

13 November 2017

## Consumer Prices Index

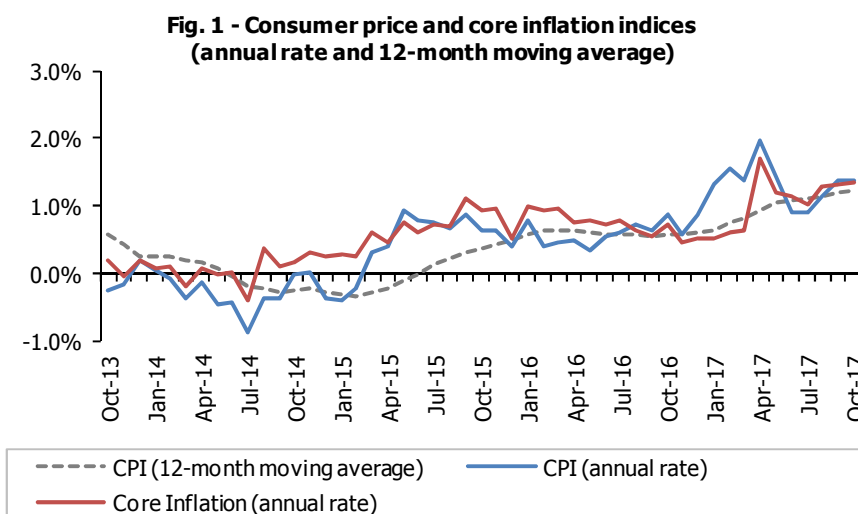
October 2017

### CPI annual rate of change remained unchanged at 1.4% in October

The Consumer Price Index (CPI) annual rate was 1.4% in October 2017. The annual core inflation rate, which excludes energy and unprocessed food products components, was 1.3% (the same value as in the previous month).

The CPI monthly rate was 0.3% (0.9% in the previous month and 0.3% in October 2016), while the CPI 12-month average rate was 1.2% (the same value as in the previous month).

In October 2017, the Portuguese Harmonised Index of Consumer Prices (HICP) annual rate of change was 1.9% (1.6% in the previous month), 0.5 percentage points (p.p.) above the rate estimated by Eurostat for the Euro area (in September, this difference was 0.1 p.p.).



In October 2017, the annual inflation rate measured by the CPI was 1.4%, the same value as in the previous month (see Fig. 1).

The annual core inflation rate, which excludes energy and unprocessed food products components, was 1.3% (the same value as in the previous month). The unprocessed food aggregate recorded an annual rate of 0.7% in October (0.3% in September) while energy presented an annual rate of 2.8% (3.6% in the previous month).

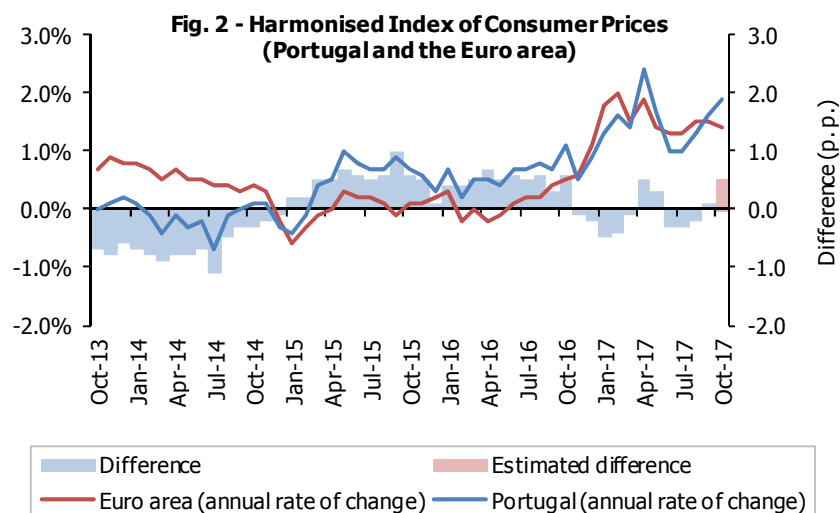
The largest upward pressures on the overall annual rate of change came from increases in the prices of *Restaurants and hotels* and *Transports*, while downward pressures came from changes in the prices of *Clothing and footwear*.

In October, the CPI monthly rate was 0.3% (0.9% in the previous month and 0.3% in October 2016). The main increase was observed in the prices of *Clothing and footwear*. On the opposite side, downward contributions were observed in the prices of *Food and non-alcoholic beverages*.

The CPI 12-month average rate was 1.2% in October (the same value as in the previous month).

In October, the HICP annual rate was 1.9% (1.6% in the previous month) and the HICP monthly rate was 0.5% (1.0% in the previous month and 0.2% in October 2016).

In September 2017, the annual rate of change of the Portuguese HICP was 0.1 p.p. above the annual rate of change for the Euro area. In October, this difference is estimated to have increased to 0.5 p.p..



The HICP 12-month average rate was 1.4% in October (1.3% in the previous month).

### Housing Rents

In October, the monthly rate of change of the average value of rents per square meter of living area for the whole country was nil (0.2% in the previous month).

The highest increase was recorded in the *Açores* region (0.4%), while the *Norte*, *Lisboa*, *Alentejo* and *Algarve* regions presented nil rates.

The annual change rate for the whole country was 0.7% in October. The main increase was observed in the *Madeira* region (2.4%), while the *Algarve* region recorded the main decrease (-0.5%).

## 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 2017 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 COICOP classification.

**Table 1: CPI - COICOP Divisions**

01	Food and non-alcoholic beverages	07	Transports
02	Alcoholic beverages and tobacco	08	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

<sup>1</sup>COICOP: Classification Of Individual Consumption by Purpose

### 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>.

<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.

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 2017 weighting structure**

COICOP divisions	CPI	HICP
01 Food and non-alcoholic beverages	203.9	195.8
02 Alcoholic beverages and tobacco	38.6	37.7
03 Clothing and footwear	73.6	74.4
04 Housing, water, electricity, gas and other fuels	99.8	93.9
05 Furnishings, household equipment and routine maintenance of the house	61.7	60.1
06 Health	59.0	56.4
07 Transport	153.5	150.8
08 Communication	34.3	32.3
09 Recreation and culture	71.8	60.5
10 Education	15.9	14.9
11 Restaurants and hotels	88.2	128.6
12 Miscellaneous goods and services	99.8	94.4
00 All items	<b>1,000<sup>2</sup></b>	<b>1,000<sup>2</sup></b>

<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.

### 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.

### Next press release

The November 2017 CPI/HICP will be released on December 14<sup>th</sup>, 2017.

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

### Annex:

	Index divisions <sup>(1)</sup>												All-items CPI
	01	02	03	04	05	06	07	08	09	10	11	12	
	Annual average rate												
2014	-1.34	3.09	-2.11	2.22	-0.38	0.66	-1.20	1.10	-1.49	0.43	0.97	-0.46	-0.28
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
	Annual rate												
2015													
October	1.27	3.89	-0.90	-0.32	-0.10	0.19	-0.85	4.77	-0.54	0.93	0.95	1.60	0.63
November	0.36	4.31	-1.68	-0.16	-0.01	0.18	0.36	4.73	0.81	0.95	0.51	1.69	0.64
December	0.00	4.32	-2.28	0.04	0.05	0.28	-0.09	4.93	0.21	0.93	0.23	1.33	0.40
2016													
January	0.21	4.37	0.16	-0.07	0.77	-0.01	0.04	5.31	0.98	0.91	0.60	1.60	0.78
February	-0.62	4.06	-0.23	0.59	1.14	-0.19	-1.28	3.95	1.90	0.92	0.15	1.09	0.40
March	-0.73	4.38	0.02	0.62	1.22	-0.16	-1.43	3.30	1.26	0.93	1.77	0.90	0.45
April	0.09	2.41	0.04	0.69	0.89	-0.92	-0.93	2.95	0.74	0.94	1.99	0.43	0.48
May	-0.10	2.27	-0.76	0.65	0.67	-0.98	-1.29	2.76	0.94	0.94	2.19	0.50	0.33
June	1.01	1.89	-0.86	0.69	0.62	-0.90	-1.49	1.75	0.94	0.94	2.61	0.74	0.55
July	1.65	1.77	1.32	0.12	0.35	-0.72	-2.10	1.66	0.36	0.91	2.62	0.63	0.61
August	1.82	2.16	0.78	0.28	0.02	-0.76	-1.29	1.57	-0.29	0.89	3.29	0.41	0.72
September	0.99	1.65	-0.81	-0.05	-0.26	-0.59	-0.29	2.51	0.76	0.89	3.38	0.39	0.63
October	0.45	2.23	-1.44	0.24	0.02	-0.60	0.94	3.05	2.56	0.77	4.20	0.10	0.88
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
<b>Symbols:</b>	f estimated		Po provisional				x not available						
<b>Note:</b>	(1) The names of the divisions are given in the explanatory notes.												
<b>Source:</b>	INE - Portugal												

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

	EA-19 <sup>(2)</sup>	EICP <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	UK	
Annual average rate																															
2014	<b>0.4</b>	0.5	0.5	-1.6	0.4	0.4	0.8	0.5	-1.4	-0.2	0.6	0.2	0.3	0.2	-0.3	0.7	0.2	0.7	0.0	0.8	0.3	1.5	0.1	<b>-0.2</b>	1.4	0.4	-0.1	1.2	0.2	1.5	
2015	<b>0.0</b>	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	<b>0.5</b>	-0.4	-0.8	-0.3	-0.2	0.7	0.0	
2016	<b>0.2</b>	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	<b>0.6</b>	-1.1	-0.2	-0.5	0.4	1.1	0.7	
Annual rate																															
2015 October	<b>0.1</b>	0.0	1.2	-1.2	0.1	0.1	0.2	0.0	-0.1	-0.9	0.2	-0.5	-0.1	0.3	-1.8	-0.1	-0.4	-0.1	0.2	1.6	0.4	0.7	-0.6	<b>0.7</b>	-1.4	-1.1	-0.5	-0.3	0.9	-0.1	
November	<b>0.1</b>	0.1	1.4	-0.9	0.0	0.1	0.2	0.5	-0.1	-0.4	0.1	-0.4	-0.1	0.1	-1.5	0.0	-0.5	0.4	0.6	1.3	0.4	0.5	-0.5	<b>0.6</b>	-0.9	-0.9	-0.4	-0.2	0.8	0.1	
December	<b>0.2</b>	0.2	1.5	-0.9	-0.1	0.3	0.2	-0.2	0.4	-0.1	0.3	-0.3	0.2	0.1	-0.6	0.4	-0.2	0.9	1.0	1.3	0.5	1.1	-0.4	<b>0.3</b>	-0.7	-0.6	-0.5	-0.2	0.7	0.2	
2016 January	<b>0.3</b>	0.3	1.8	-0.4	0.5	0.4	0.4	0.1	-0.1	-0.4	0.3	-0.2	0.0	0.4	-1.1	-0.3	0.7	0.5	1.0	0.8	0.2	1.4	-0.3	<b>0.7</b>	-1.5	-0.8	-0.6	0.0	1.3	0.3	
February	<b>-0.2</b>	-0.1	1.1	-1.0	0.5	0.1	-0.2	0.4	0.1	-1.0	-0.1	-0.6	-0.2	-0.2	-2.2	-0.6	0.5	-0.3	0.3	1.0	0.3	1.0	-0.2	<b>0.2</b>	-2.1	-0.9	-0.3	-0.1	0.8	0.3	
March	<b>0.0</b>	0.0	1.6	-1.9	0.3	-0.3	0.1	0.5	-0.7	-1.0	-0.1	-0.9	-0.6	-0.2	-2.2	-0.6	0.8	-0.6	-0.2	1.0	0.5	0.7	-0.4	<b>0.5</b>	-2.4	-0.9	-0.5	0.0	1.2	0.5	
April	<b>-0.2</b>	-0.2	1.5	-2.5	0.5	-0.3	-0.3	0.0	-0.4	-1.2	-0.1	-0.9	-0.2	-0.4	-2.1	-0.7	0.8	-0.6	0.3	0.8	-0.2	0.6	-0.5	<b>0.5</b>	-2.6	-0.7	-0.4	0.3	1.0	0.3	
May	<b>-0.1</b>	-0.1	1.6	-2.5	0.0	-0.1	0.0	0.0	-0.2	-1.1	0.1	-1.2	-0.2	-0.3	-1.9	-0.8	0.2	-0.6	-0.1	1.0	-0.2	0.6	-0.4	<b>0.4</b>	-3.0	-0.5	-0.7	0.3	0.8	0.3	
June	<b>0.1</b>	0.1	1.8	-1.9	-0.1	0.1	0.2	0.4	0.2	-0.9	0.3	-1.2	0.1	-0.2	-2.0	-0.6	0.4	-0.4	-0.1	1.0	-0.2	0.6	-0.4	<b>0.7</b>	-0.7	0.0	-0.7	0.3	1.2	0.5	
July	<b>0.2</b>	0.2	2.0	-1.1	0.5	0.1	0.4	0.8	0.2	-0.7	0.4	-1.1	0.1	-0.2	-0.4	0.1	0.0	-0.4	-0.3	0.9	-0.6	0.6	-0.6	<b>0.7</b>	-0.3	-0.1	-0.9	0.5	1.1	0.6	
August	<b>0.2</b>	0.3	2.0	-1.1	0.6	0.0	0.3	1.1	0.4	-0.3	0.4	-1.5	-0.4	-0.1	-0.6	-0.1	0.5	-0.2	-0.1	1.0	0.1	0.6	-0.5	<b>0.8</b>	0.3	-0.2	-0.8	0.5	1.2	0.6	
September	<b>0.4</b>	0.4	1.8	-1.1	0.5	-0.3	0.5	1.7	-0.1	0.0	0.5	-0.7	-0.3	0.1	-0.4	0.5	0.6	0.3	0.7	0.9	-0.1	1.1	-0.2	<b>0.7</b>	-0.1	0.2	-0.5	0.5	0.8	1.0	
October	<b>0.5</b>	0.5	1.9	-1.0	0.8	0.1	0.7	1.0	0.6	0.5	0.5	-0.3	-0.4	-0.1	-1.0	1.1	0.7	0.7	1.1	0.5	0.3	1.4	0.1	<b>1.1</b>	0.1	0.7	-0.3	0.6	1.1	0.9	
November	<b>0.6</b>	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	<b>0.5</b>	-0.2	0.7	-0.2	0.6	1.3	1.2	
December	<b>1.1</b>	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	<b>0.9</b>	-0.1	0.6	0.2	1.1	1.7	1.6	
2017 January	<b>1.8</b>	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	<b>1.3</b>	0.3	1.5	0.8	0.9	1.5	1.8	
February	<b>2.0</b>	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	<b>1.6</b>	0.5	2.5	1.2	1.4	1.9	2.3	
March	<b>1.5</b>	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	<b>1.4</b>	0.4	2.0	1.0	0.9	1.4	2.3	
April	<b>1.9</b>	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	<b>2.4</b>	0.6	1.7	0.8	1.0	2.0	2.7	
May	<b>1.4</b>	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	<b>1.7</b>	0.5	1.5	1.1	0.9	1.8	2.9	
June	<b>1.3</b>	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	<b>1.0</b>	0.7	0.9	1.0	0.9	1.8	2.6	
July	<b>1.3</b>	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	<b>1.0</b>	0.9	1.2	1.5	0.6	2.3	2.6	
August	<b>1.5</b>	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	<b>1.3</b>	0.6	1.4	1.6	0.8	2.2	2.9	
September	<b>1.5</b>	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	2.6	1.6	<b>1.6</b>	1.3	1.4	1.8	0.8	2.2	x	
October	<b>1.4 f</b>	x	x	x	x	x	1.5 f	x	x	1.7 f	1.2 f	x	x	1.1 f	0.3 f	2.7 f	4.2 f	x	x	1.6 f	x	x	x	<b>1.9</b>	x	1.3 f	1.9 f	x	x	x	

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

**Notes:** (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	IT	Italy	HR	Croatia	PL	Poland	FI	Finland
BG	Bulgaria	EL	Greece	CY	Cyprus	HU	Hungary	PT	Portugal	SE	Sweden
CZ	Czech Republic	ES	Spain	LV	Latvia	MT	Malta	RO	Romania	UK	United Kingdom
DK	Denmark	FR	France	LT	Lithuania	NL	Netherlands	SI	Slovenia		
DE	Germany	IE	Ireland	LU	Luxembourg	AT	Austria	SK	Slovakia		