition of a farm. The substantive scope of the survey enables to select farms to for multidisciplinary agricultural survey. Quality was raised of Statistical Units Database (BJS) as a result of explanation of subject differences between BJS and sets acquired from administrative sources of data (from Social Insurance Institution and the Minister of Finance). Frequency was increased in obtaining data sets from Social Insurance Institution (ZUS) (from 2013 quarterly).

In 2014 a system of sampling frame for social surveys was prepared based on external administrative sources. The system of surveys contains variables characterising the population of people and flats inhabited by them, permitting improvement in the quality survey in credibility, cohesion and precision of results and increase in research possibilities of official statistics. In 2014 also works were underway on implementation of the use of system of sampling frame for social surveys in the implementation of survey in this field.

Functionality and quality of sampling frames for statistical surveys substantially increased actions aiming at spatial identification of units indicated in sampling frames, i.e. assigning x and y coordinates from the address points database and coordinates acquired from various sources (e.g. State Geodetic and Cartographic Resource from the Head Office of Geodesy and Cartography, centroids of cadastral parcels from LPIS acquired from the Agency for Restructuring and Modernisation of Agriculture), respectively to: units identified in NOBC (System of address identification of streets, real estate, buildings and dwellings) – in the case of social research survey frame and farms – in the case of agricultural research survey frame. Assignment of geographical coordinates to addresses in survey frames will allow to create harmonised frames for statistical surveys based upon spatial data. Due to a change in the concept of construction of the survey frame for agricultural research, the process of assigning coordinates over the years to come will have to be repeated. Thanks to the acquired experience, this process probably will be more efficient.

The conducted pilot works concerning the application in the surveys on the form F-01/I-01 of solutions implemented for the purposes of PSR2010 and NSP2011, provided much useful information on the possibility to use PM systems (Metainformation Subsystem) and (OBM Operating Microdata Base) in statistical surveys and constraints in this respect.

Works on the development of methodology of surveys on the labour market on the basis of experience resulting from implementation of Agricultural National Census 2010 and National Census of 2011 are continued. The issues concerning selection of registration variables to be used must be examined again after the end of determinations concerning changes in the statistics of the labour market described in Area 3, objective: *Demographic and social statistics*.

Further activities

- Monitoring activities implementation for 2015, under the communication Strategy with external users.
- Preparation of IT tools supporting works on the gradual implementation of the Methodology of diagnosing the needs of users.
- Integration of input data – it is planned to verify the model, in order to provide full possibilities of integration of input data; works will be continued on the description of variables in the SMS model.
- Development of the Statistical Metadata System, including:
 - adaptation of metadata models SMS to the changing conditions and needs of users and designing missing models (among others, related to stages of the statistical process),

- preparation of the process of creating Pbssp, with the use of metadata collected in the SMS repository to prepare survey programme, taking account of the changes in the Law on the official statistics,
 - full link of other systems supporting the process of research implementation, including created under the SISP project, with resources of the SMS repository,
 - creating and updating statistical metadata by units of official statistics, in accordance with the role they perform in the process of the surveys implementation.
- Gradual standardising and transfer to SPDS platform of all processes of data processing and promotion of activities aimed to expand the common layer as well as the principles of reusability of produced objects.
 - Activation, under the electronic reporting system, of services of the Reporting Portal, for internal users from organisational units of statistics.
 - Continuation of works related to the improvement in the assumptions to IT systems of surveys.
 - Expansion, update and improvement in the quality of sampling frame for surveys, e.g. through:
 - broader use of data from administrative sources,
 - subjective connection of sampling frame to enrich information resources and analytical opportunities,
 - supplementing the missing information about spatial location and preparation and agreement on the procedures of current updating of coordinates in sampling frame.
 - Continuation of activities on the application of census experience in the methodology of surveys being performed on the basis of programme. It is planned, among others, to:
 - use administrative sources of data to improve completeness of data about economic activity of people/flats/households, in the case of no answers for population taking part in the labour market surveys within 2020 census round,
 - develop the selection method of the main job and improvement in the completeness of data typical of the actual main workplace (including location, industrial operations, status of employment) under the 2020 census of population and housing round,
 - develop the method of using administrative sources of data to determine economic activity of population related to agriculture,
 - continue works over the sampling frame for social surveys, in the scope of obtaining information concerning the labour market and updating variables using subsequent available administrative registers.
 - Further functional development of the survey management system, in particular its integration with management system of pollsters' work of the CSO.
 - Increase in the potential of survey network by implementing another batch of 250 mobile devices, such as a tablet.

Objective 2. Improvement of survey quality; the building and implementation of a system for measuring and assessing the quality of surveys at every stage of their implementation

Completed development activities

- Implementation into statistical practice of standard tools of improvement in the of statistical surveys quality, i.e. quality reports, quality measures, check lists, quality inspections of statistical research – on the basis of internal order no. 35 of the President of the CSO dated 28 December 2011 on measurement, evaluation and monitoring the quality of statistical research in official statistics services.
- Conducting, at the end of 2012, pilotage of quality organisations review and tools used for its conduct, on the basis of survey *PNZ – Work not with the view of earning outside a household*.
- Beginning, since 2013, of regular statistical survey quality reviews in official statistics and preparing reports of quality and quality measures from statistical survey.
- Conducting training in a form of workshop for the employees of the CSO and statistical offices concerning quality in official statistics, as well as briefings dedicated for the participants of quality reviews.
- Preparation of the concept of e-learning training related to the quality in statistics for the employees of the department of official statistics.
- Organisation of trainings and information meetings for the representatives of ministries and central offices, including data providers from outside the CSO.
- Presentation of subject matter of quality in the Polish official statistics, including good practices from implementation of EKPS (European Code of Statistical Practices) for the delegation of statisticians from the Turkish Statistical Office and active participation in scientific conference in Łódź *Statistics-Knowledge-Development*, devoted to the issues of the quality of statistical surveys.

Assessing achievement of objectives in the area

As part of improvement in surveys quality, for each edition of surveys an ex-post assessment is given, as a result of which facilitating recommendations are formulated. They can apply to, among others:

- introduction of new or modification of the so far applied validation in the process of collection, processing and data analysis,
- modification of electronic forms (extension of assumptions for formal-accounting control, placing additional information, filtering questions),
- conducting actions aimed at integration of surveys.

Objectives concerning building and implementation of the system of measurement and assessment of surveys quality were completed according to assumptions. The actions conducted are continuous.

The result of previous works, conducted in the period 2012-2014, is:

- conducting 12 reviews of the quality of statistical survey (including 1 pilot survey),
- development of a of the of statistical survey quality base, consisting of two modules:
 - quality reports module and quality measures – contains reports concerning the statistical surveys quality of , prepared regularly by author units, and is available for authorised employees of official statistics,
 - module of quality reviews – contains reports of quality reviews, good practices, facilitating recommendations and the results of monitoring their implementation in official statistics,
- implementation of trainings concerning quality in official statistics for the employees of the department of official statistics: 3 trainings of workshop, 3 briefings dedicated for the participants of quality reviews, 1 training of instructional, concerning preparation of the services of official statistics for partner review,
- conducting training concerning quality in official statistics for the representatives of ministries and central offices: 2 trainings discussing, among others, the role of the European Code of Statistical Practices (EKPS) in improvement in surveys quality and preparation for partner review,
- preparation of the concept of e-learning training from quality in official statistics.

Quality measures applied in the report, concerning suitability, accuracy, timeliness, punctuality, availability and cohesion, are useful for undertaking further actions raising research output data quality.

Further activities

- Gradual increase in the number of the statistical surveys quality reviews and considering the participation of statistical data users.
- providing the e-learning training on quality in statistics for external users by educational portal of the CSO.
- Works involving improvement in the functionality of the statistical surveys quality bases and implementing recommendations of auditors after partner review of the national statistical system which was held in the CSO on 23-27.02.2015
- Further works related to monitoring the quality and improvement in surveys.

Objective 3. The reduction of respondent burden related to statistical obligations and limitation of redundancy of data being collected

Completed development activities

- Successive monitoring of the number and terms of statistical survey and care for possibly most even spreading over time.
- Appointment, under Programme *Concept of statistical survey organisation until 2020*, of a group for integration of input variables. Its objective is reduction in the quantity of variables, and hence maximum simplification and shortening questionnaires in research.
- Systematic increase in the number of survey, where data are being collected by means of electronic questionnaires (methods CAPI, CATI and CAI), in order to shorten the time of interview. To improve the quality of the process of collecting and processing data by CAPI method statistical pollsters are equipped with modern tablets.
- Diagnosing basic problems occurring during survey, having effect on the load of respondents and pollsters.
- Conducting initial data analysis of Big Data type in terms of their usefulness in official statistics and conducting working conversations on the possibility to acquire them and process.
- Works aiming at increase in the degree of use the administrative data in statistical surveys of official statistics.
- Actions aiming at optimisation of surveys with regard to organisation, scope, frequency, in terms of reduction in loads with the reporting obligations, e.g.:
 - change in the sample of small and medium entities participating in the survey of the size of informal economy,
 - connection and reduction in frequency (to two-year) of surveys in housing economy,
 - works involving improvement in electronic forms towards facilities for respondents, including: developing and updating additional content of contextual explanations, specifying the content of questions and explanations raising doubts of the reporting people, updating the list of most frequently asked questions and answers (FAQ) available in the Reporting Portal, updating the content and methods of operation of dictionaries facilitating filling in reports,
 - implementation of good practices, including originating from reviews in research quality.
- Modernisation of the Reporting Portal of the CSO, being the main electronic channel of fulfilment of reporting obligations.
- Actions aiming at enabling to transfer data directly from IT systems of reporting entities, including:
 - dissemination of the TransGUS system, being the channel of transferring in the form of files of collective data generated in IT systems managed by the reporting unit. Data transfer in this system was provided from entities representing, among others, marshal offices, poviats and gmina offices and associations. Under expansion implemented in 2014 functionality was implemented of an authorised, safe data exchange between the CSO and another unit.

The most effective application of this channel takes place in bilateral exchange of information with the National Bank of Poland.

- preparation of the suggestion of modifications of management systems in tourist accommodation facilities, which enables automatic generation of monthly reports about the use of tourist accommodation facility (KT-1) and sending directly to the reporting portal of the CSO. Providers of software have been given instruction to create an application generating automatically the content of report KT-1 in the form of an XML file. Surveying is conducted in correct operation of the application as well as checking the quality of data provided.

Assessing achievement of objectives in the area

Optimisation of research with regard to their number, frequency, repeatability still requires permanent monitoring. Reduction in input variables depends not only on the development of common concept by the authors of surveys, but also on international conditions (e.g. Eurostat requirements). The anticipated effect will be, among others, limitation of redundancy in data collection.

The result of survey using electronic questionnaires (CAxI method) is shortening working time of pollsters by elimination of the stage of data registration from paper questionnaires.

Collecting data in surveys with new channels takes place gradually, by systematically implementing these new methods to new surveys. In survey implemented continuously the share of CAPI, CATI and CAII methods is increasingly growing. Research carried out in cycles every several years will be incorporated into the new data collection system within the next editions, in accordance with the calendar of survey. Application of new methods of data collection and modern supporting devices enables more efficient utilisation of the working time of pollsters and improves the quality of the collected data by applying control during interview in the respondent (scope and logic control).

Development of the model of using f Big Data will enable the analysis of the previously non-researched phenomena, adjustment to the changing market needs, development in IT infrastructure, increase in staff competences. For that purpose the present actions focus on obtaining knowledge and common elaboration of solutions under the works of international groups and on the intended research project involving Polish scholarly employees.

Development of electronic reporting through improvement in assumptions for application in electronic forms increased their functionality, enabling the reporting people to faster and easier prepare statistical reports and eliminate a considerable part of committed mistakes and errors.

Modernisation of the CSO Reporting Portal, run under the SISP project, consisting in increase in its efficiency and functionality, e.g. by sharing with reporting units tools to manage reporting and a complete set of electronic forms was an action supporting the implementation of statistical obligation.

The pilot popularisation campaign conducted by one of statistical offices, intended to encourage a greater number of entities to activate accounts in the Reporting Portal, did not yield the expected result. Due to the lack of reaction of entities to give them a letter and a substantial number of non-delivered correspondence, the interest of activated accounts in relation to the number of entities, which the campaign was addressed to, was small.

Further activities

- Continuation of works over the integration of variables and finalisation of works on consolidation of reasons for failure to perform survey.
- Further successive implementation of new methods of data collection (CAxI) in surveys.
- Running actions intended to eliminate or reduce the diagnosed problems hindering the implementation of survey.
- Development of works on the use of Big Data in official statistics, especially in the context of changes in the legal system enabling their acquisition and processing.
- Broad popularisation of a new, optional method of automatic transfer of data from report KT-1; sending to tourist facilities using this method of monthly feedback enabling to analyse their operations in comparison to similar facilities in the voivodeship and country.
- Further works on the improvement in electronic forms in terms of facilitation for the user, including works on improvement in functionalities of the application used for control and analysis of collected data.
- Organising educational meetings for the reporting people taking account of, among others, the subject matter of electronic forms and other functionalities of the Reporting Portal, facilitating the implementation of the reporting obligations, including in cooperation with entities having contact with entrepreneurs, such as employment agencies, ZUS (Social Insurance Institution), tax offices.
- Functional development of the CSO Reporting Portal and its modernisation consistent with the changing legal requirements.
- Continuation of works over a broader use of data from administrative sources in statistical surveys.
- Undertaking further attempts concerning restrictions in redundancy of any data collected in particular thematic areas of statistics.

Objective 4. *The increase in administrative sources use in statistical surveys*

Completed development activities

- Preparation and implementation of principles of conduct with the administrative data included in the document *Modernisation of the processes of acquisition, collection, sharing and preparing data from information systems of public administration for the purposes of statistical surveys*.
- Preparation of a transformation model (control and corrections) of administrative data collections in a statistical set on the basis of solutions, knowledge and experience gained under works covered by the project of National Agricultural Census 2010 and National Population and Housing Census 2011.

- Introducing organisational and technical changes in the field of acquisition of administrative data. Data collection from central systems is made only by specialist unit of statistics – Statistical IT Centre, while from distributed systems (operating at the level of voivodeships, poviats offices and gminas) data are transferred via a safe data communication channel using the Internet application TransGUS.
- Adapting solutions used in the project of National Agricultural Census 2010 and National Population and Housing Census 2011 as relevant IT environments for transfer and administrative data collection (source and after control and correction):
 - TransGUS – online application enabling transfer of data sets to the CSO in the safe channel SSL v.3 with the use of encryption key 128 bits, permitting in justified cases verification of correctness of the structure of files sent,
 - Operating Microdata Base (OBM) – environment for gathering, conversion into statistical data and processing identifiable sets of administrative data (including personal),
 - Analytical Microdata Base (ABM) – analytical-reporting environment for collecting, conversion and processing non-identifiable sets of administrative data, aggregated and after anonymization,
 - the use of the IT environment for transfer and collection of metainformation about the methods and rules of using, processing data, the administrative sources and data sets quality .
- Modification of the process of collecting and updating information on information systems of public administration. Building Metainformation Subsystem – external (PMZ), with the use of new solutions prepared in the Project of National Agricultural Census 2010 and National Population and Housing Census f 2011. Change has occurred in the technology and organisation of the process of collecting information about information systems of public administration, which took place only by means of the Internet application shared with those running systems. PMZ collected nearly 600 descriptions of information systems of public administration.
- Carrying out analysis of legal regulations regulating the area of activity of other domestic statistical offices and legal regulations in terms of transposing relevant provisions in the scope of rights of statistical bodies to collect data from available administrative sources, including personal data and the role of these bodies in shaping the content and requirements for administrative sources for the bill on amendment of the Law on official statistics, at the stage of its preparation.
- Implementation of actions related to a broader use, for the purposes of official statistics, of the information content of administrative sources of data (increase in the scope of data from the previously used sources or obtaining new sources), including:
 - conducting agreements with the managers of administrative information systems with regard to the possibility of more comprehensive exploitation of the data collected in these systems,
 - implementation of methodological works designed to stimulate the degree of use of administrative sets in statistical surveys e.g. in reports with regard to business operations, accounts of work, research on municipal grounds, building movement,
 - verification of the scope of data obtained from administrative systems and conducting a comparative analysis of data that are at the disposal of the managers of systems and the CSO, indication of reasons of arisen differences and possibilities of removal to improve the quality of administrative data, which will allow to support research performed by the CSO and replace them with data acquired from the administration information systems .

Assessing achievement of objectives in the area

The prepared change in the provisions for the draft on amendment of the Law on official statistics, consisting in clear determination of the role of these bodies in shaping the content of administrative registers and quality requirements applicable to administrative data, increases the rights of statistical bodies to collect data from available administrative sources.

Development of a uniform IT environment for administrative data collection and conducting analytical and methodological works will enable to streamline the process of acquisition, collection, disseminating and preparing data, maintaining safety.

Unification, standardisation of the methodology of administrative data conversion into operational microdata (control, standardisation and correction of data), taking place according to the established model and adopted rules, contributes to raising the quality of acquired sets, and hence their usefulness in the statistical process.

Conversion of administrative data sets into sets of statistical data made by one determined statistics unit for the purposes of further studies and different forms of using, increases process effectiveness of administrative data conversion, their consistency and degree of using in statistical research.

The completed development actions with regard to the possibilities of a wider use of data from administrative sources brought, depending on the area of statistics, effects reflected by: quality evaluation of shared administrative sets and estimation of their usefulness as a source of data for official statistics, preparation of the concept of incorporation of administrative data into research and determination of a catalogue of variables necessary for limiting the number of data acquired directly from the reporting people as well as development of a methodology of obtaining data from administrative sources for the purposes of specific research.

Subsequent actions

- Broader introduction of modern IT solutions to collect data from the public administration information systems, including gradual implementation of the form of data transfer via a safe data communication channel (e.g. TransGUS) in order to improve the process of the CSO collecting data from administrators of central systems.
- Modernisation of knowledge base about information systems of public administration used at the design stage of statistical research through the development of Repository of Information Standards that enables to extend the information content, e.g. with the definition and sources of definitions of features applied in information systems of public administration and enables to conduct analytical works over quality assessment of new data sources for research, including in the field of methodological compliance.
- Cooperation with the administrators of information systems of public administration, on the basis of the amended Law on official statistics, within:
 - determining the needs of official statistics,
 - the extent and administrative data quality, including obtaining personal data,
 - obtaining metadata about information systems, including the scope of collected data and methodological compliance of registers with the system of official statistics.
- Continuation of works related to the use of administrative data in statistical surveys.

Objective 5. Development of statistical analyses; the implementation of a support system for analyses

Completed development activities

- Sharing the SWAiD system – Knowledge Database as the analytical platform supporting decision making processes at different territorial levels.
- Preparation of the concept of analytical teams and then appointment of the Team for analytical works.
- Beginning works aiming at activating the Geostatistics Portal, which will enable performance of geospatial analyses, based on data from statistical research.
- Creation of a modern IT environment supporting the implementation of statistical surveys, including analysis and dissemination of statistical data of official statistics (under the SISP-2 project).
- Building and development of employee competences of the official statistical services in the field of conducting analyses through the implementation of briefings, internal and external trainings.

Assessing achievement of objectives in the area

Analytical platform SWAiD – Knowledge Databases was shared with users, completed under the SISP project, included in a high class tools of analytical nature (BI - Business Intelligence). In the first part of the SISP project, basic infrastructure was prepared and analytical environment SWAiD and the first sets of information published, included in four selected thematic areas. Under the SISP-2 project infrastructure was developed and analytical environment SWAiD, information model of the system was modified as well as framework scope of the Knowledge Databases (DBW) was developed that almost fully cover the areas of the programme of statistical surveys of the Polish official statistics.

Proper development of statistical analyses includes not only ensuring appropriate analytical tools, but also relevant preparation of analysts. For that purpose a Team for analytical works was appointed, whose key tasks are related to coordination of analytical works in the department of official statistics, development of conditions for creating and functioning of the field analytical teams (DZA) and support for ZSRBS implementation under the programme *Concept of statistical surveys organisation until 2020*.

In the first year works focused on creating conditions for activating the field analytical teams and developing general principles of their operation. The result of the works of the team were:

- competence template and starting the construction of analytical resource – collecting and analysing information about members of the resource,
- preparation of guidelines concerning the functioning of field analytical teams,
- preparation of the concept of education system of analytical teams,
- preparation of the training plan for members of analytical resource and the Team for analytic works for 2015.

Under conducted trainings and briefings, employees expanded their knowledge and gained competencies for conducting analyses and using new analytical tools.

When preparing advanced data analyses specialised statistical programmes are used (STATISTICA, SPSS, SAS).

Undertaking actions related to project preparation and implementation *Geostatistics Portal – Phase II* will enable the users to make advanced geostatics analyses on the basis of output statistical information, prepared on the basis of data from Agricultural National Census 2010 and National Census of 2011.

Further activities

- Promotion of SWAiD – Knowledge Databases and training as regards its functionality and opportunities of using,
- Development of and consolidation of analytical competences obtained during the training.
- Undertaking further activities for improvement in knowledge and analytical skills of services of official statistics, by initiating trainings and exchange of experiences and support for author units in preparing high quality analytical studies.
- Expanding the functionalities available in the Geostatistics Portal and expansion of the interface between the Geostatics Portal and ABM (as a result of the project implementation Geostatistics Portal – Phase II).
- Further actions involving extension of the Geostatics Portal in running geospatial analyses, under action *Operational Programme Digital Poland*.
- Continuation of works aiming at the implementation of the previously not used tools and methods of analysis, used for preparing in-depth analyses in the scope of the most important social and economic areas of the country and regions.
- Expansion of the thematic scope of statistical analyses.

Area 5

Disseminating statistical information

Objective 1. The improvement of methods and forms of providing access to statistical information

Completed development activities

- Works on raising the attractiveness and the functionalities of statistical products shared, including:
 - increase in the number of publications shared in the formats ensuring further processing,
 - presentation of phenomena in an index perspective,
 - preparing infographs, occasional folders and brochures,
 - implementation of standards of preparing statistical information by statistical offices,
 - increase in the number of bilingual publications (Polish and English).
- Sharing with users in 2013 of the STRATEG system, offering functional tools facilitating the analysis of phenomena in the form of charts and maps.
- Works with regard to building the base of Indicators of Sustainable Development of the Country as a tool for sharing and presentation of indicators in the form of a table and graphic.
- Introducing functional and visual changes in the Information Portal of the CSO, including modernisation of user's interface and improving the search engine.
- Sharing a modernised browser and the search engine REGON and TERYT.
- Sharing for users in 2014 of the SWAiD system whose content is being developed under works over Knowledge Databases.
- Modernisation of Local Data Bank (BDL) by changing the database platform and construction of the Knowledge Database Atlas of Regions based upon BDL data.
- Works on the construction of the mobile application, aimed at sharing and presentation of data and statistical information with the use of mobile devices and technologies.
- Works on the expansion and modernisation of Macroeconomic Data Bank (BDM).
- Works aiming at broader application of GIS technology in presentation and sharing of statistical surveys results (expansion of the Geostatics Portal).
- Preparation of mechanisms of opinions acquisition on the quality of the system of sharing statistical information.
- Acquisition and implementation of new forms of statistical information presentation (e.g. emission of the content through system network of LCD screens in municipal means of transport in Warsaw).
- Modernisation of informers in statistical offices as important centres of statistical information in the regions.

Assessing achievement of objectives in the area

In terms of quantity of resources shared by statistics and the forms of presented statistical data in the period 2013-2014, significant improvement was recorded, including substantial increase in the scope of information presented in the form of database and other formats enabling further data processing. Statistical products in the electronic form enable collecting data and metadata in the formats enabling their further use – they facilitate the process of exploration, visualisation and interpretations of data during analytical and publication works, which contributes to broader and creative use of statistical data. Preparing publications in a uniform, standardised manner, allows the recipients of statistical data to compare selected information for various territorial division units. In the discussed area no activities unrealised and delayed activities were recorded, and undertaken actions proved effective.

Support System of Analysis and the Decisions –Knowledge Databases are a modern platform enabling access to the updated, on the current basis, information originating from the system of official statistics. Through supporting implementation of analytical tasks under internal environment, the platform supports also sharing with external users statistical data of public nature. Works on the Platform were implemented in two stages. Under the SISP project the basic infrastructure and analytical environment SWAiD were prepared, and the first sets of information were published, included in four thematic areas: Territorial sections BDL, Education – Higher studies, Non - financial companies and Foreign Trade. Under the SISP-2 project infrastructure and analytical environment SWAiD were developed, information model of the system was modified and a framework scope of the Knowledge Databases was prepared. DBW was shared with division into four groups: Multi-field statistics (National accounts; Science, technology and information society, Territorial sections BDL (Atlas of Regions), Economy (Prices, Non-financial companies, Short-term statistics of non-financial companies, Agriculture, Industrial production, Construction, Trade and services, Transport and communication, Economic situation, Fuel-power economy, Foreign Trade), Society (Demography, Education, Labour market, Life conditions of the population, Municipal and residential infrastructure, Health and health protection), Environment (Nature protection, Forestry, Condition and environmental protection). The main objective of SWAiD and DBW is to prepare conditions and deliver tools for creation of and generation of reports by users. From the point of view of external users, the proposed solutions enable both to modify the published on the web site dynamic parametrised reports (on the basis of available measures and dimensions) and preparation of reports constructed using the functionality of portable tables. Data – in the form of tables, charts and maps – can be displayed directly in the web browser, as well as exported to different formats. Depending on the subject matter, it is possible to present annual, quarterly and monthly data. Each set of data has prepared an appropriate set of metadata, which additionally describe the presented sizes and explain the used terms.

Analytical platform SWAiD and DBW is thus a response to the demand for new class of information systems that enable to freely shape the scope of the analysed data, stimulating the use of statistical data e.g.in the decision making process.

The new system of sharing data from BDL facilitates the users to use of information published in BDL by applying a modern interface using latest techniques of search, collecting, processing and presenting data. It assumes, among others, the possibility of:

- using registered user accounts (along with service of libraries of the previously generated lists),

- sharing schedule of information publication (based on schedules of execution of particular research – data sources),
- using browsers: of spatial and information scope with contextual prompts,

5 BDL modules were prepared: Data for territorial division unit, Portrait of the territory, Ranking of local government units, Statistical Vademecum of a Local Government Official, Sustainable Development Indicators. The selected technological solutions of the built Atlas of Regions are consistent with the solutions adopted in SWAiD.

Base of Sustainable Development Indicators of the Country apart from indicators will also contain a set of metadata, including the so-called metrics of indicators, including, among others, definitions, methodological explanations, meaning for sustainable development, monitored objectives and thematic areas corresponding to topics monitoring sustainable development in the European Union. Construction of the base is at the final stage; the base was supplied with data for the indicators of sustainable development under three modules: national, regional and local. Currently, solutions are modified in the scope of its functionality after initial surveying of the proposed technical solutions.

The STRATEG system, constituting the source of access to a complex set of indicators used for monitoring the strategy execution binding in Poland and the EU, as well as for statistical data essential for implementation of the cohesion policy, meets the information needs resulting from programming and monitoring development policy. A supplement to numeric data are definitions of terms and methodological information and reports and thematic analyses. Along with a rich database set, STRATEG offers functional tools facilitating the analysis of phenomena in the form of charts and maps.

The new Information Portal of the CSO provides users with many functionalities, among others:

- facilitates access to resources of statistical information, collected and published on the Internet by external institutions. Directing Information System (SISk) is used to that end, offering integrated with the Information Portal catalogue of links and Internet search engine,
- provides, among others, access to a new analytical platform SWAiD, the STRATEG system, a new REGON application and the system handling exchange of statistical data and metadata – CSO SDMX,
- it is integrated with the Repository of Information Standards and Statistical Metadata System,
- it is responsive (it enables website to adjust to resolution, in which it is viewed) and adapted for the disabled,
- it enables users to join any category of Newsletter,
- it enables to present statistical information in various, modern forms, e.g. dynamic charts (widgets).

The Directing Information System shared with users in the Information Portal of the CSO is a tool allowing to easily reach statistical information resources in other offices and institutions in Poland and around the world. The user may make use the prepared for that purpose thematic catalogue of links or the search engine, which permits full text searching content available on websites of external institutions, making statistical data available.

The conducted actions with regard to Macroeconomic Data Bank will additionally allow to improve forms and ways of sharing any statistical information. As a target, the user will have access to all information contained in statistical yearbooks and other studies. As a result of using Internet

application for sharing the data, method of their presentation will be adapted to individual needs of various users (the functionality is not present in the current ready studies).

While presenting actions aimed at improving methods and forms of data sharing, aside from those described above one other activity needs to be mentioned: the Geostatistics Portal – a GIS web application providing interactive tools for geovisualization of census results (Agricultural Census 2010, Population and Housing Census 2011) and Local Data Bank. Furthermore, implementation of the “Geostatistics Portal – Phase II” project will give users the possibility to perform advanced spatial analyses on microdata from the censuses.

Further activities

- Further development of Analytical Platform SWAiD –Knowledge Databases:
 - successive supplementation of the published scope of data and ensuring update (numeric data and metadata);
 - gradual enrichment of shared set of Knowledge Databases with further bases to provide users with access to the broadest scope of statistical data and information acquired and shared on the basis of the programme of statistical research of the Polish official statistics,
- Systematic supplementation of system functionalities of the Local Data Bank, including the area of graphic visualisation of data and access to basic analytical options,
- Preparation of the system to inform users about changes and/or updating in information offer of the CSO and development of interactive tools of sharing data.
- Expansion of the Information Portal of the CSO (PI of CSO), with new functionalities and adaptation to the current needs. It is planned, among others, to:
 - activation of animated charts for basic amounts,
 - increase in the number of data presented in a graphic form e.g. charts, tables or maps supplied from databases,
 - extension of tab *Basic data according to thematic areas*,
 - preparation of publications in an electronic form or articles on the web site, illustrated automatically with updated charts, maps or dynamic lists, generated on the basis of information from databases,
 - implementation of the mechanism of collecting from publications in PDF format of tables in Excel format.
 - preparation of thematic surveys in the form of a Quiz which will allow to obtain users' opinions on the publications presented on the website, studies or lists.
 - Application of programming interfaces (API), ensuring automatic download of data from PI CSO.
- Updating the catalogue under SISK, modernisation and adding new elements, along with the changing network environment.

- Further expansion of the information scope and functionalities of BDM database (among others, expansion of applications ensuring automatic import of data from Internet sources and sharing simple tools for analysis of data and forecasts),
- Surveying, introducing necessary modifications, supplementations and updating and then sharing the base of Sustainable Development Indicators of the Country to PI CSO.
- Further actions (under the Operational Programme Digital Poland) related to the expansion of the Geostatics Portal in the scope of presenting and sharing statistical surveys results from the spatial perspective.
- Search for innovative solutions in sharing statistical information.

Objective 2. *Disseminating statistical products adjusted to the needs of specific recipient groups , including the media*

Completed development activities

- Actions monitoring the demand for statistical products and beginning works on the creation of an integrated diagnosing system of the user needs .
- Preparation of a uniform typology of user groups.
- Intensification of direct contacts of employees of official statistics with recipients.
- Adjustment of the form and the subject matter of created publications and studies to the needs of recipients, including:
 - Undertaking, in response to demand of institutions and of local authorities in the regions, common with them publication projects,
 - preparing a set of information to order, e.g. local public administration bodies or local government,
 - preparing information for the central and local media, taking into consideration their specific nature.
 - Educational activities addressed to a specific recipient, with particular focus on educational projects for children and the youth.

Assessing achievement of objectives in the area

In 2013 the first edition was conducted of satisfaction research with elements of checking the needs of users using statistical information. The prepared after *research Analysis of satisfaction check results with elements of checking the needs of users using statistical information in 2013* and resulting conclusions, are guidelines for entities of services of official statistics for improvement in services and statistical products.

In addition, other actions were taken aiming at examination of the needs of users, such as: satisfaction surveys and the needs implemented locally by statistical offices, a satisfaction survey in BDL.

Under works of the Team for ZSRBS works were undertaken aiming at standardisation and systematisation of the process of specification of the needs of users. *Methodology of diagnosing the needs of users* was developed, in accordance with which information about needs will be collected in a comprehensive way, from all the available sources, according to standard model of need description and collected and analysed in a dedicated IT system. The methodology was accepted by Office Management. Works are underway on determining the method and tools for monitoring using resources of official statistics, shared on its websites and preparation of functional assumptions to the system supporting the process of specification of the user needs (SSPU).

In the years 2012-2014, in accordance with the accepted development plan, intensification took place of direct contacts of services of official statistics with recipients of statistical data and information. Meetings were organised, open days of the CSO on the Polish Statistics Day, visit of students took place. Representatives of the CSO and tax office participated in conferences, debates, working groups, environmental forums, work fairs etc. Contacts contributed to get to know the interests, as well as expectations, of the recipients with regard to statistical products and services and affected tightening cooperation with the environment. Development in cooperation took place among government administration and local administration bodies, for instance, for the purpose of providing these institutions with statistical data necessary for the implementation of their statutory objectives and creation and monitoring of development policies. No unrealised activities or delayed activities were recorded, and undertaken development actions proved effective.

Bearing in mind constant development of this cooperation and improving information offer of official statistics, as well as the methods of sharing information under the works of the Team for ZSRBS, *Communication strategy of statistics with the environment* was prepared, containing, among others, environment analysis, analysis of communication actions currently carried out by statistics and the objectives and proposals of new communication actions. An important component of the strategy is the prepared typology of user groups in communication process of official statistics with the environment, which facilitates actions aiming at diversity of the form and the method of sharing any statistical information depending on the type of users (groups). Assumptions of the strategy will be reflected in the implementation plan.

Further activities

- Preparation of another edition of research on satisfaction and the needs of users using statistical information, on the basis of experience collected in the first edition of surveys.
- Gradual implementation of the process of diagnosing the needs of users of statistical information, in accordance with the prepared methodology.
- Preparation of principles and coordination of the presence of the CSO and statistical offices on social networks.
- Active search for new communication platforms with recipients.
- Expansion and customising educational offer for organised groups of students visiting the CSO.

- Continuation of activities with regard to the organisation of Open Days and other meetings with external recipients, in order to familiarise the users with operations and information offer of official statistics as well as the possibilities to get to know expectations and the needs of users.
- Development of cooperation with the media, including extension of the bases of media with local portals and websites.
- Execution of common tasks with recipients for adjustment of products to the needs of recipients.
- Continuation of expansion of information offer (data and metadata), according to the reported information needs.
- Expansion of the module Statistical Vademecum of a Local Government Official in Territorial Sections BDL – under SWAiD – with the remaining profiles (gmina, powiat).

Objective 3. Building spatial statistical information system

Completed development activities

- Continuation of works on construction and implementation of spatial statistical information system which will enable, on the basis of spatial data, to create harmonised survey frames for statistical research. It is planned that in the future all statistical data will have reference to an address point.
- Participation in construction of the national spatial data infrastructure based on INSPIRE, i.e. on 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. The Act transposing the Directive into the Polish law is the Act of 4 March 2010 on spatial information infrastructure (Journal of Laws 2010 no. 76 item 489).
- Works on the development of survey frames by assigning geographical coordinates to addresses.

Assessing achievement of objectives in the area

In order to develop, modernise and adjust the process of sharing statistical information to stakeholder needs, actions are implemented to facilitate georeference statistical data. This can be done using spatial address databases (PBA) containing spatial reference (x, y coordinates) of dwellings from the National Official Register of the Territorial Division of the Country (TERYT). They contain location of each residential building or building in which there is at least one dwelling. They also contain boundaries of statistical division: census enumeration areas and statistical regions. Actions related to maintenance and update of PBA are executed by GIS operators in statistical offices and their branches using specialist tools, on the basis of differential information from the NOBC system. These actions are conducted with quarterly frequency – for address points and annual – for statistical division boundaries. The process of coordination of works, cohesion and integrating and data archiving is carried out centrally.

Information generated from PBA constitute the basis for creating harmonised survey frames for statistical research, ensuring collection of data and presenting results with address point accuracy. On the basis of data from PBA and coordinates acquired from the National Land Surveying and Cartographic Resource from the Head Office of Geodesy and Cartography, the process of spatial identification was started for addresses indicated in BJS. The purpose of conducted activities was unambiguous address identification consistent with the dictionaries of TERYT subsystems: IMC and ULIC. The process of assigning coordinates was successful for approximately 90% of addresses from BJS.

For several years significant growth in using GIS technology has been observed in official statistics. This condition was indirectly influenced by legal regulations at the European level. In 2007 Directive 2007/2/EC of the European Parliament and of the Council establishing an Infrastructure for Spatial Information in the European Community (known as INSPIRE Directive) was adopted. In Poland transposition of this Directive is the Act of 4 March 2010 on spatial information infrastructure (Act on IIP). Owing to the fact that the President the CSO is the leading body for two spatial data themes from Annex III of the INSPIRE Directive and in order to execute the requirements of the INSPIRE Directive, the following sets of data were registered in the Register of and spatial data services: statistical regions and census enumeration areas (for the statistical units theme), NTS statistical units [Nomenclature of Territorial Units for Statistics] (for the statistical units theme), demographic data for statistical units mentioned above (for the population distribution (demography) theme). In the Geostatistics Portal the following INSPIRE services were launched: discovery, view and download. Published in the GML format, data are harmonised and consistent with the final (3.0) version of specification of INSPIRE data for themes: statistical units and population distribution (demography).

Actions related to construction of the spatial statistical information system, using GIS technology, have a substantial effect on streamlining the process as well as increase in the scope of information and statistical meta-information with spatial reference acquired by users of data. It should be emphasised that the power and uniqueness of the process results from the nature of statistical data being subject to aggregation and presentation (microdata protected by statistical confidentiality), that are only in possession of official statistics.

Further activities

- Streamlining the process and IT tools supporting the process of maintenance and update of spatial address databases (action under the project Geostatistics Portal - Phase II).
- Supplementation of spatial location for addresses of statistical units, for which in previous activities it was impossible to determine the location and preparation and agreement on the procedures of maintenance of coordinates in survey frames.
- Implementation (under the project Geostatistics Portal – Phase II) of solutions improving the processes of cooperation with regional statistical offices in maintenance of PBA. It is planned to consolidate and standardise geospatial databases, support statistical research through automation of statistical spatial data (statistical address points and boundaries of statistical division) centralisation processes.

- Modernisation of the existing and publishing new spatial data services (under the project Geostatistics Portal – Phase II). All services will be adapted to up-to-date versions of OGC/ISO standards and INSPIRE technical guidelines.
- Further actions involving extension of the Geostatics Portal, including actions aiming at the development of the system of spatial statistical information (under *Operational Programme Digital Poland*).

Area 6

Managing the Resources of Official Statistics

Objective 1. The adaptation of the organisation management system to of management control procedures, as well as to the adopted model of statistical production process

Completed development activities

- Adjustment of internal regulations to the requirements of legal regulations with regard to management control standards.
- Introducing regulations ensuring effective use of funds.
- Monitoring execution of set objectives in a given period before departments/offices of the CSO and organisational units of official statistics.
- Entering of the CSO in 2014 to the project co-financed from the funds of the European Union *Processes, objectives, competencies – integrated management in the office*.

In the project, in the scope of process management, e.g. the following actions are implemented:

- identification of key processes in the office,
 - mapping minimum ten selected, key processes,
 - optimisation of five key processes and examining them in terms of resource allocation.
- Implementation in organisational units of services of official statistics of the Intranet Information System (SII).

It consists of the System of Electronic Document Circulation (SEOD) and the Corporate Portal (PK). For implementation of electronic documentation management in organisational units, an application is used - eBiuro, access to which from the intranet window is provided for all employees of organisational units. In organisational units of services of official statistics, electronic documentation management is in place (EZD), as the basic way of performing office activities, documenting the course of procedure and resolving cases and collecting and creating documents.

- Implementation of actions related to prevention of counteracting unwanted practices in the CSO and statistical offices, e.g. through:
 - introduction of internal regulations (e.g. *Procedure Antidiscrimination and Antimobbing, Anti-corruption procedure, Principles of management control*),
 - organisation of internal trainings and participation in external trainings, e.g. related to equal treatment, corruption counteracting, compliance with the principles of the civil service,
 - posting on the Intranet website of the Office materials presenting performance standards binding in units of services of official statistics.

Assessing achievement of objectives in the area

In the CSO, in accordance with the requirements of the law and management control standards, regulations were introduced on the division of competences, responsibilities and the scope of tasks of organisational units and of particular employees. Adequate mechanisms of management control have been established ensuring the implementation of objectives and impartial determination of their implementation.

The objectives of the project *Processes, objectives, competencies – integrated management in the office* is the increase in management quality in government administration by introducing and improving process management, by objectives and competences, development of recommendations in optimum organisational structure and allocation of resources in the examined processes and implementation in the servicing cells of selected improvements developed within the project Academy of Public Management stage 2. Workshops were planned for each activity and direct advisory support (individual consultations, meetings).

Intranet Information System, constituting a subsystem of the Information System for Official Statistics, connects the functions performed by the Corporate Portal and the System of Electronic Document Circulation. The main objective of building SII is to make available for the employees of official statistics entities a modern and efficient environment supporting work. Intranet Information System performs its basic assumptions related to:

- servicing letters and matters in official statistics units,
- improvement in access to internal official information and the selected external information,
- improvement in team work,
- managing work processes.

Elimination in the office processes of the need to generate, copy and distribute documents in paper form is favourable for limiting the costs of service of circulation of documents, acceleration of circulation of matters and increase in safety of documents, thanks to introducing control of the whole process. SII provides fast access to documents stored electronically and ease in their processing. Additionally, it provides a possibility of simultaneous work of many people with the same document and enables managing work processes according to the procedures of official statistics units.

Further activities

- Introduction in all units of official statistics of formal procedures concerning identification and risk analysis, including its evaluation.
- Introduction of documentation system of the identification process and risk analysis.
- Further works related to the project *Processes, objectives, competencies – integrated management in the office* and its final completion in 2015.
- Development of the Intranet Information System (SII), including the SEOD and PK system.
- Continuation of improvement in the organisation management system through implementation of procedures of management control.

Objective 2. *Development and implementation of a modern system for managing official statistics services personnel based on the competence model*

Completed development activities

- Implementation in the CSO of competences based management model in areas:
 - **Strategy of the Central Statistical Office:** Competence model, by definition, is to support the implementation of the organisation strategy, in which it is implemented. Competencies of employees have to correspond to current needs, but also help in the implementation of new tasks which they will face in subsequent years. The model was thus designed including the strategy of the CSO (*Development Directions*), legal regulations concerning civil service (the Act on civil service along with implementing acts), as well as evaluation on the part of management staff of the Office, in the scope of challenges awaiting for employees in the years to come.
 - **Recruitment and selection:** Knowledge and competencies published in the competence profile are reflected in job descriptions and then in the job advertisements. In addition, interview is conducted with emphasis on competence (behavioural) interview, helpful in verification of the declared by the candidate skills and competences.
 - **System of trainings:** Competence model enables to collect information on to up-to-date needs of employees (competence balance - Individual Programmes of Professional Development) and examining deficits of competences at the level of the whole organisation (monitoring, analysis of comprehensive documentation of periodical evaluations), which can affect the implementation of the organisation's strategy.
 - **Periodical evaluation:** Competence profiles in the CSO were constructed in such way that competencies are directly reflected in periodical evaluation criteria, which the employees of the civil service are subject to pursuant to the Act of 21 November 2008 on civil service (Journal of Laws of 2014 item 1111 as amended).
 - **Individual Programmes of Professional Development:** In determining the areas of knowledge, skills and competencies that need to be improved, primarily are taken into consideration

competences included in the employee's competence profile. It is also possible to develop competencies, which are not contained in the profile (e.g. because of the intended promotion). The auxiliary tool when developing Individual Programmes of Professional Development is information obtained during competence audit.

- The use of competence-based management model to perform internal and external recruitment and selection of employees (since February 2013 all interviews in the CSO are conducted on the basis of competencies included in the competence profiles included in the descriptions of work posts).
- Implementing the employee motivation system.

Considering what an important aspect in the process of motivating is the so-called internal motivation, connected, among others, with the pursuit to development, gaining recognition, sense of responsibility and freedom of operation, it is necessary to enable employees to satisfy their needs in this respect, as well as the use of their potential. Such a possibility is given by participation in various kinds of projects being implemented in the CSO. Participation in activities related to the project gives the employee a chance to perform new, more responsible tasks, the use of own ideas, expansion of the available knowledge and acquisition of new skills and experience, as well as satisfaction with successfully completed consecutive stages of the project. Participation in the project may also be an element taken into account in the case of submitting the application for promotion, increase in remuneration or change of the working post. In the event when financial possibilities of the CSO enable it, the employees participating in projects can, according to binding regulations in this respect, receive appropriate task allowance or a prize for execution of additional tasks related to the project.

Employees of official statistics can raise their competencies also under development paths prepared for them.

- The creation and implementation of mechanisms designed to maintain highly qualified staff.

In 2012 and 2014 sessions of Development Centre (DC) were organised, where 59 employees of official statistics services took part. DC sessions is a method of assessment of competencies and development potential of employees with regard to the present and future tasks and planning paths of their development. During the DC session, competencies were verified important from the point of view of development of managers as well as employees of the CSO and regional statistical offices resulting from the developed competence profiles, among others: managing employees, decision-making, problem solving, strategic management, interpersonal communication, objective-orientation, cooperation in the team, analytic thinking, coordination, creativity and openness to changes. After the conducted DC sessions, individual development plans were developed that take account of both development instructions included in individual reports of each DC participant as well as the training-development needs deemed important by the employee and their superior.

- Preparation and implementation of the evaluation system of HR resources potential.

In order to obtain a more comprehensive image of employees' competencies, the CSO has implemented an additional (beyond the mandatory in civil service periodic evaluation, every two years) annual evaluation – competence audit. Competence audit was conducted previously twice – in September 2013 and 2014, using the prepared application for its needs. It enabled employees

of various levels to familiarise in practice with the model and its tools, without consequences related to periodic evaluation.

Assessing achievement of objectives in the area

Thanks to the implementation of the competence-based model, in particular as a result of developing competence profiles for specific groups of positions (in the CSO 20 competence profiles operate, for regional statistical offices 10 were created), it has become possible in the CSO (and partially in statistical offices), to integrate the previously conducted personnel policy with the defined mission and vision of statistics. In addition, the broadly understood staff management to a greater extent supports attaining strategic objectives of official statistics. It enables to improve relations in the organisation, supports communication and facilitates planning development activities and directions of planning further career. Above all, it enables, in the case of new employees, recruitment of people with the competencies required on the post, and in the case of persons already employed, thanks to diagnosing gaps and competence surpluses, development of the possessed competencies in the direction consistent with the organisation's needs.

Implementation of a motivation system and actions designed to stop the highly qualified staff positively affect reduction in personnel fluctuation and increase in satisfaction with the performed work, which is directly reflected in its quality.

The participation of employees of official statistics units in the addressed educational activities, taking account of development paths, is a non-financial motivation tool of staff of official statistics. The educational offer is strictly related to the diagnosed needs of employees and enables more complete adjustment of activities to the expectations of their beneficiaries.

The undertaken actions under Development Centre session were supposed to evaluate the potential and ensure development opportunities for highly-qualified employees, and, as a consequence, streamline the implemented tasks, outlining career paths and stronger bonds with official statistics.

In the *Human Resource Management Program in the Central Statistical Office 2013-2016*, under the priority *Improvement in motivation system for the purpose of optimum use of employees potential and reduction in personnel fluctuation*, one of the objectives is the development and implementation of a modern motivational system for the employees. For that purpose, the following actions were defined:

- preparation, implementation and monitoring of promotion principles,
- monitoring the process of granting financial rewards for the employees of the CSO for special achievements at professional work,
- introduction of a system of current feedback,
- monitoring and updating financial staffing,
- monitoring of principles and organisation of flexible forms of employment and working time,
- implementation of the principles of organising internal recruitment in official statistics units,
- increase in importance of appraisals in civil service in human resources management (connecting evaluations with the system of rewards and promotions).

Actions are executed in accordance with the schedule. Any possible changes concerning the terms, or the methods of execution of particular activities are presented for approval to Civil Service Director of CSO as one of points of document updating diagnosis and report from the implementation of the HRM Program.

Further activities

- Creation of a system that enables career planning for employees, including preparation and implementation of a modern motivational system for employees, in particular in the scope of promotion principles.
- Trainings and other actions designed to raise competencies necessary for proper tasks performance faced by official statistics.

On the basis of research carried out in 2014, it was determined that in the following year issues will be prioritised, which are related to:

- lifting employees' competencies running data analysis,
- external customer service and building a positive image of official statistics,
- communication and cooperation.

Actions will be implemented according to the schedule adopted for the HRM Program.

- Implementing and improving activities with regard to human resources management in regional statistical offices concerning, among others:
 - the procedure related to internal and external recruitment, with the possibility to develop rules determining the adaptation process in regional statistical offices ,
 - job descriptions , recruitment process and in the further perspective, periodical evaluations of civil servants and also Individual Programmes of Professional Development (prepared after periodical evaluation),
 - training and development activities of employees at the stage of preparing the statistical education plan for a given year (probably from 2016),
 - exit interview output and de-recruitment interview with employees quitting job in the regional statistical offices (2015-2016),
 - preparation and introduction (until the end of 2016) of the principles of using current feedback concerning achieved work results as well as the expected results.

Objective 3. *Limiting the dispersion of information and communication (IT) resources within the organisation and rationalising IT infrastructure running costs*

Completed development activities

- Development and adaptation of centres for data processing as a result of implementation of projects SISP and SISP-2.
- As a result of undertaken development actions, the following components of IT infrastructure of official statistics were created:
 - corporate IT network of the CSO, enables communication between all units of official statistics. The above mentioned network was used in the production process of statistical information in systems supporting collecting, processing and sharing statistical data and guaranteed necessary communication services: servicing e-mail, video calls, voice transmission under the Call Centre system and safe access to the Internet. In all the locations of official statistics units local computer networks were used, where PC workstations operated, as well as local servers of services provided in these units,
 - working posts of statisticians, which included over 1 800 pcs. virtual workstations amounted to nearly 7 000 pcs. of computers and notebooks with latest operating systems and office packages,
 - dedicated network for implementation of survey using the method of electronic data recording, phone interview and data transmission. The equipment of the said network included over 1400 hand-held computers,
 - approximately 700 servers, both physical and virtual, working in a network in services of official statistics, was a system, application and tool platform for the implementation of statutory tasks of official statistics services,
- In order to limit dispersion of IT resources in an organisation and rationalisation of costs of infrastructure operation, LAN computer network was built and modernised, new IT equipment and software bought in the CSO and regional units of official statistics.

Assessing achievement of objectives in the area

Funds received under projects SISP and SISP-2 made it possible to modernise hardware and software in organisational units of services of official statistics.

The task consisting in modernising the LAN network in the building of the CSO and units of official statistics was completed. The purchased hardware and software were implemented. The latest solutions enable economic and ergonomic use of resources at the disposal of the Polish statistics and start-up of services for individual and institutional customers. To preserve durability of the adopted solutions, however, it is necessary to continuously improve the adopted solutions, owing to the changing environment and needs. As a result of the built solutions, a potential appeared which is a base for the subsequent stage of development.

Further activities

Maintenance and development of systems required for providing a firm IT infrastructure, supporting functioning of the Polish Statistics.

Chapter III

NEW DEVELOPMENT ACTIONS, PRIORITIES AND FACTORS CONDITIONING THE IMPLEMENTATION OF PLANNED ACTIONS

When starting to prepare the vision of development and strategy of operation aiming at implementation of the vision, services of official statistics made a reliable and detailed analysis of development needs, necessary to meet the challenges of official statistics by changing environmental conditions (e.g. technological progress, legal and socio-economic conditions). Formulation of development actions, grouped into strategic fields corresponding to areas of required changes, took into account also the results of conducted analysis of possibilities, opportunities and threats of their implementation.

In connection with the above, the document adopted for implementation in May 2012 *Development Directions of Polish official statistics until 2017*, which presents the mission of official statistics, the vision of its development, strategic objectives, operational objectives in strategic areas and planned development actions and the expected results of those actions, remains valid.

Small modifications in development activities resulting from the current needs or conditions, did not require the development of a new, reviewed version of the aforementioned strategic document. They were presented, on the other hand, in this chapter of the *Report*.

The final part of the chapter presents in addition an initial list of development priorities, which will be the object of development activities after 2017 and will be presented in the next strategic document.

New and modified development actions in the years 2012-2017

Changes and modifications in the executed development actions in relation to intentions presented in *Development directions* result from flexible response of official statistics services both to new needs and challenges, and as regards the circumstances and experience appearing during implementation of the planned activities. New or modified actions were recorded in three from six strategic areas defined in *Development directions*.

Area 1. Polish official statistics on the national and international arena

New actions

- Preparation and implementation of assumptions of the strategy of international cooperation.

In 2013 a document was prepared and adopted for implementation, entitled *Directions of international cooperation in the light of development of Polish official statistics until 2017*, which determines basic directions and priorities of cooperation with other countries and international organisations in the field of statistics and determines in detail the tasks resulting from development activities included in *Development directions*.

- Cyclical expressing opinion about the documents of Eurostat related to the development of ESS 2020 Vision.

The CSO provided opinion about entries concerning ESS 2020 Vision and took part in discussions on projects included in the Programme for the Implementation of the ESS VIP Vision, e.g. by participation in the works of:

- The Preparatory Team for Preparing Project SS.VIP.BUS.ADMIN regarding the use of administrative sources of data in different domains of statistics,
 - VIN Group (Vision Implementation Network), whose main aim is constant monitoring of implementing ESS VIP projects.
- Peer review and implementation of streamlining actions resulting from recommendations of auditors.
- Peer review, executed under ESS applies to the degree of implementation of the principles of the European Code of Statistical Practices in the Polish statistical system. It required many preparatory actions both in terms of the required documents and organisation and conducting trainings and meetings. As a result of the performed review (at the beginning of 2015) streamlining actions have been agreed and will be implemented, aiming at increasing the effectiveness of the statistical system operation. They will have effect on actions undertaken by the CSO in the years to come.

Area 2. Integration of the official statistics system

New actions

- Adjustment of the form and mode of preparing Pbssp to the provisions of the revised Law on official statistics, pursuant to which since 2018 Pbssp will be prepared in a new formula, considering integrated approach to the process of collecting and processing data, including preparation of the concept of a new formula Pbssp with the use of SMS tools, conducting trainings and internal pilotage (services of official statistics) and external (other bodies authorised to conduct surveys) with regard to creating Pbssp in a new formula.
- Development of SISP and SISP-2 products, supporting the process of integration of surveys under the system of official statistics, i.e. Statistical Metadata System, with a separate RSI module (Repository of Information Standards) and a supporting module for organisation and monitoring statistical surveys (SPBS).

Area 3. Modernization of statistical surveys

New and modified actions

- Cooperation with the Ministry of the Environment aiming to create one source of data about waste and fulfilment of reporting obligations in this respect – database on products and packaging and waste management (BDO), thanks to which coherence will increase and data quality in this field transferred to EC by various units in the country.

- Undertaking works on the development of the so-called quick estimates with regard to the indicator of consumer prices, as well as on preparing the assumptions for new application of surveys for tablets and implementation of a new software to control retail prices at the voivodeship and national level.
- Starting works – in response to information needs reported by government administration and local administration and the scientific environment – to develop methodology for maritime economy satellite account, which will provide information on the share of maritime economy in generating the GDP.
- Works on streamlining research on the reasons of deaths by implementing automatic coding of the reasons of death and acquisition of information about the reasons of death directly from health protection units (platform P1).

In order to improve research concerning deaths, additional actions will be implemented in cooperation with the Ministry of Health:

- starting the system of training for doctors, in particular in the scope of proper diagnosis and precisely filling in the death information cards, but also to increase the awareness of the importance of examining the reasons of deaths,
- preparation and constant update of the dictionary of the reasons of deaths being an integral part of the IRIS system – dictionary and validation rules of coding should be generated by medical experts,
- implementation of an electronic death information card (e-death certificate), determining the acquisition of standardised descriptions of the reasons of deaths in the electronic form directly from health protection units.
- Actions with regard to the development of surveys methodology of the labour market
 - introduction to agricultural surveys of methodological changes (lack of possibility to research full population of persons involved in agriculture) made it necessary to verify the assumptions to prepare the methodology of estimates of work in agriculture and undertaking works on the possibility to obtain data from administrative registers or other surveys, which will allow to identify persons working on farms with area of up to 1 ha of arable land.
 - the substantive scope of verifying working conditions has been broadened, while extension of the subjective scope after a detailed analysis has been acknowledged as impossible due to costs of surveys and the respondents burden.
- Attempts to initiate cooperation with units involved in certification of quality systems and food safety, under works related to collecting data concerning food safety and broadening the knowledge in this field.

Attempts to initiate contact with entities involved in certification of food quality and safety systems failed. Activities under this objective focused on deepening knowledge in matters of food safety and active participation in the works of parliamentary commissions, performing the tasks connected directly or indirectly with this issue, e.g. comments were submitted to draft of the law on plant protection agents and draft of the regulation on conditions for application of plant protection agents.
- Development works in the scope of modernisation of social statistics as well as integration of economic statistics (FRIBS).

Factors conditioning the implementation of development actions planned for years 2015-2017

Basic factors conditioning the implementation of development activities referred to in document *Development Directions of Polish official statistics until 2017* remain valid, i.e.:

- legal conditions,
- availability of funds,
- favour of external partners,
- quality and completeness of administrative sources of data,
- inter-institutional cooperation,
- human resources,
- commitment and motivation of employees,
- technological/infrastructure resources,
- temporary conditions,

Changes in legal regulations, governing the generally understood area of national economy, have a substantial effect on the activities of official statistics services, including the scope of conducted statistical surveys. Thus, it is necessary to observe regular and effective participation of employees of official statistics in building and giving opinions about the provisions of the national and international law, especially in the context of generating tasks for official statistics and the possibility of the statistics to use administrative data sources. It is also planned to undertake subsequent works concerning the Law on official statistics, this time to develop a new Law, regulating in a complex manner the principles of official statistics system operation.

Actions with regard to the development of surveys in particular areas of statistics depend largely on decisions made under discussion in OECD, the UN and Eurostat, as well as agreements concluded by the countries at the meetings of groups and teams of various levels. An example may be national accounts, where for further development works **Eurostat decisions** are important concerning, among others, the effective date of a new Regulation concerning Gross National Income (GNI), including the planned new cycle of GNI control.

Additionally, on 19 May 2015, the Regulation (EU) No 2015/759 of the European Parliament and of the Council published in the Official Journal of the EU amends the previously valid regulation on European statistics. The introduction of new European legal regulations will apply, among others, to further clarification of coordination functions of national statistical institutes (NSI) in the National Systems and indication of obligations of the Presidents of NSI. This can involve the need to create new or modify the existing development activities.

To implement development activities it is necessary to **have relevant HR resources**. Acquisition and maintenance of HR resources with high competencies, adequate to more and more difficult and more complex statistics tasks, determines, among others, availability of funds at the appropriate level. Growing difficulties with motivating employees in the event of increasing duties and competence requirements at not satisfactory remuneration constitute large risk for the tasks being implemented. Currently, it is possible to observe large loss of employees and problems with recruiting new ones, properly educated and qualified people. As a result, significant importance has been gained by the proper HR policy and methods of motivating employees, e.g. motivating not only in the financial

aspect, but also through strengthening knowledge and skills. It is also necessary to ensure information flow, particularly including the expected effects and benefits of development changes implemented.

Implementation of new statistical research meeting the needs of national and international users and providing information necessary to monitor various development policies should be supported by desires for **funds acquisition**, also from sources other than funds from the state budget. One should, however, note that both joining of the Polish statistics services to implement international projects implemented by a few Member States under cooperation (ESSnet), and projects of development cooperation for partner countries depends on operational possibilities of projects executors, as well as is strictly determined by the availability of funds for potential projects (own contribution).

A particularly important factor determining the implementation of the planned development activities is **the quality and completeness of administrative data sources** (the tendency of administrators of administrative systems to use common classification standards and for works on improvement in completeness and quality of the data collected). Inter-institutional cooperation with managers of administration and outside administration information systems, aiming to obtain the highest methodological and classification interoperability of these systems with the information system of the CSO should be conducted as systematic, priority action of official statistics services.

For positive course of development activities it is also important **to obtain favour of external partners** (units of government and local government administration, respondents, scientific institutions etc.). It takes place, e.g. through consulting of the development activities undertaken by statistics and making partners aware of the importance of those actions not just for official statistics, but for the entire information system of the state.

Inter-department cooperation and cooperation with representatives of science both at regional level and central level, covering, among others improvement in surveys methodology, research-analytical works, conferences and scientific seminars, reinforces the position of official statistics as a reliable source of information. It is particularly significant in the areas of statistics, where the CSO needs the support of external experts. An important factor for the success of development works, reflected in statistical surveys programmes, is their acceptance by the Council of Statistics – consultative-advisory body in cases of official statistics at the Prime Minister, as well as consultations given by consultative-advisory bodies cooperating with the CSO, such as: Programme Commission, Scientific Statistical Council, Methodological Commission.

Nowadays, appropriate **technological-IT resources** constitute necessary support almost for all the planned development activities. Hence, it is important to ensure appropriate level of outlays of investment nature on development and maintenance of IT resources and the creation and maintenance of appropriate teams of programmers and administrators. Effective use of IT tools supporting execution of tasks requires conducting systematic trainings in service for the employees of entities from outside IT.

Great number and complexity of tasks faced by official statistics results in the fact that an important element determining success of the implemented development activities are **time possibilities**. Consequently, it is necessary to set the priorities and then properly divide tasks and obligations and spread over time.

Priorities of the Polish official statistics development after 2017

Experience gained in the period 2012-2014 during the implementation of objectives and development activities specified in strategic document *Development Directions of Polish official statistics until 2017* as well as observations conducted regularly on changes occurring in the environment, which can directly or indirectly affect functioning of the Polish official statistics, give premises to formulate initial (presented below) list of priority areas and development directions after 2017.

International cooperation

- Activity within the European Statistical System, due to binding nature of legal acts of the EU, after 2017 will continue to be considered as a priority area of international cooperation. In this respect actions will be crucial, which result from implementation of projects related to implementation of assumptions of Vision 2020. Provisions will be of fundamental meaning, which are developed in the course of planned prolongation of the European Statistical Programme for the period 2018-2020.
- Priorities of development of the Polish official statistics after 2017 in the area of statistical international cooperation have to be consistent with national guidelines (Ministry of Foreign Affairs) in this respect. At the present stage national assumptions are not available.
- Increase in the contribution of services of official statistics in the works of international groups and teams, which may cover also actions conducted under international projects implemented by several Member States under cooperation network (ESSnet).
- Continuation of cooperation with states of the Eastern Partnership. Determination of long-term frames of cooperation concerning priority statistical areas of Georgia, Moldova and Ukraine, requiring support from Polish statistical services.

Development of e-services and making data available

- Systematic adaptation of information offer of official statistics to the needs of recipients, with particular focus on presenting data in territorial sections.
- Improvement in methods and forms of sharing statistical information, facilitating the users to conduct independent analyses.
- Preparation of algorithms and procedures ensuring access to data at the possibly lowest level of aggregation without breaching statistical secret.
- Improvement in the methods of making metadata available collected in the SMS repository ensuring the users of data with full information concerning data quality, including concerning their consistency in the conceptual, classification and methodological scope.
- Expansion of the system of Public Data Warehouse.
- Enabling entrepreneurs (submitting statistical reports) to compare their company as compared to other entities e.g. from a given section of Polish Classification of Activities, a particular territorial area.

- Automation of supply with statistical data of external systems, including systems of the Polish public administration and Eurostat.
- Expansion of monitoring system of indicators related to the implementation of development programmes co-financed from the funds of the European Union.
- Expansion of the electronic archive, permitting access to archive resources of official statistics.
- Popularisation of access to information coming from official statistics through database systems, including, among others the development of Knowledge Databases.
- Improvement in presentation of statistical surveys results in the spatial perspective.

The vast majority of priorities from the area of sharing the data, mentioned above, was formulated as actions for the benefit of the Programme of Integrated IT Introduction of the State in the project *Strengthening the Information System of the state through modernisation of the process of making statistical data available*, reported as part of the specific objective no. 2 *Improvement in the availability and quality reviews of e-public services* Of the Operational Programme Digital Poland 2014-2020. The purpose of this action is modernisation of channels of access, increase in the extent and quality of statistical data available for citizens, entrepreneurs and public administration.

Communication with users, popularisation of operations of official statistics

- Improvement in methods and forms of communication with recipients of data.
- Regular verification of information needs of users, including examining the satisfaction level of customers and preparation of a monitoring system of entries to websites of particular statistical products.
- Implementation of activities aimed at increasing social awareness about the importance of official statistical surveys for the operation of the state and development at the national level and territorial levels.
- Intensifying promotion of products and services provided by official statistics.
- Running workshops and trainings for various groups of users of statistical information.

Improvement in statistical research

- Implementation of activities designed for implementation until 2020 of an Integrated Statistical Business Process Model (ZSRBS).
- Recognition and use of data sources out of statistics, e.g. information systems of public administration or Big Data.
- Broader use of administrative data as input data for statistical surveys.
- Development of analyses with the use of geospatial tools.
- Preparation and conducting census approximately in 2020 (national agricultural census and national population and housing census).

Owing to a great scale of the research and a variety of accompanying aspects, census requires several years of preparation in the sphere of organisation, methodology and technology. These are such important statistical surveys that take place under particular supervision of Eurostat, the UN and other international organisations.

- Provision of information and tools for effective monitoring of cohesion policy in the years 2014-2020, also with regard to the quality and availability of public services.
- Conducting preparatory works for the surveys on budget of time in the years 2022-2023.
- Development of agricultural and environmental economic accounts.
- Integration of social surveys at the national level and within EU.
- Undertaking actions aimed at implementation of surveys concerning the tangible effects of residential construction with the use of IT administrative data sources, which would enable to reduce in the reporting obligations of construction administration units.
- Continuation of cooperation with the Ministry of Infrastructure concerning the provision of data necessary to monitor the national objective, with regard to prudent power management. It is associated with of implementation of the obligation to submit by the EU Member States of a report from all input data and assumptions used for setting the optimum in terms of cost level of requirements on the energy performance of buildings.
- Development of surveys of power effectiveness and energy from renewable sources, enabling monitoring energy policy of Poland.
- Improvement in research of retail prices in the scope of systematic implementation of data from commercial chains to surveys of prices of consumer goods, automation of obtaining data about retail prices from the Internet.
- Adjustment of surveys to the European requirements, which will be specified in *the Framework Regulation Integrating Economic Statistics* (FRIBS), taking account of, among others, globalisation.
- Further improvement in the quality of national and regional accounts in order to fully implement ESA2010.
- Preparation of data from national accounts covered by derogation according to the methodology ESA 2010.
- Ensuring full transmission of tables of the programme *ESA 2010 Transmission*, implementation of the SDMX system.
- Further implementation by the services of official statistics of statistical projects subsidised from the funds of the European Commission aiming at adaptation of national statistics to the requirements of European statistics and harmonisation of statistical data.

Annex 1. List of abbreviations

Abbreviation	Explanation
ABM	Analytical Microdata Base
R&D	Research and Development activity
BAEL	Research on Economic Activity of Population (<i>Badanie Aktywności Ekonomicznej Ludności</i>)
BDL	Local Data Bank (<i>Bank Danych Lokalnych</i>)
BDM	Bank of Macroeconomic Data
BDO	Database on products and packaging and waste management (<i>Baza danych o Odpadach</i>)
BJS	Statistical Unit Database (<i>Baza Jednostek Statystycznych</i>)
CAII	Computer Assisted Internet Interviewing <i>Transfer of data by the respondent via Internet (electronic form)</i>
CAPI	Computer Assisted Personal Interviewing <i>Interview conducted by an actuary/statistical pollster division at the respondent, recorded on a mobile device</i>
CATI	Computer Assisted Telephone Interviewing <i>Phone interview supported by a computer programme</i>
CAXI	Computer Assisted (x=Internet, Personal, Telephone) Interviewing <i>Computer-assisted systems of data collection, i.e. CAII, CATI, CAPI</i>
CEIDG	Central Registration and Information on Business (<i>Centralna Ewidencja i Informacja o Działalności Gospodarczej</i>)
COICOP	Classification of Individual Consumption to Purpose
CSO	Central Statistical Office
CWPS	Working Group of the Council for statistics
EFTA	European Free Trade Association
EKG ONZ	European Economic Commission of the United Nations
EKPS	European Code of Statistical Practices
ESA	European System of National and Regional Accounts
ESS	European Statistical System
ESTP	European Statistical Training Programme
Eurostat	Statistical Office of the European Union
EU-SILC	European Survey on Income and Living Conditions
GIS	Geographic Information System

GDP	Gross Domestic Product
GSBPM	Generic Statistical Business Process Model
CSO	Central Statistical Office
HBS	Household Budget Survey
HDS	Statistical Data Warehouse
HICP	Harmonized Indices of Consumer Prices,
HRM	Human Resources Management Programme
ICT	Information and Communication Technologies
IT	Information Technology
KPRM	Office of the Prime Minister <i>(Kancelaria Premiera Rady Ministrów)</i>
KRS	National Court Register <i>(Krajowy Rejestr Sądowy)</i>
KRUS	Agricultural Social Insurance Fund <i>(Kasa Rolniczego Ubezpieczenia Społecznego)</i>
NACE	Statistical Classification of Economic Activities in the European Community
NSP	National Census of Population and Housing
NUTS	Nomenclature of Territorial Units for Statistics
OBM	Operating Microdata Base
OECD	Organisation for Economic Co-operation and Development
OOH	Owner Occupied Housing <i>Prices index of ownership apartments inhabited by the owner.</i>
Pbssp	Programme of statistical surveys of official statistics <i>(Program badań statystycznych statystyki publicznej)</i>
PHD	Public Data Warehouse
PI CSO	Information Portal of the Central Statistical Office
PK	Corporate Portal <i>(Portal Korporacyjny)</i>
PKD	Polish Classification of Activities <i>(Polska Klasyfikacja Działalności)</i>
PKWiU	Poland Classification of Products and Services <i>(Polska Klasyfikacja Wyrobów i Usług)</i>
PPP	Purchasing Power Parity
PSR	Agricultural census
REGON	National official register of national economy entities

RSI	Repository of Information Standards
SDMX	Statistical Data and Metadata eXchange
SEOD	System of Electronic Document Circulation
SII	Intranet Information System
SIO	Educational Information System (<i>System Informacji Oświatowej</i>)
SISk	Directing Information System (<i>System Informacji Skierowującej</i>)
SISP	System of Information of Public Statistics
SNA	System of National Accounts
SMS	Statistical Metadata System
SPI	Information Presentation System
SPDS	Statystistical Data Processing System
SWAiD	Support System of Analysis and Decisions
TERYT	National Official Register of Territorial Division of the Country
EU	European Union
WHO	World Health Organization
ZMRBS	Integrated Statistical Business Process Model (<i>Zintegrowany Model Realizacji Badań Statystycznych</i>) <i>Polish model of research prepared on the basis of the GSBPM model</i>
ZSRBS	Integrated Statistical Business Process System (<i>Zintegrowany System Realizacji Badań Statystycznych</i>)
ZUS	Social Security Institution (<i>Zakład Ubezpieczeń Społecznych</i>)