100/2023 - 7 September 2023

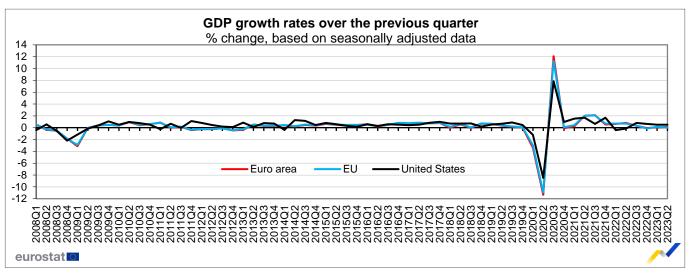
GDP main aggregates and employment estimates for the second quarter of 2023

# GDP up by 0.1% and employment up by 0.2% in the euro area

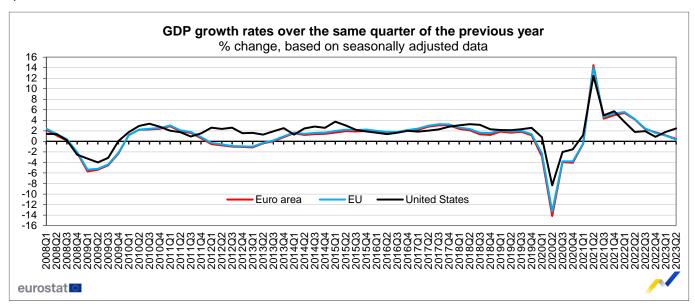
In the EU, GDP stable and employment up by 0.1%

# GDP growth in the euro area and the EU

In the second quarter of 2023, seasonally adjusted GDP increased by 0.1% in the **euro area** and was stable in the **EU**, compared with the previous quarter, according to an estimate published by **Eurostat**, **the statistical office of the European Union**. In the first quarter of 2023, GDP had increased by 0.1% in the **euro area** and by 0.2% in the **EU**.



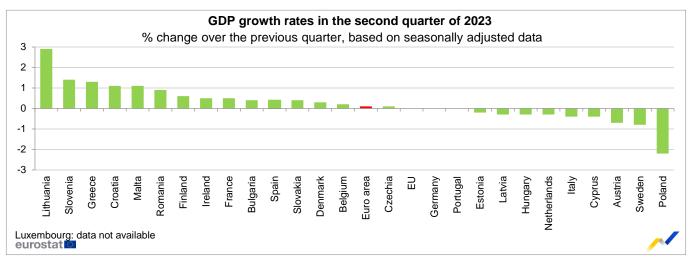
Compared with the same quarter of the previous year, seasonally adjusted GDP increased by 0.5% in the **euro area** and by 0.4% in the **EU** in the second quarter of 2023, after increases of 1.1% in both zones in the previous quarter.



During the second quarter of 2023, GDP in the **United States** increased by 0.5% compared to the previous quarter (after +0.5% in the first quarter of 2023). Compared with the same quarter of the previous year, GDP increased by 2.5% (after +1.8% in the previous quarter).

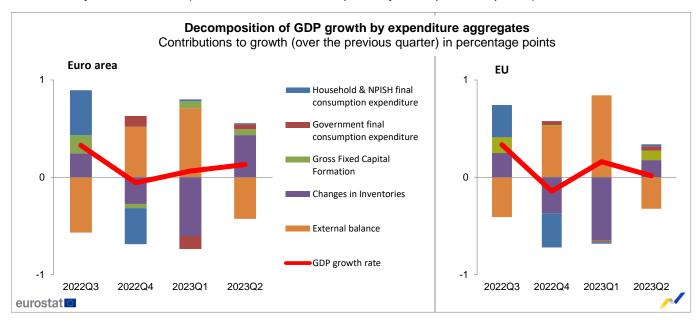
## **GDP** growth by Member State

**Lithuania** (+2.9%) recorded the highest increase of GDP compared to the previous quarter, followed by **Slovenia** (+1.4%) and **Greece** (+1.3%). The highest decreases were observed in **Poland** (-2.2%), **Sweden** (-0.8%) and **Austria** (-0.7%).



# GDP components and contributions to growth

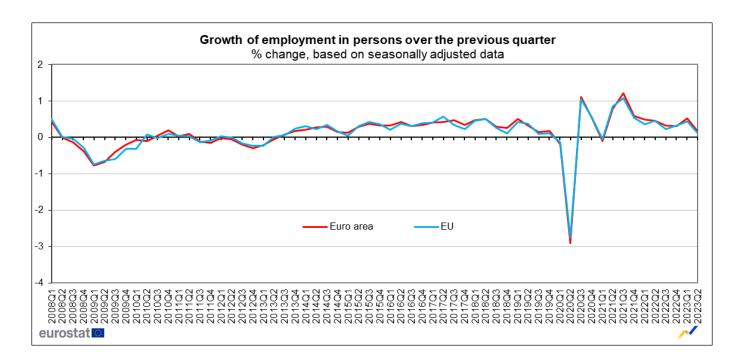
During the second quarter of 2023, household final consumption expenditure was stable in both the **euro area** and the **EU** (0.0% in the previous quarter). Government final consumption expenditure increased by 0.2% in both zones (after -0.6% in the **euro area** and -0.1% in the **EU** in the previous quarter). Gross fixed capital formation increased by 0.3% in the **euro area** and by 0.4% in the **EU** (after +0.3% and 0.0% respectively). Exports decreased by 0.7% in both zones (after 0.0% in the **euro area** and +0.1% in the **EU**). Imports increased by 0.1% in the **euro area** and decreased by 0.2% in the **EU** (after -1.3% and -1.4% respectively in the previous quarter).



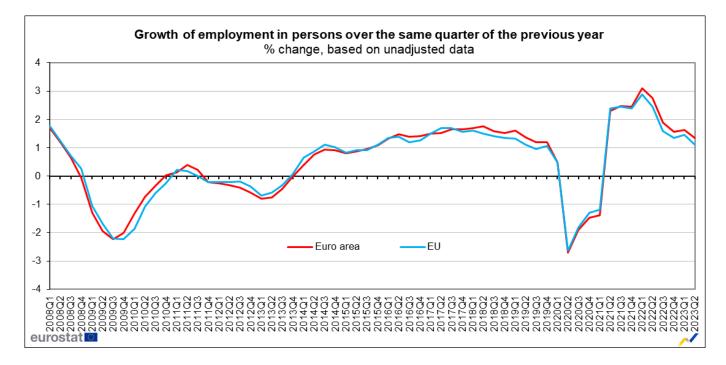
Household final consumption expenditure had negligible contributions to GDP growth in both the **euro area** and the **EU**. The contributions from government final expenditure were positive for the **euro area** (+0.1 pp) and negligible for the **EU**. The contributions of gross fixed capital formation were positive for the **euro area** and for the **EU** (+0.1 pp for both zones). The contributions from the external balance were negative (-0.4 pp for the **euro area** and -0.3 pp for the **EU**). The contributions from changes in inventories were positive for the **euro area** and for the **EU** (+0.4 pp the **euro area** and +0.2 pp for the **EU**).

# Employment growth in the euro area and EU

The number of employed persons increased by 0.2% in the **euro area** and by 0.1% in the **EU** in the second quarter of 2023, compared with the previous quarter. In the first quarter of 2023, employment had increased by 0.5% in the **euro area** and by 0.4% in the **EU**.



Compared with the same quarter of the previous year, employment increased by 1.3% in the **euro area** and by 1.1% the **EU** in the second quarter of 2023, after +1.6% in the **euro area** and +1.5% the **EU** in the first quarter of 2023.

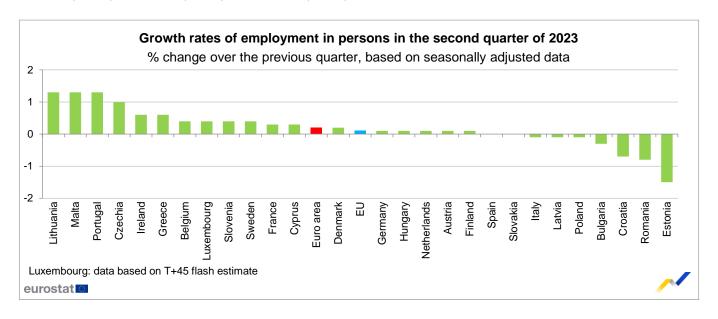


Hours worked increased by 0.2% in the **euro area** and decreased by 0.1% in the **EU** in the second quarter of 2023, compared with the previous quarter. Compared with the same quarter of the previous year, the hours worked increased by 0.9% in the **euro area** and by 0.5% in the **EU**.

These data provide a picture of labour input consistent with the output and income measure of national accounts.

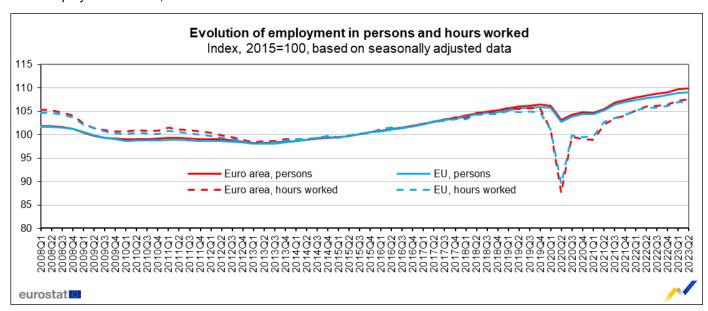
## **Employment growth in Member States**

In the second quarter of 2023, **Lituania**, **Malta** and **Portugal** (all +1.3%) recorded the highest growth of employment in persons compared with the previous quarter. The highest decline of employment was recorded in **Estonia** (-1.5%), **Romania** (-0.8%) and **Croatia** (-0.7%).



## Employment levels in the euro area and EU

Based on seasonally adjusted figures, Eurostat estimates that in the second quarter of 2023, 216.3 million people were employed in the **EU**, of which 168.5 million were in the **euro area**.

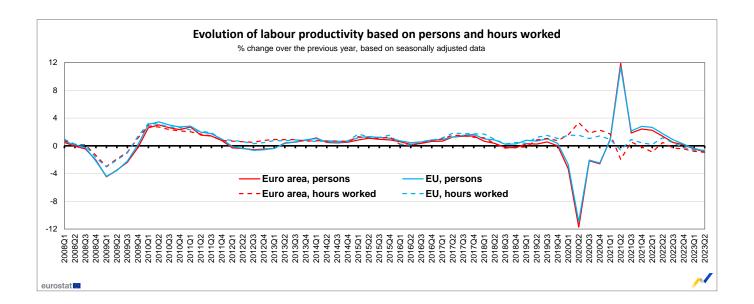


## Evolution of labour productivity in the euro area and EU

The combination of GDP and employment data allows an estimation of **labour productivity**. The analysis of growth compared to the same quarter of the previous year shows that productivity growth fluctuated around 1% for both zones between 2013 and 2018 before the COVID-19 pandemic caused high volatility in 2020.

In the second quarter of 2023, productivity based on persons decreased by 0.9% in the **euro area** and by 0.7% in the **EU** compared to the same quarter of the previous year.

Based on hours worked, productivity compared to the same quarter of the previous year decreased by 0.9% in the **euro area** and by 0.6% in the **EU**.



#### **Geographical information**

Euro area (EA20): Belgium, Germany, Estonia, Ireland, Greece, Spain, France, Croatia, Italy, Cyprus, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Austria, Portugal, Slovenia, Slovakia and Finland.

European Union (EU27): 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**

European quarterly national accounts are compiled in accordance with the European System of Accounts 2010 (ESA 2010). They include key policy indicators on GDP and employment.

Gross domestic product (GDP) at market prices measures the production activity of resident producer units. Growth rates are based on chain-linked volumes.

Employment covers employees and self-employed working in resident production units (domestic concept). Employment flash estimates are limited to total employment in persons, but regular estimates also cover hours worked and industry breakdowns.

Labour productivity is compiled as the ratio of economic output (GDP, chain-linked volumes with reference year 2010) to labour input (total employment measured in persons or hours worked, for all industries, according to the domestic concept).

## Release schedule of main aggregates

This news release presents estimates for euro area and EU GDP and employment aggregates based on national accounts transmission from all Member States due after t+2 months.

A further estimation is done at around t+110 days after some countries transmit updated estimates.

To increase the timeliness of key indicators, Eurostat also publishes flash estimates for GDP (after around 30 and 45 days) and employment (after around 45 days). The flash estimates are based on estimates provided by most EU Member States on a voluntary basis.

#### Revisions and timetable

The reliability of GDP and employment flash estimates was tested by dedicated working groups and revisions are continuously monitored. Further information can be found on Eurostat website. The method used for compilation of European GDP and employment estimates is the same as for previous releases.

With these estimates, euro area and EU employment and GDP figures for earlier quarters are revised.

Flash estimates of employment and GDP growth were published in News Release 91/2023 issued on 16 August 2023. They were based on a more limited data set than the one used for the present News Release and additionally, on preliminary estimates that have now been revised by some Member States. Revisions for the last quarter are highlighted in **bold** in the table below:

Growth rates	t	o the previous	quarter (Q/Q-1	)	to the previous year (Q/Q-4)							
Estimates	Prev	ious	Cur	rent	Prev	ious	Current					
Zone	Euro area	EU	Euro area	EU	Euro area	EU	Euro area	EU				
GDP	0.3	0.0	0.1	0.0	0.6	0.5	0.5	0.4				
Employment	0.2	0.2 0.2 0.2		0.1	1.5	1.3	1.3	1.1				

All estimates presented in this release may be revised with the t+110 database update scheduled for 19 October 2023.

## For more information

Eurostat website section on national accounts, notably information on European GDP and employment estimates

Eurostat database section on national accounts and Eurostat metadata on quarterly national accounts

Eurostat Statistics Explained articles on measuring quarterly GDP and presentation of updated quarterly estimates

Country specific metadata

Country specific metadata on the recording of Ukrainian refugees in main aggregates of national accounts

European System of Accounts 2010

Eurostat Euro indicators dashboard

Eurostat €-indicators release calendar

**European Statistics Code of Practice** 

#### For further information on data:

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estat-gdp-query@ec.europa.eu

Media requests: eurostat-mediasupport@ec.europa.eu / Tel: +352-4301-33 408













# Growth rates of GDP in volume

(based on seasonally adjusted\* data)

	Percent		compared quarter	with the		tage change quarter of t		
	2022Q3	2022Q4	2023Q1	2023Q2	2022Q3	2022Q4	2023Q1	2023Q2
Euro area 20	0.3	-0.1	0.1	0.1	2.3	1.7	1.1	0.5
EU	0.3	-0.1	0.2	0.0	2.5	1.6	1.1	0.4
Belgium	0.3	0.1	0.4	0.2	2.1	1.5	1.3	0.9
Bulgaria	0.5	0.5	0.4	0.4	3.1	2.1	2.2	1.9
Czechia	-0.2	-0.4	0.0	0.1	1.4	0.1	-0.4	-0.4
Denmark	-0.1	0.5	0.7	0.3	2.3	0.4	2.0	1.5
Germany	0.4	-0.4	-0.1	0.0	1.2	0.8	-0.3	-0.1
Estonia	-0.7	-1.4	-0.7	-0.2	-0.9	-3.2	-3.8	-3.0
Ireland	2.4	-0.9	-2.6	0.5	8.9	10.8	1.0	-0.7
Greece	0.3	1.2	0.0	1.3	4.1	4.8	2.0	2.7
Spain	0.4	0.4	0.5	0.4	4.9	3.0	4.2	1.8
France	0.3	0.1	0.0	0.5	1.2	0.7	0.8	1.0
Croatia	-0.5	0.5	1.3	1.1	5.5	3.7	2.6	2.5
Italy	0.3	-0.2	0.6	-0.4	2.5	1.5	2.0	0.4
Cyprus	1.4	0.2	1.1	-0.4	5.6	4.0	3.2	2.3
Latvia	-1.3	1.1	0.5	-0.3	0.8	1.2	0.3	-0.1
Lithuania	0.7	-0.5	-2.1	2.9	1.4	-0.4	-2.6	1.0
Luxembourg	1.5	-3.7	2.0	:	3.8	-2.2	-0.4	:
Hungary	-1.0	-0.6	-0.4	-0.3	3.7	0.7	-1.2	-2.3
Malta	0.6	1.6	0.6	1.1	4.8	5.3	5.0	3.9
Netherlands**	-0.2	0.9	-0.4	-0.3	3.0	3.2	1.7	-0.3
Austria	-0.4	-0.2	0.4	-0.7	1.9	2.7	1.8	-0.9
Poland	1.2	-2.0	1.6	-2.2	5.0	1.0	-0.6	-1.4
Portugal	0.3	0.3	1.6	0.0	4.8	3.2	2.5	2.3
Romania	0.4	0.9	0.5	0.9	3.7	4.0	2.9	2.7
Slovenia	-1.3	0.8	0.7	1.4	3.9	1.3	0.9	1.6
Slovakia	0.4	0.3	0.3	0.4	1.2	1.0	1.1	1.3
Finland**	-0.5	-0.6	0.3	0.6	1.2	-0.4	0.0	-0.4
Sweden**	0.4	-0.8	0.4	-0.8	2.8	-0.4	0.8	-2.4
Iceland***	-2.2	2.7	1.6	2.2	4.7	5.1	6.0	4.2
Norway	1.2	-0.1	0.3	0.0	2.3	1.7	2.7	1.5
Switzerland	0.3	0.0	0.3	0.0	1.4	1.2	1.4	0.6
United States	0.8	0.6	0.5	0.5	1.9	0.9	1.8	2.5

Data not available

Source datasets: namq\_10\_gdp and naidq\_10\_gdp (for United States data); gross value added by industry is available in namq\_10\_a10

Growth rates to the previous quarter and to the same quarter of the previous year presented in this table are generally both based on seasonally and calendar adjusted figures since unadjusted data are usually not transmitted for the compilation of GDP flash estimates. Percentage change compared with the same quarter of the previous year calculated from calendar adjusted data.

The seasonal adjustment does not include a calendar adjustment for Iceland.

# **Growth rates of employment in persons\***

	Perce	ntage chang the previo		d with		ntage chang ne quarter o		
	2022Q3	2022Q4	2023Q1	2023Q2	2022Q3	2022Q4	2023Q1	2023Q2
Euro area 20	0.3	0.3	0.5	0.2	1.9	1.6	1.6	1.3
EU	0.2	0.3	0.4	0.1	1.6	1.3	1.5	1.1
Belgium	0.3	0.1	0.2	0.4	1.9	1.5	1.1	1.0
Bulgaria	0.2	0.1	0.3	-0.3	1.2	1.0	1.8	0.1
Czechia	-0.3	-0.1	0.2	1.0	1.4	1.1	1.3	0.9
Denmark	0.4	0.4	0.3	0.2	2.7	2.2	1.7	1.3
Germany	0.1	0.2	0.2	0.1	1.2	1.1	0.9	0.7
Estonia	0.2	0.7	4.1	-1.5	3.7	3.7	5.0	3.4
Ireland	-0.3	1.3	1.8	0.6	3.4	2.7	4.1	3.5
Greece	0.1	0.6	-0.3	0.6	1.3	1.1	1.2	1.2
Spain	1.3	0.5	1.3	0.0	2.4	1.5	2.5	3.2
France	0.4	0.3	0.3	0.3	2.3	1.8	1.6	1.4
Croatia	0.5	0.5	1.0	-0.7	2.3	1.4	2.4	1.1
Italy	-0.1	0.4	0.8	-0.1	1.3	1.3	2.2	0.9
Cyprus	0.8	0.4	0.2	0.3	3.4	3.0	2.0	1.5
Latvia	0.5	-0.5	0.4	-0.1	3.0	2.7	1.0	0.2
Lithuania	1.6	-0.5	-1.5	1.3	5.7	3.6	1.1	0.1
Luxembourg**	0.8	0.7	0.5	0.4	3.5	3.3	2.9	2.5
Hungary	0.0	-0.1	0.0	0.1	1.4	0.5	0.1	0.1
Malta	1.1	1.7	1.8	1.3	6.5	7.8	8.1	5.2
Netherlands	0.5	0.6	0.3	0.1	3.4	3.4	2.4	1.6
Austria	0.1	0.3	0.5	0.1	1.4	1.5	1.5	1.0
Poland	-0.4	0.7	0.7	-0.1	-0.9	-0.2	1.2	0.7
Portugal	-0.2	-0.8	1.2	1.3	1.3	0.4	0.3	1.4
Romania	-0.1	0.1	-1.1	-0.8	-0.1	0.1	-1.2	-1.9
Slovenia	0.2	0.3	0.2	0.4	2.0	1.6	1.1	1.2
Slovakia	0.1	0.2	-0.1	0.0	1.5	1.1	0.5	0.1
Finland	0.3	-0.2	0.6	0.1	3.8	2.1	1.6	0.9
Sweden	0.4	0.4	0.6	0.4	2.6	2.2	2.3	1.7
Iceland	1.3	1.7	1.3	0.9	5.4	5.8	6.2	5.3
Norway	0.5	0.5	0.4	0.1	3.5	2.6	2.2	1.6
Switzerland	0.3	0.4	1.2	0.9	1.3	0.9	2.1	2.9

Percentage change in the number of persons employed in resident production units compared with the previous quarter based on seasonally adjusted data. Percentage change compared with the same quarter of the previous year based on non-seasonally adjusted data.

See predefined tables:  $\underline{\text{tec00108}}$  (quarterly change),  $\underline{\text{teina305}}$  (annual change),  $\underline{\text{tec00109}}$  (levels) Source dataset:  $\underline{\text{namq}}$   $\underline{\text{10}}$   $\underline{\text{a10}}$   $\underline{\text{e}}$  (including breakdowns by industry)

Data based on T+45 flash estimate

# Growth rates of employment in hours worked\*

	Perce		ge compare us quarter		ntage chang ne quarter o			
	2022Q3	2022Q4	2023Q1	2023Q2	2022Q3	2022Q4	2023Q1	2023Q2
Euro area 20	0.1	0.2	0.9	0.2	2.4	1.3	2.2	0.9
EU	-0.1	0.4	0.8	-0.1	1.8	1.1	2.0	0.5
Belgium	:	:	:	:	:	:	:	:
Bulgaria	-0.2	0.4	3.9	-3.8	0.1	1.1	4.6	0.2
Czechia	0.4	1.0	-0.6	0.2	2.9	3.0	1.6	-0.3
Denmark	0.3	0.2	0.2	0.0	2.8	2.1	1.0	0.7
Germany	0.5	-1.0	1.2	0.7	2.6	-0.8	1.0	0.8
Estonia	6.3	-4.0	1.3	-0.8	4.3	4.5	3.5	2.6
Ireland	-0.2	1.2	1.5	-0.9	4.2	3.9	3.8	1.3
Greece	-3.8	5.6	1.7	-1.2	0.1	1.5	2.5	2.1
Spain	-0.4	-0.3	0.1	1.3	3.7	2.6	1.7	0.4
France	0.4	0.6	0.6	0.4	2.1	1.3	2.1	1.3
Croatia	0.8	0.9	0.4	-0.6	2.4	1.4	2.5	1.2
Italy	0.0	0.6	1.2	-0.5	2.1	1.8	4.1	0.6
Cyprus	0.9	0.5	0.4	0.3	4.4	3.6	2.7	1.3
Latvia	-1.4	1.1	1.2	-3.0	3.2	3.9	2.8	-2.1
Lithuania	-0.4	1.4	-1.4	2.0	3.6	5.2	1.6	1.8
Luxembourg	0.7	0.6	3.7		1.9	0.5	5.2	:
Hungary	0.1	0.1	-0.2	-0.4	2.6	0.0	1.2	-1.5
Malta	-2.0	3.2	6.0	-1.3	3.0	3.1	6.5	5.6
Netherlands	0.8	0.4	0.6	-0.3	4.6	2.2	2.4	1.4
Austria	-0.3	1.1	0.4	-0.1	-0.9	3.6	3.0	0.6
Poland	-1.5	1.8	1.4	-1.8	-2.3	-1.0	1.1	-0.1
Portugal	1.2	0.9	1.4	-1.0	0.3	2.8	1.6	2.4
Romania	-0.6	-0.4	-0.8	0.2	-0.1	0.2	-1.3	-2.0
Slovenia	0.5	1.2	0.3	0.5	1.4	2.3	2.8	0.9
Slovakia	-0.3	0.4	1.4	-0.8	1.6	3.5	2.8	-0.7
Finland	0.2	-1.4	1.3	-0.4	1.9	-1.8	2.4	-1.4
Sweden	0.6	0.2	1.3	-0.8	3.1	3.1	6.5	-0.1
Iceland	1.4	2.0	1.2	0.2	5.1	5.8	5.8	4.9
Norway	0.4	0.4	0.3	0.2	3.5	1.2	3.1	-0.2

<sup>:</sup> Data not available

Source dataset: namq\_10\_a10\_e (including breakdowns by industry)

<sup>\*</sup> Percentage change in the number of hours worked in resident production units compared with the previous quarter based on seasonally adjusted data. Percentage change compared with the same quarter of the previous year based on non-seasonally adjusted data.

# Overview on the evolution of main expenditure components

#### **GDP AND EXPENDITURE COMPONENTS**

PERCENTAGE CHANGE OVER THE PREVIOUS QUARTER AND THE SAME QUARTER OF THE PREVIOUS YEAR - SEASONALLY ADJUSTED - CHAIN-LINKED VOLUMES

			GI	OP		Household & NPISH final consumption expenditure			Gover	Government final consumption expenditure			Gross Fixed Capital Formation			Exports				Imports					
	2022 2023		23	2022		20	23	20	22	20	23	2022		20	23	20	22	20	23	2022		2023			
		Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
t/t-1	EA	0.3	-0.1	0.1	0.1	0.9	-0.7	0.0	0.0	0.0	0.5	-0.6	0.2	0.9	-0.2	0.3	0.3	1.2	-0.3	0.0	-0.7	2.5	-1.4	-1.3	0.1
t/t-1	EU	0.3	-0.1	0.2	0.0	0.6	-0.7	0.0	0.0	0.0	0.2	-0.1	0.2	0.7	0.0	0.0	0.4	1.5	-0.4	0.1	-0.7	2.5	-1.5	-1.4	-0.2
t/t-4	EA	2.3	1.7	1.1	0.5	2.3	1.3	1.4	0.2	0.4	0.6	-0.4	0.1	4.6	0.9	1.9	1.3	7.6	4.2	2.6	0.2	10.4	3.1	1.7	-0.2
t/t-4	EU	2.5	1.6	1.1	0.4	2.1	1.0	1.0	0.0	0.4	0.1	-0.2	0.3	4.6	1.5	1.7	1.2	8.3	4.6	2.9	0.5	10.3	3.4	1.4	-0.7

#### CONTRIBUTIONS OF EXPENDITURE COMPONENTS TO VARIATION IN GDP

GDP VOLUME VARIATION OVER THE PREVIOUS QUARTER AND THE SAME QUARTER OF THE PREVIOUS YEAR - SEASONALLY ADJUSTED

		Ch	anges in	Inventori	es*	Household & NPISH final consumption expenditure			Govern	Government final consumption expenditure			Gross Fixed Capital Formation			Exports				Imports					
2022 2023		23	2022		20	23	20	22	20	23	2022		20	23	20	22	20	23	2022		2023				
		Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
t/t-1	EA	0.2	-0.3	-0.6	0.4	0.5	-0.4	0.0	0.0	0.0	0.1	-0.1	0.1	0.2	0.0	0.1	0.1	0.6	-0.2	0.0	-0.4	-1.2	0.7	0.7	0.0
t/t-1	EU	0.3	-0.4	-0.6	0.2	0.3	-0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.8	-0.2	0.1	-0.4	-1.2	0.7	0.7	0.1
t/t-4	EA	1.0	0.1	-0.5	-0.2	1.2	0.7	0.7	0.1	0.1	0.1	-0.1	0.0	1.0	0.2	0.4	0.3	3.8	2.1	1.4	0.1	-4.6	-1.6	-0.8	0.1
t/t-4	EU	0.9	0.0	-0.7	-0.6	1.1	0.5	0.5	0.0	0.1	0.0	0.0	0.1	1.0	0.3	0.4	0.3	4.1	2.4	1.6	0.3	-4.7	-1.7	-0.7	0.4

## **GDP AND EXPENDITURE COMPONENTS**

Levels SECOND QUARTER 2023 - IN MILLIONS OF EURO - SEASONALLY ADJUSTED - AT CURRENT PRICES

	GDP	Household & NPISH final consumption expenditure	Government final consumption expenditure	Gross Fixed Capital Formation	Changes in Inventories*	Domestic Demand	Exports	Imports	External Balance
EA	3 553 881.8	1 866 833.8	749 911.8	784 384.5	5 249.0	3 406 379.0	1 869 048.4	1 721 545.6	147 502.8
EU	4 200 495.6	2 199 376.1	882 241.7	932 441.6	7 300.3	4 021 359.7	2 254 783.4	2 075 647.5	179 135.9

<sup>\*</sup> Changes in inventories include acquisitions less disposals of valuables.

Source dataset: namq\_10\_gdp

