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# SERVICE ACTIVITIES, OCTOBER 2023

In October 2023, the turnover from service activities increased both at the annual level<sup>1)</sup> and at the monthly level<sup>2)</sup>.

**The total seasonally and working-day adjusted turnover from service activities realised in October 2023 increased by 1.4%, as compared to September 2023**

The highest increase in the turnover was recorded in the following activities: Accommodation (by 7.1%), Information service activities (by 5.3%) and Other professional, scientific and technical activities (by 2.6%).

The highest decrease in the turnover was recorded in the following activities: Motion picture, video and television programme production, sound recording and music publishing activities (by 31.5%), Rental and leasing activities (by 4.7%) and Computer programming, consultancy and related activities (by 3.7%).

**The total working-day adjusted turnover from service activities realised in October 2023 increased by 25.6%, as compared to October 2022**

The highest increase in the turnover was recorded in the following activities: Programming and broadcasting activities (by 29.9%), Travel agency, tour operator reservation services and related activities (by 23.7%) and Rental and leasing activities (by 23.0%).

The highest decrease in the turnover was recorded in the following activities: Water transport (36.1%), Motion picture, video and television programme production, sound recording and music publishing activities (by 29.3%) and Advertising and market research (by 1.0%).

Observing the first ten months, the working-day adjusted turnover from service activities increased by 27.4% compared to the same period of the previous year.

1) Data compared to those of the same month of the previous year (the so-called working-day adjusted data).

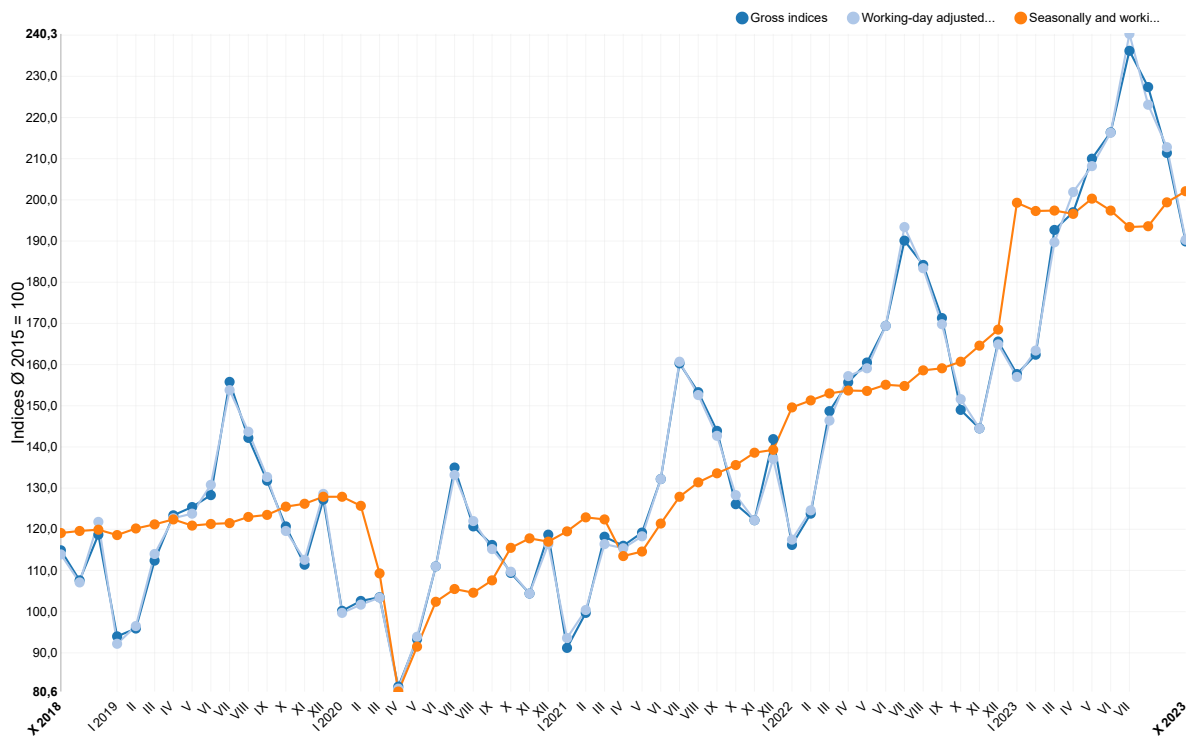
2) Data compared to those of the previous month (the so-called seasonally and working-day adjusted data).

## 1 TURNOVER INDICES, BY MAIN ACTIVITIES OF BUSINESS ENTITIES

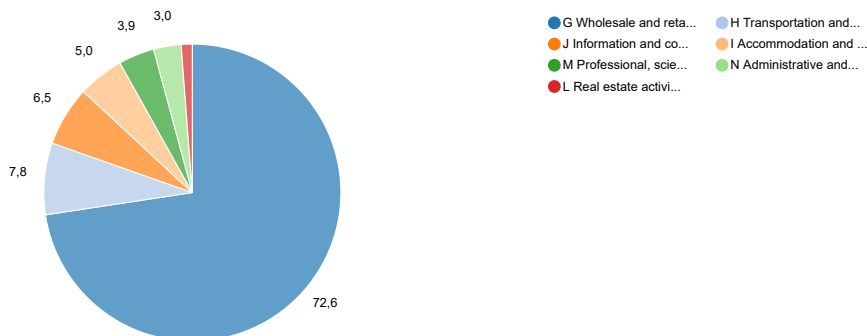
NKD 2007 activity code		X 2023 IX 2023	X 2023 X 2022	I – X 2023 I – X 2022	X 2023 Ø 2015		
		Seasonally and working-day adjusted indices <sup>1)</sup>	Working-day adjusted indices <sup>1)</sup>		Gross, unadjusted indices <sup>1)</sup>	Seasonally and working-day adjusted indices <sup>1)</sup>	Working-day adjusted indices <sup>1)</sup>
<b>(G – N)</b>	<b>Total services</b>	<b>101,4</b>	<b>125,6</b>	<b>127,4</b>	<b>189,9</b>	<b>202,1</b>	<b>190,3</b>
<b>G</b>	<b>Wholesale and retail trade; repair of motor vehicles and motorcycles</b>	<b>101,1</b>	<b>109,0</b>	<b>109,0</b>	<b>174,1</b>	<b>179,6</b>	<b>174,5</b>
G 45	Wholesale and retail trade and repair of motor vehicles and motorcycles	100,1	120,1	127,7	180,9	209,5	181,5
G 46	Wholesale trade, except of motor vehicles and motorcycles	101,7	107,2	106,5	184,4	186,6	185,1
G 47	Retail trade, except of motor vehicles and motorcycles	102,3	108,9	106,9	158,1	159,6	159,1
<b>H</b>	<b>Transportation and storage</b>	<b>101,8</b>	<b>101,7</b>	<b>105,5</b>	<b>171,0</b>	<b>169,3</b>	<b>173,1</b>
H 49	Land transport and transport via pipelines	100,0	103,8	106,8	141,4	141,8	142,1
H 50	Water transport	98,4	63,9	100,9	171,4	142,3	171,4
H 51	Air transport	z	z	z	z	z	z
H 52	Warehousing and support activities for transportation	99,6	99,7	100,2	174,0	164,5	174,3
H 53	Postal and courier activities	z	z	z	z	z	z
<b>I</b>	<b>Accommodation and food service activities</b>	<b>102,9</b>	<b>120,2</b>	<b>117,9</b>	<b>145,5</b>	<b>197,7</b>	<b>145,5</b>
I 55	Accommodation	107,1	120,3	114,6	98,8	183,1	98,8
I 56	Food and beverage service activities	102,4	120,1	119,8	152,8	175,0	152,8
<b>J</b>	<b>Information and communication</b>	<b>99,9</b>	<b>114,6</b>	<b>117,0</b>	<b>241,4</b>	<b>261,9</b>	<b>241,7</b>
J 58	Publishing activities	99,5	110,0	110,1	95,2	112,6	95,2
J 59	Motion picture, video and television programme production, sound recording and music publishing activities	68,5	70,7	119,5	74,2	113,9	74,2
J 60	Programming and broadcasting activities	99,0	129,9	110,7	150,1	130,6	150,1
J 61	Telecommunications	99,8	109,5	110,6	137,5	130,1	137,6
J 62	Computer programming, consultancy and related activities	96,3	106,9	109,1	175,9	203,3	176,6
J 63	Information service activities	105,3	111,0	101,6	186,0	226,1	186,0
<b>L</b>	<b>Real estate activities</b>	<b>96,6</b>	<b>103,9</b>	<b>108,2</b>	<b>121,7</b>	<b>132,5</b>	<b>122,0</b>
L 68	Real estate activities	96,6	103,9	108,2	121,7	132,5	122,0
<b>M</b>	<b>Professional, scientific and technical activities</b>	<b>100,1</b>	<b>108,5</b>	<b>112,6</b>	<b>152,8</b>	<b>152,8</b>	<b>155,6</b>
M 69	Legal and accounting activities	102,3	113,2	110,4	112,2	138,4	115,8
M 702	Management consultancy activities	97,8	119,6	115,2	275,1	167,5	275,1
M 71	Architectural and engineering activities; technical testing and analysis	99,9	106,6	109,5	114,7	145,7	114,7
M 73	Advertising and market research	99,5	99,0	116,9	185,8	156,8	185,8
M 74	Other professional, scientific and technical activities	102,6	122,9	115,1	202,9	178,2	203,9
<b>N</b>	<b>Administrative and support service activities</b>	<b>101,1</b>	<b>116,3</b>	<b>119,4</b>	<b>182,0</b>	<b>212,0</b>	<b>182,6</b>
N 77	Rental and leasing activities	95,3	123,0	120,8	278,9	288,4	280,0
N 78	Employment activities	100,3	109,3	110,5	128,0	139,0	128,0
N 79	Travel agency, tour operator reservation services and related activities	100,6	123,7	130,7	120,5	132,5	120,8
N 80	Security and investigation activities	99,9	111,7	114,2	98,1	115,7	98,3
N 81	Services to buildings and landscape activities	97,9	109,1	111,5	194,3	156,2	194,3
N 82	Office administrative, office support and other business support activities	98,3	112,3	113,6	235,9	217,7	236,6

1) See Notes on Methodology, Presentation of indices.

## G-1 TURNOVER INDICES OF SERVICE ACTIVITIES, BY MONTHS, 2018 – 2023



## G-2 STRUCTURE OF GENERATED TURNOVER, BY ACTIVITIES, ACCORDING TO NKD 2007, OCTOBER 2023



## NOTES ON METHODOLOGY

The time series of the turnover indices of service activities are published on the dissemination site of the [Croatian Bureau of Statistics](#) in the [STS Database](#) (Short-Term Business Statistics Database) in the area Services under the headings Turnover Indices of Service Activities – monthly data and within [Statistics in Line](#) under the title Economy – Basic Indicators.

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

The monthly indices on the 2015 base, working-day adjusted, seasonally and working-day adjusted and unadjusted, are regularly submitted on the monthly basis to the Eurostat and are available on the [Eurostat's website](#), together with the indicators of all EU Member States they are comparable to.

### Sources and methods of data collection

The data are based on the Monthly Report on Service Activities (USL-M form) and administrative data sources (databases of value added tax reports of the Tax Administration), except data on retail trade activities (division G 47), which were calculated on the basis of the Monthly Report on Retail Trade (TRG-1 form).

The data are collected via a web-based application (the so-called CAWI). The reporting units enter data directly into the USL-M form, which is available on the dissemination site of the [Croatian Bureau of Statistics](#). The period for data collection ranges each month, as a rule, between the 1st and the 25th day in a month for the previous reference month data.

The methodology for this survey is based on the Council Regulation (EC) No. 1165/98 (Annex D) concerning short-term statistics 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. This survey is conducted on the basis of the Official Statistics Act (NN, No. 25/20).

The survey is mainly aimed at measuring turnover changes in service activities.

### **Coverage and comparability**

The survey is carried out by using the sampling method.

The sample is selected once a year. It is based on size and on the annual turnover of business entities for the previous year.

All medium-sized and large enterprises (sizes 5, 6 and 7) are taken over from the Statistical Business Register. Units marked in the Register as small ones are also included if they exceed the determined threshold according to the turnover.

A subset of units that will be included into the regular survey (USL-M form) is selected from all units selected in the sample. A selection criterion has been determined according to a particular turnover threshold, which has to be covered by these units.

The total sample consists of about 14 000 units, of which about 1 000 are included in the regular Monthly Report on Service Activities (USL-M form).

The main activity is defined for each business entity according to the NKD 2007 (NN, Nos 58/07 and 123/08).

The criterion for determining the size of a business entity is the number of persons in employment. Business entities of size 1 are those employing 0 – 4 persons, of size 2 those employing 5 – 9 persons, of size 3 those employing 10 – 19 persons, of size 4 those employing 20 – 49 persons, of size 5 those employing 50 – 99 persons, of size 6 those employing 100 – 249 persons and of size 7 those employing 250 and more persons.

Observation units in the Monthly Report on Service Activities (USL-M form) are business entities that are registered by their main activity in the following sections of the NKD 2007:

- G Wholesale and retail trade; repair of motor vehicles and motorcycles (except division 47)
- H Transportation and storage,
- I Accommodation and food service activities,
- J Information and communication,
- L Real estate activities,
- M Professional, scientific and technical activities (except group 70.1 and divisions 72 and 75) and
- N Administrative and support service activities.

Since January 2022, the turnover indices for service activities M 69 Legal and accounting activities and M 702 Management consultancy activities have been published separately, which were published in aggregate form as M 69+702 until December 2021. Furthermore, since January 2022, in accordance with Regulation (EU) 2019/2152 of the European Parliament and of the Council of 27 November 2019 on European business statistics, the total turnover of services (G – N) has covered the following activities: L 68 Real estate activities, N 77 Rental and leasing activities and N 81 Services to buildings and landscape activities.

### **Index presentation**

The presentation and interpretation of indices have been entirely harmonised with Eurostat's requirements for the presentation of short-term business indicators and with the Council Regulation (EC) No. 1165/98 of 19 May 1998 concerning short-term statistics as well as its amendments.

### **Seasonal and working-day adjustment method**

Since 2016, in the process of seasonal adjustment the software package JDemetra+ and X13 ARIMA method has been used. This process identifies and assesses seasonal and working-day effects in time series by using statistical models and procedures.

The revision of previously published seasonally and working-day adjusted indices is due to several causes. The most common cause is a change in estimated parameters of existing statistical models while conducting new estimates, which occurs due to new observations. Other causes are changes in source data or in applied statistical models.

Calendar effects have significant impact on time series movement, the most common of which are the effect of moving holidays, the effect of the leap year and the effect of working days.

### **Seasonally and working-day adjusted indices**

The seasonally and working-day adjusted indices imply that the gross indices are adjusted for seasonal and working-day effects. Indices adjusted in that way and associated rates of change in two consecutive observations are used to compare data with data from the previous month.

### **Working-day adjusted indices**

Working-day adjusted indices imply that the gross indices are adjusted only for calendar effects. Indices adjusted in that way and associated inter-annual rates of change are used to compare data with data from the same month of the previous year.

### **Gross, unadjusted indices**

This term is used to indicate that indices are not adjusted for seasonal and working-day effects. Gross, unadjusted indices are published, but they are not commented in particular.

Indices are presented as gross, non-deflated indices, that is, the price change effect is not excluded from them.

### **Definitions**

Turnover (business revenue) is the value of all goods sold and services provided on the market during the reference period, irrespective of whether they are paid for or not. Value added tax is excluded.

Business entities on the Monthly Report on Service Activities report their total turnover (business revenue) generated from their main as well as from their secondary activities.

The turnover indices calculated from the value added tax databases have been obtained from the data on total deliveries (both taxable and non-taxable ones). Deliveries recorded in the value added tax databases may differ from the definition of turnover applied in statistical surveys, which affects the comparability of data.

### **Abbreviations**

CAWI	computer-assisted web interview
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
z	data are not published for confidentiality reasons



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