

# Production in services

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<b>2 Metadata update</b>	
<b>2.1 Date of last update</b>	05.04.2024
<b>3 Popis štatistiky</b>	
<b>3.1 Popis údajov</b>	
<p>The following source data are used to calculate the index of production in services (ISP — Index of Services Production):</p> <ul style="list-style-type: none"><li>• turnover and goods excluding VAT in the monitored month;</li><li>• average monthly turnover own services and goods without VAT in the base year;</li><li>• added value in the base year for the calculation of weights;</li><li>• prices in a specific month compared to prices in the base year</li></ul> <p>All data are indices calculated from source data in the following forms:</p> <ul style="list-style-type: none"><li>• not adjusted for calendar and seasonal effects,</li><li>• adjusted for calendar effects,</li><li>• adjusted for calendar and seasonal effects</li></ul>	
<b>3.2 Klasifikačný systém</b>	
<p>The data are classified on the basis of the Statistical Classification of Economic Activities SK NACE Rev. 2.</p>	
<b>3.3 Pokrytie štatistických oblastí a okruhov</b>	
<p>ISP is calculated for economic activities in sections G to N (with the exception of K, M70.1, M72, M75). ISP results are published for the following aggregates according to SK NACE Rev. 2:</p> <ul style="list-style-type: none"><li>• sections G, H, I, J, L, M, N (with the exception of M70.1, M72, M75)</li><li>• divisions G45, G46, H49, H50, H51, H52, H53, I55, I56, J58, J59, J60, J61, J62, J63, L68, M69, M70, M71, M73, M74, N77, N78, N79, N80, N81, N82</li><li>• aggregates G to N, H to N (with the exception of K, M70.1, M72, M75) and M69+M70.2.</li></ul>	
<b>3.4 Štatistické pojmy a definície</b>	

The index of production in services provides information on changes in the volume of production for selected service industries over time. It is defined as the share of the production volume of selected service industries in a specific time period to the production volume of the same service industries in a specific base period. The year 2015 is used as the base period.

To evaluate the production of selected service industries, data on sales for own services and goods without VAT at constant prices are used. The data cover the total amount billed by the reporting unit during the reference period, which corresponds to sales of goods and services to third parties. They include all fees and taxes on goods or services charged by the reporting unit, with the exception of value added tax and excise duty.

### **3.5 Štatistická jednotka**

The statistical unit for the source data included in the calculation of the ISP is a legal entity registered in the commercial register (business entity), a contributory organization belonging to the sector of non-financial corporations in the sense of the methodology of national accounts, a natural person registered in the trade register or doing business according to a law other than the Trade Act (traders).

### **3.6 Cieľová populácia**

The target population is legal entities registered in the commercial register (entrepreneurs), contributory organizations belonging to the sector of non-financial corporations in the sense of the national accounts methodology, natural persons registered in the trade register or doing business according to other than the Trade Act (traders) with the main activity according to SK NACE rev . 2 within sections G, H, I, J, L, M (with the exception of M72, M75) and N.

### **3.7 Geografické pokrytie**

The data are for the Slovak Republic. Reporting units are residents of the territory of the Slovak Republic and report data for business activities carried out on the territory of the Slovak Republic, as well as for activities performed abroad for which they incur tax and other obligations in relation to the Slovak Republic in accordance with applicable legislation.

### **3.8 Časové pokrytie**

The data covers the time period from January 2010 to the present.

### **3.9 Bázické obdobie**

The base period is the average month of 2015.

## **4 Merná jednotka**

The data are in the form of an index to the base period.

## **5 Referenčné obdobie**

The reference period for published indices is a month.

## **6 Inštitucionálny mandát**

## 6.1 Právne akty a iné dohody

The authority of the Statistical Office of the Slovak Republic to collect data is regulated by Act of the National Council of the Slovak Republic No. 540/2001 Coll. on state statistics, as amended. The obligation of the addressed subjects to provide data is also established in this law on the basis of the Program of State Statistical Surveys, which is established for a three-year period.

## 6.2 Spoločné využívanie údajov

- The Statistical Office of the Slovak Republic publishes processed data from monthly surveys in transport; in information and communication; in trade, hospitality and accommodation and in selected market services in the form of production indexes on its web portal.
- The data are sent in the same form to the European Commission (Eurostat) in accordance with the regulation of the European Parliament and the Council of the EU on European business statistics (the so-called framework regulation integrating business statistics — FRIBS).

# 7 Štatistická dôvernosť

## 7.1 Politika štatistickej dôvernosti

Act No. 540/2001 on State Statistics, as amended, obliges the Statistical Office of the Slovak Republic to protect confidential data and to use it explicitly for the creation of state statistics. The Statistical Office of the Slovak Republic has therefore introduced principles and procedures for the protection of confidential data in the internal Directive on the protection of confidential statistical data supplemented by Methodological Instructions. While the aforementioned directive regulates general issues related to the protection of confidential data, the methodological instruction focuses on specific methods and parameter values used in the phase of ensuring the confidentiality of the results of specific statistical surveys and data sets.

The application principles for the protection of confidential statistical data are available on the website of the Statistical Office of the Slovak Republic:

[Statistical confidentiality policy](#)

## 7.2 Zaobchádzanie s údajmi

When ensuring the protection of confidential statistical data in tables with aggregated data, the Statistical Office of the Slovak Republic applies in all cases the minimum frequency rule for  $n = 3$ , i.e. aggregate data for less than 3 enterprises is not published. In addition, the office also applies other rules for statistical results in tables with aggregated data, especially in cases where a separate regulation requires it. When ensuring the protection of confidential statistical data in frequency tables, the Office applies the rules of protection in such a way that it is not possible to find out confidential statistical data about an individual or a group of individuals with common characteristics that are part of the table.

# 8 Politika zverejňovania

## 8.1 Kalendár prvého zverejnenia

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## 8.2 Prístup ku kalendáru prvého zverejnenia

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### 8.3 Prístup používateľov k štatistickým informáciám

- The policy on the dissemination of statistical information is formulated in accordance with the Act on State Statistics, the development strategy of the Statistical Office of the Slovak Republic, the information dissemination strategy of Eurostat and the Code of Practice for European Statistics. The general principles of publication and provision of statistical information can be found on the web portal of the Statistical Office of the Slovak Republic: [Principles of publication and provision of statistical information](#)
- On the day of sending the data to Eurostat in accordance with the schedule approved by them, the statistical information is also available to all users in the database of the Statistical Office of the Slovak Republic: [DATAcube](#)

## 9 Periodicita zverejňovania

Monthly.

## 10 Dostupnosť a zrozumiteľnosť

### 10.1 Tlačové správy

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### 10.2 Publikácie

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### 10.3 On-line databázy

The data are published in the database of the Statistical Office of the Slovak Republic: [DATAcube](#)

### 10.4 Prístup k mikroúdajom

The micro-data used for the calculation of the production indices are not published.

### 10.5 Iné

The European Commission (Eurostat) publishes production indices on its web portal.

### 10.6 Dokumentácia o metodike

The initial methodological guide of the European Commission (Eurostat) for creating the production index in services is available on its web portal at <https://ec.europa.eu/eurostat/documents/1916593/1917176/ISP+Guide/ffa22d72-008d-4f45-811e-1b547ed93277>.

The OECD's original methodological guide to the creation of the index of production in services is available on its web portal at <http://www.oecd.org/sdd/business-stats/37799074.pdf>.

## 10.7 Dokumentácia o kvalite

For the purpose of the systematic creation of statistical data, the technical projects of statistical surveys and the internal methodological instructions of the Statistical Office of the Slovak Republic serve as the Methodological Instruction Quality Indicators of Statistical Outputs and Statistical Processes and the Methodological Instruction for the Application of Mathematical-Statistical Methods for Statistical Research.

## 11 Riadenie kvality

### 11.1 Zabezpečovanie kvality

The quality policy is defined and publicly accessible in the Quality Declaration and Quality Policy documents. The basic principles of the Statistical Office of the Slovak Republic emphasize customer orientation and focus on the quality of the office's products and services. These are transferred to the development strategy of the Statistical Office of the Slovak Republic for the given period in terms of vision, goals and commonly recognized values. The quality manual covers all components of the ISO 9001:2008 standard. Internal guidelines related to value-creating processes are created, supplemented by supporting management processes and supporting resource processes. The Code of Practice for European Statistics is the basic pillar of the entire quality management system.

[Declaration of quality](#)

[Quality policy](#)

[Quality manual](#)

[Code of Practice for European Statistics](#)

### 11.2 Hodnotenie kvality

Currently, technical projects for statistical surveys are developed, including the necessary matters related to data entry, completeness of data and statistical controls. Evaluation of statistical surveys and methodical audits, including analysis of results and reporting of results, are integrated into the existing quality management system.

## 12 Relevantnosť

### 12.1 Potreby používateľov

Consultations with users are required by the Law on State Statistics emphasizing cooperation with other organizations (ministries and state organizations) during the preparation of the Program of State Statistical Surveys. In practice, consultations with users work on a bilateral level and also within the activities covered by the action program aimed at finding out the expectations of key users, supporting better interpretation and use of statistical products.

Currently, the key data user is the European Commission.

### 12.2 Spokojnosť používateľov

User contentment is monitored through the Survey of User Satisfaction with Products and Services of the Statistical Office of the Slovak Republic, conducted regularly every two years.

[Satisfaction survey](#)

### 12.3 Úplnosť štatistických informácií

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## **13 Presnosť a spoľahlivosť**

### **13.1 Celková presnosť**

The methodology for calculating production in services is based on the methodological rules and recommendations of the European Commission (Eurostat), which ensures the required accuracy of the data.

### **13.2 Výberové chyby**

Selection errors are monitored during processing.

### **13.3 Nevýberové chyby**

To prevent non-selection errors, i.e. errors in the process of collection and processing The Statistical Office of the Slovak Republic has built-in logical and data controls at the level of microdata and at the level of aggregated data in the integrated statistical information system (IŠIS), which are carried out during data collection and processing.

The electronic questionnaire itself provides many arithmetic and logical checks between the variables, which we distinguish between necessary and informative. In the event of serious errors in the form, it is not accepted and, based on consultation with the intelligence unit, it is corrected so that it is correct and entered into processing. With the help of these tools, we try to minimize errors already in the collection itself and subsequently during data processing.

## **14 Včasnosť a dochvilnosť**

### **14.1 Včasnosť**

- The data are published no later than two months after the end of the reference month.
- The data is published in accordance with the Update Schedule of the unified public database DATAcube. and sent to Eurostat in accordance with the requirement of the European legislation on data transfer.

### **14.2 Dochvilnosť**

Publication deadlines are met.

## **15 Porovnateľnosť a koherentnosť**

### **15.1 Geografická porovnateľnosť**

Production indices in services apply to the entire territory of the Slovak Republic.

### **15.2 Porovnateľnosť v čase**

The data are comparable within the entire time series from 2010 to the present.

### **15.3 Prierezová koherentnosť**

To determine cross-sectional coherence, was carried out an analysis of the source data:

1. comparison of sales data for own services and goods from monthly statistical surveys with the results of annual business statistics;
2. comparison of trends in short-term statistics with conjunctural surveys.

The analysis result shows good data consistency.

#### **15.4 Vnútrotná koherentnosť**

The data are internally coherent.

### **16 Náklady a záťaž respondentov**

The Statistical Office of the Slovak Republic regularly monitors the burden of reporting units. As part of the optimisation of statistical surveys, it is taking measures to reduce their burden. Cost and burden at the level of European statistical products and its monitoring is the responsibility of the Directorate Group for Resources within Eurostat.

### **17 Revízia údajov**

#### **17.1 Politika revízií**

Revisions are carried out transparently and in accordance with the internal decision issuing the revision policy of the Statistical Office of the Slovak Republic. The same revision policy is applied to data published at national level as well as for data sent to the European Commission. In accordance with the revision policy, the reasons and character of the revision are also indicated. The revision policy is available on the website of the Office:

[Revision Policy](#)

#### **17.2 Revízia údajov v praxi**

Published data may be revised due to seasonal adjustment of time series or the availability of new, more accurate or corrected source data. In the event of any revision (even for previous years), a note is placed in the database of the Statistical Office of the Slovak Republic alert that the data have been revised.

### **18 Štatistické spracovanie**

#### **18.1 Zdrojové údaje**

Source data on sales for own services and goods are obtained:

1.) from monthly statistical surveys within individual service sectors (in transport; in information and communication; in trade, hospitality and accommodation; in selected market services), in which the sample consists

a) enterprises registered in the commercial register, contributory organizations belonging to the sector of non-financial corporations in the sense of the national accounts methodology and natural persons registered in the trade register or doing business according to a law other than the trade law with the number of employees 20 or more; enterprises registered in the commercial register and natural persons registered in the trade register or doing business under a law other than the trade law with the number of employees from 0 to 19 with annual sales for own services and goods of 5 million euros or more; selected enterprises registered in the commercial register with the number of employees from 0 to 19 with annual sales for own services and goods up to 5 million euros, which

are kept in the register of organizations of the Statistical Office of the Slovak Republic, with the main activity according to SK NACE Rev. 2:

45 to 47 Wholesale and retail trade; repair of motor vehicles and motorcycles,

55 and 56 Accommodation and catering services,

58 Publishing activities,

59 Production of films, video recordings and television programs,

60 Activities for radio and television broadcasting,

61 Telecommunications,

62 Computer programming, consultancy and related services,

63 Information services,

68 Real estate activities,

69 to 74 (except 72) Professional, scientific and technical activities,

77 to 82 Administrative and support services,

85.5 Other education,

85.6 Auxiliary educational activities,

90 to 93 Arts, entertainment and recreation,

95 Repair of computers, personal and household goods,

96 Other personal services;

b) enterprises registered in the commercial register, contributory organizations belonging to the sector of non-financial corporations in the sense of the methodology of national accounts and natural persons registered in the trade register or doing business according to a law other than the trade law with the number of employees 20 or more; enterprises registered in the commercial register and natural persons registered in the trade register or doing business according to a law other than the trade law with the number of employees from 0 to 19 with annual sales for own services and goods of 5 million euros and more, which are kept in the register of organizations of the Statistical Office of the Slovak Republic, with the main activity according to SK NACE Rev. 2:

49 Land transport and pipeline transport,

50 Water transport,

51 Air transport,

52 Storage and auxiliary activities in transport,

53 Postal services and courier services,

c) enterprises registered in the commercial register with the number of employees from 0 to 19 with annual sales for own services and goods up to 5 million euros, which are kept in the register of organizations of the Statistical Office of the Slovak Republic, with the main activity according to SK NACE Rev. 2:

49.10 Passenger rail transport, intercity,

49.20 Freight rail transport,

49.50 Pipeline transport,

50 Water transport,

51 Air transport,

52.22 Secondary activities in water transport,

52.23 Secondary activities in air transport.

d) and selected enterprises registered in the commercial register with the number of employees from 0 to 19 with annual sales for own services and goods up to 5 million euros, which are kept in the register of organizations of the Statistical Office of the Slovak Republic, with the main activity according to SK NACE Rev. 2:

49.31 Urban or suburban passenger land transport,

49.32 Taxi service,

49.39 Other passenger land transport i. n.,

49.41 Freight road transport,

49.42 Removal services,  
52.10 Storage and storage,  
52.21 Secondary activities in land transport,  
52.24 Cargo handling,  
52.29 Other auxiliary activities in transport,  
53 Postal services and courier services.

2.) on the basis of administrative data sources for natural persons registered in the trade register or doing business according to a law other than the trade law (traders) with the number of employees from 0 to 19 with annual sales for own services and goods up to 5 million euros.

Source data on price deflators come from the following statistical surveys:

1.) Research on prices in market services - covers economic activities according to SK NACE Rev.2: 49.20, 49.41 — 49.42, 49.50, 50.30 — 50.40, 52.10, 52.21 — 52.24, 52.29, 53.10 — 53.20, 61.1 — 61.2, 62.01 — 62.03, 62.09, 63.1, 63.9, 68.1 — 68.3, 69.1 — 69.2, 71.1 — 71.2, 73.1 — 73.2, 74.3, 74.9, 77.1 — 77.4, 78.1 — 78.3, 80.1 — 80.3, 81.1 — 81.3, 82.1 — 82.3, 82.9.

2.) Determination of consumer prices - covers economic activities according to NACE Rev. 2: 45.1 — 45.4, 47.1 — 47.9, 55.1 — 55.3, 55.9, 56.1 — 56.3, 49.10 (COICOP 07.31), 49.31 (COICOP 07.32), 49.32 (COICOP 07.32), 49.39 (COICOP 07.32), 51.10 (COICOP 07.33), 51.21 (COICOP 07.33), 51.22 (COICOP 07.33), 55.1 — 55.3, 55.9, 56.1 — 56.3, 58.1 (COICOP 09.5), 58.2 (COICOP 09.5), 59.1 (COICOP 09.42), 59.2 (COICOP 09.42), 60.1 (COICOP 09.42), 60.2 (COICOP 09.42), 61.3 (COICOP 08.3), 61.9 (COICOP 08.3), 74.1 (COICOP 09.42), 74.2 (COICOP 09.42), 79.1 (COICOP 09.6), 79.9 (COICOP 09.6). The indices are calculated as a weighted average of the indices of the selected consumer basket items.

## 18.2 Periodicita zberu údajov

Source data on sales for own services and goods without VAT and price indices are monthly, while monthly price indices for transport and selected market services are approximated on the basis of available quarterly price indices.

## 18.3 Zber údajov

Data collection is ensured by specialized workplaces of the Statistical Office of the Slovak Republic. For sales of own products and goods

- in trade, hospitality and accommodation at the office of the Slovak Statistical Office in Bratislava;
- in transport; in information and communication, the office of the Statistical Office of the Slovak Republic in Žilina;
- in selected market services, the office of the Statistical Office of the Slovak Republic in Prešov.

## 18.4 Validácia údajov

Input, completeness and statistical control of data is organized by regional offices of the Statistical Office of the Slovak Republic according to individual branches.

A distinction is made between two levels of control:

1. formal checks that are performed automatically during data collection.
2. informal controls that check for complexity and relationships between variables.

In terms of severity, there are 2 basic types of errors:

- I – informative error - provides additional information on the basis of which the following repair process can be performed. It informs about unfilled form items, non-response, exceeding set limits, etc.

- Z - serious error - indicates a precisely defined error that must be corrected or clarified by the intelligence unit.

Most of the errors are consulted directly with the respondent unit on the regional offices of the Statistical Office of the Slovak Republic.

### **18.5 Spôsob spracovania údajov**

The production index in services is presented as a share of the production volume of selected service industries in a given time period to the production volume of the same service industries in a specified base period. The year 2015 is used as the base period. To determine the production of selected service industries, data on sales of own services and goods without VAT are used, which are deflated during the calculation using the corresponding price indexes. Price indices are obtained from the results of surveys on prices in market services and consumer prices, while they are calculated as weighted averages of indices of selected items of the consumer basket. Missing monthly price indices are approximated on the basis of quarterly indices. Indices for individual service industries are aggregated using weights calculated on the basis of value added in the costs of production factors from the annual business survey in the base period (year 2015). The production index in services is in the form of a Laspeyres-type index.

### **18.6 Úprava údajov**

Time series adjustments for calendar and seasonal components are made by the program JDEMETRA+ 2.2.2.

## **19 Poznámka**