



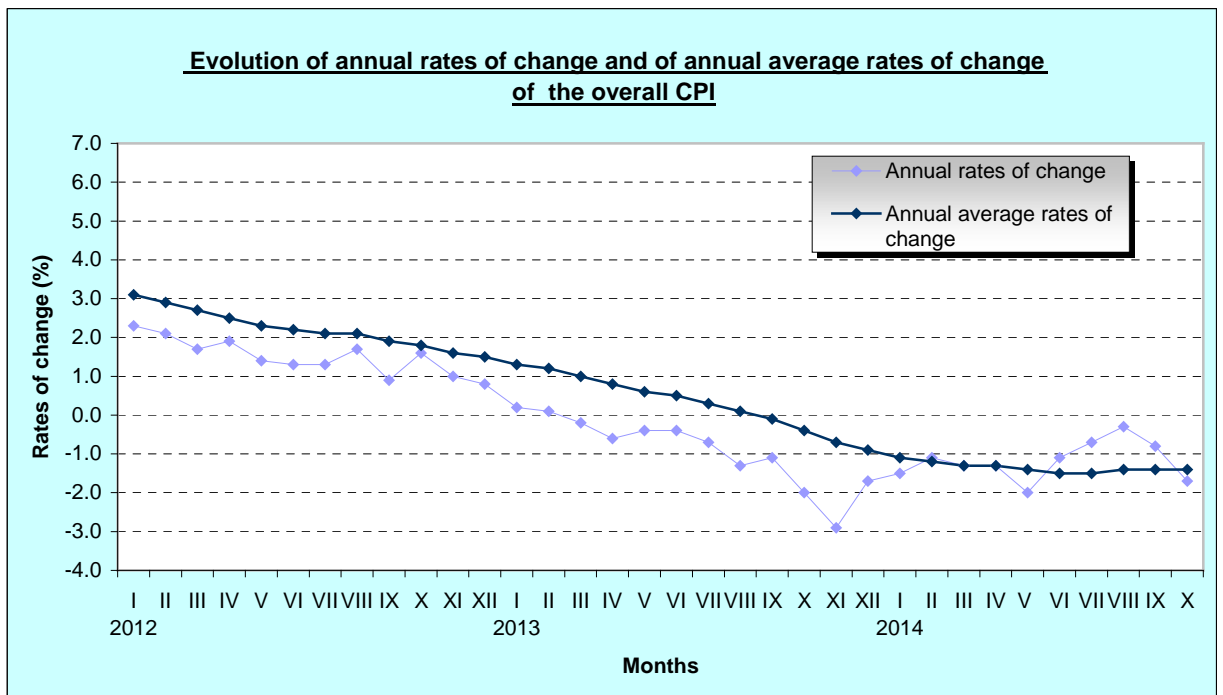
## PRESS RELEASE

### CONSUMER PRICE INDEX: October 2014 (2009=100.0)

The Consumer Price Index (CPI) in October 2014 compared with October 2013 decreased by 1.7%. In October 2013, the annual rate of change of the CPI was -2.0% (Table 2).

The CPI in October 2014 compared with September 2014 decreased by 0.9%. In October 2013, the monthly rate of change of the CPI was -0.1% (Table 1).

In the twelve-month period from November 2013 to October 2014 compared with the period from November 2012 to October 2013 the annual average rate of change of the CPI was -1.4%. The corresponding annual average rate of change of the CPI in the previous year (November 2012 to October 2013) was -0.4% (Table 3).



Information:

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**Table 1**  
**Monthly rates of change of the Consumer Price Index – October 2014**  
**(2009=100.0)**

	Main groups of goods and services	Weights HBS 2012 (%)	2014	2014	Rate of change %	2013	2013	Rate of change %
			October	September		October	September	
1	Food & non-Alcoholic Beverages	208.96	102.79	102.32	0.5	103.94	103.88	0.1
2	Alcoholic Beverages & Tobacco	40.94	131.40	131.54	-0.1	128.84	128.85	0.0
3	Clothing and Footwear	64.43	109.16	108.06	1.0	111.00	110.90	0.1
4	Housing	150.53	125.24	131.24	-4.6	132.42	132.91	-0.4
5	Household Equipment	58.66	96.62	96.83	-0.2	98.11	98.10	0.0
6	Health	67.33	96.39	99.30	-2.9	97.94	95.70	2.3
7	Transport	127.53	122.06	123.23	-1.0	122.67	123.76	-0.9
8	Communication	41.59	98.42	98.43	0.0	98.47	98.40	0.1
9	Recreation and Culture	42.00	93.57	93.52	0.0	95.34	95.46	-0.1
10	Education	32.24	90.49	90.63	-0.2	93.34	93.70	-0.4
11	Hotels Cafés & Restaurants	98.52	103.18	103.52	-0.3	103.24	103.38	-0.1
12	Miscellaneous Goods & Services	67.27	99.78	99.84	-0.1	101.99	102.25	-0.3
	Overall Index	1000.00	107.30	108.29	-0.9	109.13	109.20	-0.1

Note: 1. The indices are calculated with infinite decimal figures and rounded up to two decimal figures when published.  
2. Percentage changes are calculated on the basis of indices with infinite decimal figures and rounded up to one decimal figure when published.

**Table 2**  
**Annual rates of change of the Consumer Price Index – October 2014**  
**(2009=100.0)**

**I**

Main groups of goods and services		October		Rate of change (%)	Effect
		2013	2012		
1	Food and non Alcoholic Beverages	103.94	104.45	-0.5	-0.0783
2	Alcoholic Beverages and Tobacco	128.84	124.44	3.5	0.1375
3	Clothing and Footwear	111.00	112.26	-1.1	-0.0983
4	Housing	132.42	133.29	-0.7	-0.0907
5	Household Equipment	98,11	100.39	-2.3	-0.1505
6	Health	97.94	99.00	-1.1	-0.0669
7	Transport	122.67	127.18	-3.5	-0.5361
8	Communication	98.47	102.75	-4.2	-0.1754
9	Recreation and Culture	95.34	98.23	-3.0	-0.1244
10	Education	93.34	97.66	-4.4	-0.1181
11	Hotels Cafés and Restaurants	103.24	106.44	-3.0	-0.3282
12	Miscellaneous Goods and Services	101.99	107.17	-4.8	-0.3592
Overall Index		109.13	111.34	-2.0	

**II**

Main groups of goods and services		October		Rate of change (%)	Effect
		2014	2013		
1	Food and non Alcoholic Beverages	102.79	103.94	-1.1	-0.2207
2	Alcoholic Beverages and Tobacco	131.40	128.84	2.0	0.0961
3	Clothing and Footwear	109.16	111.00	-1.7	-0.1083
4	Housing	125.24	132.42	-5.4	-0.9895
5	Household Equipment	96.62	98.11	-1.5	-0.0799
6	Health	96.39	97.94	-1.6	-0.0956
7	Transport	122.06	122.67	-0.5	-0.0719
8	Communication	98.42	98.47	0.0	-0.0016
9	Recreation and Culture	93.57	95.34	-1.9	-0.0680
10	Education	90.49	93.34	-3.1	-0.0842
11	Hotels Cafés and Restaurants	103.18	103.24	-0.1	-0.0056
12	Miscellaneous Goods and Services	99.78	101.99	-2.2	-0.1360
Overall Index		107.30	109.13	-1.7	

Note: 1. The indices are calculated with infinite decimal figures and rounded up to two decimal figures when published.  
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**Table 3**  
**Comparisons of the overall Consumer Price Index**  
**(2009=100.0)**

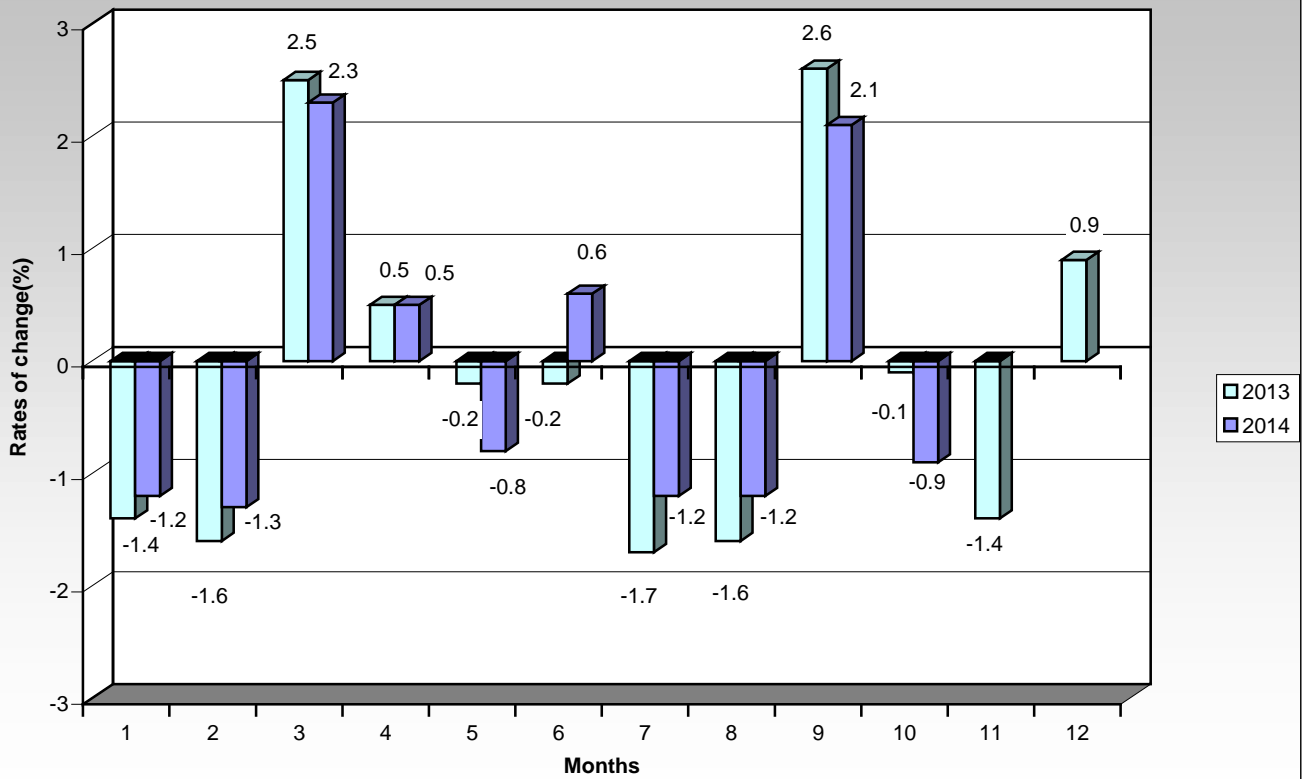
Year and month	Overall index	Monthly rates of change %	Annual rates of change %	Annual average index (moving average)	Annual average rates of change %
2011 : 1	106.28	-0.7	5.2	105.15	4.9
2	104.90	-1.3	4.4	105.52	5.1
3	108.32	3.3	4.5	105.91	5.1
4	108.99	0.6	3.9	106.25	5.0
5	109.19	0.2	3.3	106.54	4.9
6	108.95	-0.2	3.3	106.83	4.7
7	107.44	-1.4	2.4	107.04	4.4
8	105.94	-1.4	1.7	107.19	4.1
9	109.45	3.3	3.1	107.46	3.9
10	109.56	0.1	3.0	107.72	3.7
11	109.73	0.2	2.9	107.98	3.6
12	109.63	-0.1	2.4	108.20	3.3
<i>Annual average</i>	<i>108.20</i>	<i>-</i>	<i>-</i>	<i>108.20</i>	<i>3.3</i>
2012 : 1	108.75	-0.8	2.3	108.41	3.1
2	107.10	-1.5	2.1	108.59	2.9
3	110.13	2.8	1.7	108.74	2.7
4	111.07	0.8	1.9	108.91	2.5
5	110.71	-0.3	1.4	109.04	2.3
6	110.37	-0.3	1.3	109.16	2.2
7	108.88	-1.4	1.3	109.28	2.1
8	107.78	-1.0	1.7	109.43	2.1
9	110.44	2.5	0.9	109.51	1.9
10	111.34	0.8	1.6	109.66	1.8
11	110.80	-0.5	1.0	109.75	1.6
12	110.51	-0.3	0.8	109.82	1.5
<i>Annual average</i>	<i>109.82</i>	<i>-</i>	<i>-</i>	<i>109.82</i>	<i>1.5</i>
2013 : 1	108.97	-1.4	0.2	109.84	1.3
2	107.17	-1.6	0.1	109.85	1.2
3	109.90	2.5	-0.2	109.83	1.0
4	110.41	0.5	-0.6	109.78	0.8
5	110.21	-0.2	-0.4	109.73	0.6
6	109.95	-0.2	-0.4	109.70	0.5
7	108.13	-1.7	-0.7	109.64	0.3
8	106.41	-1.6	-1.3	109.52	0.1
9	109.20	2.6	-1.1	109.42	-0.1
10	109.13	-0.1	-2.0	109.23	-0.4
11	107.64	-1.4	-2.9	108.97	-0.7
12	108.62	0.9	-1.7	108.81	-0.9
<i>Annual average</i>	<i>108.81</i>	<i>-</i>	<i>-</i>	<i>108.81</i>	<i>-0.9</i>
2014 : 1	107.37	-1.2	-1.5	108.68	-1.1
2	105.94	-1.3	-1.1	108.58	-1.2
3	108.42	2.3	-1.3	108.45	-1.3
4	108.92	0.5	-1.3	108.33	-1.3
5	108.05	-0.8	-2.0	108.15	-1.4
6	108.75	0.6	-1.1	108.05	-1.5
7	107.40	-1.2	-0.7	107.99	-1.5
8	106.09	-1.2	-0.3	107.96	-1.4
9	108.29	2.1	-0.8	107.88	-1.4
10	107.30	-0.9	-1.7	107.73	-1.4

Note: 1. The indices are calculated with infinite decimal figures and rounded up to two decimal figures when published.

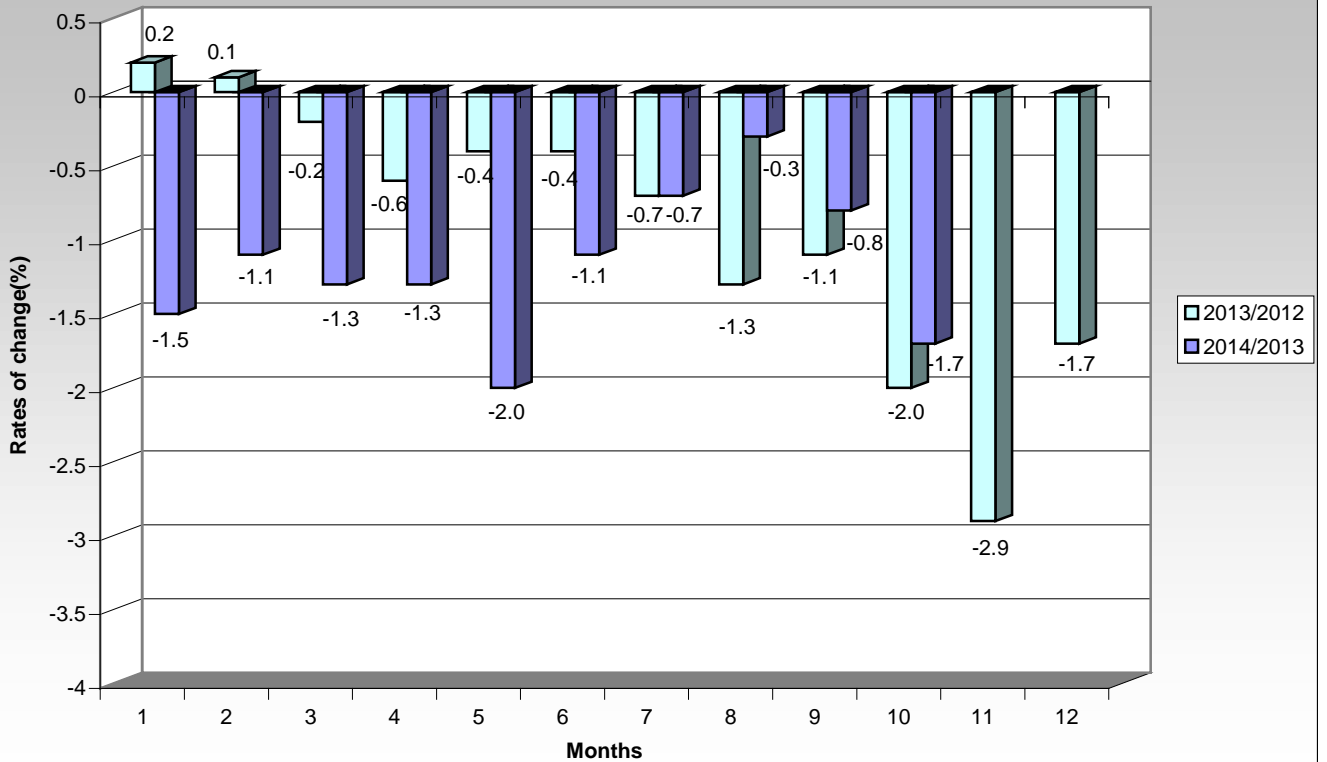
2. Percentage changes are calculated on the basis of indices with infinite decimal figures and rounded up to one decimal figure when published.

## DIAGRAMS

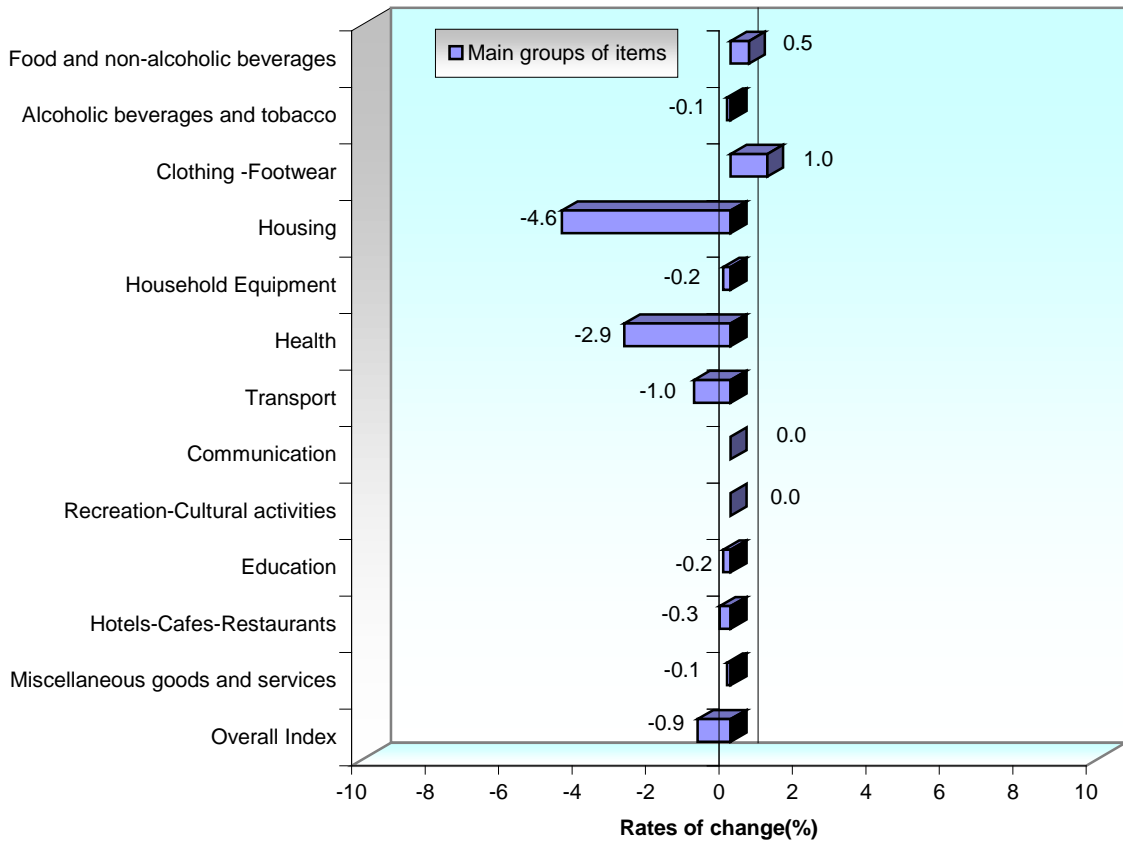
**Monthly rates of change (%) of the overall Consumer Price Index during the years 2013 and 2014**



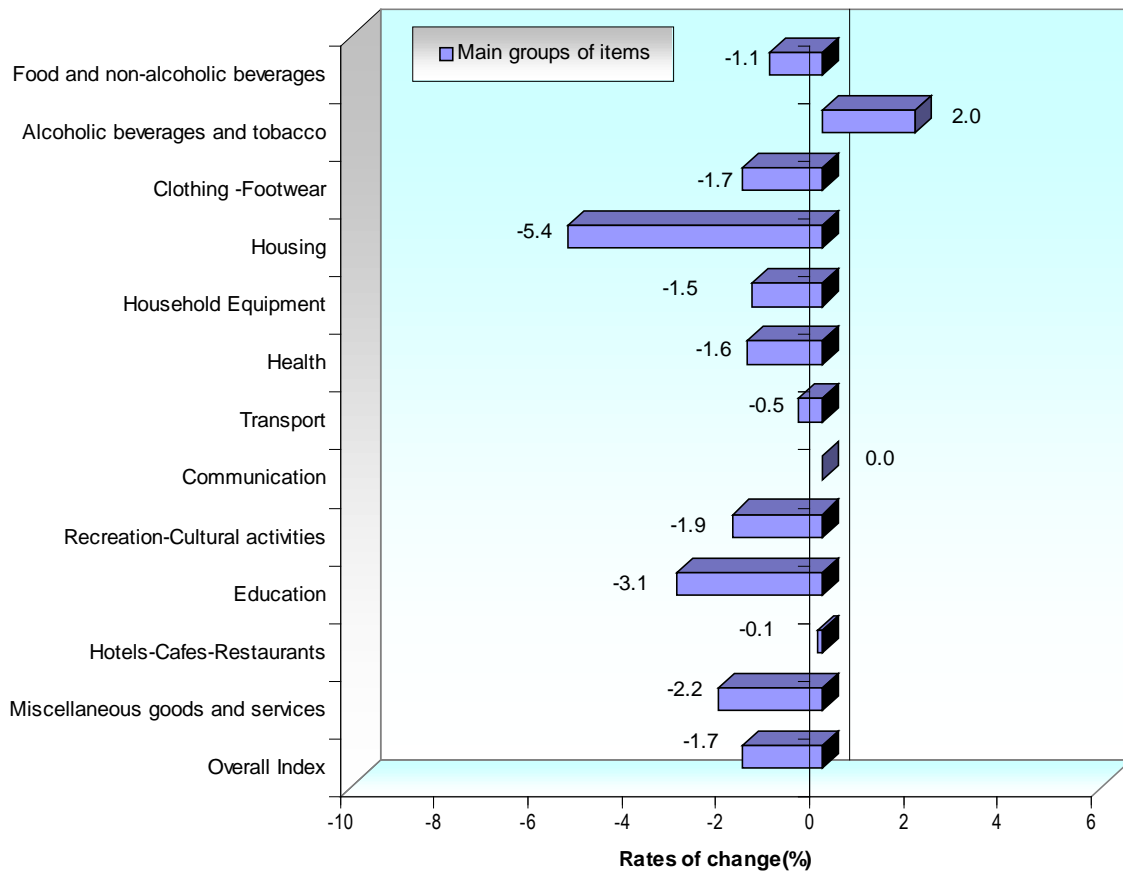
**Annual rates of change (%) of the overall Consumer Price Index during the years 2013 and 2014**



**Monthly rates of change (%) of the CPI between October 2014 and September 2014**



**Annual rates of change (%) of the CPI between October 2014 and October 2013**



## METHODOLOGICAL NOTES

<b>Generally</b>	The Consumer Price Index (CPI) in Greece is being compiled since 1959, by the Hellenic Statistical Authority (ELSTAT). Up to the year 2000, the CPI referred to the urban areas of the country, while from 2001 onwards it refers to the whole country.
<b>Purpose of the index</b>	The purpose of the Consumer Price Index is to measure the general level of prices of goods and services, purchased by the average Greek household.
<b>Legal basis</b>	Law 3832/10
<b>Reference period</b>	Month
<b>Base</b>	December of the previous year
<b>Reference year</b>	2009=100.0
<b>New CPI</b>	<p>Until 2013, the weights underlying the CPI were revised periodically (usually every five years) on the basis of the results of the latest, Household Budget Survey (HBS) which was conducted every 5 years. Until December 2013, the CPI was a fixed basis index with the reference year being 2009=100.0. The weights of the CPI were based on the results of the HBS 2008 adjusted to 2009 prices. From January 2014 onwards, the revised CPI index follows the chain linking method where new weights are introduced annually with every year having as a base the December of the previous year and they are estimated according to the most recent available data of Household Budget Survey, which is now conducted on an annual base. The revised CPI index, which is published, is recalculated by linking new and old CPI series together in December 2013, with reference year 2009=100.0 in order to maintain the continuity of the CPI time series.</p> <p>The new CPI adjusted on an annual basis to the latest consumption expenditure pattern of the private households of the country, ensures the representativity of goods and services, which compose the “basket” of purchases of the average household.</p>
<b>Geographical and population coverage of the CPI</b>	<p>The CPI refers to the whole of the country covering the urban, semi-urban and rural areas.</p> <p>As regards the population coverage of the Index, in terms of the weights, it covers the resident households of the territory excluding collective households (hospital homes for the elderly, boarding homes, prisons, etc.) and non-resident households (tourists, and expatriates visiting home) in the country.</p>
<b>Classification of items</b>	The grouping of the items (goods and services), of the CPI has been made according to the international classification COICOP (Classification of Individual Consumption by Purpose) adapted for the needs of the Harmonized Indices of Consumer Prices (HICP) of the EU Member-States.
<b>Weights of items</b>	From December 2013, the weights of items will be renewed every year, on the basis of the most recent available data from the Household Budget Survey. The weights are calculated the share (%) of the expenditures for each group, subgroup and item (good or service) to the total household expenditure of the average household.
<b>Price collection Cities -Population weights</b>	<p>The price collection of the items of CPI takes place in 24 cities, aiming at a representative coverage of the 13 Regions of the country. The selection criteria of the price collection cities are the size and the particularities of their markets, the possibility of continuous price collection and the comparability of the index and the required cost of price collection.</p> <p>The population weights of the price-collection cities derive from the data of the General Population Census for the year 2001. These weights are calculated as percentage (%) contribution of the population of each price collection city and of the greater area that the city represents, to the total population of the country.</p>
<b>Selection of items</b>	The composition of the “household basket” i.e. the selection of goods and services which are included in the calculation of CPI will be updated annually from December 2014 using the results of the latest available Household Budget Survey and other market research etc.. The chain linking methodology allows the change of items of household basket on an annual basis, in order to ensure the representativeness of items, which take part in the calculation of groups and subgroups of CPI.

**Price collection- Outlets** Prices for CPI's items are collected from retail sales outlets, enterprises providing services, street markets etc. (price collection outlets) which are considered representative of the branches of shops, where the households make their purchases in the 24 selected price collection cities. The new methodology allows the renewal of price collection sources in order to maintain their representativeness in the calculation of CPI.

Prices are collected by experienced and well-trained staff of ELSTAT. They visit the selected outlets within a certain time period of a month (monthly prices) or on a certain day of the week (weekly prices) and register the prices into special price collection forms (questionnaires). The collected prices correspond to the prices actually faced by the consumer.

**Specification- Substitution of items** All the items, for which prices are collected, are defined by the specification, that is the particular characteristics which determine the quality, the trade show and the identity, in general, of goods (such as brand, weight, package etc), in order to avoid any price variations attributable to differences in the specification.

When a specified item (good or service) is no longer available in the market or has ceased to be important, as regards consumption, then it is replaced by a newly specified item, which has taken its place in the market.

**Calculation of the Consumer Price Index** The Consumer Price Index is a Laspeyres-type index and it is calculated based on December of the previous year.

Implementation of formula in four-digit level of COICOP

Specifically, if the four-digit item h includes q price collected items, then its index in month t of year T,  $R_h^{t,T}$ , is given by the formula below:

$$R_h^{t,T} = R_h^{12,T-1} \left[ \frac{\sum_{i=1}^q w_i^T R_i^{t,T} / R_i^{12,T-1}}{\sum_{i=1}^q w_i^T} \right],$$

where:

$R_h^{12,T-1}$  = the index of the four-digit item h, in December of year T-1,

$w_i^T$  = the weight of the price collected item i, in year T,

$R_i^{t,T}$  = the index of the price collected item i, in month t of year T,

$R_i^{12,T-1}$  = the index of the price collected item i, in December of year T-1.

A similar methodology is followed for the calculation of indices in the upper levels (two-digit and three-digit) of COICOP and the calculation of the overall CPI as well.

**Publication of data** The available time series of the Consumer Price Index with the same reference year (2009=100.0) starts back from January 1959 onwards.

The CPI data are released each month in the anticipated press release to a pre-defined timetable, which is normally based on the previous years publication dates. These data is posted on the ELSTAT website ([www.statistics.gr](http://www.statistics.gr)), under the link "timeseries".

**References** Further information concerning the Consumer Price Index can be found in the Methodological Publication CPI (2009=100.0), and also in the information note for CPI of January 2014 which are posted on the homepage of ELSTAT ([www.statistics.gr](http://www.statistics.gr)).