





12 December 2018

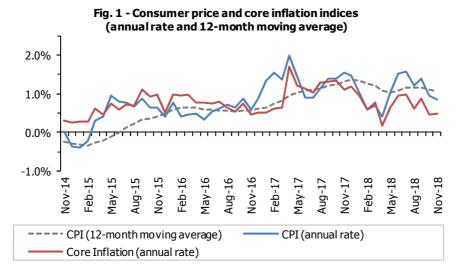
Consumer Price Index November 2018

## CPI annual rate of change stood at 0.9%

The Consumer Price Index (CPI) annual rate moved from 1.0% in October to 0.9% in November 2018. The annual core inflation rate, which excludes energy and unprocessed food products components, was 0.5% (0.4% in the previous month).

The CPI monthly rate was -0.4% (-0.1% in the previous month and -0.3% in November 2017), while the CPI 12-month average rate was 1.1% (the same value as in the previous month).

In November 2018, the Portuguese Harmonised Index of Consumer Prices (HICP) annual rate of change was 0.9% (0.8% in the previous month), 1.1 percentage points (p.p.) below the rate estimated by Eurostat for the Euro area (in October this difference was 1.4 p.p.).



Consumer Price Index (base 100 = 2012)

In November 2018, the annual inflation rate measured by the CPI was 0.9%, 0.1 p.p. below the rate of the previous month (see Fig. 1). When rounded to one decimal place, this figure coincides with the value provided in the flash estimate, which was released on November 30<sup>th</sup> (for further details on the differences between estimated and final CPI figures, see table 3 on page 4 of this press release).

The annual core inflation rate, which excludes energy and unprocessed food products components, was 0.5% (0.4% in the previous month). The unprocessed food aggregate recorded an annual rate of 0.6% in November (-0.1% in October) while energy presented an annual rate of 4.7% (7.3% in the previous month).

The largest upward pressure on the overall annual rate of change came from changes in the prices of *Transports* and *Housing, water, electricity, gas and other fuels,* while downward pressures came from decreases in the prices of *Clothing and footwear* and *Recreation and culture*.

Consumer Price Index - November 2018



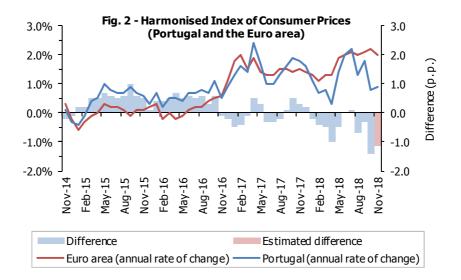
In November, the CPI monthly rate was -0.4% (-0.1% in the previous month and -0.3% in November 2017). The main downward contribution was observed in the price of Restaurants and hotels. Conversely, the major upward contribution to this result came from changes in the prices of *Food and non-alcoholic beverages*.

The CPI 12-month average rate was 1.1% in November (the same value as the previous month).

## **Harmonised Index of Consumer Prices (base 100 = 2015)**

In November, the Portuguese HICP annual rate was 0.9% (0.8% in the previous month) while the monthly rate was -1.0% (-0.5% in October and -1.1% in November 2017).

In October 2018, the annual rate of change of the Portuguese HICP was 1.4 p.p. below the Euro area rate. In November, this difference is estimated to have decreased to 1.1 p.p..



The HICP 12-month average rate was 1.2% in November (1.3% in the previous month).

## **Housing Rents**

In November, the annual change rate of the housing rents for the whole country was 2.7%, 0.2 p.p. higher than in the previous month. The highest increase was observed in the Lisboa and Algarve regions (3.3%), with all regions displaying positive rates of change.

For the same period, the monthly rate of change of the average value of rents per square meter for the whole country was 0.2% (the same value as in the previous month). The main increase was observed in the Algarve region (0.3%) and all the other regions presented positive rates.







#### **Consumer Price Index**

The Consumer Price Index (CPI) measures the change over time of the prices of a certain basket of goods and services bought by a "typical" consumer. The CPI has been designed to capture price changes and not to measure price levels.

The CPI is updated every year with the most recent information on prices and quantities. The 2018 CPI weighting structure and the sample of goods and services included in the basket are a result of the combination of three fundamental sources of information: results of the Portuguese National Accounts, complemented with the Household Budget Survey and the Census for more detailed levels of expenditure. Administrative data is also used.

The CPI is compiled through the aggregation of seven regional price indexes and the goods and services included in the index are grouped according to the Classification of individual consumption by purpose (COICOP).

#### Table 1: CPT - COTCOP Divisions

IUDI	E 1. CF1 COICOF DIVISIONS		
01	Food and non-alcoholic beverages	07	Transports
02	Alcoholic beverages and tobacco	80	Communications
03	Clothing and footwear	09	Recreation and culture
04	Housing, water, electricity, gas and other fuels	10	Education
05	Furnishings, household equipment and routine maintenance of the house	11	Restaurants and hotels
06	Health	12	Miscellaneous goods and services

### Monthly rate

The monthly rate is the change in the index of a certain month compared with the index of the previous month expressed as a percentage. Although up-to-date, this measure can be affected by seasonal and other effects.

#### **Annual rate**

The annual rate is the change in the index of a certain month compared with the index of the same month in the previous year expressed as a percentage. In the presence of a stable seasonal pattern, seasonal effects do not influence this measure.

### 12-month average rate

The 12-month average rate is the change in the average index of one year compared with the average index of the previous year expressed as a percentage. This moving average is less sensitive to transient changes in prices.

## Core inflation index (all items CPI excluding unprocessed food and energy products)

The core inflation index is compiled by excluding the prices of unprocessed food and energy products from the all items CPI. The primary objective of this index is to capture the underlying inflation pressures in the economy.

#### **Harmonised Index of Consumer Prices**

The Harmonised Index of Consumer Prices (HICP) is compiled in each member state of the European Union for the purposes of inflation comparisons across EU countries, as required by the Treaty on European Union<sup>1</sup>. This index plays an important role as a guideline for the achievement of the European System of Central Banks primary objective: price stability. In 1998, the European Central Bank adopted the HICP as "the most appropriate price measure" for its definition of price stability in the Euro area<sup>2</sup>.

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<sup>&</sup>lt;sup>1</sup> Article 109j and protocol on the convergence criteria referred to in that article.

<sup>&</sup>lt;sup>2</sup> A stability oriented monetary policy strategy for the ESCB". ECB press notice released on 13 October 1998.







The HICP is produced in each Member State following a harmonized methodology developed by experts in the field of price statistics, under the "Price Statistics Working Group" and related Task Forces. From the methodological point of view, there are no major differences between the HICP and CPI. However, the different scope of coverage leads to differences in the weighting structure, mainly in Restaurants and hotels. This is mostly an effect of the inclusion of non-residents expenditure ("tourists") in the HICP and the corresponding exclusion from the CPI.

Additional information on the methodology of the HICP is available at <a href="http://ec.europa.eu/eurostat/web/hicp">http://ec.europa.eu/eurostat/web/hicp</a>.

Table 2: CPI and HICP 2018 weighting structures

COIC	OP divisions	CPI	HICP
01	Food and non-alcoholic beverages	204.6	195.6
02	Alcoholic beverages and tobacco	36.5	35.7
03	Clothing and footwear	74.0	74.7
04	Housing, water, electricity, gas and other fuels	97.9	91.5
05	Furnishings, household equipment and routine maintenance of the house	60.8	58.8
06	Health	62.6	59.5
07	Transport	157.7	154.2
80	Communication	31.3	29.2
09	Recreation and culture	74.2	61.5
10	Education	15.2	14.1
11	Restaurants and hotels	86.7	132.3
12	Miscellaneous goods and services	98.6	92.7
00	All items	1,000 <sup>1</sup>	1,000 <sup>1</sup>

Due to rounding, the sum of the parts may not add exactly to 1,000.

### Presentation of data and rounding rules

Since the release of the January 2013 CPI indices are published with base 100 in the year 2012.

Due to rounding procedures, those indices may not reproduce exactly the published rates of change. However, it should be noted that the published rates prevail.

In this press release the descriptive analysis is based on rounded values to one decimal.

#### Differences between estimated and final values

In table 3, some descriptive statistics are presented for the differences between the estimated and final values of the annual rate for the last 24 months. The table also includes the differences for the last three months, in p.p..

**Table 3:** Differences between the estimated and final values of the annual rate

		erences nonths (p		· -	Differences last 3 months (p.p.)						
	Mean	Max	Min	Sep-18	Oct-18	Nov-18					
Total	-0.02	0.02	-0.09	-0.01	-0.09	-0.08					
All items excluding housing	-0.02	0.02	-0.09	-0.01	-0.09	-0.09					
All items excl. unproc. food and energy	-0.02	0.02	-0.15	-0.01	-0.15	-0.07					
Unprocessed food	-0.04	0.05	-0.27	0.00	0.00	-0.16					
Energy	0.02	0.26	-0.14	-0.01	-0.02	-0.14					

#### **Next press releases**

The December 2018 flash estimate will be available on December 31st, 2018.

The December 2018 CPI/HICP will be released on January 11<sup>th</sup>, 2019.

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### Annex:

# CPI rate of change (index division and all items CPI)

							visions <sup>(1)</sup>						All-item CPI
	01	02	03	04	05	06	07	08	09	10	11	12	
2015	1.01	4.00	2.02	0.00	0.67		nual averag		0.60	0.65	1.01	0.43	0.40
2015	1.01	4.09	-2.02	0.23	0.67	0.41	-0.99	4.12	-0.63	0.65	1.31	0.42	0.49
2016	0.49	2.61	-0.39	0.39	0.43	-0.61	-0.56	3.17	1.02	0.89	2.21	0.60	0.61
2017	1.53	2.57	-2.39	0.59	-0.45	0.44	3.06	2.60	1.42	0.95	3.73	0.83	1.37
							Annual rat						
2016 November	0.49	2.05	-1.36	0.28	0.04	-0.62	0.68	4.07	1.21	0.81	1.76	-0.01	0.58
December	0.62	2.28	-0.93	0.61	-0.35	-0.84	1.89	5.18	0.91	0.82	1.85	0.42	0.88
2017 January	1.33	2.40	-0.69	0.49	-0.19	-0.47	5.38	2.47	1.38	0.85	1.61	-0.13	1.33
February	2.37	2.57	-1.83	0.11	-0.19	-0.27	5.89	1.92	0.83	0.85	1.89	0.44	1.55
March	2.68	3.73	-1.72	0.31	-0.83	-0.26	3.09	2.43	0.99	0.86	2.02	0.28	1.37
April	1.97	3.29	-2.01	0.15	-0.52	0.73	4.58	3.07	2.70	0.85	5.70	0.41	1.98
May	2.07	3.03	-1.77	0.05	-0.23	0.48	1.09	3.26	2.15	0.85	4.91	1.14	1.45
June	0.22	2.21	-1.64	-0.22	-0.55	0.45	1.52	3.58	2.13	0.83	3.51	0.80	0.91
July	0.31	2.26	-2.47	0.51	-0.79	0.60	1.09	3.69	2.54	0.85	3.68	0.86	0.90
August	0.37	2.25	-1.90	0.65	-0.57	0.64	1.73	3.83	2.79	0.85	3.91	1.12	1.14
September	1.12	2.61	-3.44	1.33	-0.45	0.70	2.61	3.09	1.53	0.87	4.48	1.25	1.39
October	1.32	1.88	-3.70	1.18	-0.44	0.83	2.60	2.46	-0.19	1.21	6.01	1.43	1.39
November	2.43	2.63	-3.63	1.26	-0.40	0.84	3.57	1.47	0.16	1.23	3.77	1.19	1.55
December	2.28	2.04	-3.43	1.31	-0.26	1.02	3.83	0.12	0.13	1.24	3.02	1.12	1.47
2018 January	1.45	2.31	-4.68	1.48	-1.02	0.74	3.23	0.59	-0.18	1.23	2.49	1.20	1.03
February	0.45	0.70	-2.44	1.66	-0.93	1.00	1.02	0.78	-0.07	1.22	2.37	0.95	0.58
March	0.30	1.24	-4.43	1.44	-0.06	1.07	1.90	0.50	0.77	1.22	2.51	0.98	0.69
April	0.92	2.25	-3.67	1.56	-0.43	0.97	0.76	0.41	-0.61	1.19	0.08	1.04	0.40
May	0.70	2.28	-3.26	2.02	-0.85	1.16	3.80	0.44	-0.70	1.18	2.87	0.25	1.04
June	1.24	2.88	-2.74	2.32	-0.25	1.33	4.06	0.91	-0.03	1.20	3.82	0.56	1.52
July	1.19	2.87	-2.81	2.60	-0.48	1.19	3.98	0.46	0.00	1.24	4.82	0.65	1.58
August	0.90	2.40	-2.46	2.65	-0.31	1.22	4.00	0.42	0.49	1.26	1.11	0.48	1.22
September	0.84	2.15	-3.60	2.66	-0.35	1.19	4.62	0.03	0.35	1.28	3.30	0.57	1.40
October	0.30	3.17	-3.69	2.68	-0.20	0.98	4.84	0.12	-0.52	1.15	-0.64	0.92	0.96
November	0.28	2.22	-3.64	2.71	-0.09	1.01	3.10	0.10	-0.77	1.21	1.30	1.13	0.86
Note:	(1) The nam	nes of the div	isions are giv	en in the ex	planatory no	tes.							
Source:	INE - Portug	nal											

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## HICP rate of change (international comparison)(1)

•	EA- 19 <sup>(2)</sup>	EICP (3)	BE	BG	CZ	DK	DE	EE	EL	ES	FR	HR	IE	п	CY	LV	LT	LU	HU	МТ	NL	AT	PL	PT	RO	SI	SK	FI	SE	UK
														A	nnual av	erage ra	te													
2015	0.0	0.0	0.6	-1.1	0.3	0.2	0.1	0.1	-1.1	-0.6	0.1	-0.3	0.0	0.1	-1.5	0.2	-0.7	0.1	0.1	1.2	0.2	0.8	-0.7	0.5	-0.4	-0.8	-0.3	-0.2	0.7	0.0
2016	0.2	0.3	1.8	-1.3	0.6	0.0	0.4	0.8	0.0	-0.3	0.3	-0.6	-0.2	-0.1	-1.2	0.1	0.7	0.0	0.4	0.9	0.1	1.0	-0.2	0.6	-1.1	-0.2	-0.5	0.4	1.1	0.7
2017	1.5	1.7	2.2	1.2	2.4	1.1	1.7	3.7	1.1	2.0	1.2	1.3	0.3	1.3	0.7	2.9	3.7	2.1	2.4	1.3	1.3	2.2	1.6	1.6	1.1	1.6	1.4	0.8	1.9	2.7
	Annual rate																													
2016 November	0.6	0.6	1.7	-0.8	1.6	0.1	0.7	1.4	-0.2	0.5	0.7	0.2	-0.2	0.1	-0.8	1.2	1.1	0.6	1.1	0.8	0.4	1.5	0.2	0.5	-0.2	0.7	-0.2	0.6	1.3	1.2
December	1.1	1.2	2.2	-0.5	2.1	0.3	1.7	2.4	0.3	1.4	0.8	0.7	-0.2	0.5	0.1	2.1	2.0	1.6	1.8	1.0	0.7	1.6	0.9	0.9	-0.1	0.6	0.2	1.1	1.7	1.6
2017 January	1.8	1.7	3.1	0.4	2.3	0.7	1.9	2.8	1.5	2.9	1.6	0.9	0.2	1.0	0.7	2.9	2.5	2.5	2.4	1.4	1.6	2.1	1.4	1.3	0.3	1.5	0.8	0.9	1.5	1.8
February	2.0	2.0	3.3	0.9	2.6	0.9	2.2	3.4	1.4	3.0	1.4	1.4	0.3	1.6	1.4	3.2	3.2	2.7	2.9	1.2	1.7	2.4	1.9	1.6	0.5	2.5	1.2	1.4	1.9	2.3
March	1.5	1.6	2.5	1.0	2.6	0.9	1.5	3.0	1.7	2.1	1.4	1.1	0.6	1.4	1.5	3.3	3.2	2.5	2.7	1.2	0.6	2.1	1.8	1.4	0.4	2.0	1.0	0.9	1.4	2.3
April	1.9	2.0	2.7	1.7	2.1	1.0	2.0	3.6	1.6	2.6	1.4	1.4	0.7	2.0	2.1	3.3	3.5	2.6	2.3	1.1	1.4	2.3	1.8	2.4	0.6	1.7	0.8	1.0	2.0	2.7
May	1.4	1.6	1.9	1.4	2.5	0.7	1.4	3.5	1.5	2.0	0.9	1.0	0.0	1.6	0.9	2.7	3.2	1.9	2.1	1.1	0.7	2.1	1.5	1.7	0.5	1.5	1.1	0.9	1.8	2.9
June	1.3	1.5	1.5	1.1	2.4	0.4	1.5	3.1	0.9	1.6	0.8	1.1	-0.6	1.2	0.9	3.1	3.5	1.5	2.0	1.0	1.0	2.0	1.3	1.0	0.7	0.9	1.0	0.9	1.8	2.6
July	1.3	1.5	1.8	0.6	2.4	1.5	1.5	3.9	0.9	1.7	0.8	1.2	-0.2	1.2	-0.1	2.6	4.1	1.8	2.2	1.2	1.5	2.0	1.4	1.0	0.9	1.2	1.5	0.6	2.3	2.6
August	1.5	1.7	2.0	0.7	2.4	1.5	1.8	4.2	0.6	2.0	1.0	1.5	0.4	1.4	0.5	3.2	4.6	2.3	2.7	1.2	1.5	2.1	1.4	1.3	0.6	1.4	1.6	0.8	2.2	2.9
September	1.5	1.8	2.0	1.3	2.5	1.6	1.8	3.9	1.0	1.8	1.1	1.6	0.2	1.3	0.1	3.0	4.6	2.0	2.5	1.2	1.4	2.5	1.6	1.6	1.3	1.4	1.8	0.8	2.2	3.0
October	1.4	1.7	1.8	1.5	2.8	1.4	1.5	4.0	0.5	1.7	1.2	1.6	0.5	1.1	0.4	2.7	4.2	2.0	2.2	1.5	1.3	2.4	1.6	1.9	2.0	1.3	1.8	0.5	1.7	3.0
November	1.5	1.8	2.1	1.9	2.5	1.3	1.8	4.5	1.1	1.8	1.2	1.6	0.5	1.1	0.2	2.7	4.2	2.0	2.6	1.5	1.5	2.4	2.0	1.8	2.6	1.4	2.1	0.9	1.9	3.1
December	1.4	1.7	2.1	1.8	2.2	8.0	1.6	3.8	1.0	1.2	1.2	1.3	0.5	1.0	-0.4	2.2	3.8	1.6	2.2	1.3	1.2	2.3	1.7	1.6	2.6	1.9	2.0	0.5	1.7	3.0
2018 January	1.3	1.6	1.8	1.3	2.1	0.6	1.4	3.6	0.2	0.7	1.5	1.2	0.3	1.2	-1.5	2.0	3.6	1.3	2.1	1.2	1.5	1.9	1.6	1.1	3.4	1.7	2.6	0.8	1.6	3.0
February	1.1	1.4	1.5	1.5	1.6	0.5	1.2	3.2	0.4	1.2	1.3	0.9	0.7	0.5	-0.4	1.8	3.2	1.1	1.9	1.3	1.3	1.9	0.7	0.7	3.8	1.4	2.2	0.6	1.6	2.7
March	1.3	1.5	1.5	1.9	1.6	0.4	1.5	2.9	0.2	1.3	1.7	1.2	0.5	0.9	-0.4	2.3	2.5	1.1	2.0	1.3	1.0	2.0	0.7	0.8	4.0	1.5	2.5	0.9	2.0	2.5
April	1.3	1.5	1.6	1.7	1.8	0.7	1.4	2.9	0.5	1.1	1.8	1.4	-0.1	0.6	-0.3	2.1	2.2	1.3	2.4	1.4	1.0	2.0	0.9	0.3	4.3	1.9	3.0	0.8	1.8	2.4
May	1.9	2.0	2.3	2.3	2.0	1.0	2.2	3.1	0.8	2.1	2.3	1.8	0.7	1.0	1.0	2.4	2.9	2.1	2.9	1.7	1.9	2.1	1.2	1.4	4.6	2.2	2.7	1.0	2.0	2.4
June	2.0	2.1	2.6	3.0	2.4	1.1	2.1	3.9	1.0	2.3	2.3	2.2	0.7	1.4	1.7	2.7	2.6	2.4	3.2	2.0	1.7	2.3	1.4	2.0	4.7	2.3	2.9	1.2	2.1	2.4
July	2.1 2.0	2.2	2.7 2.6	3.6 3.7	2.2	0.9 0.8	2.1 1.9	3.3 3.5	0.8	2.3 2.2	2.6 2.6	2.2	1.0 0.9	1.9 1.6	1.4 1.7	2.7 2.8	2.3 1.8	2.5 2.4	3.4 3.4	2.1 2.4	1.9 1.9	2.3	1.4 1.4	2.2 1.3	4.3 4.7	2.1 2.0	2.6	1.4 1.4	2.2	2.5 2.7
August September	2.1	2.2 2.1 Rc	2.8	3.6	2.4	0.5	2.2	3.5	1.1	2.2	2.5	1.6	1.2	1.5	1.7	3.3	2.4	2.7	3.7	2.5	1.6	2.3	1.5	1.8	4.7	2.2	2.9	1.4	2.5	2.4
October	2.2	2.2	3.2	3.6	2.0	0.7	2.4	4.5	1.8	2.3	2.5	1.7	1.1	1.7	1.9	3.2	2.8	2.8	3.9	2.1	1.9	2.4	1.5	0.8	4.2	2.3	2.5	1.7	2.4	2.4
November	2.0 f	X	X	Х	X	X	2.2 f	х	1.3 f	1.7 f	2.2 f	X	X	1.7 f	1.5 f	2.9 f	2.4 f	2.6 f	X	1.3 f	X	X	1.1 f	0.9	x	2.1 f	2.1 f	1.4 f	X	x

Symbols: f estimated Po provisional Rc revised x not available

(1) From January 2006 onwards: base 100=2005; index rates of change calculated based on indexes rounded up to two decimal places.

(2) Member States belonging to the Euro area: EA-13 until December 2007, EA-15 until December 2008, EA-16 until December 2010, EA-17 until December 2013, EA-18 until December 2014, EA-19 from January 2015 (including Lithuania).

(3) European Index of Consumer Prices: EU-15 until April 2004, EU-25 until December 2006, EU-27 until June 2013 and EU-28 onwards.

Source: INE-Portugal and Eurostat.

Code abbreviations of the Member States:

 BE
 Belgium
 EE
 Estonia

 BG
 Bulgaria
 EL
 Greece

 CZ
 Czech Republic
 ES
 Spain

 DK
 Denmark
 FR
 France

 DE
 Germany
 IE
 Ireland

TT Italy
CY Cyprus
LV Latvia
LT Lithuania
LU Luxembourg

HR Croatia
HU Hungary
MT Malta
NL Netherlands
AT Austria

PL Poland
PT Portugal
RO Romania
SI Slovenia

5K Slovakia

FI Finland

SE Sweden

UK United Kingdom

Consumer Price Index - November 2018