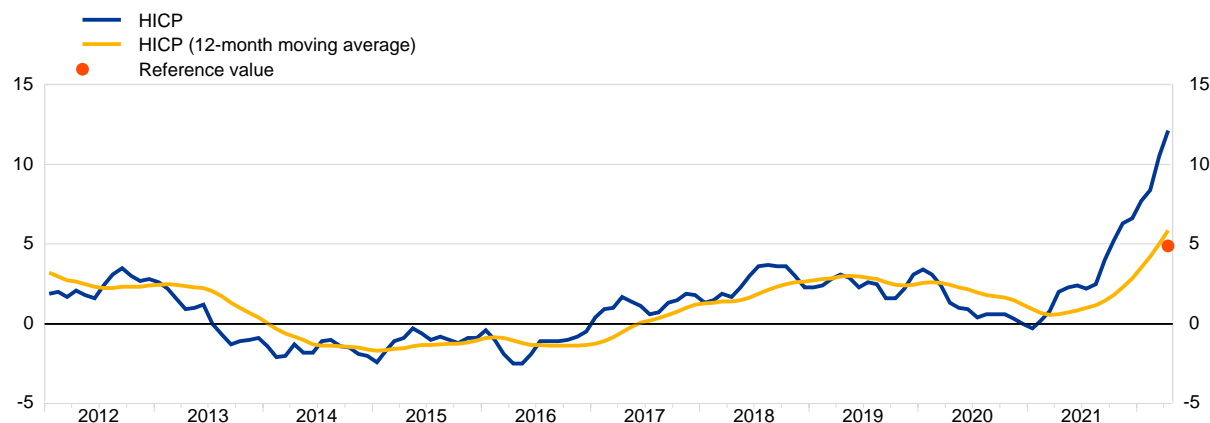


Bulgaria - Price developments

Chart 5.1.1 HICP inflation and reference value ¹⁾
(annual percentage changes)



Sources: European Commission (Eurostat) and ECB calculations.

1) The basis of the calculation of the reference value for the period from May 2021 to April 2022 is the unweighted arithmetic average of the annual percentage changes in the HICP for France, Finland and Greece plus 1.5 percentage points. The reference value is 4.9%.

Table 5.1.1 Measures of inflation and related indicators
(annual percentage changes, unless otherwise indicated)

	2012-2021 ¹⁾	2012-2016 ¹⁾	2017-2021 ¹⁾	2017	2018	2019	2020	2021	2022 ²⁾	2023 ²⁾
Measures of inflation										
HICP	0.9	-0.3	2.1	1.2	2.6	2.5	1.2	2.8	11.9	5.0
HICP excluding unprocessed food and energy	0.8	-0.1	1.8	0.3	2.1	2.5	2.0	1.9	9.5	6.1
HICP at constant tax rates ³⁾	0.9	-0.3	2.1	1.0	2.4	2.4	1.5	3.2	-	-
CPI	1.4	0.3	2.6	2.1	2.8	3.1	1.7	3.3	11.9	5.0
Private consumption deflator	1.9	1.4	2.4	4.6	2.4	2.0	-0.6	3.6	11.9	4.7
GDP deflator	3.3	1.8	4.9	4.8	4.2	5.2	4.2	6.2	9.5	3.9
Producer prices ⁴⁾	2.4	-0.3	5.2	4.2	4.1	3.8	-0.2	14.9	-	-
Related indicators										
Real GDP growth	1.7	1.5	1.8	2.8	2.7	4.0	-4.4	4.2	2.1	3.1
GDP per capita in PPS ⁵⁾ (euro area = 100)	46.4	44.1	49.3	47.0	48.2	49.9	52.3	.	-	-
Comparative price levels (euro area = 100)	48.7	47.7	50.0	48.5	49.1	50.6	51.9	.	-	-
Output gap ⁶⁾	-0.4	-0.5	-0.2	0.2	0.6	2.5	-3.5	-1.0	-0.4	1.0
Unemployment rate (%) ⁷⁾	8.8	11.7	6.0	7.2	6.2	5.2	6.1	5.3	5.4	5.3
Unit labour costs, whole economy	5.8	4.7	6.8	9.5	6.7	3.1	9.5	5.4	7.7	4.8
Compensation per employee, whole economy	7.7	6.7	8.7	10.5	9.7	6.9	7.2	9.5	9.7	7.7
Labour productivity, whole economy	1.9	1.9	1.8	1.0	2.8	3.7	-2.1	4.0	1.9	2.7
Imports of goods and services deflator	0.7	-1.5	2.9	6.7	2.0	0.0	-6.6	13.5	11.2	4.2
Nominal effective exchange rate ⁸⁾	1.5	0.9	2.1	1.8	3.7	0.1	3.1	2.0	-	-
Money supply (M3) ⁹⁾	9.0	8.2	9.9	8.5	8.6	10.1	11.4	10.7	-	-
Lending from banks ¹⁰⁾	5.3	2.0	8.6	7.8	9.9	10.6	5.3	9.7	-	-
Stock prices (SOFIX) ¹¹⁾	97.3	82.1	8.4	15.5	-12.3	-4.4	-21.2	42.0	-	-
Residential property prices	4.1	1.4	6.9	8.7	6.6	6.0	4.6	8.7	-	-

Sources: European Commission (Eurostat, Directorate-General for Economic and Financial Affairs), national data for CPI, money supply, lending from banks and ECB calculations based on Bloomberg Finance L.P. data for stock prices.

1) Multi-annual averages calculated using the geometric mean, except for GDP per capita in PPS, comparative price levels, output gap and unemployment rate, for which the arithmetic mean is used.

2) Data from the European Commission's Spring 2022 Economic Forecast.

3) The difference between the HICP and the HICP at constant tax rates shows the theoretical impact of changes in indirect taxes (e.g. VAT and excise duties) on the overall rate of inflation. This impact assumes a full and instantaneous pass-through of tax rate changes to the price paid by the consumer.

4) Domestic sales, total industry excluding construction.

5) PPS stands for purchasing power standards.

6) Percentage difference from potential GDP: a positive (negative) sign indicates that actual GDP is above (below) potential GDP.

7) Definition conforms to International Labor Organization guidelines.

8) EER-42 group of trading partners. A positive (negative) sign indicates an appreciation (depreciation).

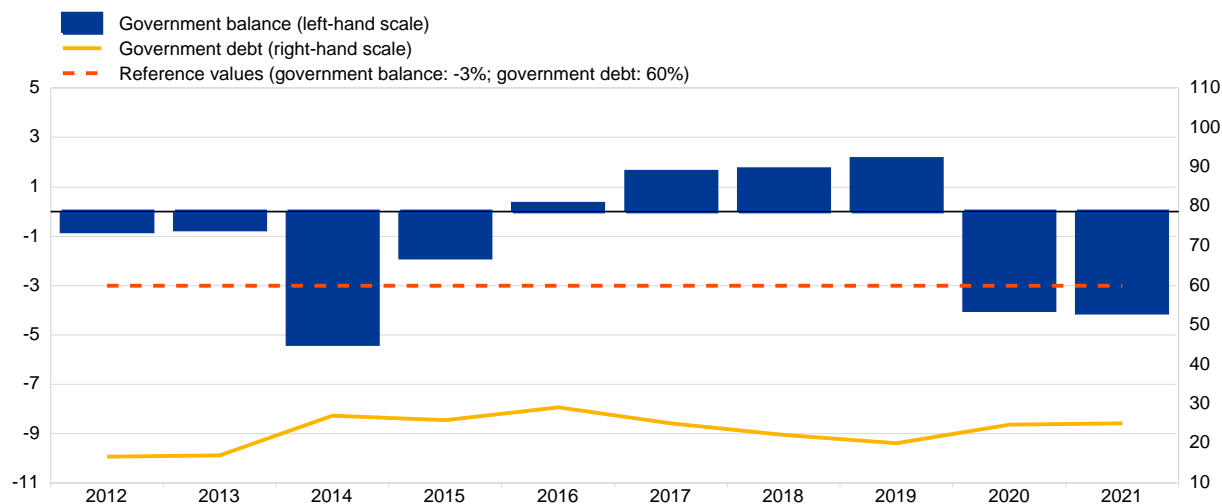
9) The series includes repurchase agreements with central counterparties.

10) Adjusted for the derecognition of loans from the MFI statistical balance sheet due to their sale or securitisation.

11) Multi-annual and annual figures represent the percentage change between the end of the given period and the end of the previous period.

Bulgaria - Fiscal developments

Chart 5.1.2 General government balance and debt
(as a percentage of GDP)



Sources: European System of Central Banks and European Commission (Eurostat).

Table 5.1.2 Government budgetary developments and projections
(as a percentage of GDP, unless otherwise indicated)

	2012-2021 ¹⁾	2012-2016 ¹⁾	2017-2021 ¹⁾	2017	2018	2019	2020	2021	2022 ²⁾	2023 ²⁾
Government balance	-1.1	-1.7	-0.5	1.6	1.7	2.1	-4.0	-4.1	-3.7	-2.4
Total revenue	37.3	36.4	38.2	37.1	38.7	38.4	38.1	39.0	40.2	40.7
Current revenue	35.7	34.2	37.2	36.0	37.9	37.5	36.7	37.8	37.8	38.1
Direct taxes	5.6	5.2	6.0	5.9	5.8	5.8	5.9	6.4	6.1	6.6
Indirect taxes	15.2	15.0	15.3	15.3	14.7	15.3	15.1	16.1	16.7	16.6
Net social contributions	8.2	7.5	8.8	8.2	8.7	8.8	9.2	9.3	9.2	9.3
Other current revenue ³⁾	6.8	6.5	7.1	6.6	8.7	7.6	6.6	6.0	5.8	5.6
Capital revenue	1.6	2.2	1.1	1.1	0.8	0.9	1.3	1.2	2.4	2.6
Total expenditure	38.4	38.1	38.8	35.4	37.0	36.3	42.0	43.1	43.9	43.1
Current expenditure	33.4	32.3	34.5	32.0	32.9	31.8	36.9	39.0	37.9	36.5
Compensation of employees	9.7	9.1	10.2	9.1	9.5	10.0	10.8	11.7	11.2	11.1
Social benefits	13.8	13.7	13.8	13.3	13.0	12.7	14.5	15.4	15.2	14.7
Interest payable	0.7	0.8	0.6	0.8	0.7	0.6	0.5	0.5	0.5	0.5
Other current expenditure ⁴⁾	9.2	8.6	9.9	8.8	9.8	8.5	11.0	11.4	11.0	10.2
Capital expenditure	5.0	5.8	4.2	3.4	4.1	4.5	5.2	4.1	5.9	6.6
of which: Investment	3.8	4.4	3.2	2.3	3.1	3.3	3.8	3.3	5.0	5.4
Cyclically adjusted balance	-1.0	-1.5	-0.4	1.6	1.5	1.4	-2.9	-3.8	-3.5	-2.7
One-off and temporary measures	-0.3	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Structural balance ⁵⁾	-0.7	-0.9	-0.4	1.6	1.5	1.4	-2.9	-3.8	-3.5	-2.7
Government debt	23.3	23.1	23.4	25.1	22.1	20.0	24.7	25.1	25.3	25.6
Average residual maturity (in years)	7.3	7.0	7.7	7.6	7.1	6.9	8.8	8.1	.	.
In foreign currencies (% of total)	79.1	78.7	79.6	78.4	81.5	81.0	82.4	74.6	.	.
of which: Euro	74.5	70.2	78.7	77.3	80.4	80.1	81.8	74.0	.	.
Domestic ownership (% of total)	52.7	50.7	54.6	56.5	56.0	55.8	50.9	54.0	.	.
Medium and long-term maturity (% of total) ⁶⁾	97.3	94.7	99.9	99.9	99.9	100.0	100.0	99.9	.	.
of which: Variable interest rate (% of total)	9.3	13.6	4.9	8.4	5.2	4.7	3.3	3.0	.	.
Deficit-debt adjustment	1.1	1.9	0.3	-0.3	0.4	1.9	0.6	-1.3	.	.
Net acquisitions of main financial assets	0.8	1.6	0.0	-0.8	0.1	-0.7	0.6	0.9	.	.
Currency and deposits	0.7	1.3	0.1	-0.8	0.2	-0.4	0.7	0.9	.	.
Debt securities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.	.
Loans	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.1	.	.
Equity and investment fund shares or units	0.0	0.1	-0.1	0.0	-0.1	-0.4	-0.1	-0.1	.	.
Revaluation effects on debt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.	.
of which: Foreign exchange holding gains/losses	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.	.
Other ⁷⁾	0.3	0.3	0.2	0.6	0.2	2.6	0.0	-2.3	.	.
Convergence programme: government balance	-	-	-	-	-	-	-	-	-5.3	-2.9
Convergence programme: structural balance	-	-	-	-	-	-	-	-	-3.1	-2.7
Convergence programme: government debt	-	-	-	-	-	-	-	-	25.5	27.7

Sources: European System of Central Banks and European Commission (Eurostat, Directorate-General for Economic and Financial Affairs).

1) Multi-annual averages calculated using the arithmetic mean.

2) Data from the European Commission's Spring 2022 Economic Forecast, except for convergence programme data.

3) Sales and other current revenue.

4) Intermediate consumption, subsidies payable and other current expenditure.

5) Cyclically adjusted balance excluding one-off and other temporary measures.

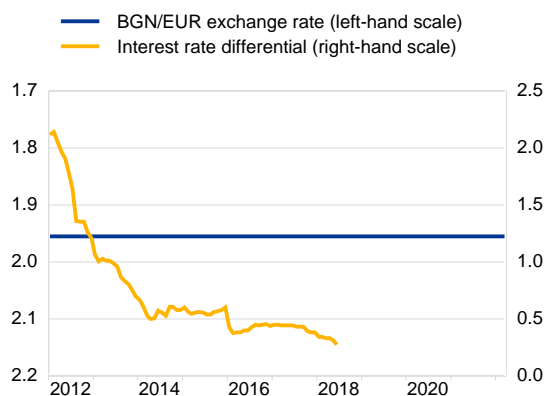
6) Original maturity of more than one year.

7) Time of recording differences and other factors (sector reclassifications and statistical discrepancies).

Bulgaria - Exchange rate and external developments

Chart 5.1.3 Bilateral exchange rate and short-term interest rate differential ¹⁾

(BGN/EUR exchange rate: monthly averages; difference between three-month interbank interest rates and three-month EURIBOR: basis points, monthly values)

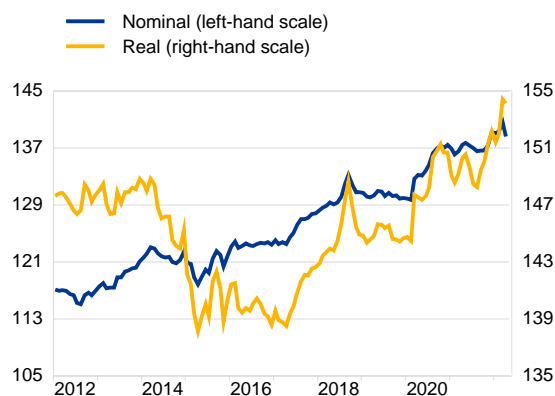


Sources: National data and ECB calculations.

1) The interest rate differential is calculated against SOFIBOR. Production of SOFIBOR reference rate was discontinued by the national central bank as of 1 July 2018; a comparable rate is not currently available.

Chart 5.1.4 Effective exchange rates ²⁾

(EER-42 group of trading partners; monthly averages; index: Q1 1999 = 100)



Source: ECB.

2) The real EER-42 is CPI-deflated. An increase (decrease) in the EER indicates an appreciation (depreciation).

Table 5.1.3 External developments

(as a percentage of GDP, unless otherwise indicated)

	2012-2021 ¹⁾	2012-2016 ¹⁾	2017-2021 ¹⁾	2017	2018	2019	2020	2021	2022 ²⁾	2023 ²⁾
Balance of payments										
Current account and capital account balance ³⁾	2.6	2.9	2.3	4.3	2.0	3.3	1.5	0.3	0.7	0.5
Current account balance	1.0	0.9	1.1	3.3	0.9	1.9	-0.1	-0.4	-1.8	-1.8
Goods	-5.0	-6.1	-3.8	-1.5	-4.8	-4.7	-3.2	-4.9	.	.
Services	6.5	6.4	6.6	5.8	7.3	8.0	5.0	6.6	.	.
Primary income	-3.8	-3.5	-4.0	-4.3	-4.8	-4.2	-3.5	-3.3	.	.
Secondary income	3.3	4.2	2.4	3.3	3.2	2.9	1.5	1.1	.	.
Capital account balance	1.6	2.0	1.2	1.0	1.1	1.4	1.5	0.7	.	.
Combined direct and portfolio investment balance ³⁾	-1.1	-2.9	0.7	2.9	1.4	0.6	-3.3	1.7	.	.
Direct investment	-2.3	-2.2	-2.4	-2.5	-1.3	-2.0	-4.5	-1.7	.	.
Portfolio investment	1.2	-0.7	3.1	5.4	2.8	2.6	1.2	3.4	.	.
Other investment balance	1.6	2.6	0.6	1.2	1.7	4.3	-2.1	-1.9	.	.
Reserve assets	3.9	4.6	3.2	-0.2	2.4	-0.9	9.4	5.3	.	.
Exports of goods and services	63.4	63.4	63.4	67.0	65.7	63.9	56.3	64.2	.	.
Imports of goods and services	61.9	63.1	60.7	62.7	63.2	60.7	54.4	62.4	.	.
Net international investment position ⁴⁾	-48.9	-66.3	-31.4	-43.0	-37.0	-30.2	-27.1	-19.8	.	.
Gross external debt ⁴⁾	76.4	87.6	65.2	71.8	66.1	61.3	64.9	61.8	.	.
Trade with the euro area ⁵⁾										
Exports of goods and services	43.4	42.4	44.3	42.4	44.6	44.0	45.6	45.2	.	.
Imports of goods and services	42.2	42.6	41.8	42.8	42.6	41.6	40.8	41.1	.	.
Investment position with the euro area ⁵⁾										
Direct investment assets ⁴⁾	49.6	51.0	48.2	46.0	47.2	48.2	49.5	49.9	.	.
Direct investment liabilities ⁴⁾	65.4	65.7	65.1	66.1	65.8	65.2	63.8	64.7	.	.
Portfolio investment assets ⁴⁾	45.4	47.4	43.4	44.3	41.2	43.5	41.0	47.2	.	.
Portfolio investment liabilities ⁴⁾	74.7	72.2	77.2	79.9	83.5	71.8	73.6	77.1	.	.

Sources: European System of Central Banks and European Commission (Eurostat, Directorate-General for Economic and Financial Affairs).

1) Multi-annual averages calculated using the arithmetic mean.

2) Data from the European Commission's Spring 2022 Economic Forecast.

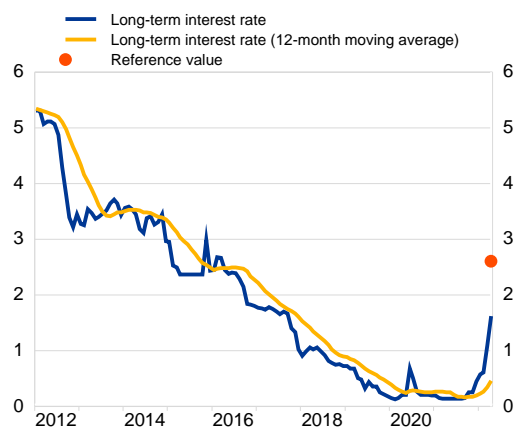
3) Differences between totals and the sum of their components are due to rounding.

4) End-of-period outstanding amounts.

5) As a percentage of the total.

Bulgaria - Long-term interest rate developments

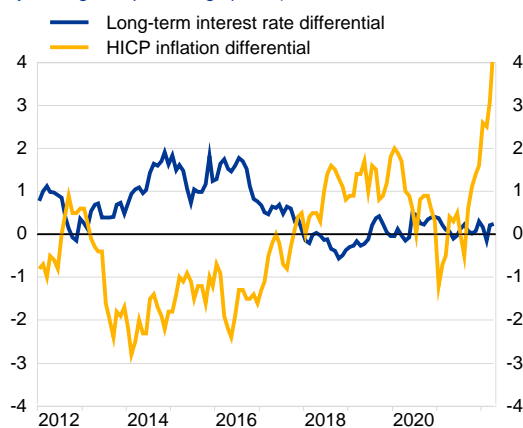
Chart 5.1.5 Long-term interest rate ¹⁾
(monthly averages in percentages)



Sources: European System of Central Banks and ECB calculations.

1) The basis of the calculation of the reference value for the period from May 2021 to April 2022 is the unweighted arithmetic average of the interest rate levels in France, Finland and Greece plus 2 percentage points. The reference value is 2.6%.

Chart 5.1.6 Long-term interest rate and HICP inflation differentials vis-à-vis the euro area
(monthly averages in percentage points)



Sources: European System of Central Banks, ECB calculations and European Commission (Eurostat).

Table 5.1.4 Long-term interest rates and indicators of financial development and integration
(as a percentage of GDP, unless otherwise indicated)

	2012-2021 ¹⁾	2012-2016 ¹⁾	2017-2021 ¹⁾	2018	2019	2020	2021	May. 2021 to Apr. 2022	Memo item: euro area 2021
Long-term interest rates									
Bulgaria ²⁾	1.9	3.2	0.7	0.9	0.4	0.3	0.2	0.5	-
Euro area ^{3), 4)}	1.4	2.2	0.6	1.1	0.4	0.1	0.1	0.4	-
Euro area AAA par curve, ten-year residual maturity ^{2), 4)}	0.6	1.2	0.0	0.5	-0.2	-0.4	-0.3	-0.1	-
Indicators of financial development and integration									
Debt securities issued by financial corporations ⁵⁾	1.1	1.1	1.2	1.0	1.1	1.2	1.6	-	66.7
Debt securities issued by non-financial corporations ⁶⁾	2.8	2.9	2.8	2.8	2.6	2.7	2.5	-	13.4
Stock market capitalisation ⁷⁾	17.0	10.7	23.4	24.3	23.2	23.4	23.0	-	77.7
MFI credit to non-government residents ⁸⁾	57.2	60.9	53.6	52.9	53.0	55.5	54.6	-	111.1
Claims of euro area MFIs on resident MFIs ⁹⁾	5.4	7.5	3.3	3.2	3.3	2.9	4.0	-	29.5

Sources: European System of Central Banks and ECB calculations.

1) Multi-annual averages calculated using the arithmetic mean.

2) Average interest rate.

3) GDP-weighted average of the euro area long-term interest rates for the purpose of assessing convergence.

4) Included for information only.

5) Outstanding amount of debt securities issued by resident MFIs (excluding the national central bank) and other financial corporations.

6) Outstanding amount of debt securities issued by resident non-financial corporations.

7) Outstanding amount of listed shares issued by residents at market values.

8) MFI (excluding national central bank) credit to domestic non-MFI residents other than general government. Credit comprises outstanding amounts of loans and debt securities.

9) Outstanding amount of deposits and debt securities issued by domestic MFIs (excluding the national central bank) held by euro area MFIs as a percentage of total liabilities of domestic MFIs (excluding the national central bank). Total liabilities exclude capital and reserves and remaining liabilities.