



## PRESS RELEASE

### CONSUMER PRICE INDEX: April 2017, annual inflation 1.6%

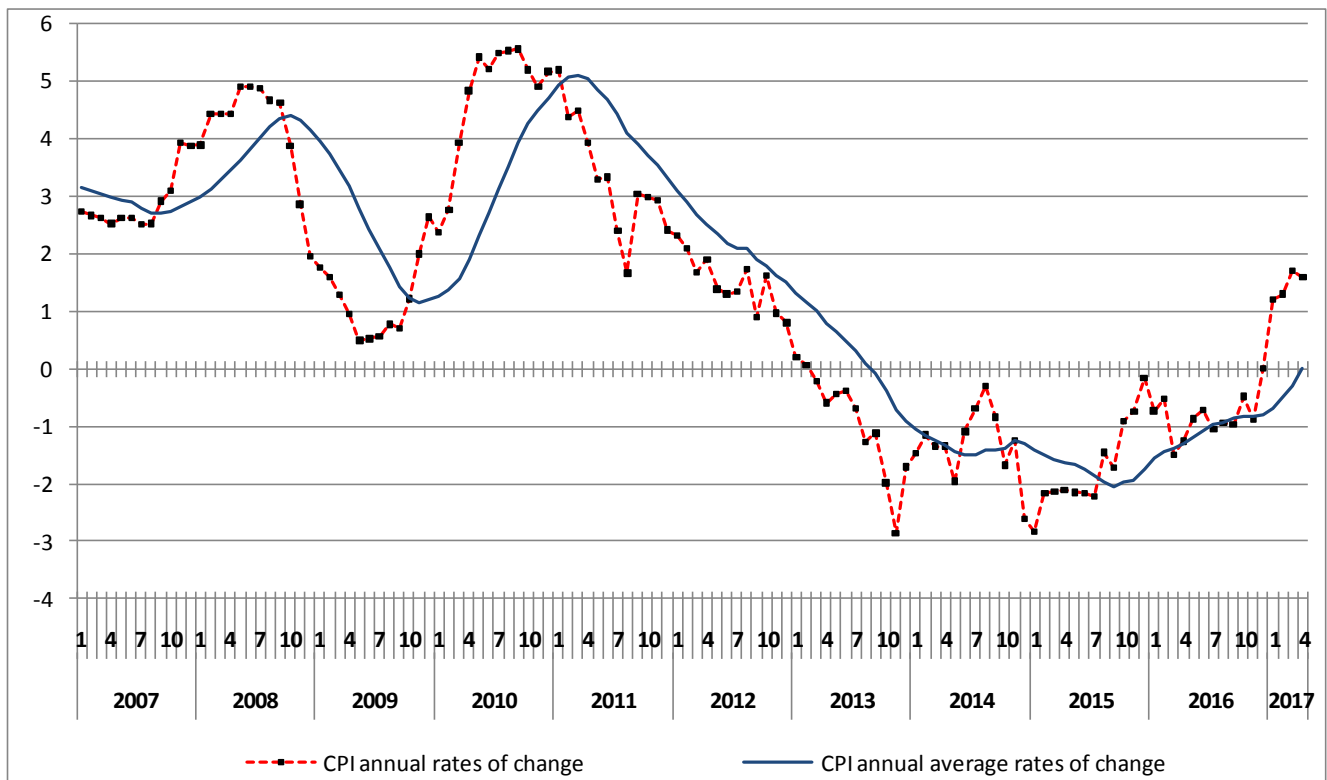
The evolution of the Consumer Price Index (CPI) of April 2017 (reference year 2009=100.0) is depicted as follows:

The CPI in April 2017 compared with April 2016 increased by 1.6%. In April 2016, the annual rate of change of the CPI was -1.3% (Table 2).

The CPI in April 2017 compared with March 2017, increased by 0.6%. In April 2016, the monthly rate of change of the CPI was 0.7% (Table 1).

The average CPI for the twelve - month period from May 2016 to April 2017, compared with the corresponding index for the period May 2015 to April 2016 remained unchanged. The annual rate of change of the average CPI between the twelve - month period May 2015 to April 2016 in comparison to the period May 2014 to April 2015 was -1.3% (Table 3).

**Graph 1. Annual and annual average rates of change (%) of CPI**

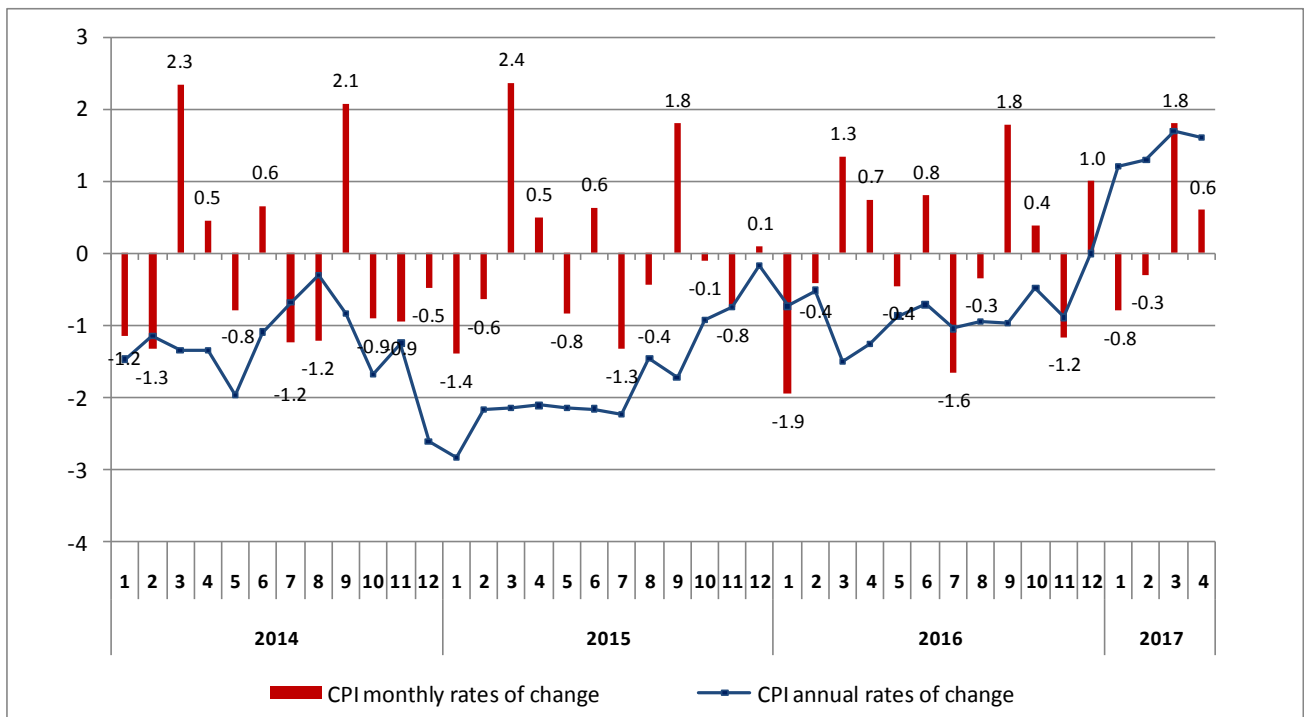


**Table 1. Monthly rates of change of CPI  
(Reference year: 2009=100.0)**

Main groups of goods and services	Weights HBS 2015 (%)	2017	2017	Rate of change %	2016	2016	Rate of change %
		April	March		April	March	
1. Food & non-Alcoholic Beverages	206.70	106.14	106.06	0.1	104.20	104.43	-0.2
2. Alcoholic Beverages & Tobacco	41.68	142.24	138.20	2.9	134.50	134.41	0.1
3. Clothing and Footwear	64.54	105.44	95.24	10.7	105.61	95.15	11.0
4. Housing	133.54	120.63	120.80	-0.1	116.76	116.59	0.2
5. Household Equipment	46.46	91.13	91.27	-0.2	94.11	94.43	-0.3
6. Health	77.02	96.70	96.74	0.0	99.47	99.43	0.0
7. Transport	144.09	120.80	121.64	-0.7	113.13	111.99	1.0
8. Communication	41.86	100.48	100.47	0.0	98.39	98.39	0.0
9. Recreation and Culture	41.17	90.41	90.42	0.0	91.61	91.52	0.1
10. Education	32.79	89.03	89.03	0.0	89.27	89.27	0.0
11. Hotels Cafés & Restaurants	102.82	106.95	106.43	0.5	104.96	104.69	0.3
12. Miscellaneous Goods & Services	67.36	93.53	94.10	-0.6	95.66	96.01	-0.4
<b>Overall Index</b>	<b>1000.00</b>	<b>107.01</b>	<b>106.33</b>	<b>0.6</b>	<b>105.28</b>	<b>104.51</b>	<b>0.7</b>

Note: The indices are rounded up to two decimal figures when published and percentage changes up to one decimal figure when published.

**Graph 2. Annual and monthly rates of change (%) of CPI**



**Table 2. Inflation - Annual rates of change of CPI  
(Reference year: 2009=100.0)**

**I: April 2017/2016**

Main groups of goods and services	April		Rate of change (%)	Effect
	2017	2016		
1. Food and non Alcoholic Beverages	106.14	104.20	1.9	0.3798
2. Alcoholic Beverages and Tobacco	142.24	134.50	5.8	0.3065
3. Clothing and Footwear	105.44	105.61	-0.2	-0.0107
4. Housing	120.63	116.76	3.3	0.4904
5. Household Equipment	91.13	94.11	-3.2	-0.1318
6. Health	96.70	99.47	-2.8	-0.2024
7. Transport	120.80	113.13	6.8	1.0490
8. Communication	100.48	98.39	2.1	0.0831
9. Recreation and Culture	90.41	91.61	-1.3	-0.0469
10. Education	89.03	89.27	-0.3	-0.0072
11. Hotels Cafés and Restaurants	106.95	104.96	1.9	0.1936
12. Miscellaneous Goods and Services	93.53	95.66	-2.2	-0.1363
<b>Overall Index</b>	<b>107.01</b>	<b>105.28</b>	<b>1.6</b>	

**II: April 2016/2015**

Main groups of goods and services	April		Rate of change (%)	Effect
	2016	2015		
1. Food and non Alcoholic Beverages	104.20	105.28	-1.0	-0.2202
2. Alcoholic Beverages and Tobacco	134.50	132.59	1.4	0.0766
3. Clothing and Footwear	105.61	108.03	-2.2	-0.1482
4. Housing	116.76	122.63	-4.8	-0.7115
5. Household Equipment	94.11	95.43	-1.4	-0.0635
6. Health	99.47	96.00	3.6	0.2456
7. Transport	113.13	118.48	-4.5	-0.6142
8. Communication	98.39	98.43	0.0	-0.0016
9. Recreation and Culture	91.61	92.90	-1.4	-0.0538
10. Education	89.27	90.41	-1.3	-0.0358
11. Hotels Cafés and Restaurants	104.96	102.20	2.7	0.2699
12. Miscellaneous Goods and Services	95.66	97.13	-1.5	-0.0975
<b>Overall Index</b>	<b>105.28</b>	<b>106.63</b>	<b>-1.3</b>	

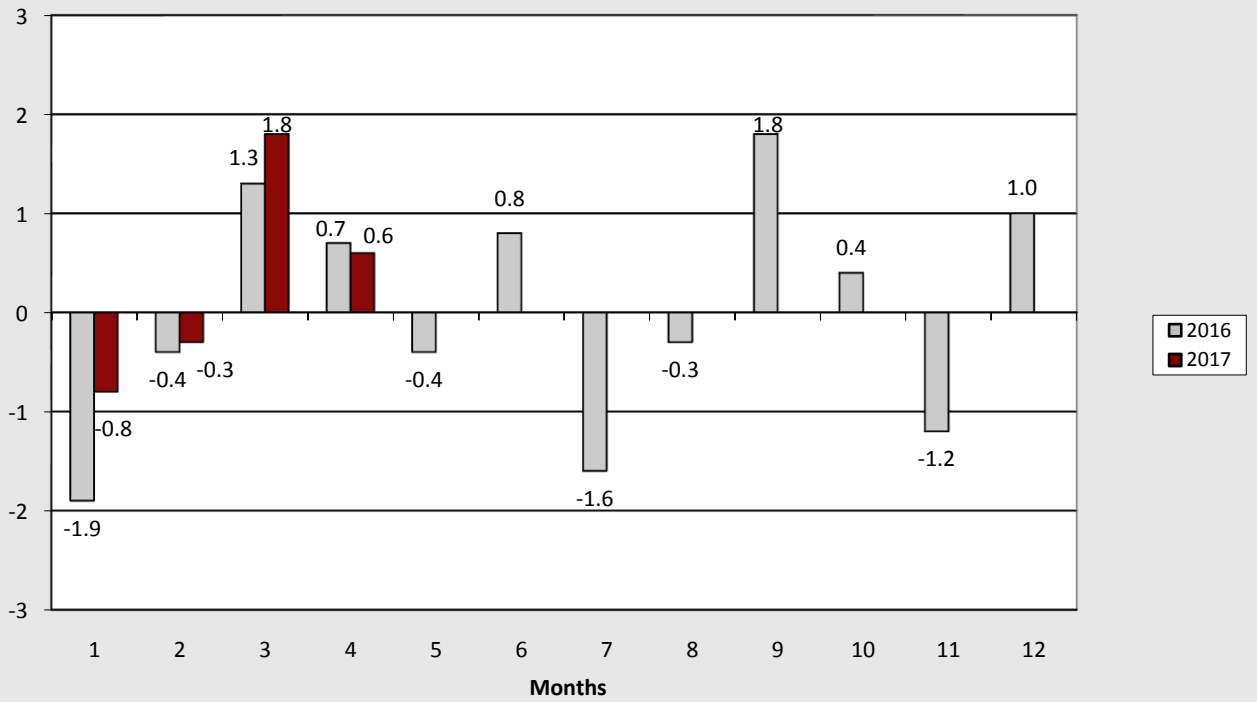
Note: The indices are rounded up to two decimal figures when published and percentage changes up to one decimal figure when published.

**Table 3. Comparisons of the overall CPI  
(Reference year: 2009=100.0)**

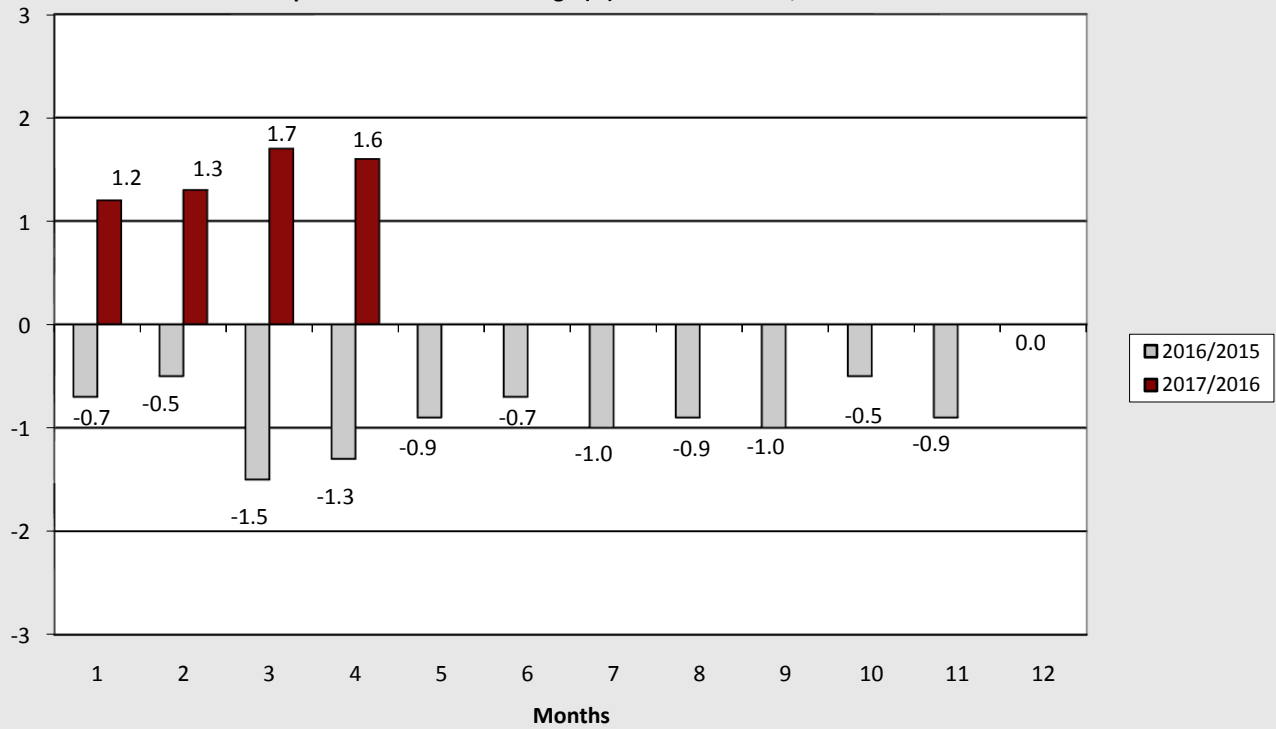
Year and month	Overall Index	Monthly rates of change %	Annual rates of change Inflation %	Annual average index (moving average)	Annual average rates of change %
<b>2014:</b> 1	107.37	-1.2	-1.5	108.68	-1.1
2	105.94	-1.3	-1.1	108.58	-1.2
3	108.42	2.3	-1.3	108.45	-1.3
4	108.92	0.5	-1.3	108.33	-1.3
5	108.05	-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
11	106.30	-0.9	-1.2	107.62	-1.2
12	105.79	-0.5	-2.6	107.38	-1.3
<b>Annual average</b>	<b>107.38</b>	-	-	<b>107.38</b>	<b>-1.3</b>
<b>2015:</b> 1	104.32	-1.4	-2.8	107.13	-1.4
2	103.65	-0.6	-2.2	106.94	-1.5
3	106.10	2.4	-2.1	106.75	-1.6
4	106.63	0.5	-2.1	106.56	-1.6
5	105.73	-0.8	-2.1	106.36	-1.7
6	106.40	0.6	-2.2	106.17	-1.7
7	105.00	-1.3	-2.2	105.97	-1.9
8	104.54	-0.4	-1.5	105.84	-2.0
9	106.42	1.8	-1.7	105.68	-2.0
10	106.32	-0.1	-0.9	105.60	-2.0
11	105.51	-0.8	-0.7	105.54	-1.9
12	105.61	0.1	-0.2	105.52	-1.7
<b>Annual average</b>	<b>105.52</b>	-	-	<b>105.52</b>	<b>-1.7</b>
<b>2016:</b> 1	103.56	-1.9	-0.7	105.46	-1.6
2	103.12	-0.4	-0.5	105.41	-1.4
3	104.51	1.3	-1.5	105.28	-1.4
4	105.28	0.7	-1.3	105.17	-1.3
5	104.81	-0.4	-0.9	105.09	-1.2
6	105.65	0.8	-0.7	105.03	-1.1
7	103.91	-1.6	-1.0	104.94	-1.0
8	103.55	-0.3	-0.9	104.85	-0.9
9	105.39	1.8	-1.0	104.77	-0.9
10	105.80	0.4	-0.5	104.73	-0.8
11	104.57	-1.2	-0.9	104.65	-0.8
12	105.64	1.0	0.0	104.65	-0.8
<b>Annual average</b>	<b>104.65</b>	-	-	<b>104.65</b>	<b>-0.8</b>
<b>2017:</b> 1	104.76	-0.8	1.2	104.75	-0.7
2	104.46	-0.3	1.3	104.86	-0.5
3	106.33	1.8	1.7	105.01	-0.3
4	107.01	0.6	1.6	105.16	0.0

Note: The indices are rounded up to two decimal figures when published and percentage changes up to one decimal figure when published.

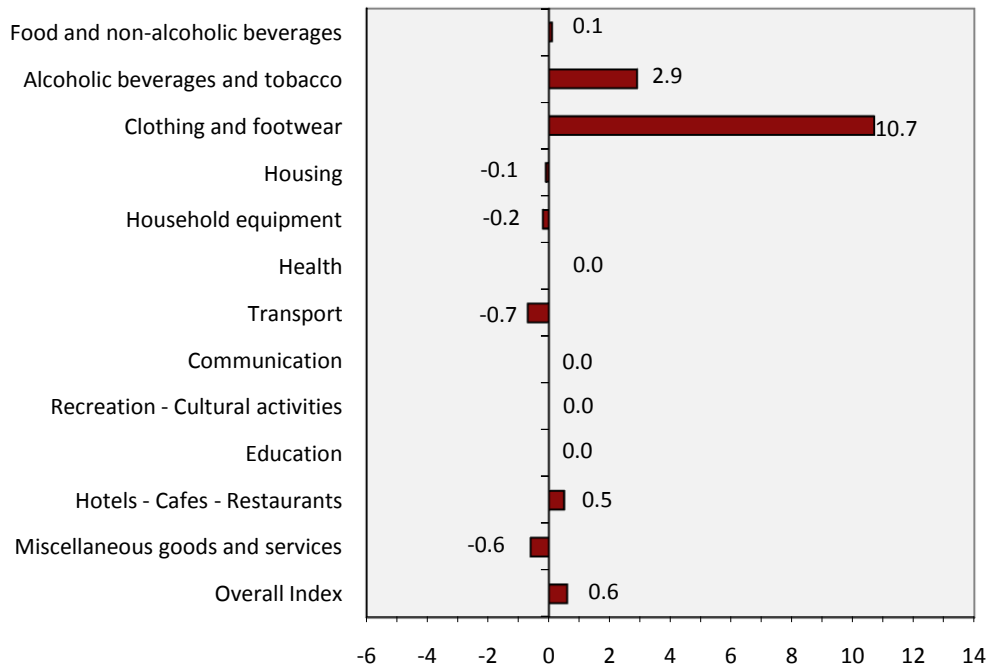
**Graph 3. Monthly rates of change (%) of the overall CPI, 2016 and 2017**



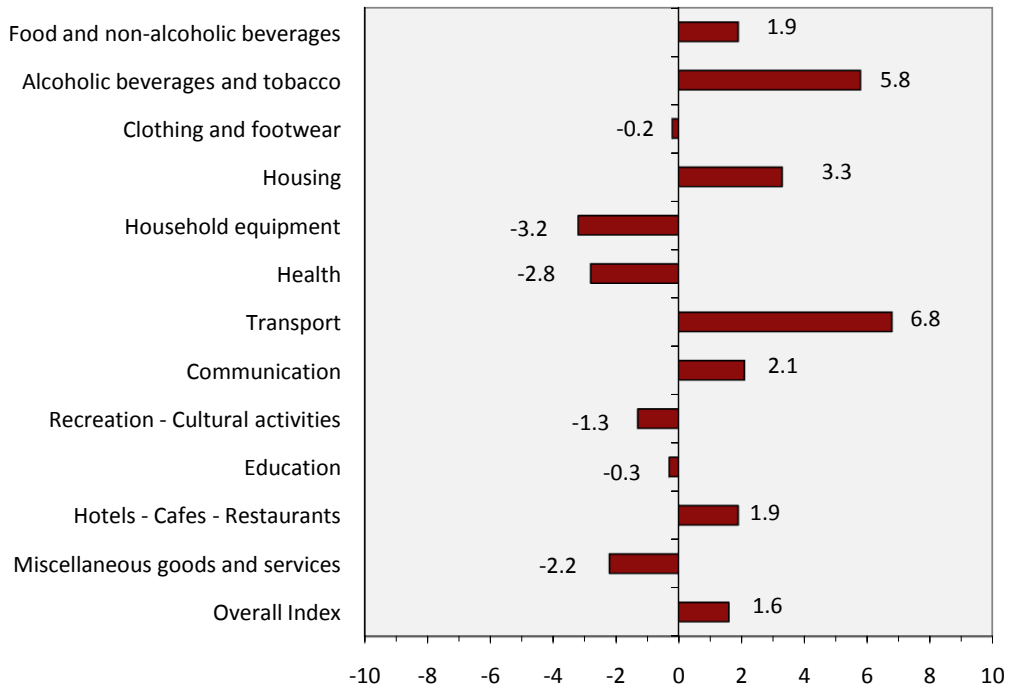
**Graph 4. Annual rates of change (%) of the overall CPI, 2016 and 2017**



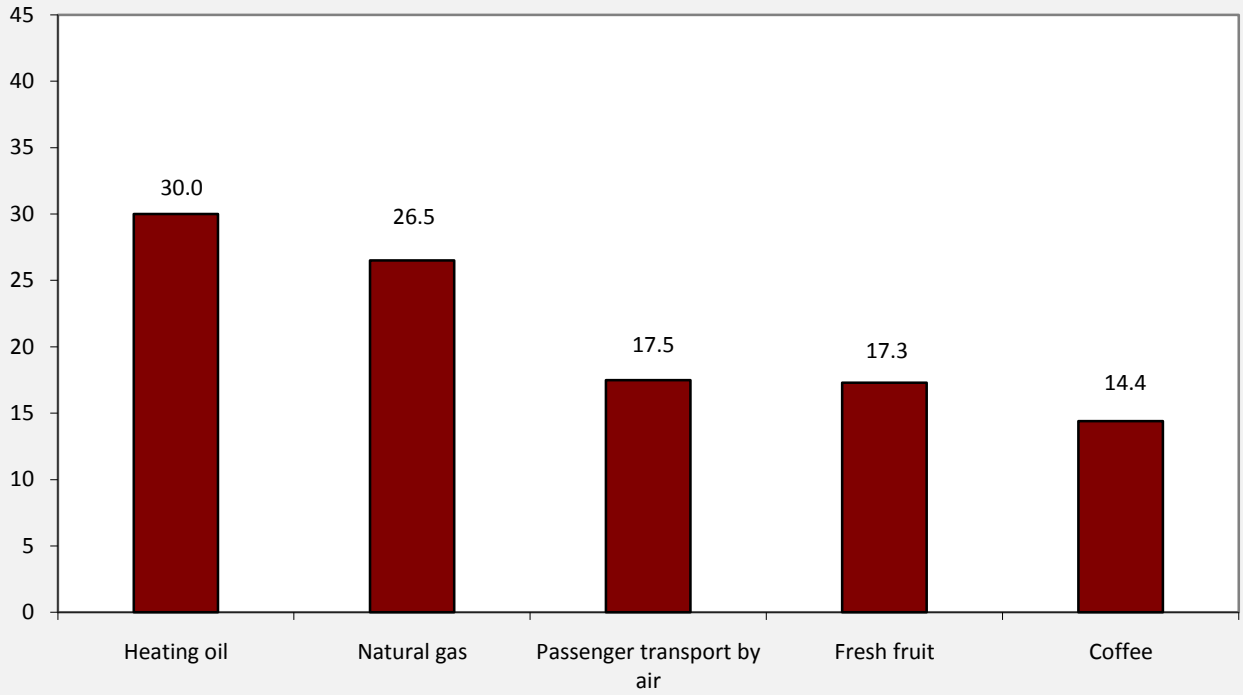
**Graph 5. Monthly rates of change (%) of CPI between April 2017 and March 2017**



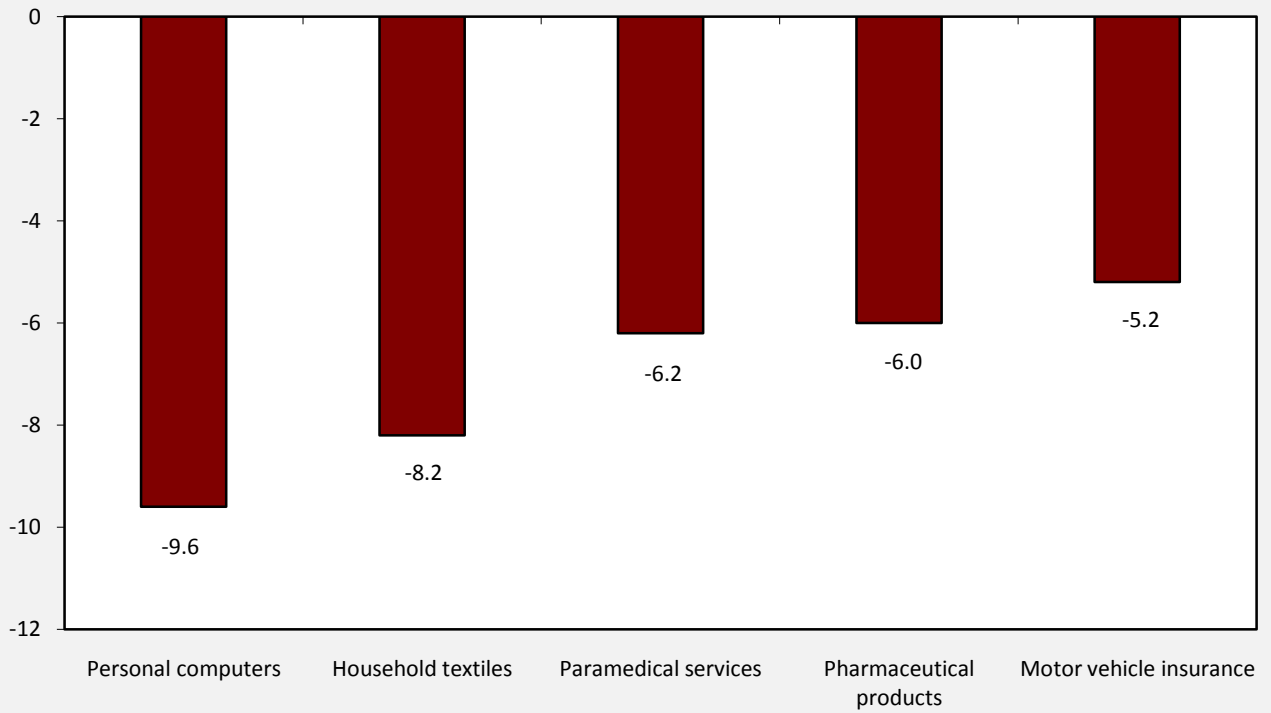
**Graph 6. Annual rates of change (%) of CPI between April 2017 and April 2016**



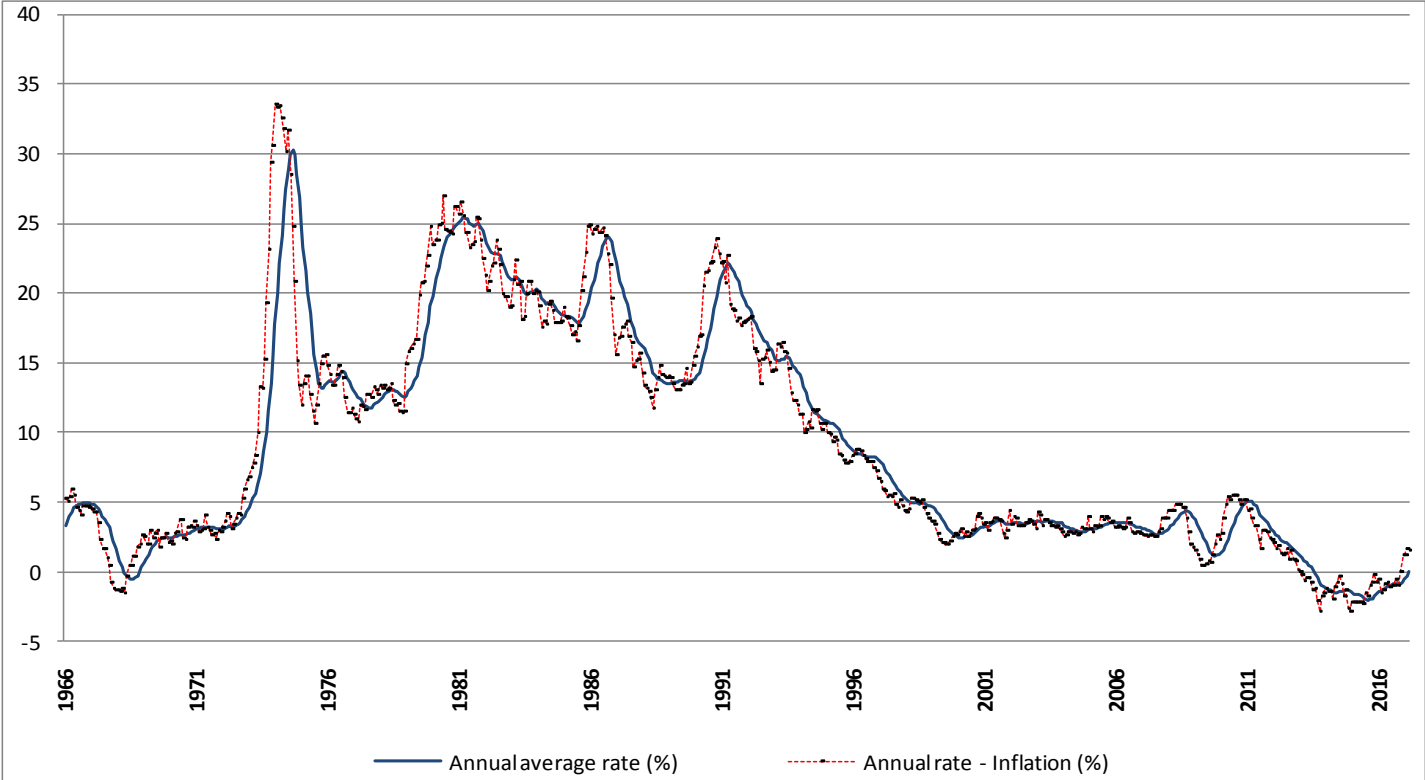
Graph 7. CPI highest annual increases (%)



Graph 8. CPI highest annual decreases (%)



Graph 9. Historical evolution of CPI, 1966 - 2017





## METHODOLOGICAL NOTES

<b>Generally</b>	The Consumer Price Index (CPI) is compiled by the Hellenic Statistical Authority (ELSTAT) since 1959. Until the year 2000, the CPI referred to the urban areas of the country, while from 2001 onwards it refers to the whole country covering urban, semi urban and rural areas.
<b>Purpose of the index</b>	The purpose of the CPI is to measure the general level of prices of goods and services purchased by the average Greek household.
<b>Legal basis</b>	<a href="#">Law 3832/2010</a> .
<b>Reference period</b>	Month.
<b>Base</b>	December of the previous year.
<b>Reference year</b>	2009=100.0.
<b>Chain linking Index</b>	The CPI index follows the chain linking method, introducing new weights annually and having as a base December of the previous year. The weights are estimated on the basis of the most recent available data of the Household Budget Survey (HBS), extrapolated to the prices of December. The CPI, adjusted on an annual basis to the most recent consumption expenditure pattern of the private households of the country, ensures the representativeness of goods and services, which compose the "basket" of purchases of the average household.
<b>Geographical and population coverage of the CPI</b>	The CPI refers to the whole country and covers the resident households of the territory excluding collective households (hospitals, homes for the elderly, boarding houses, prisons, etc.) and non-resident households (tourists) in the country.
<b>Classification of items</b>	The classification of the CPI items (goods and services) is based on the international classification COICOP (Classification of Individual consumption by Purpose) as this has been adapted to the needs of the HICPs of the EU Member States with the COICOP5/HICP classification.
<b>Weights of items</b>	The weights of CPI items are updated every year, on the basis of the most recent available data of HBS. The weights are calculated as 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</b>	The CPI prices are collected in 27 cities with representative markets for the 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, the comparability of the index and the cost of price collection.
<b>Population weights</b>	The calculation of the population weights by regions is based on the population data of the 2011 General Population Census and the expenditure data of the latest available HBS by regions.
<b>Selection of items</b>	<a href="#">The composition of the "household basket"</a> i.e. the selection of goods and services which are included in the calculation of CPI is updated annually, using the results of the latest available HBS, other market research, etc. The chain linking methodology allows the change of items of the household basket on an annual basis, in order to ensure the representativeness of the items involved in the calculation of groups and subgroups of CPI.
<b>Price collection-Outlets</b>	The prices collection outlets are retail stores, enterprises providing services, street markets etc. which are considered representative of the branches of shops, where the households make their purchases in the 27 selected cities. The methodology allows the renewal of price collection sources, annually, in order to maintain their representativeness in the calculation of CPI. Prices are collected by employees of ELSTAT as well as by external price collectors, hired on a temporary basis. They pay a visit to the selected outlets within a specific time period of a month (monthly prices) or on a specific day of the week (weekly prices). The collected prices correspond to the prices actually faced by the consumer.
<b>Specification-Substitution of items</b>	All the collected items are defined by the specification, that is the particular characteristics which determine the quality, the trade show and the identity, in general, of good products (such as brand, weight, package etc), in order to avoid any price variations attributable to differences in the specification. Once a specified item (good or service) is no longer available in the market or has ceased to be important, as regards consumption, it is substituted 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 five-digit level of COICOP5

Specifically, if the five-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 following formula:

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

where:

$R_h^{12,T-1}$  = the index of the five-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, three-digit and four-digit) of COICOP5 and the calculation of the overall CPI as well.

**Publication of data** The published CPI time series (reference year 2009=100.0), covers the period from January 1959 onwards. The CPI data are released each month as scheduled, in accordance with the Press Releases Calendar of ELSTAT, with the [Press Release and the tables](#).

**References** Further information concerning the methodology and the compilation of the CPI is available in the [Methodological Publication CPI \(2009=100.0\)](#) and the [Single Integrated Metadata Structure \(SIMS\)](#).