



METHODOLOGICAL EXPLANATION

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SERVICES PRODUCER PRICE INDICES

This methodological explanation relates to the data releases:

- Services producer price indices, Slovenia, quarterly (First Release)



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Content

1	PURPOSE.....	3
2	LEGAL FRAMEWORK.....	3
3	UNIT DESCRIBED BY THE PUBLISHED DATA.....	3
4	SELECTION OF OBSERVATION UNIT.....	3
5	SOURCES AND METHODS OF DATA COLLECTION.....	4
6	DEFINITIONS.....	4
7	EXPLANATIONS.....	5
8	PUBLISHING.....	7
9	REVISION OF THE DATA.....	7
10	OTHER METHODOLOGICAL MATERIALS.....	8

1 PURPOSE

The purpose of publishing the data on services producer price indices is to present quarterly trends in prices of services in selected activities provided by enterprises as producers of services to their customers.

2 LEGAL FRAMEWORK

- [Annual Programme of Statistical Surveys \(LPSR\) \(only in Slovene\)](#)
- [National Statistics Act \(OJ RS, No. 45/95 and 9/01\)](#)
- [Regulation \(EU\) 2019/2152 of the European Parliament and of the Council of 27 November 2019 on European business statistics, repealing 10 legal acts in the field of business statistics \(CELEX: 32019R2152\)](#)

3 UNIT DESCRIBED BY THE PUBLISHED DATA

The unit described by the published data is a service typical for a specific observed activity that the enterprise performs frequently for its customers or with which it generates a large share of its turnover. The published data cover transactions with all entities (B2All), including the sales of services to businesses (B2B) and private consumers (B2C). The sales of services to businesses also includes sales to the public sector – government (B2G).

Typical services are observed according to NACE Rev. 2 activity of the producer.

4 SELECTION OF OBSERVATION UNIT

Observation units are selected representative services in the following activities according to the Standard Classification of Activities 2008 (Slovene version of NACE Rev. 2): H49 Land transport and transport via pipelines, H50 Water transport, H51 Air transport, H52 Warehousing and support activities for transportation, H53 Postal and courier activities, I55 Accommodation, I56 Food and beverage service activities, J58 Publishing activities, J59 Motion picture, video and television programme production, sound recording and music publishing activities, J60 Programming and broadcasting activities, J61 Telecommunications, J62 Computer programming, consultancy and related activities, J63 Information service activities, L68 Real estate activities, M69 Legal and accounting activities, M702 Management consultancy activities, M71 Architectural and engineering activities; technical testing and analysis, M73 Advertising and market research, M74 Other professional, scientific and technical activities, N77 Rental and leasing activities, N78 Employment activities, N79 Travel agency, tour operator reservation service and related activities, N80 Security and investigation activities, N81 Services to buildings

and landscape activities, N82 Office administrative, office support and other business support activities. Data on observation units are collected from reporting units, i.e. enterprises providing these services.

The list of reporting units is determined on the basis of threshold coverage (i.e. cut-off sampling). Our source is the sampling frame of the Statistical Business Register of Slovenia. The main criteria for the inclusion are activity in which the unit is registered and annual net turnover. Based on the Structural Business Statistics data, units in an individual activity are first classified (in descending order) by turnover and then as many units are selected from the top of the list that their turnover reaches the selected share (around 60%) in total turnover of all units registered in a specific activity. If there are only five units or less in an observed activity, we include all those units in the list of reporting units.

In 2024, the survey includes 1,090 enterprises that report prices for 4,844 services per quarter.

5 SOURCES AND METHODS OF DATA COLLECTION

Data are collected quarterly.

They are obtained with the survey on services producer prices (CENE-STOR/ČL).

Data sources are:

- The Services Producer Prices (CENE-STOR/ČL) web questionnaire, which reporting units access through the eSTAT web application. The questionnaire is individually designed, which means that each unit only has its representative services listed on the questionnaire. Each quarter individual units enter sales prices in the observed quarter into the questionnaire and transmit it to SURS. Units are obliged to deliver the required data by the 8th of the first month after the end of the quarter. About 95% of prices are collected with the questionnaires.
- Price lists published on the Internet. In this way, around 5% of prices are collected.

Data for the survey are not obtained from administrative sources.

6 DEFINITIONS

Services producer price is the price paid by the buyer for services rendered. The price excludes value added tax and similar deductible taxes, rebates and other discounts that the producer approves to the buyer, whereas subsidies received by the producer, if there are any, should be added.

Services producer price index measures the development of transaction prices of services in different quarters. Indices are published with moving basis,

i.e. chain indices (current quarter compared to the last quarter of the previous year, to the previous quarter and to the same quarter of the previous year, the average of quarters of the current year compared to the same quarters of the previous year) and the index with constant basis, i.e. base index (current quarter compared to the 2021 average).

The **Standard Classification of Activities 2008** (Slovene version of NACE Rev. 2) is the obligatory national standard used for defining the main activity and for classifying business entities and their units for the needs of official and other administrative data collections (registers, records, databases, etc.) and for the needs of national and international statistics and analyses.

7 EXPLANATIONS

7.1 CLASSIFICATIONS

The data are published according to the Standard Classification of Activities 2008 (Slovene version of NACE Rev. 2) and cover six sections:

- H – Transportation and storage
- I – Accommodation and food service activities
- J – Information and communication
- L – Real estate activities
- M – Professional, scientific and technical activities (excl. M701, M72, M75) and
- N – Administrative and support service activities.

The Standard Classification of Activities 2008 is available on <https://www.stat.si/StatWeb/en/Methods/Classifications>.

7.2 DATA PROCESSING

DATA EDITING

Data editing during the logical control of input data is performed manually. In doing so, we individually eliminate random and systematic errors in the data. In the case of missing values, editing or data entry is performed automatically with system corrections. When inserting the data, we use the mean imputation method, the logical imputation method or the historical imputation method.

In the mean imputation, the missing prices are replaced by the average change in the price within a specific NACE Rev. 2 class or group or division to which the service for which the price is imputed belongs. In the logical imputation, the missing prices are obtained by calculating the percent change in the prices with the help of the previous and current prices of the replacement service (substitute), and multiplying this percent by the previous quarters price of the service for which the unit did not report the current price. In the historical imputation, the missing prices are replaced by prices reported by the units in the

previous quarter.

For more, see the general methodological explanations [Statistical data editing](#).

WEIGHTING

With weighting adjustment we want to achieve representativeness of the sample, so that the weighted data give us as good population estimates as possible.

The source of data for the preparation of weights is the statistical survey Structural Business Statistics. In calculating the weights, annual net turnover in the observed activities according to NACE Rev. 2 is taken into account, indexed by the corresponding services producer price index. Weights are changed every year. In 2024, the weights are based on 2022 turnover data adjusted for the index Oct–Dec 2023 / Ø 2022.

SEASONAL ADJUSTMENT

Seasonal adjustment is not applicable.

7.3 INDICES

The individual index for each service is calculated by comparing the price of the service in the individual quarter with the price of the service in the fourth quarter of the previous year. From individual indices aggregate indices at the class or group and division level are calculated by using weighted arithmetic mean. Further on aggregate indices are grouped higher until the total index is calculated.

Each aggregate index calculated in this way (last quarter of the previous year = 100) is Laspeyres index of fixed type, which means that it is calculated with weights from the same weight base period and with the same coverage of services.

In 2024, indices were chain linked through a new index base year 2021 (Ø 2021 = 100). All indices are calculated on the basis of 2021 average.

For more, see the general methodological explanations [Index numbers](#).

7.4 PRECISION

The precision is not calculated.

7.5 OTHER EXPLANATIONS

Data that are statistically protected to respect the confidentiality of reporting units are replaced with letter »z«. If there is no occurrence of event or data are not available, missing data are replaced with the sign »-« or the sign »...«.

8 PUBLISHING

- SiStat Database: [Prices and inflation](#) – Prices in manufacturing and services. Indices that reflect the sales of enterprises to all entities (B2All) are published. Indices that reflect sales between enterprises (B2B) are published separately. All indices are published according to the NACE Rev. 2 (section, division, group).
- First Release (Prices and Inflation, Prices in Manufacturing and Services):
»Services producer price indices, Slovenia, quarterly«
- EUROSTAT (Statistical Office of the European Union)

9 REVISION OF THE DATA

9.1 PUBLISHING OF PRELIMINARY AND FINAL DATA

Provisional data are not disseminated. Only final data are published.

9.2 FACTORS INFLUENCING COMPARABILITY OVER TIME

The time series of indices that reflect the sales of enterprises with all entities (B2All) is available since:

- 2010 for activities H50, H51, H53, J61, J62, J63, M69, M702, M71, M73, N78 and N80
- 2017 for section H and activities H49, H52 and H81
- 2018 for sections I, L and activities I55, I56, L68, N77 and N79
- 2020 for sections J, M (except M701, M72, M75), N and activities J58, J59, J60, N74 and N82.

The time series of indices that reflect sales between enterprises (B2B) is available since:

- 2006 for activities H494, H501_H502, H51, H521, H5224, H531, H532, J61, J62, J63, M69_M702, M71, M73, N78, N80, N812 and their aggregate
- 2017 for additional groups in activities H49, H52 and N81
- 2018 for activities I55, I56, L68, N77 and N79
- 2020 for activities J58, J59, J60, M74 and N82.

There are no breaks in the time series.

10 OTHER METHODOLOGICAL MATERIALS

Methodological materials on SURS's website are available at <https://www.stat.si/statweb/en/Methods/QuestionnairesMethodologicalExplanationsQualityReports>.

- Questionnaire:
 - Services producer prices (CENE-STOR/ČL), (only in Slovene)

Theme: Prices and Inflation, Sub-theme: Prices in Manufacturing and Services

- Quality report for the survey:
 - Services producer prices (CENE-STOR/ČL)

Theme: Prices and Inflation, Sub-theme: Prices in Manufacturing and Services

- National Reference Metadata in Euro SDMX Metadata Structure (ESMS):
Service producer prices (SPPI),
https://ec.europa.eu/eurostat/cache/metadata/EN/sts_os_pp_esms_si.htm