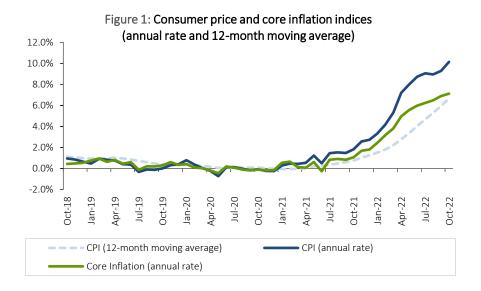
November 11th, 2022 CONSUMER PRICE INDEX October 2022

CPI ANNUAL RATE OF CHANGE INCREASES TO 10.1%

The Consumer Price Index (CPI) annual rate increased to 10.1% in October 2022 (9.3% in September 2022). The annual core inflation rate, which excludes energy and unprocessed food products, accelerated to 7.1% (6.9% in the previous month). The annual rate of change of the index for energy products increased to 27.6% (22.2% in September 2022) and the index for unprocessed food accelerated to 18.9% (16.9% in the previous month).

The CPI monthly rate was 1.2% (the same value as in September 2022 and 0.5% in October 2021), while the CPI 12-month average rate was 6.7% (6.0% in the previous month).

In October 2022, the Portuguese Harmonised Index of Consumer Prices (HICP) annual rate was 10.6% (9.8% in the previous month). This rate is 0.1 percentage points (p.p.) below the figure estimated by Eurostat for the Euro area (in September, the Portuguese rate was also 0.1 p.p. below the Euro area). Excluding energy and unprocessed food products, the Portuguese HICP increased by 8.0% in October (7.9% in September), above the corresponding rate for the Euro area (estimated at 6.4%).



Consumer Price Index (base 100 = 2012)

In October 2022, the annual inflation rate was 10.1% (9.3% in September) (see Fig. 1). When rounded to one decimal place, this figure is 0.1 percentage points (p.p.) below the value provided in the flash estimated, which was released on October 28th, although this difference was in fact 0.01 p.p. (for further details on the differences between estimated and final CPI figures, see Table 3 on page 6 of this press release).

The annual core inflation rate, which excludes energy and unprocessed food products, was 7.1% (6.9% in September). The energy aggregate presented an annual rate of 27.6% (5.4 p.p. higher than in the previous month), while unprocessed food recorded an annual rate of 18.9% in October (16.9% in September).

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

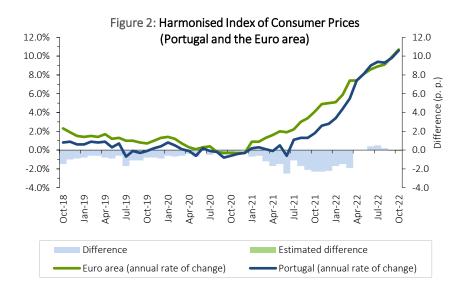
In October 2022, the CPI monthly rate was 1.2% (the same value as in September and 0.5% in October 2021). The main upward contributions to the monthly rate of change came from *Food and non-alcoholic beverages* and *Housing, water, electricity, gas and other fuels.* Conversely, the largest downward contribution was observed in *Restaurants and hotels*.

The CPI 12-month average rate was 6.7% in October (6.0% in the previous month).

Harmonised Index of Consumer Prices (base 100 = 2015)

In October 2022, the Portuguese HICP annual rate was 10.6% (9.8% in the previous month) and the monthly rate was 1.1% (1.3% in the previous month and 0.4% in October 2021).

According to Eurostat's Flash Estimate, in October, the annual rate of change of the Portuguese HICP is estimated to be 0.1 p.p. below the Euro area rate (in September, the Portuguese rate was also 0.1 p.p. below the Euro area). Excluding energy and unprocessed food products, the Portuguese HICP increased to 8.0% in October (7.9% in September), above the corresponding rate for the Euro area (estimated at 6.4%).



Housing Rents

In October, the annual change rate of the housing rents for the whole country was 3.1% (2.9% in the previous month). The highest increase was observed in the Lisboa region (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 0.4% (0.3% in the previous month). The main increase was observed in the Madeira region (0.5%), 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.

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 http://ec.europa.eu/eurostat/web/hicp.

Table 2: CPI and HICP 2022 weighting structures

COIC	OP ¹ divisions	СРІ	HICP
01	Food and non-alcoholic beverages	219.5	217.0
02	Alcoholic beverages and tobacco	38.3	37.9
03	Clothing and footwear	54.1	54.9
04	Housing, water, electricity, gas and other fuels	96.5	94.4
05	Furnishings, household equipment and routine household maintenance	72.4	71.6
06	Health	68.7	67.5
07	Transport	151.3	152.4
80	Communication	30.9	30.2
09	Recreation and culture	61.9	49.1
10	Education	19.7	19.3
11	Restaurants and hotels	81.6	102.5
12	Miscellaneous good and services	105.0	103.1
00	All items	1 000²	1 000²

Notes:

¹COICOP – Classification of Individual Consumption by Purpose.

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

¹ 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..

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

		ferences nonths (p		Differences last 3 months (p.p.)				
	Mean	Max	Min	Aug-22	Sep-22	Oct-22		
Total	-0.01	0.01	-0.07	-0.03	-0.01	-0.01		
All items excluding housing	-0.01	0.01	-0.07	-0.03	-0.01	-0.02		
All items excl. unproc. food and energy	-0.01	0.02	-0.07	-0.03	-0.01	-0.01		
Unprocessed food	-0.02	0.02	-0.11	-0.01	-0.01	-0.02		
Energy	0.02	0.11	-0.08	-0.02	0.00	-0.04		

Next flash estimate - November 30th, 2022

Next press release – December 14th, 2022

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

Period	Period COICOP divisions												
	01	02	03	04	05	06	07	08	09	10	11	12	СРІ
					Annual	average	e rate (9	%)					
2019	0.32	2.01	-3.00	0.29	-0.28	0.82	1.14	-2.59	-0.02	0.93	0.97	1.56	0.34
2020	2.09	0.52	-3.40	0.07	-0.65	1.14	-2.08	-2.21	-1.92	-0.86	1.65	1.25	-0.01
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
					Anr	nual rat	e (%)						
2020 October	2.46	-0.17	-2.93	0.00	-0.66	1.42	-2.94	-1.29	-0.28	-1.46	-0.40	1.68	-0.07
November	2.06	0.54	-3.72	0.04	-0.51	2.33	-3.25	-1.50	-1.32	-1.49	0.46	1.20	-0.22
December	1.52	1.40	-4.37	-0.04	-0.53	2.87	-2.50	-1.12	-2.12	-1.49	0.85	1.00	-0.23
2021 January	1.00	1.00	-1.50	-0.11	-0.70	2.79	-1.86	-1.18	-0.49	-1.42	0.79	1.33	0.30
February	0.89	0.48	-2.44	-0.36	-0.65	2.75	-0.70	-0.50	0.15	-1.60	0.45	1.22	0.48
March	0.77	0.07	-3.35	-0.09	-0.39	2.68	2.48	-0.69	0.89	-1.72	-0.64	0.94	0.45
April	-0.79	1.29	2.87	1.34	-0.90	2.46	3.43	-0.70	-0.31	-1.70	-3.20	1.63	0.55
May	0.55	1.53	3.25	1.53	-0.43	2.57	5.56	0.28	0.76	-1.64	-4.12	1.64	1.24
June	-0.15	0.13	2.44	1.79	-0.86	2.37	3.84	0.21	0.90	-1.55	-6.21	1.60	0.51
July	0.61 0.61	1.51	-0.64 -1.88	1.54	-0.29	2.12	5.27 5.78	0.92	1.28 0.44	-1.40 -1.26	-1.15 -1.41	1.62	1.47
August September		1.63 1.00	-1.88	2.27 2.39	-0.13 0.70	2.22	6.44	1.10 1.29	0.44	-1.20	-0.36	1.38 1.10	1.54 1.48
October	0.67	1.39	-1.18	3.05	0.70	1.82	7.48	1.45	1.03	1.12	0.90	0.53	1.83
November	1.36	0.87	-0.15	3.19	1.35	1.09	8.79	0.51	3.05	1.15	2.75	0.94	2.58
December	2.88	0.34	1.79	3.23	0.87	0.63	6.72	0.90	3.18	1.16	2.97	1.22	2.74
2 ccciniaci	2.00	0.0	1.75	0.20	0.07	0.00	0.72	0.50	0.10	1.10			
2022 January	3.71	1.11	2.38	4.51	3.84	0.88	6.24	2.64	3.15	1.11	3.57	1.08	3.34
February	4.67	1.29	3.24	5.05	4.70	0.89	8.50	1.40	2.96	1.30	5.20	1.60	4.19
March	7.24	2.59	0.06	5.36	5.56	1.12	11.00	1.84	3.06	1.44	6.60	2.05	5.33
April	10.25	0.59	-0.72	10.19	6.88	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
June	13.20	2.89	-0.47	13.50	10.18	-3.57	14.27	2.05	5.46	1.34	14.19	2.21	8.73
July	13.89	2.83	0.05	16.62	10.51	-3.57	12.85	1.80	4.32	1.25	14.80	2.46	9.06
August	15.34	2.80	-1.57	14.92	10.57	-3.49	10.43	2.05	3.95	1.17	16.33	2.71	8.94
September	1	3.31	1.73	14.60	11.95	-3.55	9.15	1.84	3.15	1.26	17.74	3.02	9.28
October	18.58	2.97	1.95	18.49	12.21	-3.21	9.94	1.44	3.39	2.51	16.29	2.59	10.14
Source:	INE - Po												
COICOP (C	Classific						Purpose	e) divisi	ons:				
	01			lcoholic	_				07	transpo	ort		
O2 Alcoholic beverages and tobacco											nication		
	03		g and fo		_				09		ion and o	culture	
	04			electric					10	educati	on		
	05			usehold		ent and r	routine		11	restaur	ants and	hotels	
		househ	old mair	ntenance	!								

miscellaneous goods and services

12

Health

06







Annex 2: HICP rate of change (international comparison)¹

Period	EA ²	EU³	BE	BG	CZ	DK	DE	EE	EL	ES	FR	HR	IE	IT	CY	LV	LT	LU	HU	MT	NL	AT	PL	PT	RO	SI	SK	FI	SE
Annual average rate (%)																													
2019	1.2	1.5	1.2	2.5	2.6	0.7	1.4	2.3	0.5	0.8	1.3	0.8	0.9	0.6	0.5	2.7	2.2	1.6	3.4	1.5	2.7	1.5	2.1	0.3	3.9	1.7	2.8	1.1	1.7
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
												A	nnual	rate (%)														
2020 October	-0.3	0.3	0.4	0.6	2.9	0.3	-0.5	-1.7	-2.0	-0.9	0.1	-0.2	-1.5	-0.6	-1.4	-0.7	0.5	-0.4	3.0	0.6	1.2	1.1	3.8	-0.6	1.8	-0.5	1.6	0.2	0.4
November	-0.3	0.2	0.2	0.3	2.8	0.4	-0.7	-1.2	-2.1	-0.8	0.2	0.0	-1.0	-0.3	-1.1	-0.7	0.4	-0.7	2.8	0.2	0.7	1.1	3.7	-0.4	1.7	-1.1	1.6	0.2	0.2
December	-0.3	0.3	0.4	0.0	2.4	0.4	-0.7	-0.9	-2.4	-0.6	0.0	-0.3	-1.0	-0.3	-0.8	-0.5	-0.1	-0.3	2.8	0.2	0.9	1.0	3.4	-0.3	1.8	-1.2	1.6	0.2	0.6
2021 January	0.9	1.2	0.6	-0.3	2.2	0.4	1.6	0.3	-2.4	0.4	0.8	0.0	-0.1	0.7	-0.8	-0.5	0.2	1.1	2.9	0.2	1.6	1.1	3.6	0.2	2.0	-0.9	0.7	1.0	1.9
February	0.9	1.3	0.3	0.2	2.1	0.5	1.6	0.5	-1.9	-0.1	0.8	0.7	-0.4	1.0	-0.9	-0.2	0.4	-0.5	3.3	0.1	1.9	1.4	3.6	0.3	2.5	-1.1	0.9	0.9	1.8
March	1.3	1.7	1.6	0.8	2.3	0.9	2.0	0.9	-2.0	1.2	1.4	1.6	0.1	0.6	0.3	0.3	1.6	2.5	3.9	0.1	1.9	2.0	4.4	0.1	2.5	0.1	1.5	1.4	2.1
April	1.6	2.0	2.1	2.0	3.1	1.5	2.1	1.6	-1.1	2.0	1.6	2.1	1.1	1.0	1.2	1.7	2.4	3.3	5.2	0.1	1.7	1.9	5.1	-0.1	2.7	2.2	1.7	2.2	2.8
•	2.0	2.3	2.5	2.3	2.7	1.9	2.4	3.2	-1.2	2.4	1.8	2.4	1.9	1.2	1.5	2.6	3.5	4.0	5.3	0.2	2.0	3.0	4.6	0.5	3.2	2.2	2.0	2.3	2.4
May	1.9	2.2	2.6	2.4	2.5	1.9	2.1	3.7	0.6	2.5	1.9	2.2	1.6	1.3	2.2	2.7	3.5	3.4	5.3	0.2	1.7	2.8	4.1	-0.6	3.5	1.7	2.5	1.9	1.8
June July	2.2	2.5	1.4	2.2	2.7	1.7	3.1	4.9	0.7	2.9	1.5	2.7	2.2	1.0	2.7	2.8	4.3	3.3	4.7	0.3	1.4	2.8	4.7	1.1	3.8	2.0	2.9	1.8	1.8
August	3.0	3.2	4.7	2.5	3.1	1.8	3.4	5.0	1.2	3.3	2.4	3.1	3.0	2.5	3.3	3.6	5.0	3.5	4.9	0.4	2.7	3.2	5.0	1.3	4.0	2.1	3.3	1.8	2.5
September	3.4	3.6	3.8	4.0	4.0	2.4	4.1	6.4	1.9	4.0	2.7	3.5	3.8	2.9	3.6	4.7	6.4	4.0	5.5	0.7	3.0	3.3	5.6	1.3	5.2	2.7	4.0	2.1	3.0
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
	l																							l					
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 Rc	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	10.9	15.7	9.8	13.4	10.6	13.6	8.4	10.3
October	10.7 f	Х	13.1 f	Х	Х	Х	11.6 f	22.4 f	9.8 f	7.3 f	7.1 f	Х	9.6 f	12.8 f	8.6 f	21.8 f	22.0 f	8.8 f	Х	7.5 f	16.8 f	11.5 f	Х	10.6	X	10.3 f	14.5 f	8.3 f	X

Symbols: f estimated Po provisional Rc revised x not available

Notes: 1 Rates of change calculated based on indexes rounded up to two decimal places.

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

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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 onwards.