

**Documentation of statistics for
Business and Management Consultancy Activities 2014**

1 Introduction

The purpose of the statistics is to provide information about the activities in the sector Business and management consultancy activities and thereby improve the knowledge of the sector. Moreover, the purpose is to improve the information in the national accounts statistics regarding the service sector, and finally it contributes to the continuing maintenance of activity codes in the Central Business Register.

The statistics carries out every two years. It is a sampling and questionnaire-based statistics. The statistics is a part of EU Structural Business Statistics (SBS). The statistics was carried out for the first time for the year 2005.

2 Statistical presentation

The statistics provides information on the distribution of total turnover (and export) on products and services in the sector Business and management consultancy activities. Furthermore the statistics provides information on the turnover and export divided by clients and residence of client (resident or Non-resident intra-EU or Non-resident extra-EU).

2.1 Data description

The statistics provides information on the distribution of total turnover (and export) on products and services in the sector *Business and management consultancy activities*. Furthermore the statistics provides information on the turnover and export divided by clients and residence of client (resident or Non-resident intra-EU or Non-resident extra-EU).

2.2 Classification system

The activity codes are:

- Public relation and communication activities (DB07) 70.21.00
- Business and other management consultancy activities (DB07) 70.22.00

Dansk Branchekode 2007 (DB07) correspond to Nace Rev. 2 activity classification. A full description of the activities can be found on [Dansk Branchekode DB07](#).

The activity codes for 2003-2006 are Other business and management consultancy activities (DB03) 74.14.90

In the national publication the following services and clients are used.

Services:

- Public relation and communication services
- Strategic management consulting services
- Financial management consulting services
- Marketing management consulting services
- Human resources management consulting services
- Production management consulting services
- Supply chain and other management consulting services
- Business process management services
- Other project management services, excluding construction
- Other business consulting services
- Trademarks and franchises
- Training
- Other additional products n.e.c

Client:

- Public sector
- Households and non-profit institutions
- Enterprises

In the EU publication the resident of clients is used instead the *National* clients mentioned above.
Resident of client:

- Resident
- Non-resident, of which intra-EU or extra-EU.

2.3 Sector coverage

The statistics covers enterprises that are legally registered in Denmark and have the main activity in the sector for *Business and management consultancy activities*.

2.4 Statistical concepts and definitions

Client: In the national publication the following clients are used:

- Public sector
- Households and non-profit institutions
- Enterprises

Residence of client: In the EU publication the resident of clients is used

- Resident
- Non-resident intra-EU
- Non-resident extra-EU

Services: Generally the questions in the questionnaire are based on Statistical Classification of Products by Activity [CPA 2008](#) with adjustments to Danish conditions. The following services are used:

- Public relation and communication services
- Strategic management consulting services
- Financial management consulting services
- Marketing management consulting services
- Human resources management consulting services
- Production management consulting services
- Supply chain and other management consulting services
- Business process management services
- Other project management services, excluding construction
- Other business consulting services
- Trademarks and franchises
- Training
- Other additional products n.e.c

The firms provide information about their turnover and export (in 1000 kr. without VAT). Further more the total turnover and export are distributed on services (in 1000 kr. without VAT) and clients (in percent). Finally, the export is divided by residence of client (resident and Non-resident intra-EU or Non-resident extra-EU). Until 2008 information on ownership was collected i.e. if the ownership is Danish, intra-EU or extra-EU.

2.5 Statistical unit

The units in the statistics are enterprises in the sector for *Other business consultancy activities*. The enterprises are legal and defined by their CVR-nr in the Business Register of Statistics Denmark.

2.6 Statistical population

Committee Population (FRAME) describes the population from which the sample to *Business and Management Consultancy Activities* is drawn. *FRAME* includes all enterprises in the sector *Business and Management Consultancy Activities* in the Business Register System, which are active in the extraction time. (Active enterprises are enterprises, which have paid in wage and salary for employees corresponding to at least 0.5 man-year and/or have had calculated earnings of a certain volume.)

Target population describes the population as respondents (the selected enterprises) shall be estimated to. The target population includes all enterprises in the sector *Business and Management Consultancy Activities* in the Business Register System, which are active when estimation/calculation is carried out. There may be situations where some enterprises are located in *FRAME* but not in the target population. This is due to business closure or industry changes between the draw of *FRAME* and the target population. Similarly, it can also happen that there are some enterprises in the target population but not in *FRAME*, because data in the target population are updated with recent and new information, thus the target population could include new enterprises.

FRAME 2014 for Business and Management Consultancy Activities includes about 8,000 enterprises. Furthermore the *FRAME* is bounded so enterprises that have under five full-time employees, are sorted out. The total number of enterprises in the *FRAME 2014* is estimated to 3,540. The target population for *Business and Management Consultancy Activities* is estimated to 9,000 enterprises.

2.7 Reference area

Denmark

2.8 Time coverage

The statistics covers the time period from 2005 onwards.

2.9 Base period

Not relevant for these statistics.

2.10 Unit of measure

The distributions of turnover (and export) by services and clients are given in 1.000 kr. Before the year 2013 the distributions of turnover were given in percent.

To Eurostat the distributions of the turnover by services and resident of clients are delivered in DKK 1,000. In the Statistics Database of Eurostat the data are published in 1,000 Euros [Statistics Database of Eurostat](#).

2.11 Reference period

The statistics covers the financial year.

2.12 Frequency of dissemination

The statistics is carried out every second year.

2.13 Legal acts and other agreements

The Act on Statistics Denmark (Lov om Danmarks Statistik), Section 8, cf. Order no. 599 of 22 June 2000.

From the reference year 2008: Regulation (EC) No. 295/2008 of the European Parliament and of the Council of 11 March 2008 concerning structural business statistics.

2.14 Cost and burden

Statistics on response burden for the reference year 2012 does not exist.

2.15 Comment

The statistics has a [subject pages](#).

3 Statistical processing

Data are collected by web from 549 enterprises for the sector *Business and Management Consultancy Activities*. In the questionnaire the enterprises are asked to breakdown their turnover by a number of products, services and client categories. The reported data are checked by comparing the distribution of turnover among enterprises that are similar.

Survey data is grossed up in part by including information from administrative sources on the VAT turnover in the reference year for the entire population.

3.1 Source data

The statistics is based on a sample of enterprises in the sector for *Business and management consultancy activities*. The enterprises are selected based on their number of full-time employees. The number of full-time employees is calculated based on the average for full-time employees in each of the four quarters of the year.

The sample is stratified random sample consisting of all enterprises with 5 employees or more and a part of enterprises with 1-4 employees. The sample is divided into 6 size groups: 1-4, 5-9, 10-19, 20-49, 50-100 and more than 100 full-time employees. Every second year, when data are collected, a new sample is drawn and the population consists of enterprises in the Business Register System, which are active in the drawing time.

3.2 Frequency of data collection

Data are collected every second year.

3.3 Data collection

Data are collected by online questionnaires. In the questionnaire the enterprises are asked to distribute their turnover in DKK 1,000 by a number of products, services and client categories.

The reporting is mandatory, i.e. the enterprises are required to report accurate data on time. If the data has not been received, the companies will be reminded 3 times by mail or telephone. After that a registered letter will be sent to inform the enterprises that if the information are not submitted within one week, Statistics Denmark can refer the matter to the police for requesting the imposition of a fine.

3.4 Data validation

The submitted data are checked for errors, ex. data of the individual reporter are compared with prior periods and similar enterprises reporting in the current period. If the data are significantly different than expected, the enterprise will be contacted. It must be assumed that not all errors in the data are found. That is why the statistics may be subject to some uncertainty associated with error reporting.

3.5 Data compilation

The data from the questionnaires received are grossed up to the provisional total turnover from Business Register.

The data are corrected for bias in the sample and response pattern. A so-called ratio estimate is used, which includes information on the taxable turnover of the year concerned for the entire population of the sector for *Business and management consultancy activities*.

3.6 Adjustment

Not relevant for these statistics.

4 Relevance

The statistics is used among enterprises when planning and provides an overview of the development taking place in the service sector.

Furthermore the statistics is an input to national accounts in Statistics Denmark regarding the service sector. The statistics is also used of the European Statistic bureau, Eurostat, to create EU-statistics about Business Services.

4.1 User Needs

The statistics is used among enterprises when planning and provides an overview of the development taking place in the service sector.

Furthermore the statistics is an input to national accounts in Statistics Denmark regarding the service sector. The statistics is also used of European Statistic bureau, Eurostat,, to create EU-statistics about Business Services.

4.2 User Satisfaction

Information about user satisfaction for the statistics does not exist.

4.3 Data completeness rate

Turnover for some industries and services will not be published due to confidentiality or data quality.

The statistics is covered by the requirements of the EU. Regarding completeness of the data all these requirements are satisfied.

5 Accuracy and reliability

Overall, the uncertainty of the level of the total turnover is estimated below 1 per cent. The uncertainty varies widely between services and is significantly higher than the uncertainty of the total turnover. For example the service "Consulting in finance (except corporate tax)" has a sampling uncertainty of 21 per cent.

5.1 Overall accuracy

The quality of the statistics is rated acceptable.

For the reference year 2014 there are 549 enterprises in the sample, covering approx. 67 per cent of the total turnover in the FRAME population for the sector *Business and management consultancy activities*. The sample includes all enterprises with 5 or more employees and part of enterprises with 1-4 employees. Only enterprises which are active at the end of the year were included.

517 enterprises answered the questionnaire, i.e. the response rate is 94 percent. The usable questionnaires are from 423 enterprises. There is a lapse of 23 per cent. The lapse are due to wrong industry code and closure of the enterprises.

The usable data from 423 enterprises grossed up to the total level (the target population) of the 6-digit industries within the sector for *Business and management consultancy activities* by using preliminary turnover from the Business Register. Each company is assigned a weight, that corresponds to the ratio of population and responses in a given size group and industry. The enumeration is made by ratio estimation.

As the survey is random, the figures can be associated with some statistical uncertainty in the form of random variation. The sampling error is calculated for all services in the form of variance, 95 pct. confidence interval and coefficient of variation. Uncertainty estimates can be seen in the attached document [usikkerhedsestimer_VIRA](#)

The figures for 2014 are preliminary and will not be revised in the national publishing. For delivery to EU the figures are calculated (revised) based on Accounts Statistics.

5.2 Sampling error

The sample for the reference year 2014 was drawn at 01 January 2015 consisting of 549 enterprises. Of these, 517 companies have completed the questionnaire, i.e. the response rate is 94 percent. The usable questionnaires were from 423 enterprises.

The sampling error is calculated for all services in the form of variance, 95 pct. confidence interval and coefficient of variation. Uncertainty estimates can be seen in the attached document [usikkerhedsestimater VIRA](#)

5.3 Non-sampling error

The total uncertainty consists of sampling uncertainty and other systematic uncertainty. In other uncertainties include inter alia measurement error and non response error/lapse.

Coverage error:

The population is defined by the industry, the enterprises registered in the Business Register by themselves. Errors of classification of the industries will be expected. This means that there may be enterprises in the population that really should not be classified as an enterprise in the sector *Business and management consultancy activities*, but also companies in the sector *Business and management consultancy activities* can be classified with the wrong industry.

In the context of fault tracing and quality assurance of the statistics, number of these errors continuously are found and corrected. Companies that incorrectly classified as *Business and management consultancy activities* cause over-coverage while misclassifications within *Business and management consultancy activities* cause over-coverage in one industry but under-coverage in another. These coverage error is detected primarily for companies in the sample, but also in some cases for non-sampled companies.

Under- coverage in the form of companies that are classified entirely outside *Business and management consultancy activities*, even though they should properly be classified as *Business and management consultancy activities*, are difficult to detect, but can be found also. The significance of these coverage problems are generally small because the volume is estimated to be small.

The total number of enterprises in the FRAME population is estimated to 3540, and among these the sample is selected. The sample for the reference year 2014 was 549 companies and is thus approx. 16 per cent. of the total number of the FRAME population. Because of the stratified selection, where large companies are more likely to selection than the smaller, the sample consists approx. 67 per cent. of the total turnover of the FRAME population.

Measurement error:

Uncertainty due to lapse, incorrectly reported numbers and misunderstandings has sought to minimize by repeated reminders by non-reporting, as well as by substantial verification of the reported figures.

Generally the services in the questionnaire are based on Statistical Classification of Products by Activity [CPA 2008](#), with an adjustment to Danish conditions. It can be an uncertainty in the distribution of turnover and export by services when the services CPA 2008 are not quite commensurate with the classification of products of the firms.

Non response error:

There are 549 enterprises in the sample. The usable questionnaires are from 423 enterprises, i.e. there is a lapse of 23 per cent.

5.4 Quality management

Statistics Denmark follows the recommendations on organisation and management of quality given in the Code of Practice for European Statistics (CoP) and the implementation guidelines given in the Quality Assurance Framework of the European Statistical System (QAF). A Working Group on Quality and a central quality assurance function have been established to continuously carry through control of products and processes.

5.5 Quality assurance

Statistics Denmark follows the principles in the Code of Practice for European Statistics (CoP) and uses the Quality Assurance Framework of the European Statistical System (QAF) for the implementation of the principles. This involves continuous decentralized and central control of products and processes based on documentation following international standards. The central quality assurance function reports to the Working Group on Quality. Reports include suggestions for improvement that are assessed, decided and subsequently implemented.

5.6 Quality assessment

The quality of the statistics is rated acceptable. It can be problems in comparing figures over time.

Before the survey year 2004 the sector Business and management consultancy activities has been studied with Accounting, bookkeeping and auditing activities. Data break from 2005 to 2006, due to changes in the questionnaire. From 2006 to 2008, the data are not comparable because of the changes in industry codes (from NACE rev.1 to NACE rev. 1.1 and to Nace rev. 2) and changes in the sample. From the reference year 2013 the method is changed so the enumeration is based on a new data from the Central Business Register. Data are back calculated for 2012. Which means that the results before the year 2012 are not directly comparable to the results from 2012 onwards.

For the reference year 2014 there are 549 enterprises in the sample, covering approx. 67 per cent of the total turnover in the FRAME population for the sector *Business and management consultancy activities*. The sample includes all enterprises with 5 or more employees and part of enterprises with 1-4 employees. Only enterprises which are active at the end of the year were included.

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The usable data from 423 enterprises grossed up to the total level (the target population) of the 6-digit industries within the sector for *Business and management consultancy activities* by using preliminary turnover from the Business Register. Each company is assigned a weight, that corresponds to the ratio of population and responses in a given size group and industry. The enumeration is made by ratio estimation.

As the survey is random, the figures can be associated with some statistical uncertainty in the form of random variation. The sampling error is calculated for all services in the form of variance, 95 pct. confidence interval and coefficient of variation Uncertainty estimates can be seen in the attached document [usikkerhedsestimater VIRÅ](#)

The figures for 2014 are preliminary and will not revised in the national publishing. For delivery to EU the figures are calculated (revised) based on Accounts Statistics.

5.7 Data revision - policy

Statistics Denmark revises published figures in accordance with the [Revision Policy for Statistics Denmark](#). The common procedures and principles of the Revision Policy are for some statistics supplemented by a specific revision practice.

5.8 Data revision practice

The published data will not be revised, since the statistics is published once a year.

6 Timeliness and punctuality

The statistics is published every second year and approximately 10 months after the reference year. The statistics is published usually without delay regarding to the announced date. To EU the data must be delivered within 18 months after the reference year.

6.1 Timeliness and time lag - final results

The statistics is published once every second year and approximately 10 months after the reference year. Only the preliminary figures are published. To EU the data must be delivered within 18 months after the reference year.

6.2 Punctuality

The statistics is usually published without delay regarding to the announced date.

7 Comparability

The statistics has been compiled since 2001. Before the survey year 2004 the sector *Business and management consultancy activities* has been studied with *Accounting, bookkeeping and auditing activities*. It can be problems in comparing figures over time. The questionnaire, the sample design and the calculation method have been adjusted a few time, latest in 2013, where data for 2012 has been backcasted using new method.

7.1 Comparability - geographical

To Eurostat the data are provided only for enterprises with less 20 person employed (according to EU's regulation). In the Statistics Database of Eurostat the distributions of the turnover by services and residence of client are published on [EUROSTAT's homepage](#). It is considered that there are good comparability across countries, because the statistics should be produced by common guidelines and principles.

7.2 Comparability over time

The statistics has been compiled since 2001. Before the survey year 2004 the sector *Business and management consultancy activities* has been studied with *Accounting, bookkeeping and auditing activities*. It can be problems in comparing figures over time. The questionnaire, the sample design and the calculation method have been adjusted a few time, latest in 2013, where data for 2012 has been backcasted using new method.

7.3 Coherence - cross domain

At national level the data for the survey are grossed up to the provisional turnover from the statistic Purchases and sales of enterprises ("VAT statistics"). The final turnover is not available at the time when data are grossed up. The VAT statistics provides the total turnover in the sector for *Business and Management Consultancy Activities*, whereas this survey in addition to the total turnover also indicates the breakdown of the turnover by different services.

At European level the data for the statistics are grossed up to the level for the Danish Accounts Statistics. As in the VAT statistics the breakdown of the turnover by various services doesn't exist in the accounts statistics but only in this survey.

7.4 Coherence - internal

Not relevant for these statistics.

8 Accessibility and clarity

The latest New article for *Business and management consultancy activities* can be found on [NEW](#). The statistics is published on [Statbank](#). Furthermore the statistics has a subject pages within Services Sector [subject pages](#).

In the Statistics Database of EU the distributions of the turnover by services and residence of client are published on [EUROSTAT's homepage](#).

8.1 Release calendar

The publication date appears in the release calendar. The date is confirmed in the weeks before.

8.2 Release calendar access

The Release Calendar can be accessed on our English website: [Release Calendar](#).

8.3 User access

Statistics are always published at 8:00 a.m. at the day announced in the release calendar. No one outside of Statistics Denmark can access the statistics before they are published.

8.4 News release

From the reference year 2013 it will be not published a separate New-article for *Business and management consultancy activities*. Instead, there is an annual New article for the following industries within the Service Sector:

- Computer services
- Advertising services
- Temporary employment agencies and other human resources services
- Legal services
- Accounting and bookkeeping
- Business and management consultancy activities
- Architectural services
- Market research and public opinion polling
- Technical testing and analysis
- Consulting engineering.

The latest New article for * Business and management consultancy activities * can be found on [NEW](#).

8.5 Publications

Before 2010 the statistics was a part of Statistical Yearbook.

8.6 On-line database

In the national publishing the distribution of the turnover by services is published on [Statbank](#).

In the European publishing the distributions of the turnover by services and residence of client are published on [Statistics Database of Eurostat](#).

8.7 Micro-data access

Access to Micro-data is not possible. The questionnaires and data are stored for a number of years.

8.8 Other

There is no other accessibility than New article, Statistics Bank and subject page from Statistics Denmark and the EU's statistics Bank.

8.9 Confidentiality - policy

The statistics follows [Data Privacy Policy](#).

8.10 Confidentiality - data treatment

The statistics follows [Data Privacy Policy](#).

8.11 Documentation on methodology

The statistical method is described only here in the documentation of statistics.

8.12 Quality documentation

Results from the quality evaluation of products and selected processes are available in detail for each statistics and in summary reports for the Working Group on Quality.

9 Contact

The administrative placement of this statistics is in the division of Business Development. The person responsible is Bao Chau Do, tel. +45 3917 3115, e-mail: bcd@dst.dk

9.1 Contact organisation

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