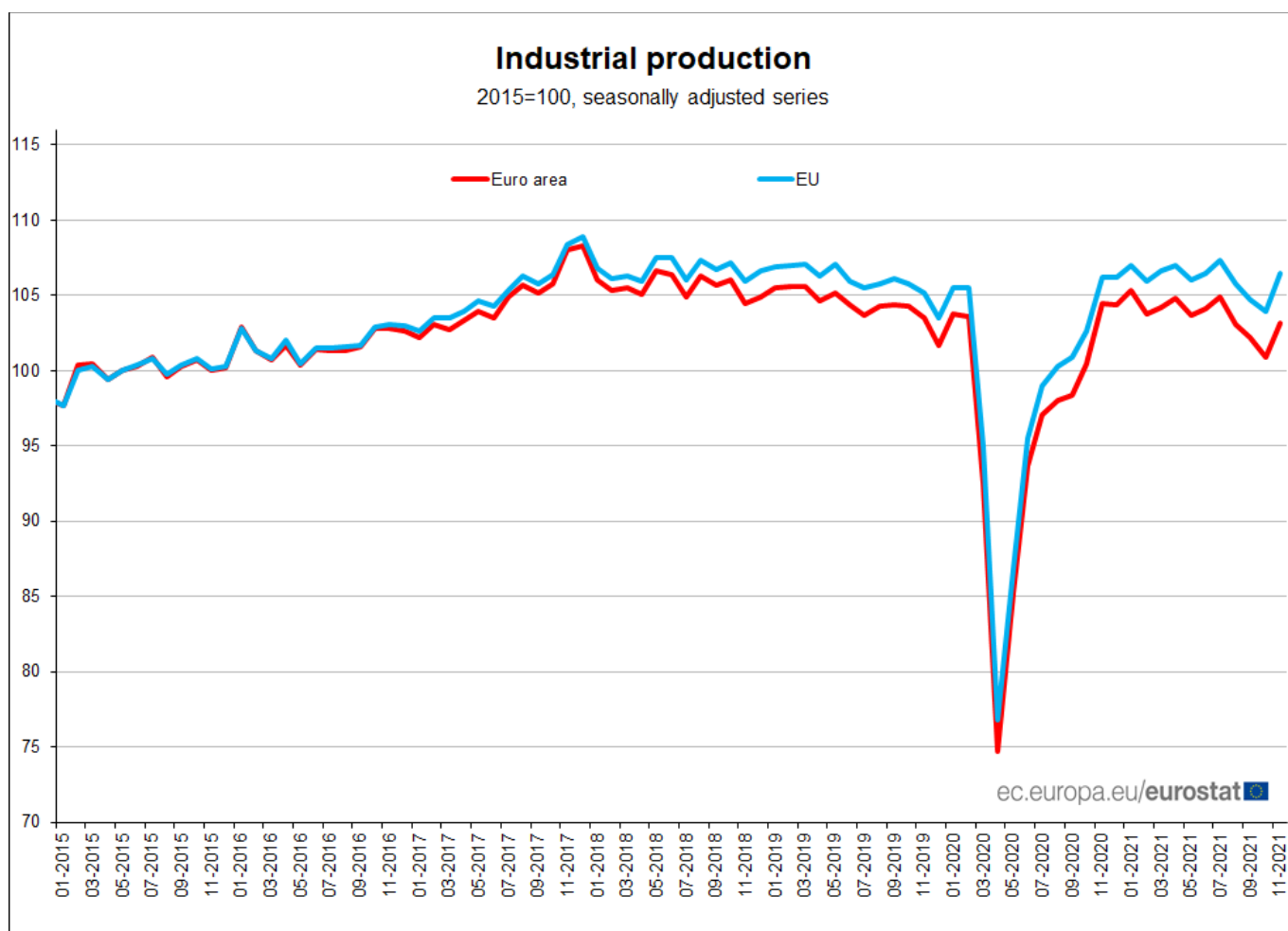November 2021 compared with October 2021

Industrial production up by 2.3% in euro area and by 2.5% in the EU

Down by 1.5% and unchanged compared with November 2020

In November 2021, the seasonally adjusted industrial production rose by 2.3% in the **euro area** and by 2.5% in the **EU**, compared with October 2021, according to estimates from **Eurostat, the statistical office of the European Union**. In October 2021, industrial production fell by 1.3% in the **euro area** and by 0.8% in the **EU**.

In November 2021 compared with November 2020, industrial production decreased by 1.5% in the **euro area** and remained unchanged in the **EU**.

Industrial production
2015=100, seasonally adjusted series

ec.europa.eu/**eurostat**

Monthly comparison by main industrial grouping and by Member State

In the **euro area** in November 2021, compared with October 2021, production of non-durable consumer goods rose by 3.2%, capital goods by 1.5%, energy by 1.2% and intermediate goods by 0.9%, while production of durable consumer goods fell by 0.2%.

In the **EU**, production of non-durable consumer goods rose by 3.0%, capital goods by 2.3%, intermediate goods by 1.4%, energy by 0.9% and durable consumer goods by 0.1%.
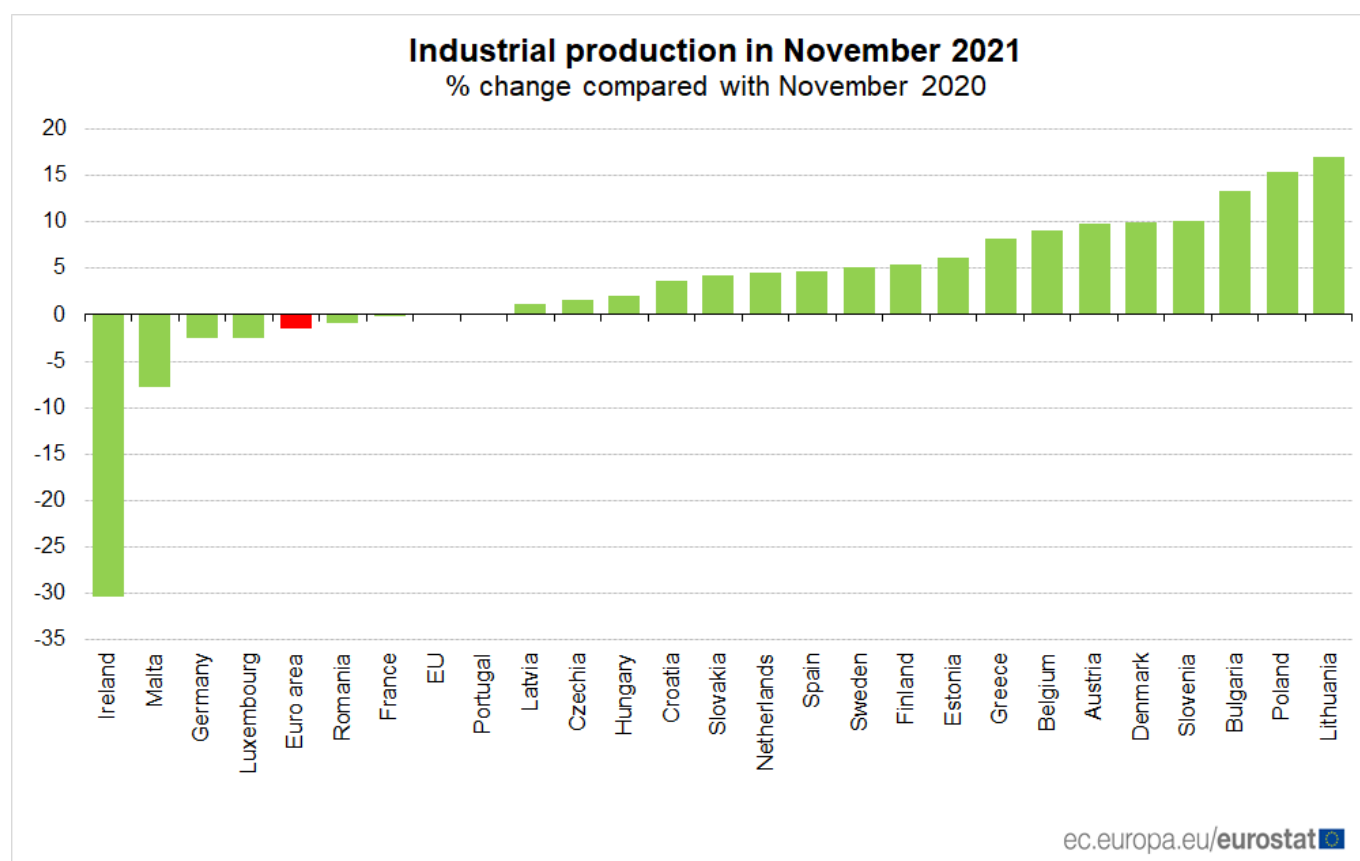
Among Member States for which data are available, the largest monthly increases were registered in **Ireland** (+37.3%), **Poland** (+5.9%) and **Czechia** (+4.8%). The highest decreases were observed in **Belgium** (-4.4%), **Malta** (-3.7%) and **Luxembourg** (-2.3%).

Annual comparison by main industrial grouping and by Member State

In the **euro area** in November 2021, compared with November 2020, production of capital goods fell by 9.8%, while intermediate goods rose by 1.9%, energy by 3.7%, durable consumer goods by 4.4% and non-durable consumer goods by 6.1%.

In the **EU**, production of capital goods fell by 8.2%, while intermediate goods rose by 2.8%, durable consumer goods by 4.9%, energy by 6.7% and non-durable consumer goods by 7.3%.

Among Member States for which data are available, the largest annual decreases were registered in **Ireland** (-30.4%), **Malta** (-7.8%), **Germany** and **Luxembourg** (both -2.5%). The highest increases were observed in **Lithuania** (+17.0%), **Poland** (+15.3%) and **Bulgaria** (+13.3%).

Geographical information

The **euro area** (EA19) includes Belgium, Germany, Estonia, Ireland, Greece, Spain, France, Italy, Cyprus, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Austria, Portugal, Slovenia, Slovakia and Finland.

The **European Union** (EU27) includes Belgium, Bulgaria, Czechia, Denmark, Germany, Estonia, Ireland, Greece, Spain, France, Croatia, Italy, Cyprus, Latvia, Lithuania, Luxembourg, Hungary, Malta, the Netherlands, Austria, Poland, Portugal, Romania, Slovenia, Slovakia, Finland and Sweden.

Methods and definitions

The **index of industrial production** measures the evolution of the volume of production for industry excluding construction, based on data adjusted for calendar and seasonal effects.

Seasonally adjusted euro area and EU series are calculated by aggregating the seasonally adjusted national data.

Total industry covers NACE rev.2 sections B to D. Missing observations from Member States for recent months are estimated for the calculation of the euro area and the EU aggregates.

Revisions and timetable

Compared with data issued in the News Release 138/2021 of 14 December 2021, the monthly percentage change for October 2021 has been revised from +1.1% to -1.3% in the euro area and from +1.2% to -0.8% in the EU. The annual percentage change has been revised from +3.3% to +0.2% in the euro area and from +3.6% to +0.9% in the EU.

CSO Ireland revised the national industrial production and turnover indices in December 2021. Further explanations on the revisions of the data for Ireland can be found here.

For more information

Eurostat database section on short-term business statistics
Eurostat Statistics Explained article on the industrial production index
Eurostat Statistics Explained article on the impact of COVID-19 crisis on industrial production
The weights of the Member States in the EU and euro area aggregates
(See file NEWS_RELEASE_WEIGHTINGS_2015)
Eurostat €-indicators release calendar
European Statistics Code of Practice

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Industrial production
% change compared with previous month*

	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21
Euro area						
Total industry	0.4	0.8	-1.7	-0.9	-1.3	**2.3**
Intermediate goods	0.2	0.3	-1.3	-0.3	-0.2	**0.9**
Energy	-0.4	-0.4	0.6	1.2	0.5	**1.2**
Capital goods	-2.1	2.3	-2.5	-1.5	1.3	**1.5**
Durable consumer goods	0.1	0.4	-3.1	0.8	1.9	**-0.2**
Non-durable consumer goods	3.9	1.9	-1.9	-0.1	-4.5	**3.2**
EU						
Total industry	0.5	0.8	-1.4	-1.0	-0.8	**2.5**
Intermediate goods	0.3	0.2	-1.4	-0.1	-0.1	**1.4**
Energy	0.1	0.0	0.7	0.9	2.3	**0.9**
Capital goods	-1.7	2.1	-3.0	-1.5	1.5	**2.3**
Durable consumer goods	0.4	-0.7	-2.6	0.9	1.6	**0.1**
Non-durable consumer goods	3.3	1.6	-0.7	-0.7	-3.4	**3.0**

Source dataset: sts_inpr_m

Total industry	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21
Euro area	0.4	0.8	-1.7	-0.9	-1.3	**2.3**
EU	0.5	0.8	-1.4	-1.0	-0.8	**2.5**
Belgium	8.2	-4.3	-2.3	0.4	1.5	**-4.4**
Bulgaria	0.4	0.9	2.1	1.4	1.0	**1.4**
Czechia	1.3	0.6	-2.0	-3.3	1.1	**4.8**
Denmark	-1.6	4.7	4.5	-7.1	2.7	**3.0**
Germany	-0.5	1.2	-3.7	-1.0	2.8	**-0.1**
Estonia	3.0	-1.0	-2.9	4.4	-2.9	**2.7**
Ireland**	-1.6	1.3	-3.4	-5.6	-32.1	**37.3**
Greece	-0.6	2.5	0.6	1.4	2.5	**-1.2**
Spain	0.3	0.6	-0.4	0.4	-0.3	**1.8**
France	0.6	0.5	0.9	-1.6	0.9	**-0.5**
Croatia	0.7	-1.1	0.7	-1.2	1.8	**-1.4**
Italy	c	c	c	c	c	**c**
Cyprus	-3.0	2.7	3.1	-4.8	2.4	**:**
Latvia	1.2	1.0	-2.1	1.4	-1.5	**0.2**
Lithuania	0.1	-1.8	2.7	5.0	0.8	**-0.5**
Luxembourg	0.6	-2.6	2.9	-0.8	0.3	**-2.3**
Hungary	-0.4	-0.6	-2.8	-0.2	0.4	**2.9**
Malta	3.9	-1.3	-6.3	-0.6	1.7	**-3.7**
Netherlands	2.1	0.9	-2.5	0.9	-0.7	**0.6**
Austria	0.3	1.8	1.2	-1.5	2.8	**1.2**
Poland	1.0	0.9	-1.2	0.7	1.8	**5.9**
Portugal	-2.2	3.6	-1.9	2.0	0.4	**1.2**
Romania	0.3	-0.9	-0.4	-2.3	0.6	**2.5**
Slovenia	2.2	-1.7	0.9	0.9	0.7	**2.8**
Slovakia	2.9	1.1	-3.7	-1.4	3.3	**3.5**
Finland	-1.7	0.3	1.2	0.8	0.0	**0.6**
Sweden	1.1	0.3	-1.7	0.0	1.9	**0.1**
Norway	1.1	0.0	2.7	3.2	-5.3	**-3.0**
Switzerland	-0.1	0.7	-0.4	1.0	:	**:**

*   Calendar and seasonally adjusted
** CSO Ireland is carrying out a review of the seasonal adjustment methodology for industrial production
:   Data not available
c   Confidential

Source dataset: sts_inpr_m

Industrial production
% change compared with same month of the previous year*

	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21
Euro area						
Total industry	10.8	8.5	5.7	4.1	0.2	**-1.5**
Intermediate goods	15.9	11.2	6.9	5.0	2.4	**1.9**
Energy	1.1	-0.6	-1.9	-0.1	-1.1	**3.7**
Capital goods	7.8	7.6	4.8	2.9	-2.3	**-9.8**
Durable consumer goods	16.1	9.6	-1.9	1.7	2.7	**4.4**
Non-durable consumer goods	13.9	11.3	11.3	8.0	1.7	**6.1**
EU						
Total industry	11.4	8.8	5.7	3.9	0.9	**0.0**
Intermediate goods	16.2	11.7	7.0	5.3	2.8	**2.8**
Energy	2.8	1.1	0.5	2.1	3.4	**6.7**
Capital goods	9.2	7.9	3.7	1.5	-2.8	**-8.2**
Durable consumer goods	16.3	8.7	-0.4	2.2	2.9	**4.9**
Non-durable consumer goods	12.4	10.7	10.7	7.8	3.6	**7.3**

Source dataset: sts_inpr_m

Total industry	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21
Euro area	10.8	8.5	5.7	4.1	0.2	**-1.5**
EU	11.4	8.8	5.7	3.9	0.9	**0.0**
Belgium	34.8	21.8	18.8	17.8	12.6	**9.0**
Bulgaria	10.4	8.6	10.7	9.8	9.7	**13.3**
Czechia	11.1	5.1	-1.6	-3.9	-4.9	**1.6**
Denmark	3.9	15.8	14.4	5.1	14.6	**10.0**
Germany	6.9	6.6	2.7	-0.7	-1.3	**-2.5**
Estonia	10.2	7.9	5.3	8.1	2.5	**6.2**
Ireland	14.8	26.3	33.5	25.1	-10.9	**-30.4**
Greece	9.4	8.2	10.1	10.3	17.1	**8.2**
Spain	11.3	3.3	1.8	0.7	-0.8	**4.7**
France	7.3	4.4	4.9	0.4	-0.3	**-0.2**
Croatia	8.2	4.0	5.4	2.8	2.6	**3.6**
Italy	c	c	c	c	c	**c**
Cyprus	6.3	6.1	9.0	0.8	2.1	**:**
Latvia	7.6	9.0	4.3	5.9	2.4	**1.1**
Lithuania	20.5	15.6	14.5	20.2	22.8	**17.0**
Luxembourg	11.4	1.9	5.7	0.8	0.8	**-2.5**
Hungary	18.6	10.2	0.4	-1.6	-2.7	**2.1**
Malta	14.5	7.6	-4.3	-3.7	-5.2	**-7.8**
Netherlands	12.4	9.8	5.3	7.0	3.1	**4.5**
Austria	15.6	11.4	11.0	6.9	8.2	**9.8**
Poland	18.3	12.2	10.5	8.7	10.0	**15.3**
Portugal	10.6	0.3	-7.6	-4.5	-6.1	**0.2**
Romania	12.7	5.6	1.3	-3.7	-6.4	**-0.9**
Slovenia	19.5	8.1	7.4	8.1	5.9	**10.1**
Slovakia	13.7	7.8	0.7	-4.8	-0.6	**4.3**
Finland	4.2	3.5	4.0	6.8	5.1	**5.4**
Sweden	15.3	11.0	1.7	2.8	5.2	**5.1**
Norway	4.4	1.3	2.7	7.9	6.8	**2.3**
Switzerland	12.9	10.3	8.6	6.5	:	**:**

*   Calendar adjusted
:   Data not available
c   Confidential
Source dataset: sts_inpr_m

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Production indices for total industry, calendar and seasonally adjusted
(base year 2015)

	11/20	12/20	01/21	02/21	03/21	04/21	05/21	06/21	07/21	08/21	09/21	10/21	11/21
Euro area	104.5	104.4	105.3	103.8	104.2	104.8	103.7	104.1	104.9	103.1	102.2	100.9	**103.2**
EU	106.2	106.2	107.0	105.9	106.6	107.0	106.0	106.5	107.3	105.8	104.7	103.9	**106.5**
Belgium	116.0	113.9	120.7	118.5	123.0	128.3	128.4	138.9	132.9	129.8	130.3	132.3	**126.5**
Bulgaria	102.2	102.3	103.3	104.2	109.2	108.8	107.3	107.7	108.7	111.0	112.5	113.6	**115.2**
Czechia	112.6	113.2	112.4	110.7	113.2	114.8	111.2	112.6	113.3	111.0	107.3	108.5	**113.7**
Denmark	107.4	108.8	109.4	108.0	114.1	111.0	111.9	110.1	115.3	120.5	112.0	115.0	**118.5**
Germany	95.6	96.8	96.7	94.7	95.4	95.5	94.6	94.1	95.2	91.7	90.8	93.3	**93.2**
Estonia	116.6	117.8	115.5	115.5	115.6	121.4	120.4	124.0	122.7	119.1	124.3	120.7	**124.0**
Ireland*	174.7	165.2	159.9	161.9	153.1	151.1	145.9	143.5	145.4	140.4	132.6	90.1	**123.7**
Greece	110.7	110.9	114.6	111.7	114.2	119.1	113.8	113.1	115.9	116.6	118.2	121.1	**119.7**
Spain	101.5	102.2	101.4	101.9	102.0	103.1	102.3	102.6	103.2	102.8	103.2	102.9	**104.8**
France	98.6	98.2	101.6	96.9	97.8	97.7	97.4	98.0	98.5	99.4	97.8	98.7	**98.2**
Croatia	104.9	105.7	107.4	109.7	113.0	110.7	109.3	110.1	108.9	109.7	108.4	110.4	**108.8**
Italy	c	c	c	c	c	c	c	c	c	c	c	c	**c**
Cyprus	128.6	128.2	128.5	128.8	128.3	129.6	130.3	126.4	129.8	133.8	127.4	130.4	**:**
Latvia	119.8	120.8	119.0	120.4	120.9	123.9	121.2	122.6	123.8	121.2	122.9	121.1	**121.4**
Lithuania	119.0	119.7	122.6	126.0	132.0	129.7	139.0	139.2	136.7	140.4	147.4	148.6	**147.8**
Luxembourg	95.0	91.5	96.5	94.8	95.4	96.6	94.6	95.2	92.7	95.4	94.6	94.9	**92.7**
Hungary	117.5	115.9	115.0	120.7	120.7	116.7	120.6	120.1	119.4	116.1	115.9	116.4	**119.8**
Malta	105.4	105.3	104.6	100.2	101.6	107.6	104.3	108.4	107.0	100.3	99.7	101.4	**97.6**
Netherlands	99.7	99.8	101.4	99.2	102.3	102.5	103.0	105.2	106.1	103.4	104.3	103.6	**104.2**
Austria	112.1	112.4	114.5	114.4	116.2	117.2	116.3	116.7	118.8	120.2	118.4	121.7	**123.2**
Poland	127.6	128.0	129.8	130.2	133.7	132.7	134.8	136.2	137.4	135.7	136.6	139.1	**147.3**
Portugal	100.0	101.7	100.9	102.1	101.7	102.2	97.3	95.2	98.6	96.7	98.6	99.0	**100.2**
Romania	111.8	112.8	113.5	113.4	115.8	120.1	110.0	110.3	109.3	108.9	106.4	107.0	**109.7**
Slovenia	123.0	122.4	124.9	126.2	127.0	128.4	127.7	130.5	128.3	129.4	130.5	131.4	**135.1**
Slovakia	112.8	112.9	113.5	113.6	113.9	113.1	110.6	113.8	115.0	110.8	109.3	112.9	**116.9**
Finland	110.3	110.1	110.5	113.1	110.7	112.2	114.5	112.6	112.9	114.3	115.2	115.2	**115.9**
Sweden	110.4	111.6	111.4	112.6	114.8	114.2	113.9	115.2	115.5	113.5	113.5	115.7	**115.8**
Norway	98.9	102.1	103.2	101.8	102.8	102.7	102.4	103.5	103.5	106.3	109.7	103.9	**100.8**
Switzerland	116.6	115.8	118.7	119.2	126.9	125.9	122.3	122.2	123.0	122.5	123.7	:	**:**

* CSO Ireland is carrying out a review of the seasonal adjustment methodology for industrial production
: Data not available
c Confidential
Source dataset: sts_inpr_m

Production indices for total industry, calendar adjusted
(base year 2015)

	11/18	11/19	11/20	12/20	01/21	02/21	03/21	04/21	05/21	06/21	07/21	08/21	09/21	10/21	11/21
Euro area	110.4	109.5	110.6	97.3	103.5	99.9	110.2	104.9	102.1	104.6	107.4	87.1	107.5	108.6	**108.9**
EU	111.9	111.3	112.5	99.6	105.0	102.1	113.2	107.1	104.8	107.4	107.9	90.5	109.8	111.6	**112.5**
Belgium	113.6	116.5	117.0	111.3	118.1	114.7	131.6	124.6	126.4	148.9	124.4	120.8	135.9	140.2	**127.5**
Bulgaria	114.3	113.9	108.4	104.3	99.6	100.2	112.1	105.5	102.4	110.4	112.4	107.0	113.4	119.3	**122.8**
Czechia	124.1	120.4	123.4	105.3	108.9	107.8	122.8	115.7	113.1	117.1	102.6	98.0	110.9	116.0	**125.4**
Denmark	118.6	112.5	114.7	105.1	110.9	104.2	120.8	106.5	110.4	108.7	101.0	115.2	119.3	124.0	**126.2**
Germany	109.6	105.8	102.0	91.2	90.6	91.2	103.2	94.4	93.1	95.5	95.3	86.1	95.0	96.7	**99.4**
Estonia	121.7	123.9	121.9	112.9	110.6	109.0	122.5	120.9	125.1	124.4	111.2	117.1	128.8	129.6	**129.5**
Ireland	111.9	121.7	197.4	126.0	189.3	127.6	121.6	170.6	119.2	105.2	167.8	114.7	162.4	133.7	**137.3**
Greece	109.4	98.5	107.5	110.0	106.4	108.9	115.6	119.0	113.7	117.3	128.5	111.0	122.2	118.4	**116.3**
Spain	108.6	110.8	106.6	95.2	100.2	101.3	108.5	102.2	106.6	105.0	107.1	81.4	104.8	108.0	**111.6**
France	106.8	107.5	101.9	98.7	103.7	96.4	107.2	98.1	93.2	102.0	97.1	76.4	99.4	105.3	**101.7**
Croatia	112.6	112.1	110.2	102.8	97.2	105.8	118.8	110.5	111.8	109.8	115.0	96.3	110.8	117.7	**114.2**
Italy	c	c	c	c	c	c	c	c	c	c	c	c	c	c	**c**
Cyprus	124.3	127.0	126.4	127.9	120.6	120.0	125.4	121.7	130.7	136.5	151.9	119.2	137.4	134.3	**:**
Latvia	121.8	121.8	125.5	123.6	94.1	102.9	116.8	122.8	123.9	131.5	127.8	129.9	130.0	130.2	**126.9**
Lithuania	123.6	127.2	126.3	120.4	124.5	122.3	139.3	128.4	137.4	137.6	132.7	135.6	146.2	155.5	**147.8**
Luxembourg	105.5	97.8	96.8	84.1	93.4	91.8	104.3	98.4	95.8	97.6	92.9	83.7	97.4	101.1	**94.4**
Hungary	116.8	122.9	125.2	104.7	110.3	120.8	130.1	115.6	121.9	124.7	115.4	104.0	123.6	123.9	**127.8**
Malta	111.6	107.4	105.8	90.0	101.5	94.1	101.3	109.7	107.6	113.6	115.2	96.9	103.8	108.2	**97.6**
Netherlands	108.9	107.0	104.5	99.6	101.2	95.5	109.2	100.2	102.3	107.2	102.9	94.0	106.6	108.5	**109.2**
Austria	123.5	118.0	119.3	111.0	101.1	108.3	127.9	116.2	114.5	121.2	121.0	106.3	124.2	128.6	**131.0**
Poland	122.5	129.2	133.0	123.0	125.0	126.0	144.5	132.7	134.0	136.7	132.3	126.5	140.5	149.3	**153.4**
Portugal	105.6	105.7	102.5	92.6	102.1	102.1	105.8	101.2	101.5	98.2	104.3	82.4	101.0	100.3	**102.7**
Romania	126.5	117.2	116.6	106.1	107.7	106.9	119.5	115.1	112.4	113.7	110.3	100.5	108.7	110.9	**115.5**
Slovenia	127.2	129.3	128.3	109.0	119.5	123.5	138.5	128.1	132.4	135.9	130.5	109.3	135.9	140.1	**141.2**
Slovakia	124.5	119.7	122.4	101.8	109.4	114.7	126.3	114.0	110.8	118.7	103.9	101.3	109.0	118.3	**127.7**
Finland	115.5	117.1	115.7	118.8	104.4	105.7	118.8	111.7	112.5	112.6	100.0	110.2	118.5	121.6	**121.9**
Sweden	117.9	120.6	118.6	114.4	109.0	112.3	129.1	116.3	114.1	120.9	90.8	96.3	116.5	123.3	**124.6**
Norway	106.7	105.7	105.0	105.7	112.3	102.1	108.0	99.9	101.0	97.7	92.6	102.7	103.4	109.7	**107.4**
Switzerland	120.2	122.8	122.0	114.8	116.5	110.7	138.0	118.7	120.0	133.3	121.3	106.8	126.5	:	**:**

:   Data not available
c   Confidential
Source dataset: sts_inpr_m