

10 February 2023 LABOUR COST INDEX 4<sup>th</sup>quarter of 2022

# THE LABOUR COST INDEX INCREASED BY 1.4% IN THE 4<sup>th</sup> QUARTER OF 2022 AND BY 3.2% IN 2022

In the 4<sup>th</sup> quarter of 2022, the Labour Cost Index (LCI) recorded a year-on-year increase of 1.4%. In the previous quarter, it had increased 4.3%.

The wage costs (per hour actually worked) increased by 1.4%, and the other labour costs (also per hour actually worked) increased by 1.3%, compared with the same period of the previous year.

The year-on-year change of the LCI resulted from the increase of 4.7% in the average cost per employee and the growth of 3.4% in the number of hours actually worked per employee. The increase of the first component was common to all the economic activities, with the highest variations being recorded in activities of sections B to N (5.0% in Industry, 4.7% in Construction and 5.9% in Services). The Public Administration recorded a lower increase, of 3.3%. The hours actually worked per employee also increased in all economic activities, with the lowest variation being recorded in Construction (1.9%) and the highest in the Public Administration (5.6%). The LCI increased in all economic activities, having decreased only in the Public Administration (2.0%).

In 2022, the LCI increased by 3.2%, corresponding to increases of 3.0% in the wage costs and of 4.0% in the other labour costs. The increase in non-wage costs was due to the increase in employers' contributions as a result of the progressive reduction of enterprises that joined the simplified layoff regime in the private sector of the economy. The average cost per employee increased by 4.3% and the number of hours actually worked per employee increased by 1.3%.

# 1. Labour Cost Index and components

In the 4<sup>th</sup> quarter of 2022, the LCI, which measures the labour costs per hour actually worked, increased by 1.4% compared with the same quarter of 2021 (it had increased by 4.3% in the preceding quarter).<sup>1</sup>

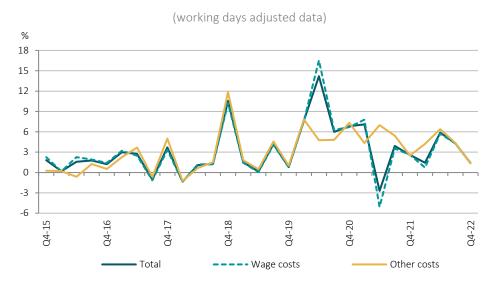
The wage costs (per hour actually worked) increased by 1.4% (4.3% in the previous quarter) and the other labour costs (also per hour actually worked) increased by 1.3% (4.3% in the previous quarter) (Figure 1)<sup>2</sup>.

<sup>&</sup>lt;sup>1</sup> It should be noted that wage costs considered in the LCI computation include those that were partially supported by Social Security in the scope of the employment protection measures, with the implementation, in particular, of the simplified layoff regime in the pandemic context. These amounts cannot be identified in the primary data used to calculate de LCI. Therefore, although from the economy perspective the LCI reflects the behaviour of the hourly labour costs, from the enterprises' perspective these costs tend to be overestimated during the period these measures were in place.

<sup>&</sup>lt;sup>2</sup> The data analysed in this press release are adjusted for working days. The raw data are available in the annex tables and at the Official Statistics Portal.



Figure 1. LCI year-on-year rate of change by components



**Source:** Statistics Portugal, Labour Cost Index – 4<sup>th</sup> quarter of 2022.

In the 4<sup>th</sup> quarter of 2022, the wage costs recorded the highest increase in Services (3.6%), while a decrease of 2.0% was observed in the Public Administration. In the preceding quarter, except for Services, where the variation remained unchanged, all the economic activities had recorded higher increases than those registered in this quarter.

The non-wage costs, as the wage costs, recorded smaller increases than those observed in the previous quarter, except for the Public Administration, which registered a decrease of 2.0%.

The decrease of the wage costs and the non-wage costs in the Public Administration was due to the greater increase, of 5.6%, in the number of hours actually worked per employee.

The non-wage and wage costs recorded equal variations in Construction and in the Public Administration, with differences being observed in Industry (2.6% and 2.7%, respectively) and in Services (3.2% and 3.6%, respectively). The identical variation of the wage costs and the other costs was a result of the normalization of the payment of the social contributions by the enterprises that, during the COVID-19 pandemic, joined the simplified layoff regime or the extraordinary support for progressive resumption of activity, being exempted from the payment of the employers' contributions. The payment of the employers' contributions was recovered in the 2<sup>nd</sup> quarter of 2021, having the other costs registered a more pronounced increase than that of the wage costs in the 2<sup>nd</sup> and 3<sup>rd</sup> quarters of 2021 and in the 1<sup>st</sup> and 2<sup>nd</sup> quarters of 2022.

The LCI increase was also explained by the growth of 4.7% in the average cost per employee (it had increased by 4.8% in the preceding quarter) and the increase of 3.4% in the number of hours actually worked per employee (it had increased by 0.5% in the previous quarter) (Figure 2).



Figure 2. LCI year-on-year rate of change by source of variation

(working days adjusted data)



Source: Statistics Portugal, Labour Cost Index –  $4^{th}$  quarter of 2022.

The average cost per employee recorded a smaller increase than the one observed in the preceding quarter in all economic activities, except for Services. The highest variations were registered in the activities from sections B to N (5.0% in Industry, 4.7% in Construction and 5.9% in Services) and the lowest in the Public Administration (3.3%). The increases in the Public Administration have been lower than those in the other activities since the 1<sup>st</sup> quarter of 2021.

The number of hours actually worked per employee increased in all economic activities, having the highest increase been observed in the Public Administration (5.6%) and the lowest in Construction (1.9%). In the previous quarter, the number of hours actually worked per employee decreased in Industry and the Public Administration.

In 2022, the LCI registered an increase of 3.2%, corresponding to increases of 3.0% in the wage costs and of 4.0% in the other costs. The average cost per employee increased by 4.3% and the number of hours actually worked per employee increased by 1.3%.

In 2021, the LCI had increased 2.5%, corresponding to increases of 1.9% in the wage costs and of 4.8% in the other costs. The average cost per employee had increased by 3.8% and the number of hours actually worked per employee by 1.6%.

# 2. Sectors of economic activity

In the 4<sup>th</sup> quarter of 2022, in the subgroup of economic activities belonging to sections B to N (which broadly cover the private sector of the economy), the LCI increased by 3.2%.



In the remaining economic activities (sections O to S), which include mostly (but not exclusively) the public sector of the economy, the LCI recorded a year-on-year decrease of 2.0%.

In 2022, the LCI registered an increase of 4.2% in the activities that belong to sections B to N (2.8% in 2021) and an increase of 1.5% (1.9% in 2021) in the activities from sections O to S.

## Sections B to N

In the 4<sup>th</sup> quarter of 2022, in the activities from sections B to N, compared with the same quarter of 2021, it was observed that:

- the wage costs increased by 3.3% and the other labour costs increased by 3.0% (Figure 3);
- the average labour cost per employee increased by 5.5% (Figure 4);
- the number of hours actually worked per employee increased by 2.3% (Figure 4).

Among the activities from sections B to N, the LCI increased by 2.7% in Industry (sections B to E), by 2.8% in Construction (section F), and by 3.5% in Services (sections G to N).

# In Industry (2.7%):

- the wage costs increased by 2.7% and the other labour costs increased by 2.6%;
- the average cost per employee increased by 5.0%;
- the number of hours actually worked per employee increased by 2.3%.

# In Construction (2.8%):

- the wage costs and the other labour costs increased by 2.8%;
- the average cost per employee increased by 4.7%;
- the number of hours actually worked per employee increased by 1.9%.

# In Services (3.5%):

- the wage costs increased by 3.6% and the other labour costs increased by 3.2%;
- the average cost per employee increased by 5.9%;
- the number of hours actually worked per employee increased by 2.4%.

## Sections O to S

In the 4<sup>th</sup> quarter of 2022, in the activities from sections O to S, the LCI recorded a decrease of 2.0%. In these activities:

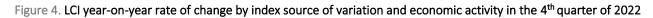


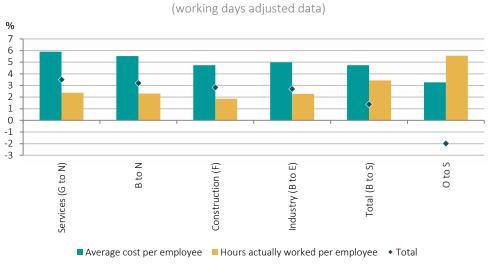
- the wage costs and the other labour costs decreased by 2.0%;
- the average cost per employee increased by 3.3%;
- the number of hours actually worked per employee increased by 5.6%.

Figure 3. LCl year-on-year rate of change by index component and economic activity in the 4<sup>th</sup> quarter of 2022



Source: Statistics Portugal, Labour Cost Index – 4<sup>th</sup> quarter of 2022.





Source: Statistics Portugal, Labour Cost Index – 4<sup>th</sup> quarter of 2022.

LABOUR COST INDEX – 4<sup>th</sup> quarter of 2022



## 3. Comparison with the European Union

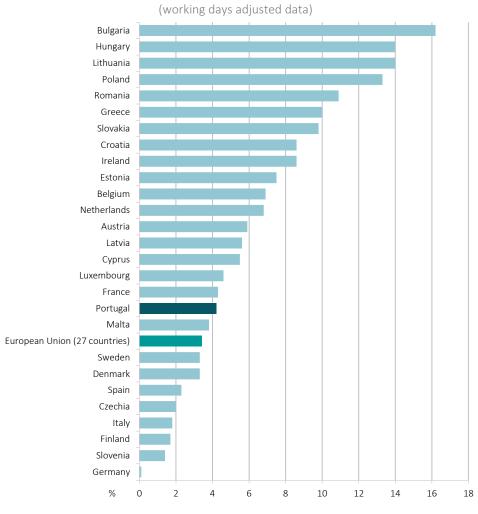
The latest available information by country on the LCI year-on-year rate of change reports to the 3<sup>rd</sup> quarter of 2022 and was published by Eurostat on the 19<sup>th</sup> of December of 2022 (Figure 5).

The LCI year-on-year rate of change for the European Union (27 countries) was 3.4%, in the 3<sup>rd</sup> quarter of 2022.

Nineteen countries recorded LCI rates of change larger than the European Union average, with Bulgaria recording the largest LCI increase (16.2%).

In eight countries, the LCI recorded a lower increase than the European Union average, between 0.1% in Germany, and 3.3% in Sweden.

For Portugal, Eurostat estimated a year-on-year increase, of 4.2%.



## Figure 5. LCl year-on-year rate of change by European Union Country (27) in the 3<sup>rd</sup> quarter of 2022

Source: Eurostat, Labour Cost Index – 3<sup>rd</sup> quarter of 2022.

LABOUR COST INDEX – 4<sup>th</sup> quarter of 2022



#### Table 1. LCI year-on-year rate of change by index component and economic activity (NACE-Rev. 2)

		Q1-2022	2		Q2-2022			Q3-2022			Q4-2022			2021			2022	2022		
Economic activity	Total	Wage	Other	Total	Wage	Other	Total	Wage	Other	Total	Wage	Other	Total	Wage	Other	Total	Wage	Other		
(sections from Nace-Rev. 2)		costs	costs	TUtai	costs	ts costs	Total	costs	costs	Total	costs	costs	TOtal	costs	costs	Total	costs	costs		
		%																		
Total (B to S)	1.4	0.7	4.2	5.9	5.7	6.4	4.3	4.3	4.3	1.4	1.4	1.3	2.5	1.9	4.8	3.2	3.0	4.0		
B to N	3.1	2.2	6.3	6.2	6.0	6.8	4.4	4.4	4.5	3.2	3.3	3.0	2.8	2.0	5.7	4.2	4.0	5.3		
Industry (B to E)	2.3	2.1	2.8	7.3	7.2	7.4	5.9	5.9	5.8	2.7	2.7	2.6	3.1	2.1	6.6	4.5	4.5	4.		
Construction (F)	6.3	6.2	6.6	7.0	7.0	7.0	4.7	4.7	4.7	2.8	2.8	2.8	6.9	6.6	7.8	5.1	5.1	5.2		
Services (G to N)	3.0	1.7	8.1	5.5	5.2	6.5	3.6	3.6	3.8	3.5	3.6	3.2	2.1	1.3	5.0	3.9	3.6	5.3		
O to S	-1.6	-1.9	0.0	5.3	5.3	5.6	4.1	4.1	4.1	-2.0	-2.0	-2.0	1.9	1.8	2.2	1.5	1.4	1.9		

Source: Statistics Portugal, Labour Cost Index – 4<sup>th</sup> quarter of 2022.

### Table 2. LCI year-on-year rate of change by index component and economic activity (NACE-Rev. 2)

	Q1-2022			Q2-2022			Q3-2022			Q4-2022			2021				2022	
Economic activity	Total	Wage	Other	Total	Wage	Other	Total	Wage	Other	Total	Wage	Other	Total	Wage	Other	Total	Wage	Othe
(sections from Nace-Rev. 2)	TOLAT	costs	costs	TOLAT	costs c	costs	TOLAT	costs	costs	TOLAT	costs	costs	TOLAI	costs	costs	TOLAI	costs	costs
%																		
Fotal (B to S)	-0.2	-0.8	2.6	7.6	7.5	8.1	5.9	5.9	5.9	3.0	3.1	3.0	2.0	1.5	4.3	4.2	4.0	4
3 to N	1.4	0.6	4.7	7.9	7.7	8.6	6.0	6.0	6.1	4.9	5.0	4.7	2.2	1.5	5.3	5.1	4.9	6
Industry (B to E)	0.7	0.5	1.2	9.0	9.0	9.2	7.5	7.5	7.4	4.4	4.4	4.3	2.6	1.7	6.2	5.5	5.4	5
Construction (F)	4.7	4.6	4.9	8.8	8.8	8.7	6.3	6.3	6.3	4.5	4.5	4.5	6.4	6.2	7.4	6.0	6.0	e
Services (G to N)	1.4	0.2	6.4	7.2	7.0	8.2	5.2	5.2	5.4	5.2	5.3	4.9	1.5	0.9	4.6	4.8	4.5	6
) to S	-3.1	-3.5	-1.6	7.1	7.0	7.3	5.7	5.7	5.7	-0.4	-0.4	-0.3	1.4	1.4	1.8	2.4	2.3	2

Source: Statistics Portugal, Labour Cost Index – 4<sup>th</sup> quarter of 2022.

J - Information and communication

K - Financial and insurance activities

I - Accomodation and food service activities

M - Professional, scientific and technical activities

H - Transport and storage

L - Real estate activities

#### Sections from Nace-Rev. 2

- B Mining and quarrying
- C Manufacturing
- D Electricity, gas, steam and air conditions supply E - Water supply, sewerage, waste management and remediation activities
- F Construction
- G Wholesale and retail trade; repair of motor vehicles and motor recycles

- N Administrative and support service activities
- O Public administration, defence, and compulsory social security
- P Education
- Q Human health and social work activities
- R Arts, entertainment and recreation
- S Other service activities

LABOUR COST INDEX – 4<sup>th</sup>quarter of 2022



## Table 3. LCI year-on-year rate of change by index source of variation and economic activity (NACE-Rev. 2)

							(wor	king days	adjusted d	ata)									
		Q1-2022			Q2-2022			Q3-2022			Q4-2022			2021			2022		
Economic activity (sections from Nace-Rev. 2)	Total	Average cost per employee	Hours actually worked per employee	Total	Average cost per employee	Hours actually worked per employee													
										%									
Total (B to S)	1.4	3.5	2.6	5.9	4.3	-1.3	4.3	4.8	0.5	1.4	4.7	3.4	2.5	3.8	1.6	3.2	4.3	1.3	
B to N	3.1	4.2	1.8	6.2	5.2	-0.7	4.4	5.4	1.0	3.2	5.5	2.3	2.8	4.9	2.3	4.2	5.1	1.1	
Industry (B to E)	2.3	3.0	0.7	7.3	4.7	-2.2	5.9	5.2	-0.6	2.7	5.0	2.3	3.1	5.7	2.4	4.5	4.5	0.0	
Construction (F)	6.3	4.7	-1.5	7.0	5.1	-1.7	4.7	5.2	0.5	2.8	4.7	1.9	6.9	4.4	-2.4	5.1	4.9	-0.2	
Services (G to N)	3.0	4.8	2.8	5.5	5.4	0.1	3.6	5.5	1.9	3.5	5.9	2.4	2.1	4.5	2.8	3.9	5.4	1.8	
O to S	-1.6	2.1	4.0	5.3	2.6	-2.5	4.1	3.7	-0.4	-2.0	3.3	5.6	1.9	1.7	0.1	1.5	2.9	1.7	

**Source:** Statistics Portugal, Labour Cost Index – 4<sup>th</sup> quarter of 2022.

# Table 4. LCI year-on-year rate of change by index source of variation and economic activity (NACE-Rev. 2) (non-working days adjusted data)

		Q1-202	22		Q2-2022			Q3-2022			Q4-2022			2021			2022		
Economic activity (sections from Nace-Rev. 2)	Total	Average cost per employee	Hours actually worked per employee	Total	Average cost per employee	Hours actually worked per employee													
										%									
Total (B to S)	-0.2	3.5	4.2	7.6	4.3	-2.9	5.9	4.8	-1.0	3.0	4.7	1.8	2.0	3.8	2.0	4.2	4.3	0.5	
B to N	1.4	4.2	3.4	7.9	5.2	-2.3	6.0	5.4	-0.5	4.9	5.5	0.7	2.2	4.9	2.7	5.1	5.1	0.3	
Industry (B to E)	0.7	3.0	2.3	9.0	4.7	-3.7	7.5	5.2	-2.2	4.4	5.0	0.6	2.6	5.7	2.8	5.5	4.5	-0.8	
Construction (F)	4.7	4.7	0.0	8.8	5.1	-3.3	6.3	5.2	-1.0	4.5	4.7	0.2	6.4	4.4	-2.0	6.0	4.9	-1.0	
Services (G to N)	1.4	4.8	4.5	7.2	5.4	-1.5	5.2	5.5	0.3	5.2	5.9	0.7	1.5	4.5	3.1	4.8	5.4	1.0	
O to S	-3.1	2.1	5.6	7.1	2.6	-4.1	5.7	3.7	-1.9	-0.4	3.3	3.8	1.4	1.7	0.6	2.4	2.9	0.9	

**Source:** Statistics Portugal, Labour Cost Index – 4<sup>th</sup> quarter of 2022.

Note: The name of the activities can be found in the previous page.



# **TECHNICAL NOTE**

With the publication of the results for the 1<sup>st</sup> quarter of 2019, Statistics Portugal started the dissemination of a new series of the Labour Cost Index (LCI), with the base year in 2016, in line with Eurostat's procedure for the Labour Cost Index, whenever new data of the (quadrennial) Labour Cost Survey become available.

With the publication of the results for the 1<sup>st</sup> quarter of 2020, Statistics Portugal started to include, in the LCI calculation, regarding the information related to the labour costs obtained from administrative sources, data corresponding to the universe of about 386 thousand entities (instead of the actual sample of around 4 100 entities), which declared earnings for a total of 4.2 million workers. The information on hours actually worked continues to be obtained by direct inquiry from the entities that belong to the LCI sample, and no changes were introduced at this level. For the O, P and Q sections of NACE-Rev. 2 estimates of the number of hours actually worked per employee from the Labour Force Survey are used.

The back series for all indices, from the 1<sup>st</sup> quarter of 2008, are available at the Official Statistics website.

The LCI is a short-term indicator that measures quarterly developments in labour costs per hour actually worked (hourly average cost) incurred by the employer. The index is calculated by dividing the average cost per employee by the number of hours actually worked per employee. For this reason, the evolution of these two variables (labour costs and hours worked) contribute to explaining the development of the LCI.

Labour costs incurred by the employer correspond to that reported by the entities to the Social Security (*Declaração Mensal de Remunerações*) and to the *Caixa Geral de Aposentações* (*Relação Contributiva*) include the following:

Wage costs:

- Base wage
- Regular bonuses and allowances
- Irregular bonuses and allowances (holiday bonus, Christmas bonus, end-of-year bonuses/distribution of profits, other irregular bonuses and allowances)
- Payment of overtime

Other costs:

- Severance payment
- Employers' legal costs (social security contributions, insurance against accidents and occupational disease)
- Collectively agreed, contractual and voluntary costs (supplementary pension/invalidity benefit, health insurance, life/personal accident insurance, and social benefits paid directly to employees in case of absence on account of sickness)



Quarterly data collection on the hours worked in the enterprises is carried out through an electronic questionnaire (Computer Assisted Web Interviewing - CAWI).

By economic activity, the LCI covers Sections B to S of NACE-Rev. 2.

The LCI is a Laspeyres index.

In order to obtain more information about the LCI calculation, we recommend consulting the <u>methodological note</u> (only in Portuguese) for this statistical operation.

## INFORMATION SELECTED FOR PUBLICATION

This Press Release analyses changes in the total LCI and respective items: 1) wage costs versus other costs; and 2) average costs per employee versus number of hours actually worked per employee.

Given that the LCI is seasonal, data are presented as year-on-year rates of change, which compare index levels in the current quarter with those for the same quarter a year earlier. The series of index figures are available on the Official Statistics website.

With the purpose of eliminating the effects of a different number of working days in similar quarters of different years (Easter and other movable feasts), the series analysed are adjusted for working days. Raw series, not adjusted for working day effects, are available in the annex tables and on the Official Statistics website.

## REVISONS

The Data published in this Press Release concerning the last quarters are subject to revisions. These revisions are the result of the inclusion of information relating to the previous quarter sent late by some enterprises of the sample survey on hours worked and from the update of information obtained through administrative sources, namely data from the *Declaração Mensal de Remunerações* reported by enterprises to Social Security.

The impact of these revisions, measured by the difference between the year-on-year rates of change now available and those published for the  $3^{rd}$  quarter of 2022 in the Press Release "Labour Cost Index –  $3^{rd}$  quarter of 2022", is presented in the following table:



## Revision of the LCI year-on-year rates of change published in the 3<sup>rd</sup> quarter of 2022

		Wo	rking days	adjusted data	a	Non working days adjusted data							
		Compone	nt of the	Source of va	riation of the		Compone	ent of the	Source of variation of the index				
		ind	ex	in	dex		ind	lex					
Economic activity (sections from Nace- Rev. 2)	Total	Wage costs	Other costs	Average cost	Hours actually worked	Total	Wage costs	Other costs	Average cost	Hours actually worked			
	Per ho	ur actually	worked	Per en	nployee	Per ho	ur actually	worked	Per employee				
					9	6			2				
Total (B to S)	0.2	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.0			
B to N	0.2	0.2	0.3	0.2	0.0	0.2	0.2	0.3	0.2	0.0			
Industry (B to E)	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.0			
Construction (F)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1			
Services (G to N)	0.2	0.3	0.3	0.2	0.0	0.3	0.3	0.3	0.2	-0.1			
O to S	0.3	0.3	0.3	0.2	0.0	0.3	0.3	0.3	0.2	0.0			

**Source:** Statistics Portugal, Labour Cost Index – 3<sup>rd</sup> quarter of 2022.

Due to rounding, the sum of the components may not equal to the corresponding totals.

This Press Release was prepared with the data received up to the 30<sup>th</sup> of January of 2023. The response rate of the LCI survey on hours worked was 93%.

## ACRONYMS AND ABBREVIATIONS

Eurostat – Statistical Office of the European Union

LCI – Labour Cost Index

NACE-Rev. 2 – Statistical Classification of Economic Activities in the European Communities, Revision 2

Next quarterly press release -12<sup>th</sup> May of 2023