

## First Release

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# SERVICES PRODUCER PRICES, FIRST QUARTER 2023

The total services producer prices index increased both at the annual<sup>1)</sup> and at the quarterly level<sup>2)</sup> in the first quarter of 2023.

**The services producer prices in the first quarter of 2023 increased by 15.1% as compared to the same quarter of the previous year**

The highest increase in prices was recorded in the following activities: Water transport (by 56.2%), Travel agency, tour operator reservation services and related activities (by 30.2%) and Warehousing and support activities for transportation (by 25.3%).

The decrease in prices was recorded only in the following activities: Advertising and market research (by 7.1%) and Information service activities (by 1.9%).

**The services producer prices increased by 3.6% in the first quarter of 2023 as compared to the previous quarter**

The highest increase in prices was recorded in the following activities: Travel agency, tour operator reservation services and related activities (by 22.7%), Information service activities (by 21.7%) and Cleaning activities (by 8.4%).

The highest decrease in prices was recorded in the following activities: Water transport (by 3.3%), Architectural and engineering activities; technical testing and analysis (by 2.0%) and Advertising and market research (by 1.1%).

1) Data compared to those of the same quarter of the previous year.

2) Data compared to those of the previous quarter.

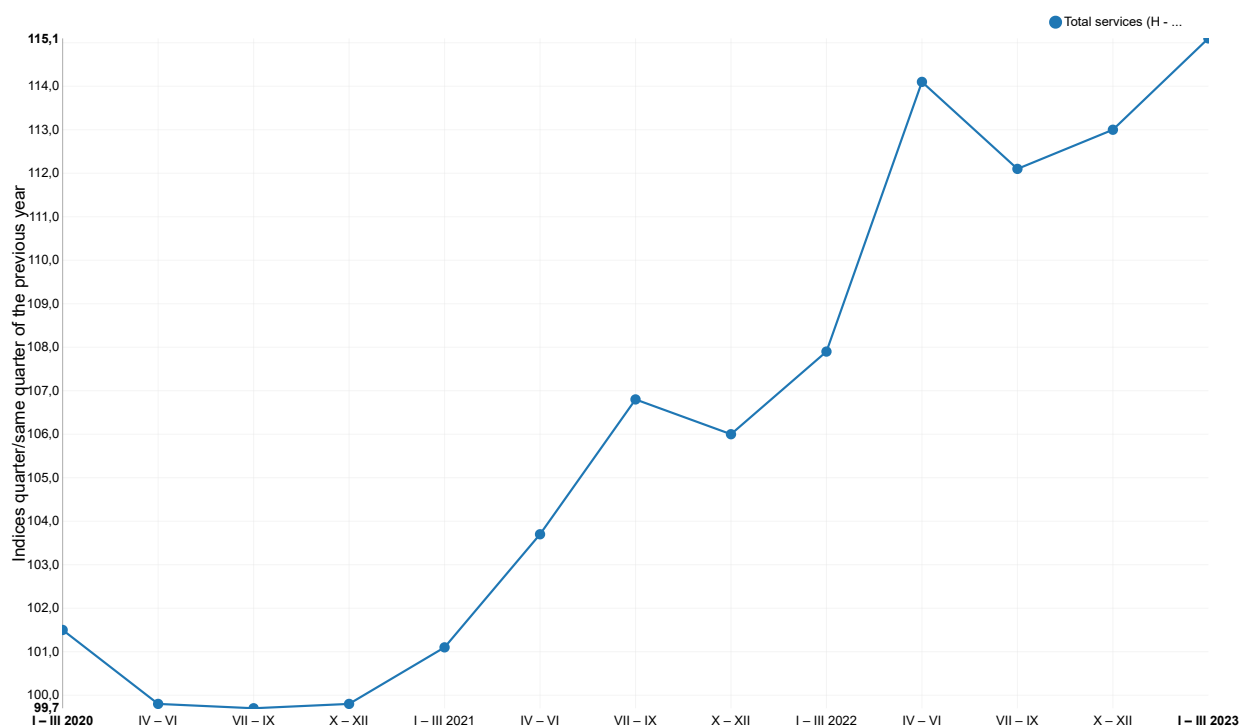
# 1 SERVICES PRODUCER PRICE INDICES BY ACTIVITIES, GROSS, UNADJUSTED INDICES<sup>1)</sup>

| NKD 2007 activity code      |  | I – III 2023<br>I – III 2022 | I – III 2023<br>X – XII 2022 | I – III 2023<br>Ø 2015 |
|-----------------------------|--|------------------------------|------------------------------|------------------------|
| <b>(H – N)<sup>2)</sup></b> | <b>Total services</b>  | <b>115,1</b>                 | <b>103,6</b>                 | <b>131,2</b>           |
| <b>H</b>                    | <b>Transportation and storage</b>  | <b>125,0</b>                 | <b>103,1</b>                 | <b>141,9</b>           |
| H 49                        | Land transport and transport via pipelines   | 122,7                        | 103,1                        | 130,8                  |
| H 50                        | Water transport  | 156,2                        | 96,7                         | 262,6                  |
| H 51                        | Air transport  | z                            | z                            | z                      |
| H 52                        | Warehousing and support activities for transportation  | 125,3                        | 107,3                        | 141,0                  |
| H 53                        | Postal and courier activities  | z                            | z                            | z                      |
| <b>I</b>                    | <b>Accommodation and food service activities</b>   | <b>119,1</b>                 | <b>101,6</b>                 | <b>132,4</b>           |
| I 55                        | Accommodation  | 119,5                        | 99,5                         | 119,1                  |
| I 56                        | Food and beverage service activities   | 118,8                        | 103,3                        | 145,8                  |
| <b>J</b>                    | <b>Information and communication</b>   | <b>106,3</b>                 | <b>102,3</b>                 | <b>108,3</b>           |
| J 58                        | Publishing activities  | 107,5                        | 100,7                        | 135,5                  |
| J 59                        | Motion picture, video and television programme production, sound recording and music publishing activities | 101,3                        | 100,9                        | 116,1                  |
| J 60                        | Programming and broadcasting activities  | 107,6                        | 105,1                        | 106,8                  |
| J 61                        | Telecommunications   | 104,2                        | 100,2                        | 91,2                   |
| J 62                        | Computer programming, consultancy and related activities   | 110,3                        | 103,3                        | 128,5                  |
| J 63                        | Information service activities   | 98,1                         | 121,7                        | 125,7                  |
| <b>L</b>                    | <b>Real estate activities</b>  | <b>115,0</b>                 | <b>107,2</b>                 | <b>149,0</b>           |
| L 68                        | Real estate activities   | 115,0                        | 107,2                        | 149,0                  |
| <b>M<sup>2)</sup></b>       | <b>Professional, scientific and technical activities</b>   | <b>102,8</b>                 | <b>100,8</b>                 | <b>117,0</b>           |
| M 69                        | Legal and accounting activities  | 109,3                        | 105,6                        | 118,7                  |
| M 702                       | Management consultancy activities  | 112,1                        | 103,7                        | 134,2                  |
| M 71                        | Architectural and engineering activities; technical testing and analysis                                   | 102,1                        | 98,0                         | 109,4                  |
| M 73                        | Advertising and market research  | 92,9                         | 98,9                         | 118,8                  |
| <b>N</b>                    | <b>Administrative and support service activities</b>   | <b>117,0</b>                 | <b>112,9</b>                 | <b>163,7</b>           |
| N 77                        | Rental and leasing activities  | 100,3                        | 100,1                        | 132,1                  |
| N 78                        | Employment activities  | 112,4                        | 107,9                        | 126,0                  |
| N 79                        | Travel agency, tour operator reservation services and related activities                                   | 130,2                        | 122,7                        | 210,3                  |
| N 80                        | Security and investigation activities  | 107,7                        | 106,4                        | 142,8                  |
| N 812                       | Cleaning activities  | 109,7                        | 108,4                        | 136,3                  |
| N 82                        | Office administrative, office support and other business support activities                                | 106,6                        | 102,4                        | 114,2                  |

1) See Notes on Methodology, Gross, unadjusted indices.

2) Service activities prescribed by the Regulation concerning short-term statistics are included and also other observed service activities due to alignment with the Council Regulation (EU) No. 1165/98 of 19 May 1998 on short-term statistics (Annex D) and its amendments, Regulation (EU) 2019/2152 of the European Parliament and of the Council of 27 November 2019 on European business statistics, repealing ten legal acts in the field of business statistics, and the Commission Implementing Regulation (EU) 2020/1197.

## G-1 ANNUAL RATE OF CHANGE OF TOTAL SERVICES PRODUCER PRICES INDEX (H-N), 2020 – 2023



## NOTES ON METHODOLOGY

### Notice

The First Release USL-2023-3-1 Services Producer Prices has been published in quarterly dynamics since June 2023.

The original series of the services producer prices indices are published continuously on the website of the [Croatian Bureau of Statistics](#) in the STS Database (Short-Term Business Statistics Database) in the area Services under the headings Services Producer Price Indices – quarterly data available at the link <https://sts baza.dzs.hr/en/Report?dt=10>.

Precise dissemination dates are listed in the Calendar of Statistical Data Issues for 2023, which is available on the website of the [Croatian Bureau of Statistics](#).

A part of the data, particularly those relating to quarterly original indices on the 2015, base are regularly submitted on the quarterly basis to Eurostat and are available on [Eurostat's website](#), together with the indicators of all EU Member States they are comparable to.

### Sources and methods of data collection

Data in this Release are the result of a whole range of statistical surveys of the Croatian Bureau of Statistics which are used for collecting prices of representative services in observed service activities. A joint and acronym mark for these surveys is SPPI surveys (from the English name for these indices: services producer price indices). In addition to data on prices, data on turnover by representative groups of services that are used as weights in calculating price indices are collected, along with some relevant information specific to individual service activities.

A major part of information on prices is collected directly from reporting units through statistical forms via an internet application available on the webpage of the Croatian Bureau of Statistics. There are only a few surveys carried out via excel forms and a minor part is collected through observing publicly issued prices on the internet. For I56 Food and beverage service activities index, estimation of consumer price index is used. Collected data serve as a basis for the calculation of individual price indices, subsequently put together into a (joint) services producer price index (SPPI).

The reference observation period is a quarter. Enterprises enter data on prices in an electronic form and send the filled-in form to the statistical office 30 to 40 days after the observed period.

The methodology for SPPI surveys is harmonised with the concepts and definitions provided in the Council Regulation (EC) No. 1165/98 of 19 May 1998 concerning short-term statistics (Annex D) and its amendments, 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, and the Commission Implementing Regulation (EU) 2020/1197 as well as with guidelines provided in the Methodological Guide for Developing Producer Price Indices for Services (OECD, Eurostat, 2014, Second Edition).

### Statistical unit and statistical population

Statistical units are resident business entities that render services within the observed activity, either main or secondary one. Statistical population consists of all active units classified in the Statistical Business Register in the observed activity, being either a main or a secondary activity of the business entity. Main and secondary activity of a business entity is determined according to the NKD 2007 classification.

### Coverage of activities

Pursuant to the Regulation (EC) No. 1158/2005 of the European Parliament and of the Council of 6 July 2005 amending Council Regulation (EC) No. 1165/98 concerning short-term statistics, Part D (OJ L 191, 22 July 2005), there is an obligation to calculate price indices for the following service activities classified in the NKD 2007:

|             |  |
|-------------|--|
| H           | Transportation and storage   |
| 49.4        | Freight transport by road and removal services                                     |
| 50.1 + 50.2 | Sea and coastal passenger water transport, Sea and coastal freight water transport |
| 51          | Air transport  |
| 52.1        | Warehousing and storage  |
| 52.24       | Cargo handling   |
| 53.1        | Postal activities under universal service obligation                               |
| 53.2        | Other postal and courier activities  |
| J           | Information and communication  |
| 61          | Telecommunications   |
| 62          | Computer programming, consultancy and related activities                           |
| 63.1        | Data processing, hosting and related activities; web portals                       |
| 63.9        | Other information service activities   |
| M           | Professional, scientific and technical activities                                  |
| 69+70.2     | Legal and accounting activities, Management consultancy activities                 |
| 71          | Architectural and engineering activities; technical testing and analysis           |
| 73          | Advertising and market research  |
| N           | Administrative and support service activities                                      |
| 78          | Employment activities  |
| 80          | Security and investigation activities  |
| 81.2        | Cleaning activities  |

In Section 51 Air transport, only passenger air transport is covered by the survey. In Section 71 Architectural and engineering activities; technical testing and analysis, only architectural and engineering activities are covered by the survey and they represent the largest part of this Section.

In addition, the surveys cover the following service activities:

|      |  |
|------|--|
| I 55 | Accommodation  |
| I 56 | Food and beverage service activities   |
| J 58 | Publishing activities  |
| J 59 | Motion picture, video and television programme production, sound recording and music publishing activities |
| J 60 | Programming and broadcasting activities  |
| L68  | Real estate activities   |
| N 77 | Rental and leasing activities  |
| N 79 | Travel agency, tour operator reservation service and related activities                                    |
| N 82 | Office administrative, office support and other business support activities                                |

These service activities are observed due to harmonisation with the 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, and the Commission Implementing Regulation (EU) 2020/1197.

### Gross, unadjusted indices

All indices are presented in a gross, unadjusted form, that is, they are not affected by a seasonal and working-day variation. Data are subject to revision. Revised data are published in the first subsequent release.

### Definitions

**Weight** is a share of turnover of a certain elementary aggregate in total turnover, estimated on the basis of available data.

**Service specification** is a detailed description of a representative service, which enables the monitoring of a price of always the same service.

**Representative service** is a service that has a significant share in the turnover of the group it represents and which reflects a type of work usually done by a reporting unit in a particular group of services.

**Total activity index** is a weighted price index average of individual groups of services.

**Services producer prices** are prices created on the market by service producers for their services sold. These prices are monitored from the point of view of service producers as opposed to consumer prices that are monitored from the point of view of end users. Prices of resident service producers are monitored.

### Abbreviations

|          |   |
|----------|---|
| EC       | European Community  |
| EU       | European Union  |
| Eurostat | Statistical Office of the European Union                    |
| NKD 2007 | National Classification of Activities, 2007 version         |
| NN       | Narodne novine, official gazette of the Republic of Croatia |
| OECD     | Organisation for Economic Co-operation and Development      |
| SPPI     | Services producer price index                               |
| z        | data are not published for confidentiality reasons          |



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Persons responsible:  
Milenka Primorac Čačić, Director of Business Statistics Directorate  
Lidija Brković, Director General

Prepared by:  
Josipa Kalčić Ivanić and Maja Dozet

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Customer Relations and Data Protection Department

Information and user requests  
Phone: (+385 1) 48 06 138, 48 06 154  
E-mail: [stat.info@dzs.hr](mailto:stat.info@dzs.hr)

Subscription  
Phone: (+385 1) 48 06 115  
E-mail: [prodaja@dzs.hr](mailto:prodaja@dzs.hr)