



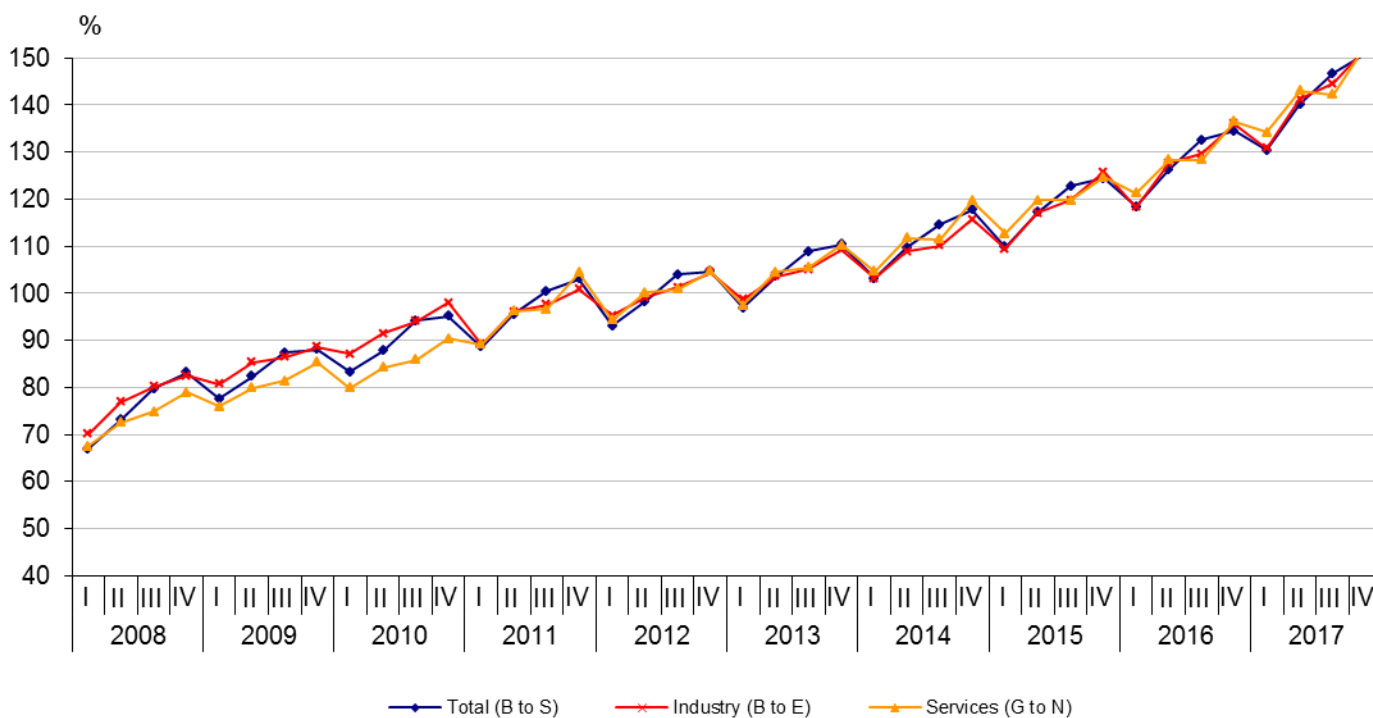
## QUARTERLY LABOUR COST INDEX FOURTH QUARTER OF 2017

Preliminary data of the NSI for the fourth quarter of 2017 indicate that the total hourly labour cost rose by 12.2% compared to the fourth quarter of 2016. The total hourly labour cost grew by 11.7% in industry, by 11.8% in services and by 11.9% in construction.

The breakdown by economic activities showed that the highest annual growths in total labour costs were recorded in 'Education' - 20.2%, 'Other service activities' - 19.1% and 'Administrative and support service activities' - 15.0%. The lowest increase in total labour costs was observed in 'Arts, entertainment and recreation' by 1.1%, 'Electricity, gas, steam and air conditioning supply' by 3.7% and 'Financial and insurance activities' - 6.9%.

In the structure of the total labour costs, the wages and salaries costs per hour worked grew by 12.0% in comparison with a year earlier, while the other (non-wage) costs rose by 13.2%. Among the economic activities in the fourth quarter of 2017 compared to the fourth quarter of 2016 the growth rate of wages and salaries component ranged from 1.0% in 'Arts, entertainment and recreation' to 20.1% in 'Education'.

**Figure 1. Total labour cost index  
(Working day adjusted, 2012 = 100)**





## Methodological notes

Labour Cost Index is a short-term indicator measuring the quarterly development of hourly labour costs incurred by the employers as a result of engaging the labour work force. The Quarterly Survey on employees, hours worked, wages and salaries and other expenditures paid by the employer is the main source used for the labour cost index data calculation.

**Labour cost index (LCI)** is defined as a Laspeyres index of labour costs per hour worked. Since first quarter of 2015 it has been calculated broken down by economic activities at section level according to the new NACE Rev. 2 classification and with a reference year 2012 = 100. Indices are based on Regulation (EC) No. 450/2003 of the European Parliament and of the Council according to which requirements Labour costs indices shall be provided separately for the following three labour costs categories:

**Total labour costs (TOT)**, which includes wages and salaries paid by the employer in cash or in kind, employers' actual and imputed social contribution plus taxes regarded as labour costs;

**Wage and salary costs (WAG)** covers wages and salaries paid in cash or in kind;

**Labour costs other than wages and salaries (OTH - non-wage costs)** include the employers' actual and imputed social contribution plus taxes regarded as labour costs.

### Economic activity coverage (NACE Rev. 2):

- **Total (sections B to S)** - Mining and quarrying (B), Manufacturing (C), Electricity, gas, steam and air conditioning supply (D), Water supply, sewerage, waste management and remediation activities (E), Construction (F), Wholesale and retail trade; repair of motor vehicles and motorcycles (G), Transportation and storage (H), Accommodation and food service activities (I), Information and communication (J), Financial and insurance activities (K), Real estate activities (L), Professional, scientific and technical activities (M), Administrative and support service activities (N), Public administration and defence; compulsory social security (O), Education (P), Human health and social work activities (Q), Arts, entertainment and recreation (R), Other service activities (S);
- **Industry (section B to E)** - Mining and quarrying (B), Manufacturing (C), Electricity, gas, steam and air conditioning supply (D), Water supply, sewerage, waste management and remediation activities (E);
- **Services (sections G to N)** - Wholesale and retail trade; repair of motor vehicles and motorcycles (G), Transportation and storage (H), Accommodation and food service activities (I), Information and communication (J), Financial and insurance activities (K), Real estate activities (L), Professional, scientific and technical activities (M), Administrative and support service activities (N).

More methodological information on the labour cost index and data could be found on the NSI official website - <http://www.nsi.bg/en> .

Hourly labour cost index for the period fourth quarter of 2015 - fourth quarter of 2017  
(Working day adjusted)

(Percentage change compared to corresponding period of the previous year)

Code NCEA - 2008 <sup>1</sup>	Economic activities	q4 2015 <sup>2</sup>			q1 2016 <sup>2</sup>			q2 2016 <sup>2</sup>			q3 2016 <sup>2</sup>			q4 2016 <sup>2</sup>			q1 2017 <sup>2</sup>			q2 2017 <sup>2</sup>			q3 2017 <sup>2</sup>			q4 2017 <sup>2</sup>		
		TOT	WAG	OTH	TOT	WAG	OTH	TOT	WAG	OTH	TOT	WAG	OTH	TOT	WAG	OTH	TOT	WAG	OTH	TOT	WAG	OTH	TOT	WAG	OTH	TOT	WAG	OTH
<b>B to S</b>	<b>All NACE branches except agriculture, fishing, private households with employed persons</b>	5.7	5.9	4.5	7.8	7.9	7.7	7.7	7.7	7.8	8.0	7.8	8.9	8.1	8.3	7.0	10.1	9.9	11.2	11.0	10.7	12.4	10.7	10.6	11.1	12.2	12.0	13.5
<b>B to E</b>	<b>Industry (except construction)</b>	8.7	9.1	6.9	8.1	8.3	7.2	9.1	9.2	8.6	8.2	8.5	7.0	8.1	8.3	7.0	10.5	9.9	13.2	10.6	10.5	11.1	11.5	11.3	12.6	11.7	11.3	13.5
<b>G to N</b>	<b>Services (excluding public administration)</b>	4.2	4.5	3.1	7.6	7.6	7.5	7.1	7.0	8.0	7.2	7.1	7.8	9.5	9.5	9.5	10.6	10.7	10.4	11.5	11.4	11.7	10.8	10.7	11.4	11.8	11.8	12.1
B	Mining and quarrying	3.0	3.9	-0.4	2.1	1.1	5.8	1.6	1.5	2.1	1.4	1.6	0.6	4.0	3.1	7.7	9.0	9.0	9.1	11.5	11.7	10.8	12.7	13.3	10.8	12.8	13.1	11.6
C	Manufacturing	10.5	10.7	9.5	10.5	10.8	8.9	10.8	10.7	11.0	10.0	9.9	10.2	9.0	9.1	8.9	10.3	9.6	13.8	11.5	11.4	11.8	12.2	11.9	13.6	12.7	12.1	15.5
D	Electricity,gas,steam and air conditioning supply	4.2	4.8	1.8	0.6	0.1	2.4	6.0	6.9	2.5	4.0	5.6	-2.0	8.2	10.2	0.5	11.4	11.4	11.2	5.0	4.7	6.2	6.3	6.2	6.8	3.7	3.7	3.8
E	Water supply,sewerage,waste management and remediation activities	3.5	4.0	1.2	-0.2	-0.2	0.0	3.1	3.0	3.7	2.2	2.9	-0.9	1.7	2.2	-0.4	12.3	11.6	16.0	10.4	9.5	14.3	9.8	9.1	13.5	13.5	13.6	12.9
F	Construction	8.5	9.4	4.3	7.1	7.1	7.1	7.1	7.2	6.5	4.9	4.4	7.1	2.2	2.2	2.1	5.8	5.7	6.4	4.7	4.9	3.8	7.0	7.6	3.8	11.9	12.5	8.8
G	Wholesale and retail trade;repair of motor vehicles and motorcycles	5.7	5.8	4.7	11.7	11.9	10.5	8.6	8.3	10.1	9.4	9.1	10.7	15.0	15.3	13.7	12.3	12.5	11.4	13.2	13.4	12.2	10.9	11.2	9.2	14.8	14.8	15.0
H	Transportation and storage	6.0	6.9	2.2	3.9	3.7	4.9	3.4	3.3	4.0	4.2	4.3	4.1	5.5	4.8	8.9	8.8	8.7	9.6	9.8	9.9	9.4	10.0	9.6	11.7	9.5	9.7	8.8
I	Accommodation and food service activities	2.7	3.1	1.0	0.2	0.6	-1.9	3.7	4.0	2.1	2.4	2.5	1.8	5.1	5.0	5.7	1.6	1.4	3.0	9.5	8.5	15.1	11.6	11.1	14.0	12.3	11.8	14.5
J	Information and communication	-1.4	-1.5	-1.1	6.0	5.6	9.0	8.6	8.6	8.4	8.5	8.6	7.9	10.6	10.8	9.5	12.1	12.5	9.4	8.8	8.7	9.6	9.4	9.4	9.5	7.4	7.6	6.1
K	Financial and insurance activities	0.7	0.9	-0.3	5.5	6.5	-0.1	6.6	6.2	9.0	7.1	6.4	11.3	4.8	4.4	6.7	6.7	6.0	11.1	5.7	5.6	6.6	8.9	8.0	14.1	6.9	6.5	9.2
L	Real estate activities	6.6	6.3	8.5	12.8	12.6	14.4	12.5	12.1	14.6	7.4	7.4	7.7	9.1	9.0	9.7	15.2	15.4	14.4	16.8	17.0	15.8	12.1	11.6	14.7	14.9	15.2	13.6
M	Professional,scientific and technical activities	7.0	6.9	7.1	3.2	2.6	7.3	6.0	5.6	7.9	5.2	5.4	4.1	4.5	4.6	3.8	13.3	13.7	10.5	14.6	14.9	12.7	12.0	12.0	12.3	13.1	13.1	12.9
N	Administrative and support service activities	8.9	9.4	5.9	14.6	14.6	14.6	8.0	7.8	8.9	7.3	7.0	8.5	7.7	7.7	7.3	11.6	11.1	14.3	16.1	15.6	19.0	14.8	14.4	16.9	15.0	14.7	16.3
O	Public administration and defence;compulsory social security	2.6	1.8	4.9	6.7	6.5	7.4	6.6	7.5	3.9	9.2	9.8	7.1	5.2	7.4	-1.7	10.3	10.0	11.2	11.7	10.3	16.6	8.1	7.0	12.1	12.2	10.7	17.3
P	Education	3.0	3.6	0.3	9.4	9.5	9.3	7.3	6.3	11.3	8.2	5.7	18.6	2.6	2.0	5.2	11.3	10.7	14.0	12.2	10.3	19.9	13.7	14.4	11.1	20.2	20.1	20.5
Q	Human health and social work	7.4	7.5	7.1	8.1	7.9	9.0	8.8	9.1	7.5	10.1	10.5	8.3	7.9	8.3	6.1	7.1	6.8	8.6	10.5	10.0	12.8	8.9	8.9	8.9	9.7	9.7	9.3
R	Arts,entertainment and recreation	6.0	5.7	7.6	13.9	13.5	16.5	10.8	10.1	14.7	20.5	20.8	18.7	25.5	25.9	23.7	3.8	3.9	3.4	9.8	10.1	8.2	2.9	3.1	2.0	1.1	1.0	1.6
S	Other service activities	8.3	8.0	10.1	7.2	6.9	8.9	3.1	5.2	-6.8	7.8	7.9	7.4	8.4	8.5	8.2	8.2	8.0	9.4	9.4	9.0	11.1	14.4	14.5	13.9	19.1	19.7	15.8

<sup>1</sup> NCEA - 2008 - National Classification of economic activities comparable with NACE Rev.2.

<sup>2</sup> Preliminary data.

TOT - Total labour costs

WAG - Wages and salaries costs

OTH - Other (non-wage) costs

**Labour Cost Index - Total labour costs for the period 2013 - 2017**  
(Working day adjusted, 2012=100)

**Table 2**

Code NCEA - 2008 <sup>1</sup>	Economic activities	(Per cent)																			
		2013				2014				2015				2016 <sup>2</sup>				2017 <sup>2</sup>			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
<b>B to S</b>	<b>All NACE branches except agriculture, fishing, private households with employed persons</b>	96.9	103.5	108.9	110.3	103.1	109.7	114.6	117.7	109.8	117.2	122.8	124.4	118.4	126.3	132.6	134.5	130.3	140.1	146.7	150.9
<b>B to E</b>	<b>Industry (except construction)</b>	98.6	103.6	105.1	109.2	103.2	108.8	110.1	115.7	109.4	117.0	119.7	125.8	118.3	127.6	129.6	136.0	130.7	141.2	144.5	151.8
<b>G to N</b>	<b>Services (excluding public administration)</b>	97.4	104.5	105.4	110.2	104.7	111.7	111.5	119.6	112.7	119.8	119.7	124.7	121.2	128.3	128.3	136.5	134.2	143.0	142.2	152.6
B	Mining and quarrying	96.3	98.9	100.3	116.8	105.5	105.7	105.1	123.6	104.9	112.1	112.0	127.2	107.1	113.9	113.5	132.3	116.7	127.0	127.9	149.3
C	Manufacturing	99.7	102.8	105.3	108.7	104.1	108.6	111.4	115.7	111.8	118.1	122.6	127.8	123.5	130.8	134.8	139.3	136.3	145.8	151.3	156.9
D	Electricity, gas, steam and air conditioning supply	94.4	107.9	104.3	103.3	94.4	110.6	104.7	109.2	98.6	114.1	108.9	113.7	99.1	120.9	113.2	123.0	110.4	127.0	120.4	127.6
E	Water supply, sewerage, waste management and remediation activities	98.3	108.8	110.9	118.4	107.2	112.5	112.9	120.0	108.8	115.7	116.9	124.2	108.7	119.3	119.5	126.4	122.1	131.6	131.2	143.4
F	Construction	102.7	102.9	102.5	112.0	107.4	108.6	107.7	116.4	112.4	112.1	111.7	126.4	120.4	120.0	117.2	129.2	127.4	125.7	125.3	144.6
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	95.2	102.0	102.2	106.5	105.6	111.3	111.9	114.8	111.1	119.8	119.6	121.3	124.1	130.1	130.8	139.5	139.4	147.3	145.1	160.1
H	Transportation and storage	97.1	103.7	103.0	103.9	97.8	105.4	107.2	110.1	107.5	115.0	115.2	116.7	111.7	119.0	120.1	123.2	121.6	130.6	132.1	134.9
I	Accommodation and food service activities	98.5	104.7	100.9	108.8	106.1	107.9	102.6	115.4	118.5	112.2	109.5	118.5	118.7	116.3	112.1	124.6	120.6	127.4	125.1	139.9
J	Information and communication	103.4	108.1	116.3	118.1	107.2	114.0	114.9	131.6	115.8	120.9	123.8	129.8	122.8	131.3	134.4	143.6	137.6	142.9	147.0	154.1
K	Financial and insurance activities	95.5	106.9	103.3	116.1	99.7	113.2	107.2	117.4	103.6	117.0	108.3	118.3	109.3	124.7	116.0	123.9	116.7	131.9	126.3	132.4
L	Real estate activities	88.9	95.2	96.2	100.8	96.2	101.4	100.2	110.4	97.7	105.5	108.6	117.8	110.2	118.6	116.6	128.5	127.0	138.6	130.7	147.7
M	Professional, scientific and technical activities	95.3	104.2	109.1	112.3	106.1	112.8	119.4	128.9	118.5	123.3	129.1	137.8	122.3	130.7	135.8	144.0	138.5	149.8	152.2	162.9
N	Administrative and support service activities	102.9	110.5	109.7	117.6	115.4	125.3	119.8	134.3	128.1	139.0	138.6	146.2	146.8	150.1	148.6	157.5	163.8	174.4	170.6	181.0
O	Public administration and defence; compulsory social security	97.6	105.7	113.0	111.1	103.4	110.2	118.5	117.8	106.1	113.4	120.6	120.8	113.2	120.9	131.7	127.1	124.8	135.1	142.4	142.6
P	Education	84.4	95.2	145.0	108.6	89.5	99.4	148.9	115.0	92.7	106.2	159.7	118.4	101.4	113.9	172.7	121.5	112.9	127.8	196.4	146.1
Q	Human health and social work activities	97.0	106.1	111.0	114.5	105.0	114.2	118.6	119.5	112.8	122.3	126.1	128.4	122.0	133.2	138.8	138.6	130.6	147.1	151.2	152.0
R	Arts, entertainment and recreation	100.3	100.8	101.4	115.0	103.8	103.1	107.6	117.1	110.8	114.1	121.3	124.1	126.3	126.4	146.2	155.8	131.0	138.8	150.5	157.5
S	Other service activities	88.5	97.2	97.3	106.9	95.5	101.0	105.9	105.9	105.2	115.1	114.9	114.7	112.7	118.7	123.9	124.4	122.0	129.8	141.7	148.1

<sup>1</sup> NCEA - 2008 - National Classification of economic activities comparable with NACE Rev.2.

<sup>2</sup> Preliminary data.