

# Short Term Statistics

## Services – Fourth Quarter 2022

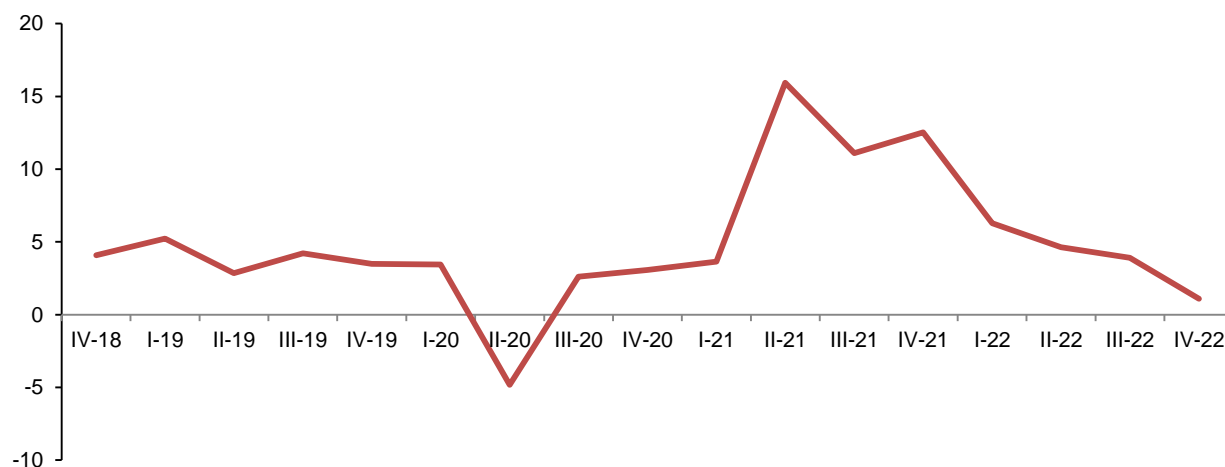
**Tirana, March 16, 2023:** Services quarterly indicators, which include the economic activities: Wholesale and Retail trade; Repair of motor vehicles and motorcycles; Transport and Storage; Hotels; Bar-Restaurants; Information and Communication; Architectural and Engineering activities; Travel agency, in the fourth quarter 2022, are presented as below:

### Wholesale and Retail trade; Repair of motor vehicles and motorcycles

Trade quarterly indicators, which include: Wholesale and Retail trade; Repair of motor vehicles and motorcycles, in the fourth quarter 2022, are presented as below:

- Turnover volume index increased by 1,1 % compared with the fourth quarter 2021;
- The number of employees' index increased by 3,5 % compared with the fourth quarter 2021;
- Wages index increased by 14,3 % compared with the fourth quarter 2021.

**Fig. 1 Annual changes Turnover volume index, Trade (%)**



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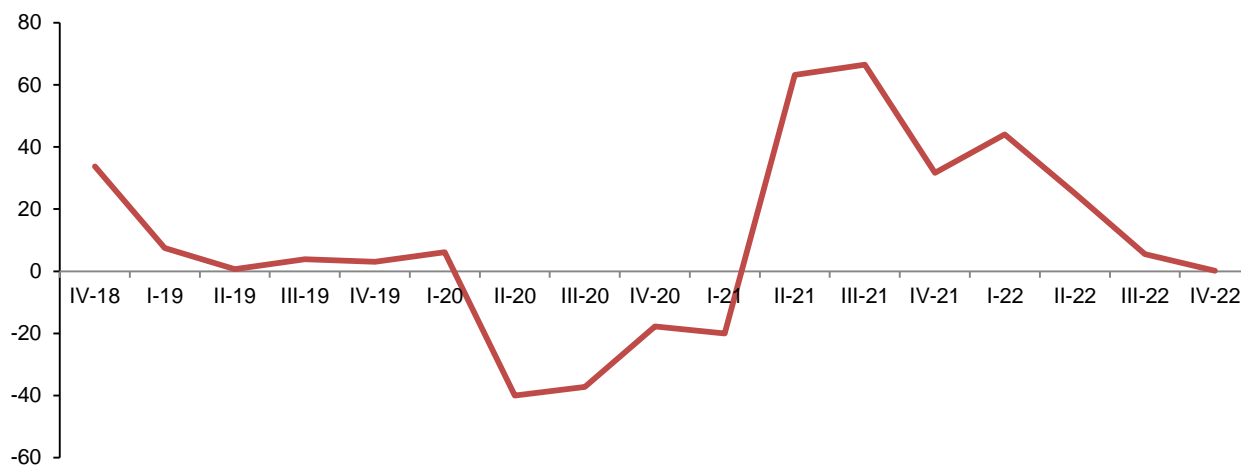
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### Transport and storage

Transport and Storage quarterly indicators, which include: Rail transport of goods, Sea transport, Air transport, Storage and Post activity, in the fourth quarter 2022, are presented as bellows:

- Turnover volume index increased by 0,2 % compared with the fourth quarter 2021;
- The number of employees' index increased by 3,6 % compared with the fourth quarter 2021;
- Wages index increased by 32,5 % compared with the fourth quarter 2021.

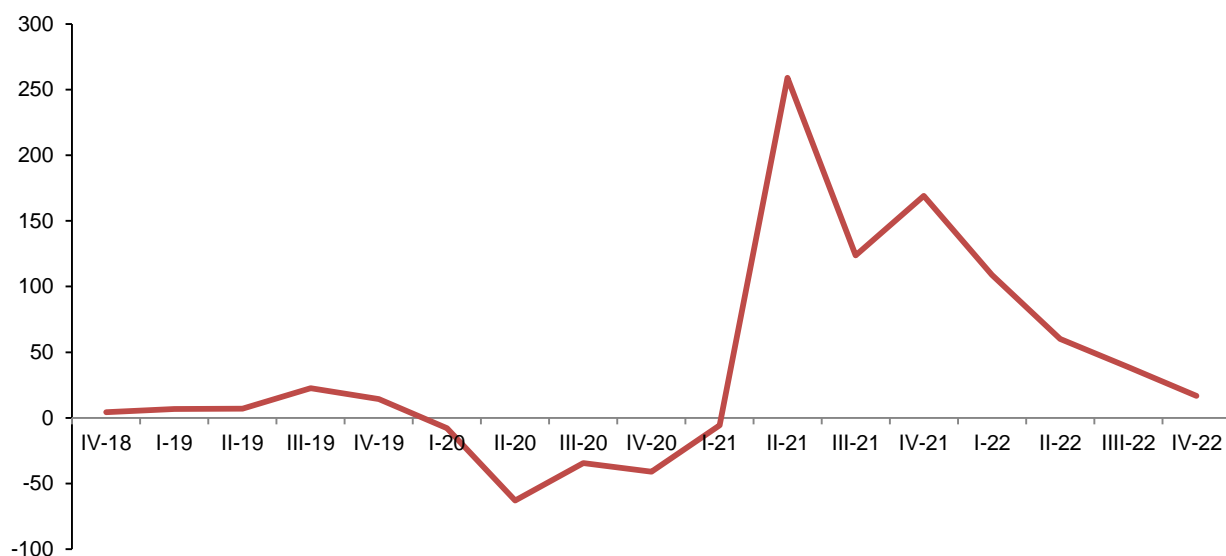
**Fig.2 Annual changes in Turnover volume index, Transportation and Storage activities (%)**



### Hotels

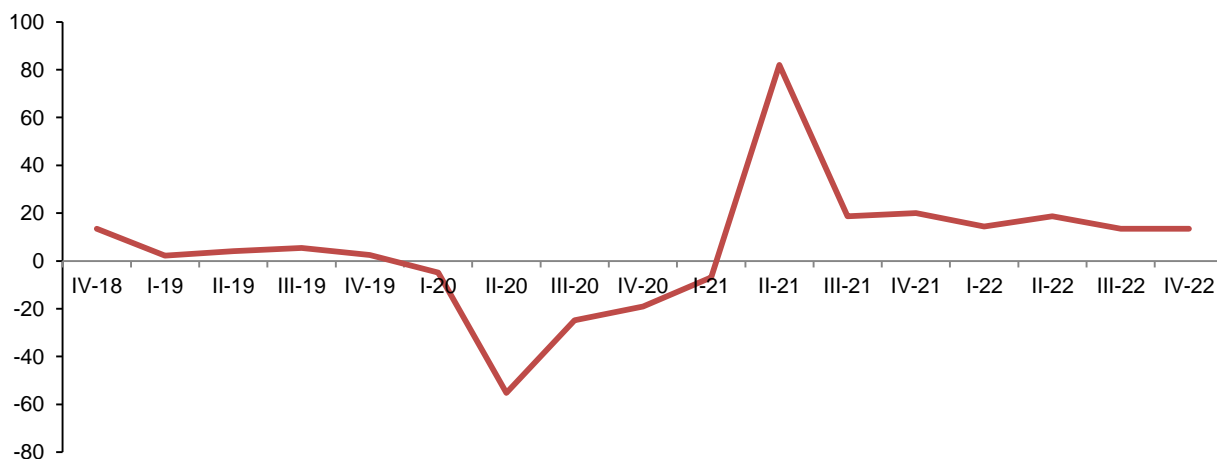
Hotels quarterly indicators, in the fourth quarter 2022, are presented as below:

- Turnover volume index increased by 16,7 % compared with the fourth quarter 2021;
- The number of employees' index increased by 15,1 % compared with the fourth quarter 2021;
- Wages index increased by 39,0 % compared with the fourth quarter 2021.

**Fig. 3 Annual changes in Turnover volume index, Hotels (%)****Bar-Restaurants**

Hotels quarterly indicators, in the fourth quarter 2022, are presented as below:

- Turnover volume index increased by 13,4 % compared with the fourth quarter 2021;
- The number of employees' index increased by 1,0 % compared with the fourth quarter 2021;
- Wages index increased by 23,1 % compared with the fourth quarter 2021.

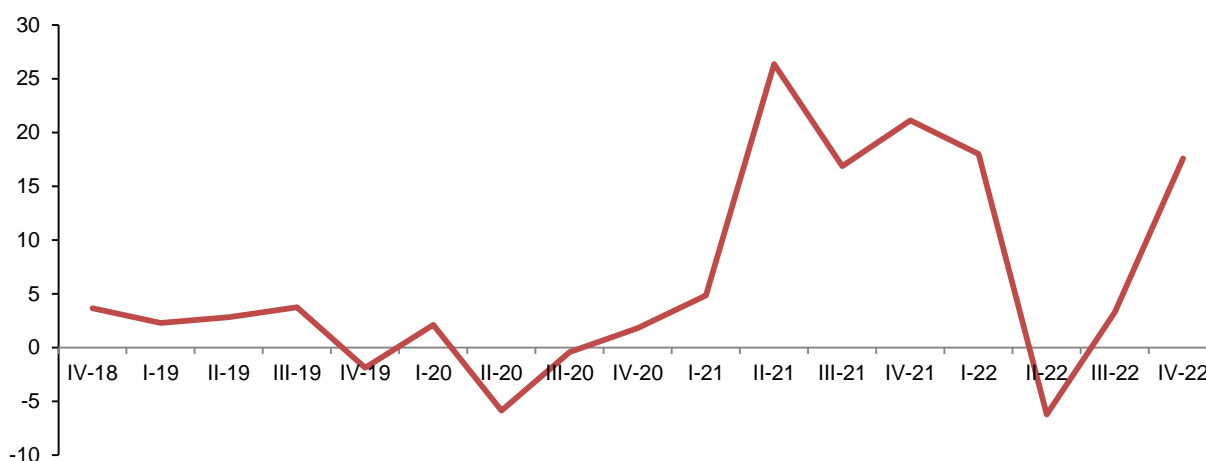
**Fig. 4 Annual changes in Turnover volume index, Bar-Restaurants (%)**

### Information and Communication

Information and Communication quarterly indicators, which include: Publishing activities, Telecommunications and Computer programming, Consultancy and related activities, in the fourth quarter 2022, are presented as below:

- Turnover volume index increased by 17,6 % compared with the fourth quarter 2021;
- The number of employees' index increased by 21,8 % compared with the fourth quarter 2021;
- The wages index increased by 46,2 % compared with the fourth quarter 2021.

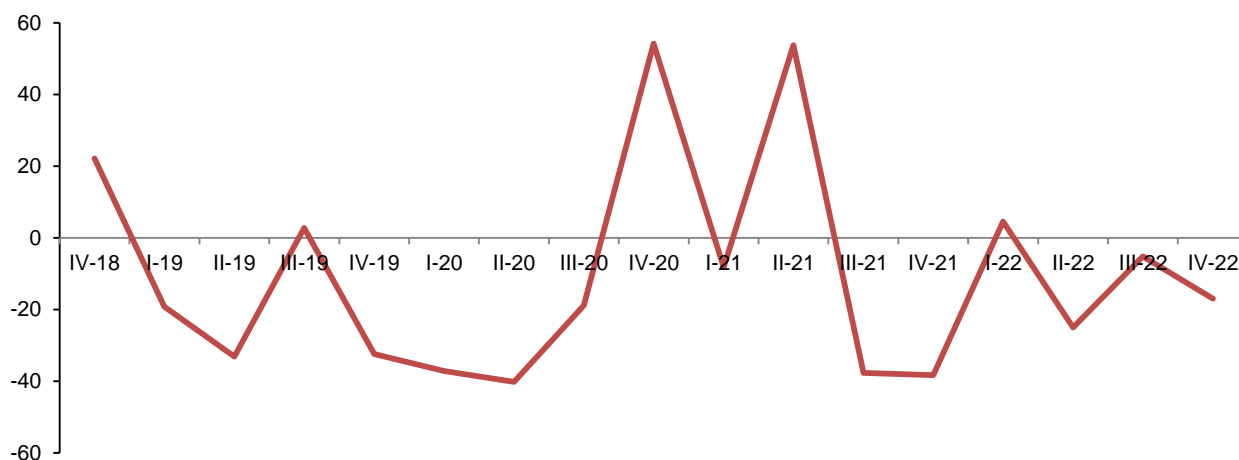
**Fig. 5 Annual changes in Turnover volume index, Information and Communication activities (%)**



### Architectural and Engineering activities

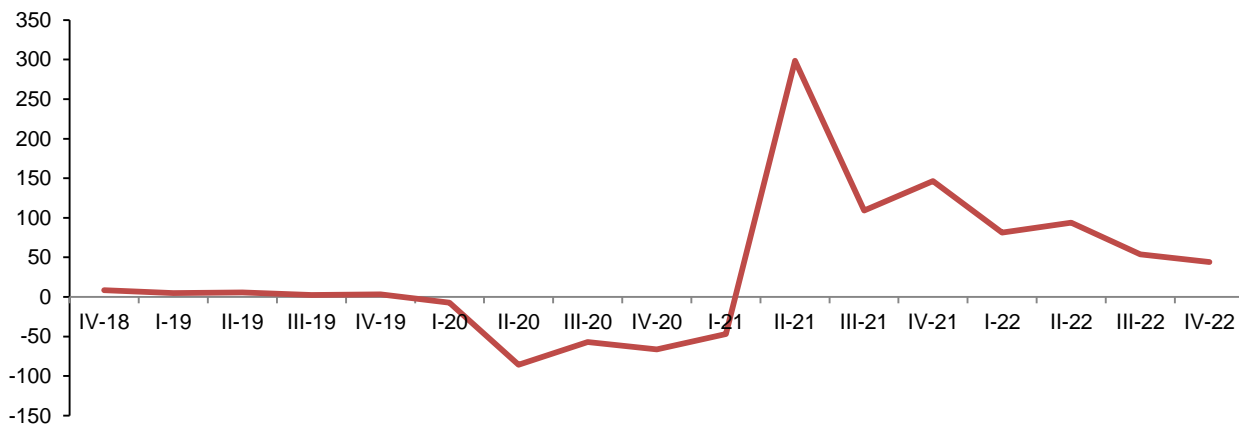
Architectural and Engineering activities quarterly indicators, which include: Architectural and Engineering activities, Technical testing and Analysis, in the fourth quarter 2022, are presented as bellows:

- Turnover volume index decreased by 17,0 % compared with the fourth quarter 2021;
- The number of employees' index increased by 5,3 % compared with the fourth quarter 2021;
- Wages index increased by 18,0 % compared with the fourth quarter 2021.

**Fig.6 Annual changes in Turnover volume index, Architectural and Engineering activities (%)****Travel agency**

Travel agency quarterly indicators, in the fourth quarter 2022 are presented as below:

- Turnover volume index increased by 44,2 % compared with the fourth quarter 2021;
- The number of employees' index increased by 25,4 % compared with the fourth quarter 2021;
- Wages index increased by 50,0 % compared with the fourth quarter 2021.

**Fig.7 Annual changes in Turnover volume index, Travel Agency activity (%)**

**Tab. 1 Turnover volume index, Services (2015=100)**

NACE Rev.2			Seasonally unadjusted		Seasonally adjusted	
Section	Division	Economic activity	Q IV.2022 (2015=100)	IV.22/ IV.21 (%)	Q IV.2022 (2015=100)	IV.22/ III.22 (%)
G	45+46+47	Trade	139.1	1.1	130.9	-0.9
H	49-53	Transport and storage	132.2	0.2	136.9	-1.6
I	55.1	Hotels	287.2	16.7	336.3	-9.6
I	56	Bar-Restaurants	171.0	13.4	186.3	7.6
J	58. 61. 62	Information and Communication	140.1	17.6	133.5	20.5
M	71	Architectural and Engineering activities	143.1	-17.0	110.1	-3.3
N	79	Travel agency	190.6	44.2	187.9	-11.4

**Tab. 2 Number of employees and wages index, Services (2015=100)**

NACE Rev.2			Number of employees		Wages	
Section	Division	Economic activity	Q IV.2022 (2015=100)	IV.22/ IV.21 (%)	Q IV.2022 (2015=100)	IV.22/ IV.21 (%)
G	45+46+47	Trade	117.2	3.5	169.5	14.3
H	49-53	Transport and Storage	125.1	3.6	186.0	32.5
I	55.1	Hotels	172.9	15.1	289.7	39.0
I	56	Bar-Restaurants	128.0	1.0	212.2	23.1
J	58. 61. 62	Information and Communication	162.7	21.8	257.4	46.2
M	71	Architectural and Engineering activities	136.6	5.3	231.0	18.0
N	79	Travel agency	137.9	25.4	223.7	50.0

# Methodology

## Information

In the wake of its efforts to standardizing and approaching the short term statistics to the standards of EU statistics, the publication of Short Term Statistics - Services has passed through some methodological changes, such as:

- Indices on Short term statistics Services from first quarter 2019 will be calculated with base year 2015=100.
- Weights are calculated based on Structural Business Survey in 2020, realized from INSTAT.
- Based on the main activity is also included Food Services activity (Bar-Restaurants).

## Services

**Purpose** -The short term statistics shows the trend of economic development of a country in quarterly periods. By which the police makers can develop a short term plan for the further development of the country. The development of the main indicators such as; industrial production, turnover, number of employees and wages in time series are described by this publication.

**Coverage** - based on main economic activity the main activities covered in the STS survey for services is as following:

- Total sale and repair of motor vehicles (45) and Wholesale (46)
- Transportation and Storage (is included and the Postal and courier activities) (49-53)
- Accommodation and Food Services: Hotels (55.1) and Bar-Restaurants (56)
- Information and Communication (58. 61. 62)
- Architectural and Engineering activities (71)
- Administrative Services and ancillary activities – Travel Agencies (79)

**Model and data collection** - The enterprises are selected from the Statistical Register of Enterprises. The enterprises with 1-9 employees are surveyed by sample survey, whereas the enterprises with 10 and more employees are surveyed exhaustively. Administrative data sources and data collected directly from enterprises with face to face interview method are used this quarter.

**Indicators** - The indicators are given in Index form. The quarterly changes are given in percentage; whereas the annual changes are given in percentage with reference to the base year actually 2015=100. The data do not present absolute values.

**Indexes** - The indexes show the changes in time of a given variable, or of a group of variables. The Index Volume is calculated through the Lapsers Formula. In order to avoid the prices impact the indices are deflated with the proper price index by activities. Transport with implicit price index calculated etc.

**The annual and quarterly changes in percentage** - The annual change measures in percentage the change of economic indicators of the actual quarter compared with the same quarter of the previous year. The quarterly change in percentage it measures in percentage the change of economic indicators of the actual quarter against compared with the previous quarter of the same year.

**Revision** - Indexes may be revised due to several reasons: additional information, the methodological changes or re-evaluation of the used coefficients etc.

#### **Definition of the main indicators**

**Turnover** is the total amount realized by enterprises during the month from the selling of goods. Selling of own products and services excluded VAT.

**Number of persons** working includes all persons who actually work in the observed unit. There are included owners and co-owners and family members that helps in the activity and employees in the end of the quarter.

**Employment index** - shows the evolution of employment in observation unit.

**Wages and salaries** - are defined as the total remunerations. In cash or in kind payable to all persons counted on the payrolls in return for work done during the accounting period.

**Index of wages and salaries** - the gross wages and salaries index approximates the development of the wages and salaries bill.

#### **Seasonal adjustment**

Seasonal adjustment of quarterly time series of producer of materials goods is done by using JDemetra+ 2.2 version software. The chosen model for the decomposition of time series is X-12 ARIMA, under specification X-13. The span of time series is from first quarter 2006 to fourth quarter 2022. X-12 ARIMA model is totally based in moving average. In multiplicative method there is a relationship between trend component, seasonal component and irregularity component. Irregularity component may include sampling errors and unpredictable events. In all-time series is applied the multiplicative decomposition and the direct approach. During the process of seasonal adjustment are treated even the special case occurred during the time series span identified by software as outlier.