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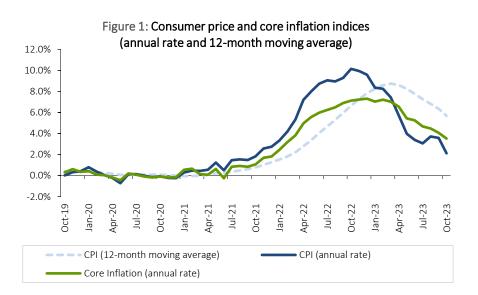
November 13th, 2023 CONSUMER PRICE INDEX October 2023

CPI ANNUAL RATE OF CHANGE DECREASES TO 2.1%

The Consumer Price Index (CPI) annual rate was 2.1% in October 2023 (3.6% in September). The main contribution for this deceleration relates to the base effect associated to the monthly price increases of food and energy (mainly natural gas) observed in October 2022. The annual core inflation rate, which excludes energy and unprocessed food products was 3.5% (4.1% in the previous month). The annual rate of change for energy products decreased to -12.1% (-4.1% in September) and the index for unprocessed food was 4.0% (6.0% in the previous month).

The CPI monthly rate was -0.2% (1.1% in September and 1.2% in October 2022), while the CPI 12-month average rate decreased to 5.7% (6.3% in the previous month).

In October 2023, the Portuguese Harmonised Index of Consumer Prices (HICP) annual rate was 3.2% (4.8% in the previous month). This rate is 0.3 percentage points (p.p.) above the rate estimated by Eurostat for the Euro area (in September, this difference was 0.5 p.p.). Excluding energy and unprocessed food products, the Portuguese HICP was 4.8% in October (5.5% in September), below the corresponding rate for the Euro area (estimated at 5.0%).





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Consumer Price Index (base 100 = 2012)

In October 2023, the annual inflation rate was 2.1% (3.6% in September) (see figure 1). When rounded to one decimal place, this figure coincides with the value provided in the flash estimate, which was released on October 31st (for further details on the differences between estimated and final CPI figures, see Table 2 on page 6 of this press release).

The annual core inflation rate, which excludes energy and unprocessed food products was 3.5% (4.1% in September). The rate of change of the energy aggregate was -12.1% (-4.1% in the previous month), while unprocessed food recorded an annual rate of 4.0% in October (6.0% in September).

The largest downward contribution to the overall annual rate of change came from changes in the prices of *Housing*, *water*, *electricity*, *gas and other fuels*. Conversely, the main upward contributions came from changes in prices of *Food and non-alcoholic beverages*.

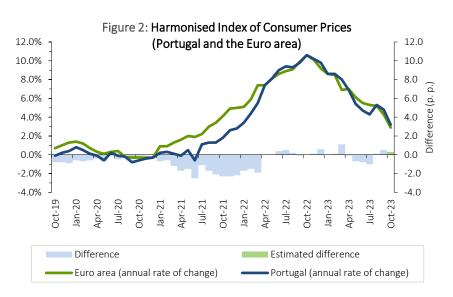
In October 2023, the CPI monthly rate was -0.2% (1.1% in September and 1.2% in October 2022). The main upward contribution to the monthly rate of change came from *Clothing and footwear*. Conversely, the largest downward contribution was observed in *Transports*.

The CPI 12-month average rate was 5.7% in October (6.3% in the previous month).

Harmonised Index of Consumer Prices (base 100 = 2015)

In October 2023, the Portuguese HICP annual rate was 3.2% (4.8% in the previous month) and the monthly rate was -0.4% (0.8% in the previous month and 1.1% in October 2022).

According to Eurostat's Flash Estimate, in October, the annual rate of change of the Portuguese HICP is estimated to be 0.3 p.p. above the rate estimated by Eurostat for the Euro area (in September, this difference was 0.5 p.p.). Excluding energy and unprocessed food products, the Portuguese HICP decreased 4.8% in October (5.5% in September), below the corresponding rate for the Euro area (estimated at 5.0%).





Housing Rents

In October, the annual change rate of the housing rents for the whole country was 5.0% (4.9% in the previous month). The highest increase was observed in the Madeira region (5.6%), 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 0.4% (the same value as in the previous month). The main increase was observed in the Madeira region (0.6%), and all the other regions presented positive rates.



METHODOLOGICAL NOTES

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 2022 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).

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.



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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 Union¹. 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 area².

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 <u>http://ec.europa.eu/eurostat/web/hicp</u>.

COIC	OP ¹ divisions	CPI	HICP								
01	Food and non-alcoholic beverages	219.3	206.4								
02	Alcoholic beverages and tobacco	35.9	34.0								
03	Clothing and footwear	58.6	58.4								
04	Housing, water, electricity, gas and other fuels	103.3	93.8								
05	Furnishings, household equipment and routine household maintenance	74.7	70.3								
06	Health	67.7	62.3								
07	Transport	144.4	143.3								
08	Communication	30.8	27.9								
09	Recreation and culture	63.2	47.5								
10	Education	18.5	16.8								
11	Restaurants and hotels	77.2	141.8								
12	Miscellaneous good and services	106.2	97.4								
00	All items	1 000²	1 000²								

Table 1: CPI and HICP 2023 weighting structures

Notes:

¹COICOP – Classification of Individual Consumption by Purpose.

² Due to rounding, the sum of the parts may not add exactly to 1000.

 $^{^{\}rm 1}\,{\rm Article}$ 109j and protocol on the convergence criteria referred to in that article.

² "A stability oriented monetary policy strategy for the ESCB". ECB press notice released on 13 October 1998.



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..

		ferences l nonths (p		Differences last 3 months (p.p.)				
	Mean	Max	Min	Aug-23	Sep-23	Oct-23		
Total	-0.01	0.03	-0.07	-0.01	0.00	-0.01		
All items excluding housing	-0.01	0.03	-0.07	-0.01	0.00	-0.01		
All items excl. unproc. food and energy	-0.01	0.02	-0.07	0.00	0.01	-0.01		
Energy	0.01	0.30	-0.08	-0.02	-0.01	-0.03		
Unprocessed food	-0.01	0.02	-0.11	-0.03	-0.01	0.01		
Processed food	-0.01	0.08	-0.05	0.00	0.01	0.00		

Table 2: Differences between the estimated and final values of the annual rate

Next flash estimate – November 30th ,2023

Next press release – December 14th, 2023



All-items COICOP divisions Period CPI 01 02 03 04 05 06 07 08 09 10 11 12 Annual average rate (%) 2020 0.07 2.09 0.52 -3.40 -0.65-2.21 -1.92 -0.86 1.65 1.25 -0.01 1.14-2.08 2021 0.74 0.93 -0.18 1.64 -0.05 2.12 4.40 0.30 0.96 -0.84 -0.83 1.26 1.27 10.00 2022 12.99 2.58 0.77 12.84 9.19 -1.36 1.88 3.92 1.62 11.67 2.33 7.83 Annual rate (%) 2021 October 0.49 1.39 -1.18 3.05 0.85 1.82 7.48 1.45 1.03 1.12 0.90 0.53 1.83 0.87 8.79 0.51 November 1.36 -0.15 3.19 1.35 1.09 3.05 1.15 2.75 0.94 2.58 2.88 0.34 1.79 0.90 December 3.23 0.87 0.63 6.72 3.18 1.16 2.97 1.22 2.74 2022 January 3.71 1.112.38 4.51 3.84 0.88 6.24 2.64 3.15 1.11 3.57 1.08 3.34 4.67 1.29 3.24 5.05 4.70 0.89 8.50 2.96 1.30 February 1.40 5.20 1.60 4.19 11.00 1.44 7.24 2.59 0.06 5.36 5.56 1.84 March 1.12 3.06 6.60 2.05 5.33 10.25 0.59 6.88 April -0.72 10.19 1.38 13.09 3.18 4.91 1.42 9.93 2.06 7.20 May 12.33 2.78 -0.05 13.42 8.74 1.43 10.80 2.18 5.68 1.42 10.86 2.13 8.00 13.20 -0.47 13.50 10.18 -3.57 14.27 2.05 2.89 546 1.34 14.19 2.21 873 June 0.05 -3.57 July 13.89 2.83 16.62 10.51 12.85 1.80 4.32 1.25 14.80 2.46 9.06 14.92 10.57 August 15.34 2.80 -1.57-3.49 10.43 2.05 3.95 1.17 16.33 2.71 8.94 September 16.42 3.31 1.73 14.60 11.95 -3.55 9.15 1.84 3.15 1.26 17.74 3.02 9.28 2.97 1.95 18.49 12.21 -3.21 9.94 16.29 2.59 October 18.58 1.44 3.39 2.51 10.14 19.96 3.76 1.36 18.46 12.08 -2.34 7.94 1.92 3.33 12.83 9.94 November 2.60 2.85 19.91 3.96 1.60 18.42 12.88 -2.29 5.87 0.28 3.78 2.59 11.24 3.17 9.59 December 2023 January 20.56 3.85 1.79 8.08 11.15 -1.69 4.75 3.50 8.36 -1.02 2.67 2.68 11.62 21.47 4.28 1.46 6.90 10.31 -0.88 2.58 3.60 4.09 11.28 8.25 February 2.67 3.11 19.57 1.59 9.72 -0.33 -0.90 5.42 11.79 2.73 March 4.12 6.67 4.17 2.72 7.43 April 15.41 6.47 1.89 -0.02 8.48 -0.61 -1.58 3.94 4.61 2.75 11.77 2.18 5.71 9.42 4.26 1.38 -3.08 6.79 -0.40 -1.65 3.96 5.00 2.73 12.10 2.23 3.98 May 8.57 4.19 June 1.19 -3.61 5.55 4.89 -3.83 3.73 5.05 2.73 9.75 2.12 3.39 7.32 4.29 0.13 4.96 -2.55 July -2.82 4.85 3.80 4.82 2.74 8.81 1.78 3.07 6.85 4.09 -0.09 -1.77 4.61 4.94 1.92 4.49 2.74 3.72 August 3.62 9.21 1.98 6.44 2.87 2.78 September 3.81 0.56 -1.37 5.02 3.69 4.46 2.74 6.90 1.47 3.58 4.35 3.52 0.32 -5.93 3.50 October 2.33 4.82 0.51 4.14 4.02 7.12 0.64 2.12 INE - Portugal Source: COICOP (Classification Of Individual Consumption by Purpose) divisions: Food and non-alcoholic beverages 01 07 transport 02 Alcoholic beverages and tobacco 08 communication 03 Clothing and footwear 09 recreation and culture 04

Annex 1: CPI rate of change (index division and all-items CPI)

- 10 education
- 11 restaurants and hotels

12 miscellaneous goods and services

CONSUMER PRICE INDEX – October 2023

Health

05

06

Housing, water, electricity, gas and other fuels

Furnishings, household equipment and routine

household maintenance



Annex 2: HICP rate of change (international comparison) ¹																													
Period	EA ²	EU³	BE	BG	CZ	DK	DE	EE	EL	ES	FR	HR	IE	Π	СҮ	LV	LT	LU	HU	MT	NL	AT	PL	РТ	RO	SI	SK	FI	SE
												Annu	al aver	age rat	e (%)														
2020	0.3	0.7	0.4	1.2	3.3	0.3	0.4	-0.6	-1.3	-0.3	0.5	0.0	-0.5	-0.1	-1.1	0.1	1.1	0.0	3.4	0.8	1.1	1.4	3.7	-0.1	2.3	-0.3	2.0	0.4	0.7
2021	2.6	2.9	3.2	2.8	3.3	1.9	3.2	4.5	0.6	3.0	2.1	2.7	2.4	1.9	2.3	3.2	4.6	3.5	5.2	0.7	2.8	2.8	5.2	0.9	4.1	2.0	2.8	2.1	2.7
2022	8.4	9.2	10.3	13.0	14.8	8.5	8.7	19.4	9.3	8.3	5.9	10.7	8.1	8.7	8.1	17.2	18.9	8.2	15.3	6.1	11.6	8.6	13.2	8.1	12.0	9.3	12.1	7.2	8.1
													nnual																
2021 October	4.1	4.4	5.4	5.2	4.8	3.2	4.6	6.8	2.8	5.4	3.2	3.9	5.1	3.2	4.4	6.0	8.2	5.3	6.6	1.4	3.7	3.8	6.4	1.8	6.5	3.5	4.4	2.8	3.3
November	4.9	5.2	7.1	6.3	4.8	3.8	6.0	8.6	4.0	5.5	3.4	4.7	5.4	3.9	4.7	7.4	9.3	6.3	7.5	2.4	5.9	4.1	7.4	2.6	6.7	4.9	4.8	3.5	3.9
December	5.0	5.3	6.6	6.6	5.4	3.4	5.7	12.0	4.4	6.6	3.4	5.2	5.7	4.2	4.8	7.9	10.7	5.4	7.4	2.6	6.4	3.8	8.0	2.8	6.7	5.1	5.1	3.2	4.5
2022 January	5.1	5.6	8.5	7.7	8.8	4.9	5.1	11.0	5.5	6.2	3.3	5.5	5.0	5.1	5.0	7.5	12.3	4.6	7.9	4.1	7.6	4.5	8.7	3.4	7.2	6.0	7.7	4.1	3.9
February	5.9	6.2	9.5	8.4	10.0	5.3	5.5	11.6	6.3	7.6	4.2	6.3	5.7	6.2	5.8	8.8	14.0	7.8	8.4	4.2	7.3	5.5	8.1	4.4	7.9	7.0	8.3	4.4	4.4
March	7.4	7.8	9.3	10.5	11.9	6.0	7.6	14.8	8.0	9.8	5.1	7.3	6.9	6.8	6.2	11.5	15.6	7.9	8.6	4.5	11.7	6.6	10.2	5.5	9.6	6.0	9.6	5.8	6.3
April	7.4	8.1	9.3	12.1	13.2	7.4	7.8	19.1	9.1	8.3	5.4	9.6	7.3	6.3	8.6	13.1	16.6	9.0	9.6	5.4	11.2	7.1	11.4	7.4	11.7	7.4	10.9	5.8	6.6
May	8.1	8.8	9.9	13.4	15.2	8.2	8.7	20.1	10.5	8.5	5.8	10.7	8.3	7.3	8.8	16.8	18.5	9.1	10.8	5.8	10.2	7.7	12.8	8.1	12.4	8.7	11.8	7.1	7.5
June	8.6	9.6	10.5	14.8	16.6	9.1	8.2	22.0	11.6	10.0	6.5	12.1	9.6	8.5	9.0	19.2	20.5	10.3	12.6	6.1	9.9	8.7	14.2	9.0	13.0	10.8	12.6	8.1	8.9
July	8.9	9.8	10.4	14.9	17.3	9.6	8.5	23.2	11.3	10.7	6.8	12.7	9.6	8.4	10.6	21.3	20.9	9.3	14.7	6.8	11.6	9.4	14.2	9.4	13.0	11.7	12.8	8.0	8.3
August	9.1	10.1	10.5	15.0	17.1	9.9	8.8	25.2	11.2	10.5	6.6	12.6	9.0	9.1	9.6	21.4	21.1	8.6	18.6	7.0	13.7	9.3	14.8	9.3	13.3	11.5	13.4	7.9	9.5
September	9.9	10.9	12.1	15.6	17.8	11.1	10.9	24.1	12.1	9.0	6.2	12.6	8.6	9.4	9.0	22.0	22.5	8.8	20.7	7.4	17.1	11.0	15.7	9.8	13.4	10.6	13.6	8.4	10.3
October	10.6	11.5	13.1	14.8	15.5	11.4	11.6	22.5	9.5	7.3	7.1	12.7	9.4	12.6	8.6	21.7	22.1	8.8	21.9	7.4	16.8	11.6	16.4	10.6	13.5	10.3	14.5	8.4	9.8
November	10.1	11.1	10.5	14.3	17.2	9.7	11.3	21.4	8.8	6.7	7.1	13.0	9.0	12.6	8.1	21.7	21.4	7.3	23.1	7.2	11.3	11.2	16.1	10.2	14.6	10.8	15.1	9.1	10.1
December	9.2	10.4	10.2	14.3	16.8	9.6	9.6	17.5	7.6	5.5	6.7	12.7	8.2	12.3	7.6	20.7	20.0	6.2	25.0	7.3	11.0	10.5	15.3	9.8	14.1	10.8	15.0	8.8	10.8
2023 January	8.6	10.0	7.4	14.3	19.1	8.4	9.2	18.6	7.3	5.9	7.0	12.5	7.5	10.7	6.8	21.4	18.5	5.8	26.2	6.8	8.4	11.6	15.9	8.6	13.4	9.9	15.1	7.9	9.6
February	8.5	9.9	5.4	13.7	18.4	8.3	9.3	17.8	6.5	6.0	7.3	11.7	8.1	9.8	6.7	20.1	17.2	4.8	25.8	7.0	8.9	11.0	17.2	8.6	13.4	9.4	15.4	8.0	9.7
March	6.9	8.3	4.9	12.1	16.5	7.3	7.8	15.6	5.4	3.1	6.7	10.5	7.0	8.1	6.1	17.2	15.2	2.9	25.6	7.1	4.5	9.2	15.2	8.0	12.2	10.4	14.8	6.7	8.1
April	7.0	8.1	3.3	10.3	14.3	5.6	7.6	13.2	4.5	3.8	6.9	8.9	6.3	8.6	3.9	15.0	13.3	2.7	24.4	6.4	5.8	9.4	14.0	6.9	10.4	9.2	14.0	6.3	7.7
May	6.1	7.1	2.7	8.6	12.5	2.9	6.3	11.2	4.1	2.9	6.0	8.3	5.4	8.0	3.6	12.3	10.7	2.0	21.9	6.3	6.8	8.7	12.5	5.4	9.6	8.1	12.3	5.0	6.7
June	5.5	6.4	1.6	7.5	11.2	2.4	6.8	9.0	2.8	1.6	5.3	8.3	4.8	6.7	2.8	8.1	8.2	1.0	19.9	6.2	6.4	7.8	11.0	4.7	9.3	6.6	11.3	4.1	6.3
July	5.3	6.1	1.7	7.8	10.2	3.2	6.5	6.2	3.5	2.1	5.1	8.0	4.6	6.3	2.4	6.6	7.2	2.0	17.5	5.6	5.3	7.0	10.3	4.3	8.9	5.7	10.3	4.2	6.3
August	5.2	5.9	2.4	7.5	10.1	2.3	6.4	4.3	3.5	2.4	5.7	8.4	4.9	5.5	3.1	5.6	6.4	3.5	14.2	5.0	3.4	7.5	9.5	5.3	9.3	6.1	9.6	3.1	4.5
September	4.3	4.9	0.7	6.4	8.3	0.6	4.3	3.9	2.4	3.3	5.7	7.4	5.0	5.6	4.3	3.6	4.1	3.4	12.2	4.9	-0.3	5.7	7.7	4.8	9.2	7.1	9.0	3.0	3.7
October	2.9 f	х	-1.7 f	х	x	х	3.0 f	5.0 f	3.9 f	3.5 f	4.5 f	6.7 f	3.6 f	1.9 f	3.3 f	2.4 f	3.0 f	2.1 f	x	4.3 f	-1.0 f	4.9 f	х	3.2	x	6.6 f	7.8 f	2.4 f	x
Symbols:	f estim	ated	Po prov	risional	Rc rev	vised	x notav	ailable																					
Notes:	¹ Rates	of chan	ge calcu	lated ba	ased on	indexes	rounded	d up to t	wo dec	imal pla	ces.																		
	² Member States belonging to the Euro area: EA-13 until Dec-2007, EA-15 until Dec-2008, EA-16 until Dec-2010, EA-17 until Dec-2013, EA-18 until Dec-2014, EA-19 until Dec-2022, EA-20 onwards.																												

³ European Index of Consumer Prices: EIL-15 until Anr-2004, EIL-25 until Dec-2006, EIL-27 until Jun-2013, EIL-28 until Jan-2020 and EIL-27 onwards

L	dropean index of consumer Frices.	20-15 unui Api-2004, i	L0-25 until Dec-2000,	L0-27 unui jun-2013, L	0-20 unui san-2020 anu c	.0-27 Onwards.			
Member State codes:	BE Belgium	DK Denmark	EL Greece	IE Ireland	LV Latvia	HR Croatia	NL Netherlands	PT Portugal	SK Slovakia
	BG Bulgaria	DE Germany	ES Spain	IT Italy	LT Lithuania	HU Hungary	AT Austria	RO Romania	FI Finland
Source: INE and Eurostat	CZ Czechia	EE Estonia	FR France	CY Cyprus	LU Luxembourg	MT Malta	PL Poland	SI Slovenia	SE Sweden

CONSUMER PRICE INDEX – October 2023

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