



INSTITUTO NACIONAL DE ESTATÍSTICA  
STATISTICS PORTUGAL

press release

# DIISTAQUE

April 13<sup>th</sup>, 2023

CONSUMER PRICE INDEX

March 2023

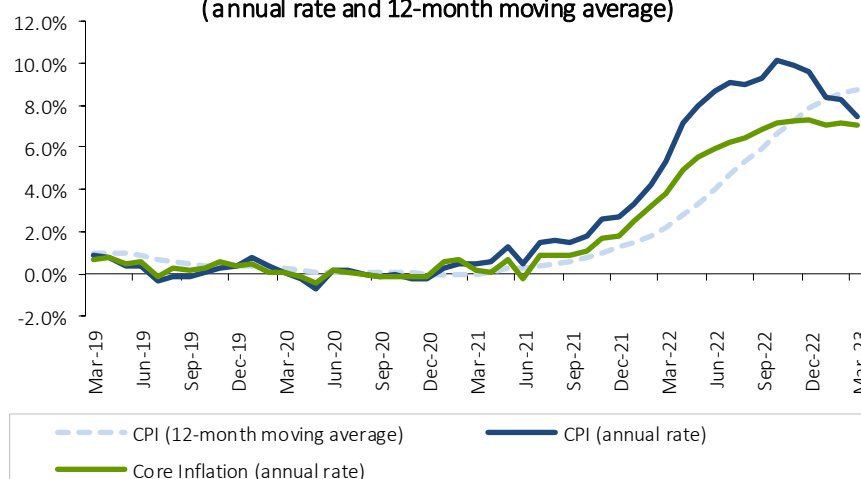
## CPI ANNUAL RATE OF CHANGE DECREASES TO 7.4%

The Consumer Price Index (CPI) annual rate decreased to 7.4% in March 2023 (8.2% in February 2023). This deceleration mainly reflects the base effect related to the price increases, registered in March 2022. The annual core inflation rate, which excludes energy and unprocessed food products was 7.0% (7.2% in the previous month). The annual rate of change for energy products decreased to -4.4% (1.9% in February 2023), the first negative value since February 2021, and the index for unprocessed food was 19.3% (20.1% in the previous month).

The CPI monthly rate was 1.7% (0.3% in February and 2.5% in March 2022), while the CPI 12-month average rate was 8.7% (8.6% in the previous month).

In March 2023, the Portuguese Harmonised Index of Consumer Prices (HICP) annual rate was 8.0% (8.6% in the previous month). This rate is 1.1 percentage points (p.p.) above the figure estimated by Eurostat for the Euro area (in February, this difference was 0.1 p.p.). Excluding energy and unprocessed food products, the Portuguese HICP was 8.1% in March (8.0% in February), above the corresponding rate for the Euro area (estimated at 7.5%).

Figure 1: Consumer price and core inflation indices  
(annual rate and 12-month moving average)





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## Consumer Price Index (base 100 = 2012)

In March 2023, the annual inflation rate was 7.4% (8.2% in February) (see figure 1). When rounded to one decimal place, this figure coincides with the value provided in the flash estimate, which was released on March 31<sup>st</sup> (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 7.0% (7.2% in February). The rate of change of the energy aggregate decreased to -4.4% (1.9% in the previous month), the first negative value since February 2021, while unprocessed food recorded an annual rate of 19.3% in March (20.1% in February).

The largest upward contribution to the overall annual rate of change came from changes in the prices of *Food and non-alcoholic beverages*. Conversely, the main downward contributions came from changes in prices in *Transports* and *Health*.

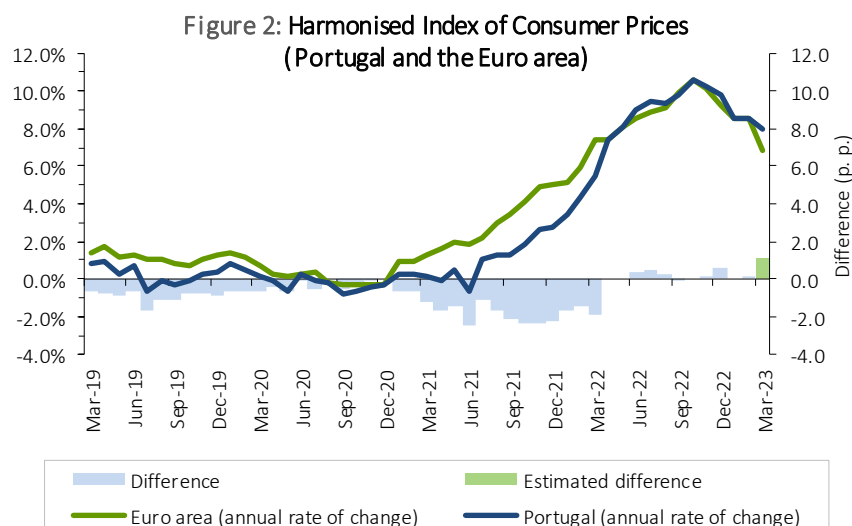
In March 2023, the CPI monthly rate was 1.7% (0.3% in February and 2.5% in March 2022). The main upward contributions to the monthly rate of change came from *Clothing and footwear*. Conversely, the largest downward contribution was observed in *Miscellaneous goods and services*.

The CPI 12-month average rate was 8.7% in March (8.6% in the previous month).

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

In March 2023, the Portuguese HICP annual rate was 8.0% (8.6% in the previous month) and the monthly rate was 2.0% (0.4% in the previous month and 2.6% in March 2022).

According to Eurostat's Flash Estimate, in March, the annual rate of change of the Portuguese HICP is estimated to be 1.1 p.p. above the Euro area rate (in February, this difference was 0.1 p.p.). Excluding energy and unprocessed food products, the Portuguese HICP increased 8.1% in March (8.0% in February), above the corresponding rate for the Euro area (estimated at 7.5%).





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## Housing Rents

In March, the annual change rate of the housing rents for the whole country was 4.2% (3.8% in the previous month). The highest increase was observed in the Madeira region (4.8%), 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 0.5% (the same value as in the previous month). The main increase was observed in the Madeira region (0.7%), and all the other regions presented positive rates.



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## 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 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>.

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 1: CPI and HICP 2023 weighting structures

COICOP <sup>1</sup> 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	1 000 <sup>2</sup>	1 000 <sup>2</sup>

### Notes:

<sup>1</sup> COICOP – Classification of Individual Consumption by Purpose.

<sup>2</sup> Due to rounding, the sum of the parts may not add exactly to 1000.

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

<sup>2</sup> “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 2: Differences between the estimated and final values of the annual rate

	Differences last 24 months (p.p.)			Differences last 3 months (p.p.)		
	Mean	Max	Min	Jan-23	Feb-23	Mar-23
Total	-0.01	0.03	-0.07	0.03	0.00	<b>0.01</b>
All items excluding housing	-0.01	0.03	-0.07	0.03	0.00	<b>0.00</b>
All items excl. unproc. food and energy	-0.01	0.02	-0.07	0.00	0.00	<b>0.01</b>
Energy	0.02	0.30	-0.08	0.30	-0.02	<b>0.00</b>
Unprocessed food	-0.01	0.02	-0.11	0.00	-0.02	<b>0.01</b>
Processed food	-0.01	0.01	-0.05	0.00	0.00	<b>0.00</b>

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**Next flash estimate** – April 28<sup>th</sup>, 2023

**Next press release** – May 11<sup>th</sup>, 2023

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

Period	COICOP divisions												All-items CPI	
	01	02	03	04	05	06	07	08	09	10	11	12		
Annual average rate (%)														
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	
2022	12.99	2.58	0.77	12.84	9.19	-1.36	10.00	1.88	3.92	1.62	11.67	2.33	7.83	
Annual rate (%)														
2021	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	1.51	-0.64	1.54	-0.29	2.12	5.27	0.92	1.28	-1.40	-1.15	1.62	1.47
	August	0.61	1.63	-1.88	2.27	-0.13	2.22	5.78	1.10	0.44	-1.26	-1.41	1.38	1.54
	September	0.67	1.00	-1.98	2.39	0.70	2.03	6.44	1.29	0.71	-1.17	-0.36	1.10	1.48
	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
	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
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	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
	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
	November	19.96	3.76	1.36	18.46	12.08	-2.34	7.94	1.92	3.33	2.60	12.83	2.85	9.94
	December	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
2023	January	20.56	3.85	1.79	8.08	11.15	-1.69	4.75	-1.02	2.67	2.68	11.62	3.50	8.36
	February	21.47	4.28	1.46	6.90	10.31	-0.88	2.58	3.60	4.09	2.67	11.28	3.11	8.25
	March	19.57	4.12	1.59	6.67	9.72	-0.33	-0.90	5.42	4.17	2.72	11.79	2.73	7.43

Source: INE - Portugal

### COICOP (Classification Of Individual Consumption by Purpose) divisions:

01	Food and non-alcoholic beverages	07	transport
02	Alcoholic beverages and tobacco	08	communication
03	Clothing and footwear	09	recreation and culture
04	Housing, water, electricity, gas and other fuels	10	education
05	Furnishings, household equipment and routine household maintenance	11	restaurants and hotels
06	Health	12	miscellaneous goods and services



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## Annex 2: HICP rate of change (international comparison)<sup>1</sup>

Period	EA <sup>2</sup>	EU <sup>3</sup>	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 (%)																													
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
Annual rate (%)																													
2021 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
May	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
June	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
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
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 f	x	4.9 f	x	x	x	7.8 f	15.6 f	5.4 f	3.1 f	6.6 f	10.5 f	7.0 f	8.2 f	6.0 f	17.3 f	15.2 f	3.0 f	x	7.0 f	4.5 f	9.2 f	x	8.0	x	10.4 f	14.8 f	6.8 f	x

**Symbols:** f estimated Po provisional Rc revised x not available

**Notes:** <sup>1</sup> Rates of change calculated based on indexes rounded up to two decimal places.

<sup>2</sup> 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.

<sup>3</sup> 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.

<b>Member State codes:</b>	<b>BE</b> Belgium	<b>DK</b> Denmark	<b>EL</b> Greece	<b>IE</b> Ireland	<b>LV</b> Latvia	<b>HR</b> Croatia	<b>NL</b> Netherlands	<b>PT</b> Portugal	<b>SK</b> Slovakia
	<b>BG</b> Bulgaria	<b>DE</b> Germany	<b>ES</b> Spain	<b>IT</b> Italy	<b>LT</b> Lithuania	<b>HU</b> Hungary	<b>AT</b> Austria	<b>RO</b> Romania	<b>FI</b> Finland
<b>Source:</b> INE and Eurostat	<b>CZ</b> Czechia	<b>EE</b> Estonia	<b>FR</b> France	<b>CY</b> Cyprus	<b>LU</b> Luxembourg	<b>MT</b> Malta	<b>PL</b> Poland	<b>SI</b> Slovenia	<b>SE</b> Sweden

CONSUMER PRICE INDEX – March 2023