



ESRB

European Systemic Risk Board

European System of Financial Supervision

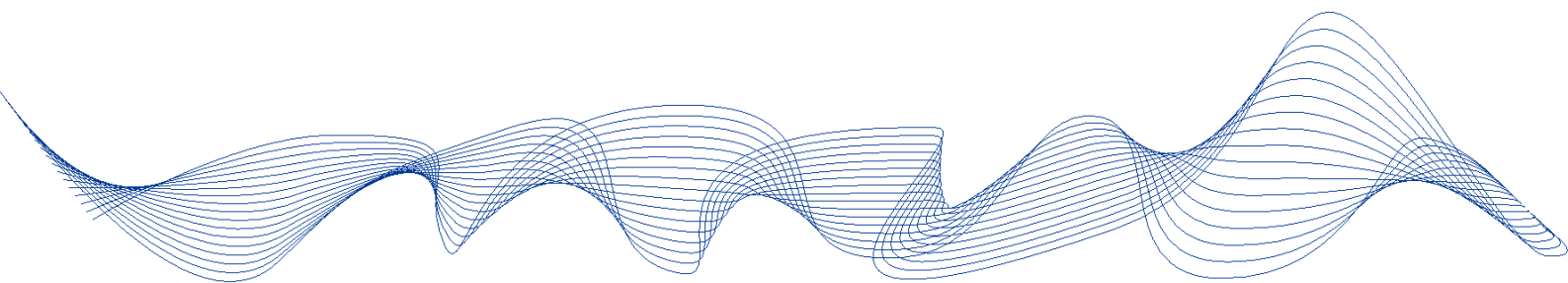


EUROPEAN CENTRAL BANK

EUROSYSTEM

ESRB risk dashboard

Production date: 6 June 2024



DISCLAIMER: The risk dashboard is a set of quantitative indicators and not an early-warning system.

Users may not rely on the indicators as a basis for any mechanical form of inference.

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General notes

The ESRB risk dashboard is a set of quantitative and qualitative indicators of systemic risk in the EU financial system. The composition and presentation of the ESRB risk dashboard were reviewed in the fourth quarter of 2019.

Unless otherwise indicated, all data series including observations for 2023 relate to the group of 20 countries that are members of the euro area (the Euro 20) for the whole time series.

For statistics based on the balance sheet of the monetary financial institution (MFI) sector, as well as statistics on financial markets and interest rates, the series relate to the composition of the EU/euro area in the period covered (changing composition).

Statistics based on the balance sheet of the MFI sector are unconsolidated.

Additional indicators to support the assessment of systemic risk in the EU financial system are available in the Macroprudential Database:

<https://sdw.ecb.europa.eu/browse.do?node=9689335>

List of countries and aggregates

Austria	AT	France	FR	The Netherlands	NL
Belgium	BE	Greece	GR	Poland	PL
Bulgaria	BG	Croatia	HR	Portugal	PT
Cyprus	CY	Hungary	HU	Romania	RO
Czech Republic	CZ	Ireland	IE	Sweden	SE
Germany	DE	Italy	IT	Slovenia	SI
Denmark	DK	Lithuania	LT	Slovakia	SK
Estonia	EE	Luxembourg	LU	United Kingdom	UK
Spain	ES	Latvia	LV	Euro area	EA
Finland	FI	Malta	MT	European Union	EU

List of acronyms

BIS	Bank for International Settlements	ICPF	Insurance Corporation and Pension Funds
CDS	Credit Default Swap	IMF	International Monetary Fund
CISS	Composite Indicator of Systemic Stress	IPD	Investment Property Databank
COREP	Common Solvency Ratio Reporting	MFI	Monetary and Financial Institutions
EBA	European Banking Authority	MMF	Money Market Funds
ECB	European Central Bank	NFC	Non-Financial Corporations
EIOPA	European Insurance and Occupational Pensions Authority	OFI	Other Financial Intermediaries
EONIA	Euro OverNight Index Average	ITS	Implementing Technical Standards
ESCB	European System of Central Banks	SovCISS	Sovereign Composite Indicator of Systemic Stress

Introductory note to the Section "8. Risk related to central counterparties"

The following indicators on central counterparties are designed to provide a macroprudential, systemic perspective over time on CCPs' default resources, collateral, margins and haircuts, interoperability arrangements and concentration of clearing members. The indicators cover all 19 CCPs that are authorised in the EU and which are regulated under EMIR. Differences across CCPs may reflect differences in business models, membership structure and products cleared. An ESRB Occasional Paper provides further detail on the rationale, the computation of these indicators and open questions. The data from which these indicators were computed are published by CCPs according to the CPMI - IOSCO Public Quantitative Disclosure Framework (PQD) and have not been verified by the ESRB.

The accuracy of the following indicators may be affected by data quality issues in the underlying Public Quantitative Disclosure data. Furthermore, the ESRB Secretariat cannot rule out the presence of errors owing to the non-standardised nature of the source data.

Cut-off date

Data available to the ECB by Thursday, 6 June 2024 were taken into account in these statistics.

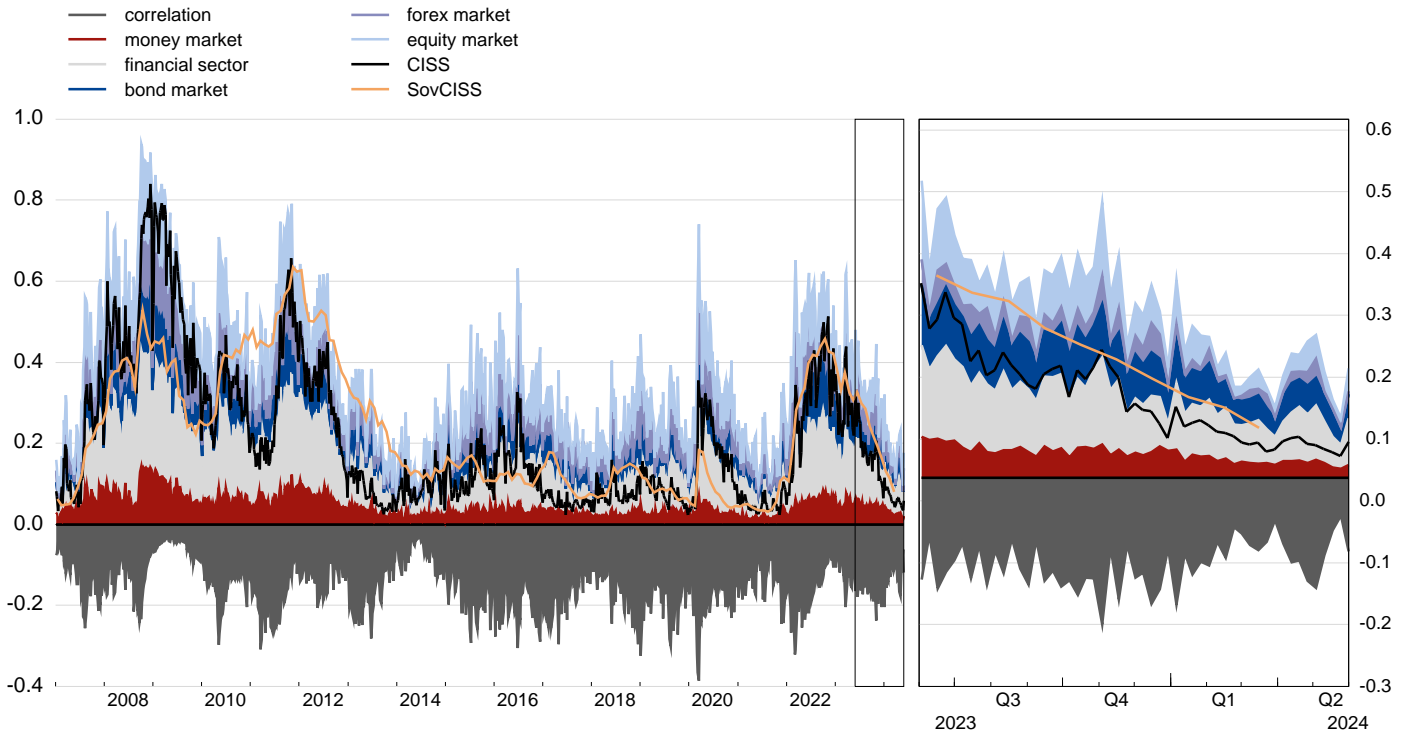
Contact

For enquiries regarding the risk dashboard and its contents, please contact: <https://ecb-registration.escb.eu/statistical-information>

1. Interlinkages and composite measures of systemic risk

1.1 Composite indicator of systemic stress

(Last observation: 31 May 2024)

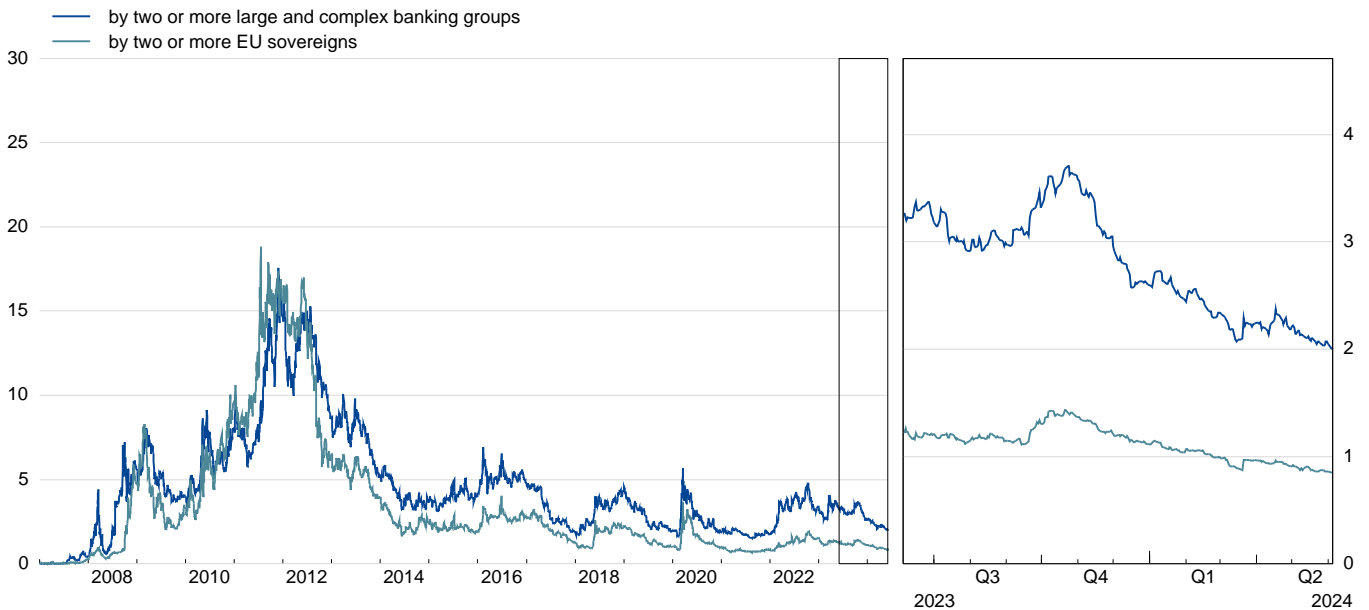


Sources: Thomson Reuters, ECB and ECB calculations.

Notes: The CISS is unit-free and constrained to lie within the interval (0, 1). See Hollo, D., Kremer, M. and Lo Duca, M., "CISS - a composite indicator of systemic stress in the financial system", Working Paper Series, No 1426, ECB, March 2012. The Sovereign CISS applies the same methodological concept of the CISS. On aggregation of different measures of stress in different euro area sovereign bond markets see Garcia-de-Andoain, C. and Kremer, M., "Beyond spreads: measuring sovereign market stress in the euro area", Economics Letters, Vol. 159, 2017, pp. 153-156.

1.2 Probability of a simultaneous default

(Percentages; last observation: 4 Jun. 2024)



Sources: ICE (former CMA) and ECB calculations.

Note: See Box 8, Financial Stability Review, ECB, June 2012.

1. Interlinkages and composite measures of systemic risk

1.3 Cross-border claims of banks

(Sample of EU countries; percentages; last observation: Q3 2023)



Source: ECB and ECB calculations.

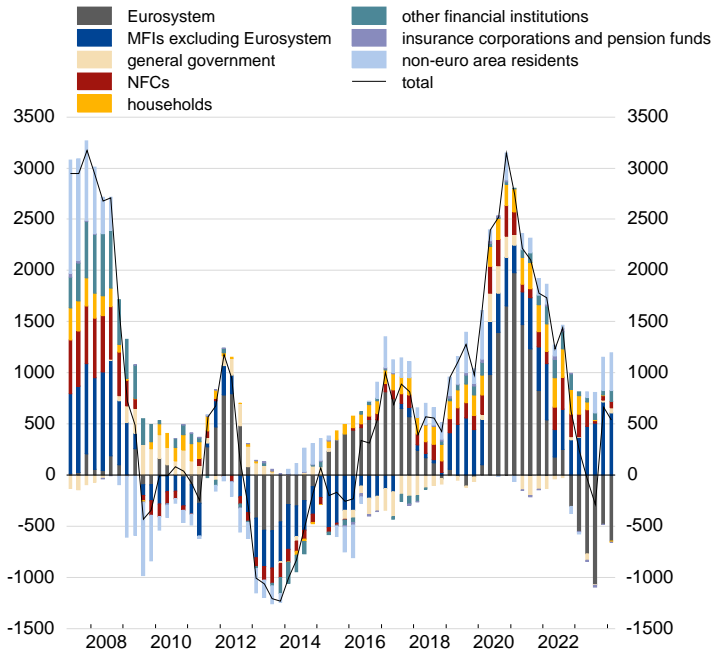
Notes: Based on Consolidated Banking Data. The size of the bubbles corresponds to the ratio of domestic to total claims of a country's consolidated banking sector. The thickness of the arrows depends on the share of bilateral foreign claims in the total claims of the banking sector extending the loans. Arrows are not displayed in cases where the corresponding ratio is below 5%. Due to the use of consolidated data, cross-border claims also include banks' exposures to other countries in the EU through the presence of subsidiaries in those countries.

1. Interlinkages and composite measures of systemic risk

1.4 MFI credits by counterpart sectors

a. Four-quarter cumulated flows

(euro area; EUR billions; last observation: Q1 2024)

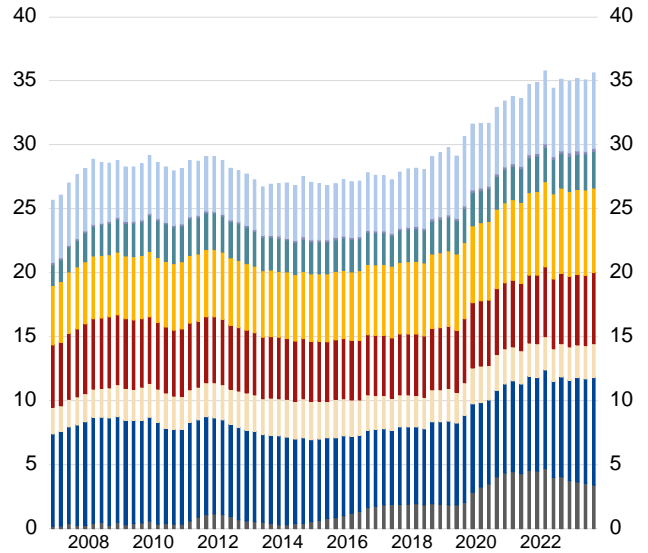


Source: ECB.

Notes: MFIs excluding the Eurosystem. Credit comprises loans and holdings of securities. Eurosystem credit comprises only loans. Households include non-profit institutions serving households.

b. Outstanding amounts

(euro area; EUR trillions; last observation: Q1 2024)

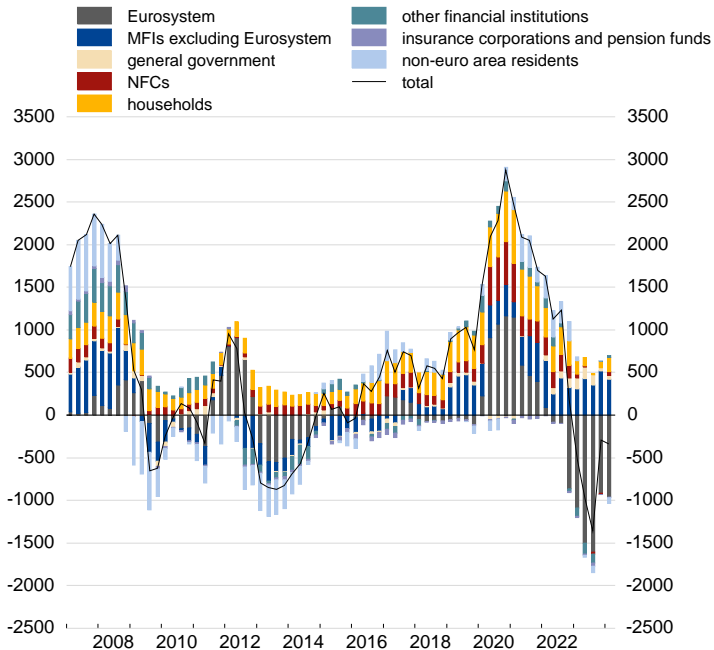


Source: ECB.

1.5 MFI deposits by counterpart sector

a. Four-quarter cumulated flows

(euro area; EUR billions; last observation: Q1 2024)

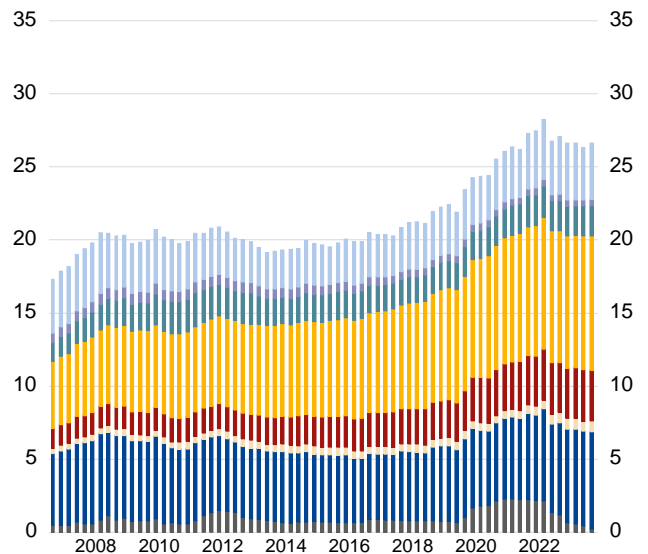


Source: ECB.

Notes: MFIs excluding the Eurosystem. Households include non-profit institutions serving households.

b. Outstanding amounts

(euro area; EUR trillions; last observation: Q1 2024)

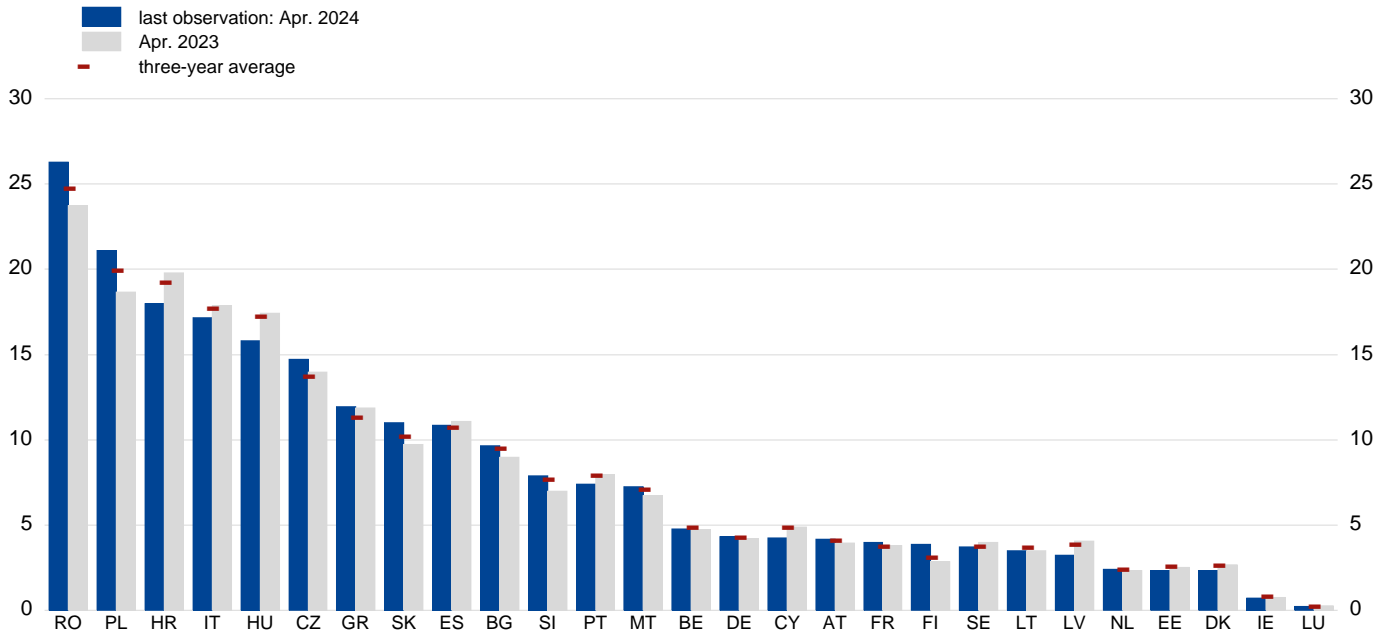


Source: ECB.

1. Interlinkages and composite measures of systemic risk

1.6 MFI credits to general government

(EU; share of total assets; percentages)

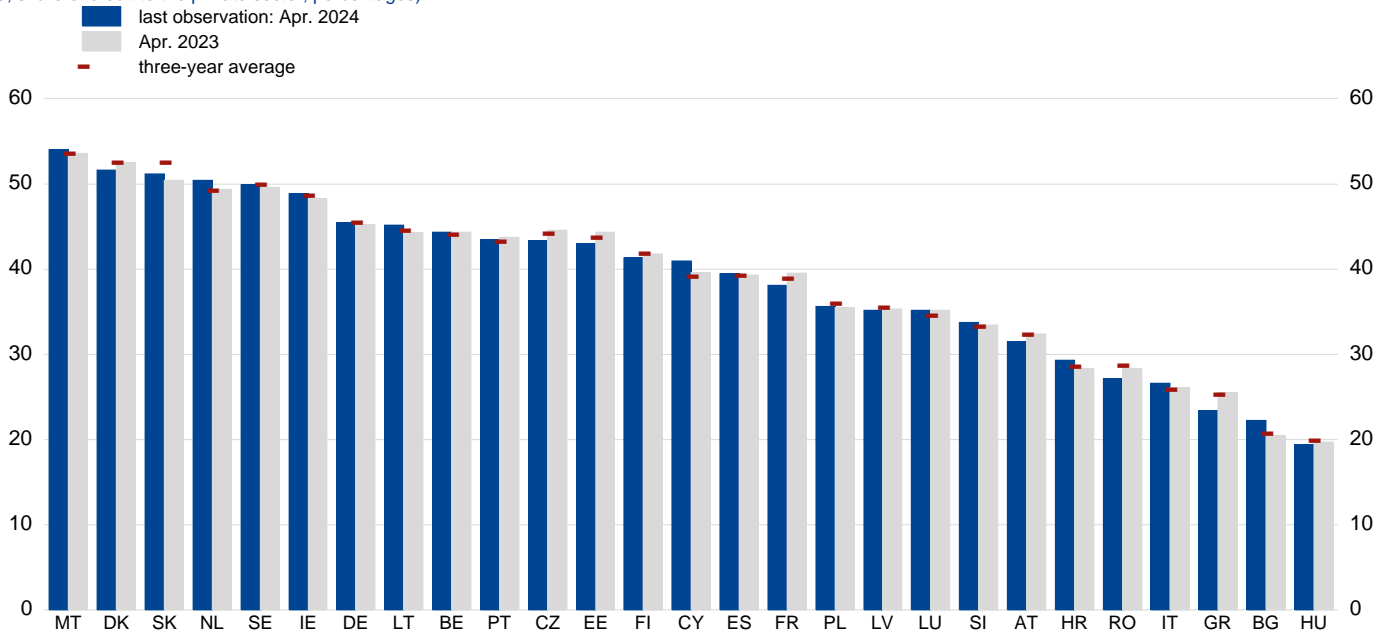


Source: ECB.

Notes: Credit extended by MFIs excluding the ESCB to domestic general government. Credit comprises granted loans and holdings of debt securities issued. Total assets excludes remaining assets. For some countries, such as Italy and France, government-owned agencies mandated to finance primarily public administrations are listed as MFIs.

1.7 MFI loans for house purchase

(EU; share of credit to the private sector; percentages)



Source: ECB.

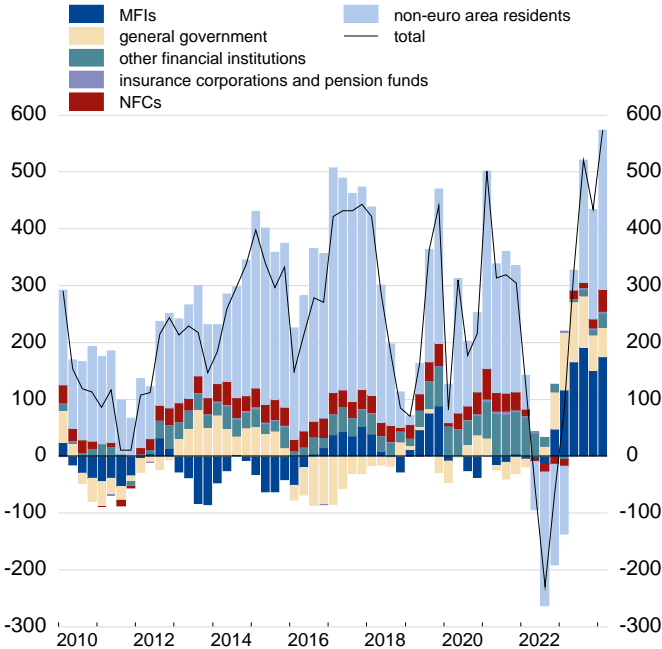
Notes: MFIs excluding the ESCB. Data refer to loans granted to domestic households for house purchase purpose. Credit comprises loans and holdings of debt securities.

1. Interlinkages and composite measures of systemic risk

1.8 Investment funds' holdings of debt securities by counterpart sector

a. Cumulated flows

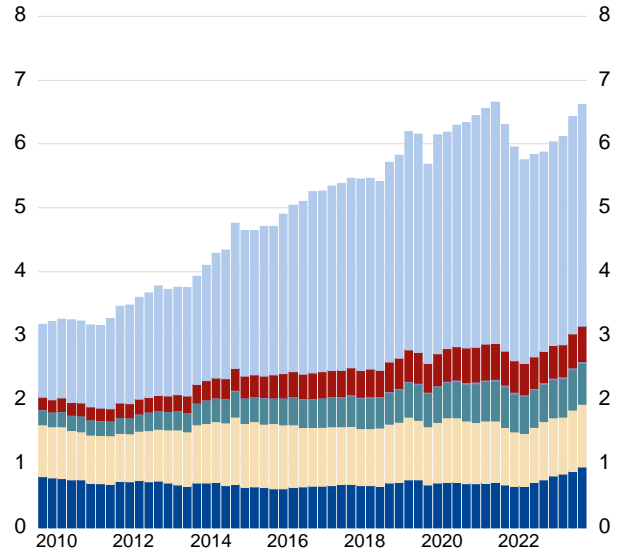
(euro area; four-quarter cumulated flows; EUR billions; last observation: Q1 2024)



Source: ECB.

b. Outstanding amounts

(euro area; EUR trillions; last observation: Q1 2024)

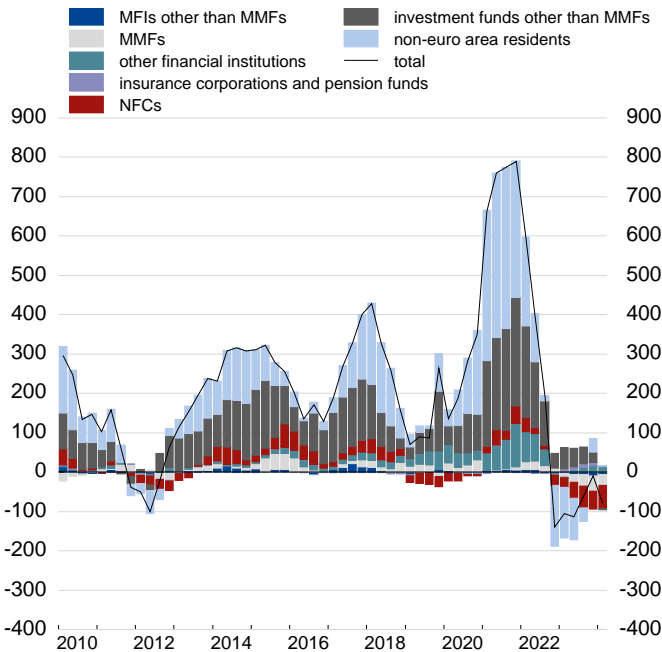


Source: ECB.

1.9 Investment funds' holdings of equity and investment fund shares by counterpart sector

a. Cumulated flows

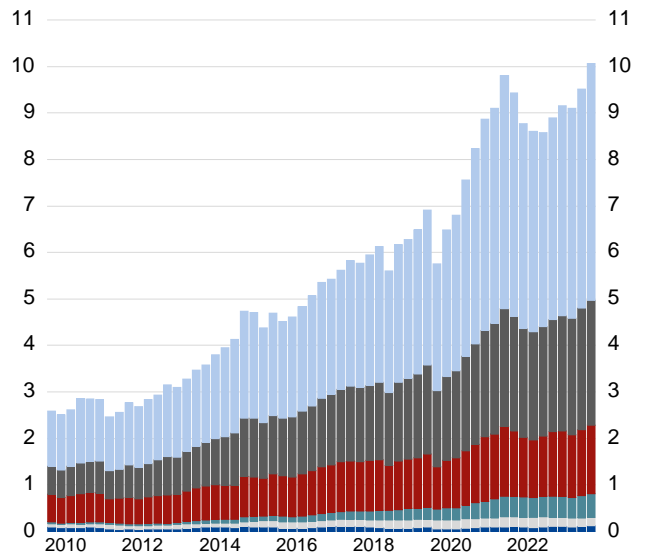
(euro area; four-quarter cumulated flows; EUR billions; last observation: Q1 2024)



Source: ECB.

b. Outstanding amounts

(euro area; EUR trillions; last observation: Q1 2024)

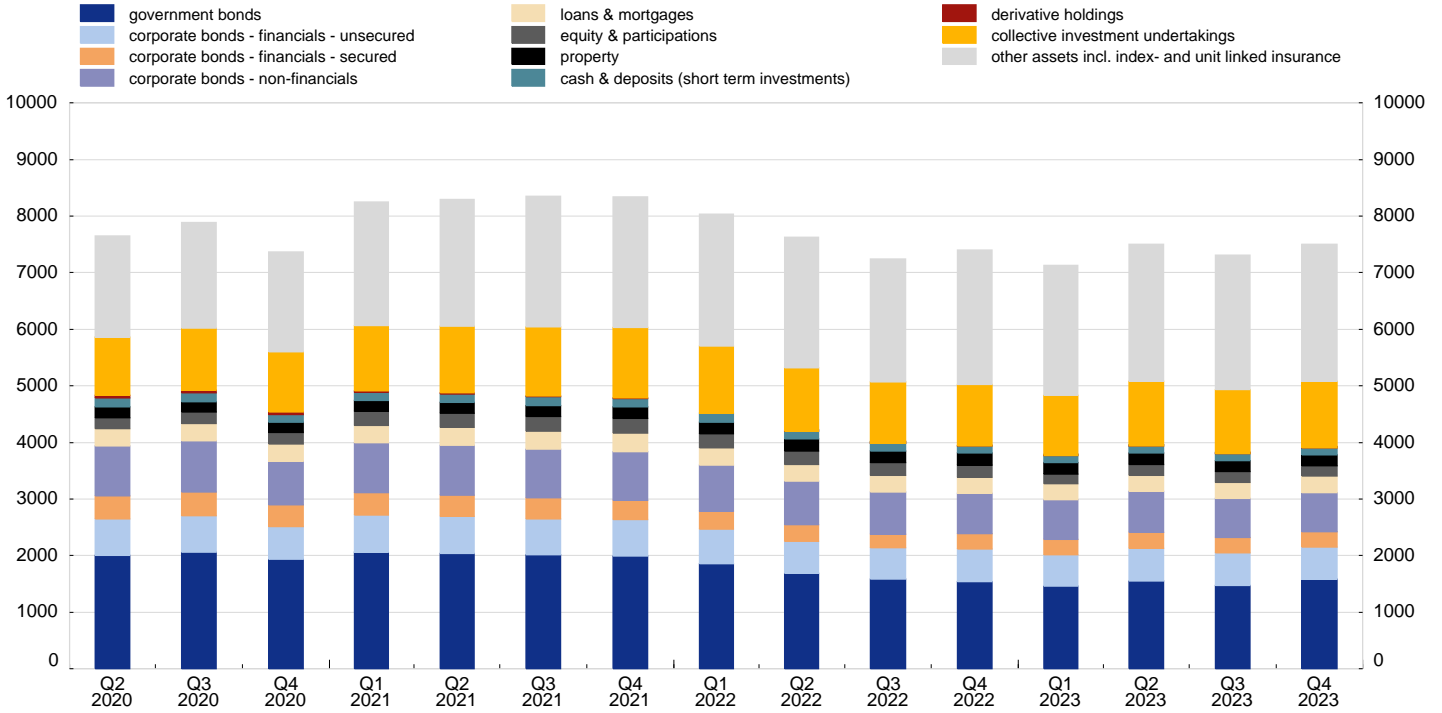


Source: ECB.

1. Interlinkages and composite measures of systemic risk

1.10 Insurance corporations' assets allocation (including derivative holdings)

(EU; outstanding amounts; EUR billions; last observation: Q4 2023)

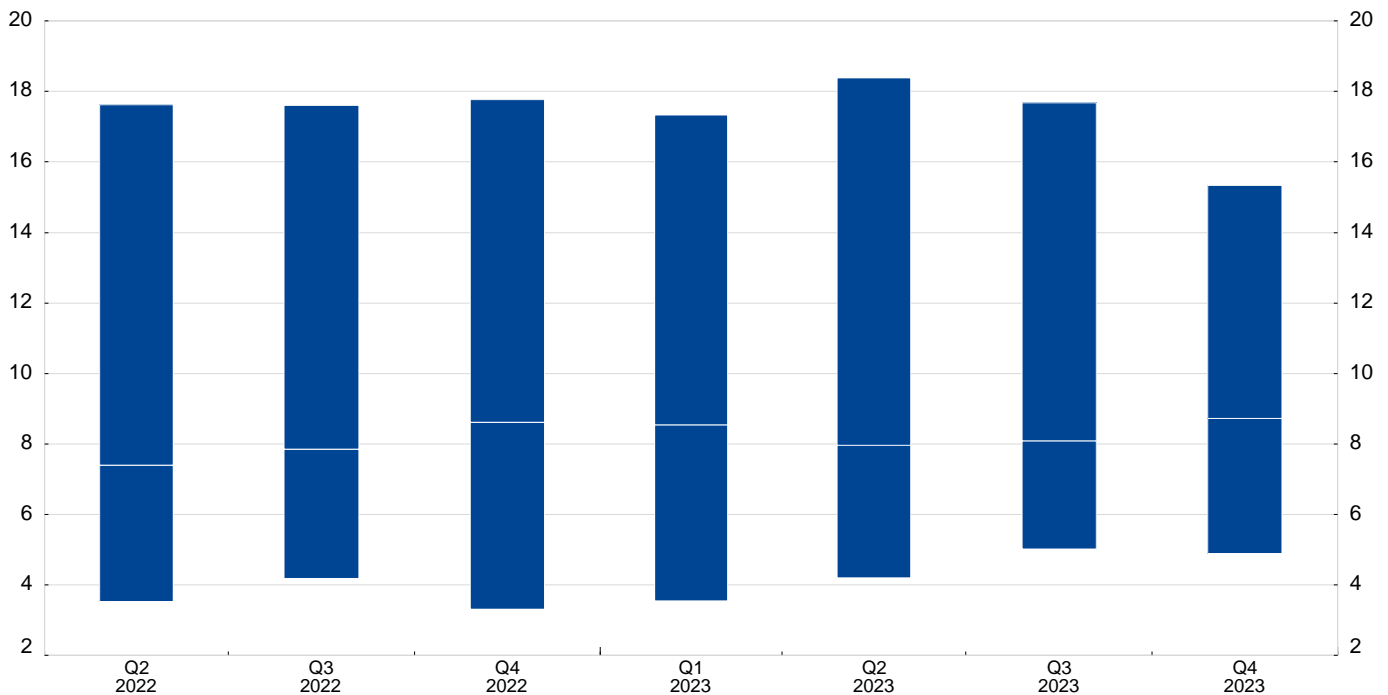


Source: EIOPA, based on Solvency II Reporting.

Note: For more details on the Solvency II reporting please see Annex I to the risk dashboard. The other assets category comprises assets for unit- and index-linked insurance.

1.11 Reinsurance part of premiums

(EU; percentages; interquartile range and median; last observation: Q4 2023)



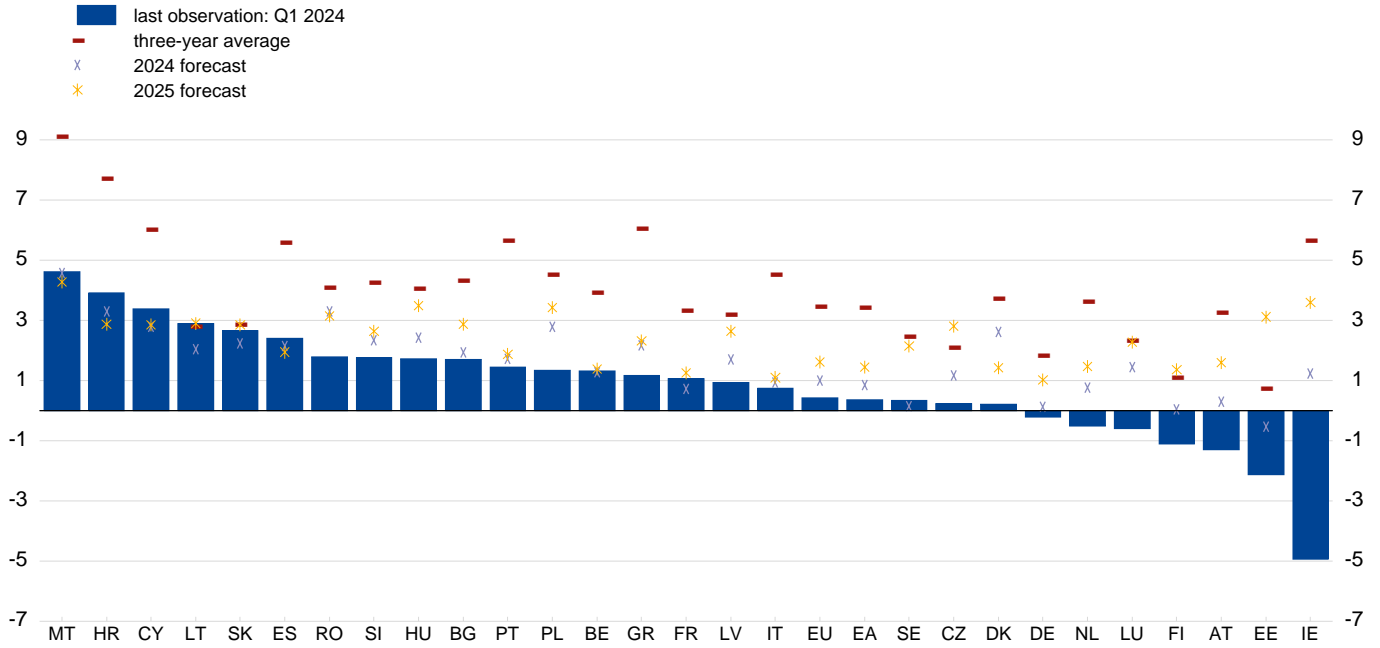
Source: EIOPA, based on Solvency II Reporting.

Note: The reinsurance part of premiums is defined as the share of the premiums that is ceded to reinsurers. It is calculated as the complement to 1 of the retention ratio which, in turn is defined as the net premiums written divided by gross premiums written. For more details on the Solvency II reporting please see Annex I to the risk dashboard.

2. Macro risk

2.1 Current and forecast real GDP growth

(EU; percentage changes; year-on-year growth)

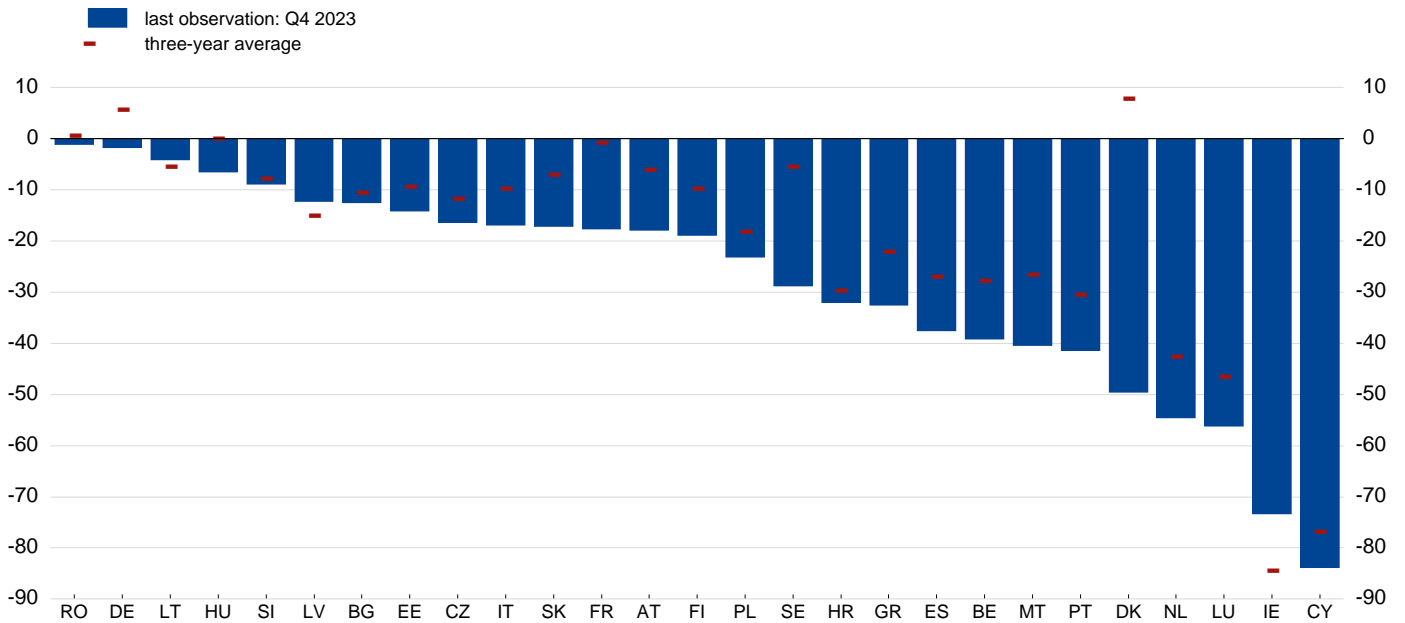


Sources: European Commission and the European Commission Spring 2024 forecast.

Notes: The three-year historical average is the average of the year-on-year growth rates over the last 12 quarters. For GR and LU, "last observation" refers to Q4 2023.

2.2 Domestic credit-to-GDP gap

(EU; percentages)



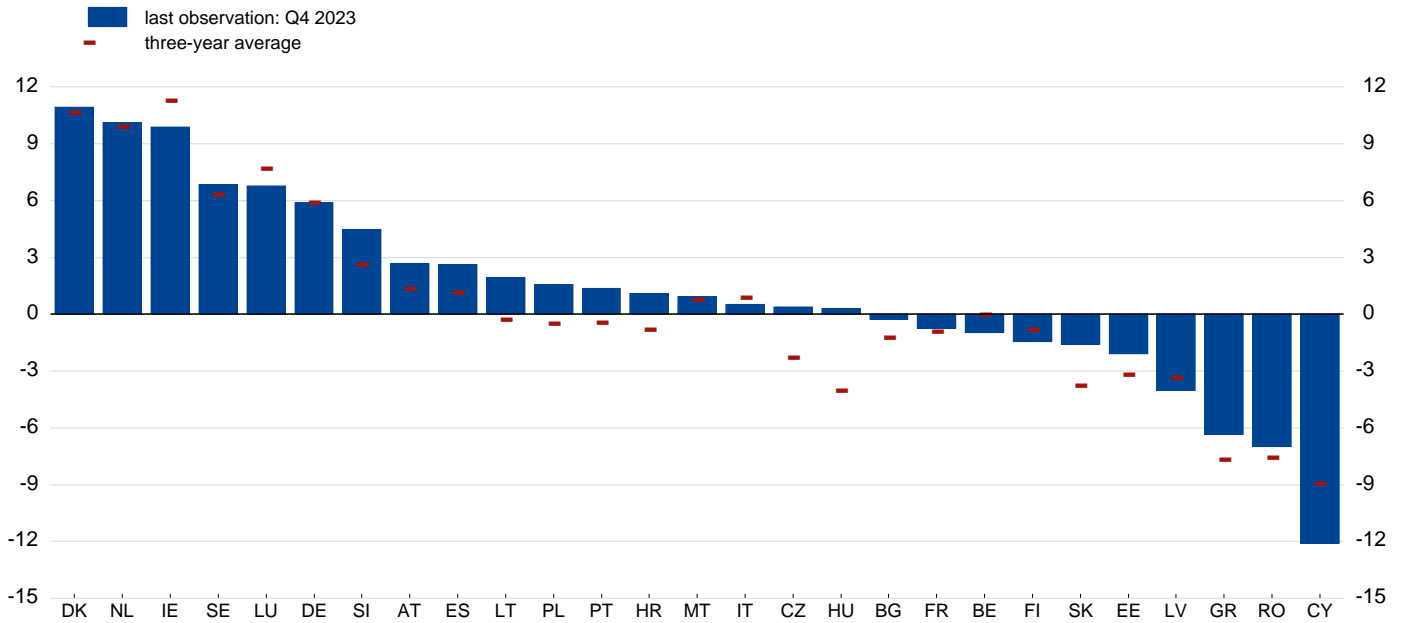
Sources: European Commission, BIS, ECB and ECB calculations.

Notes: See ESRB recommendation of 18 June 2014 on guidance for setting countercyclical buffer rates (ESRB/2014/1). ECB calculations and national calculations may differ.

2. Macro risk

2.3 Current account balance-to-GDP ratio

(EU; percentages)

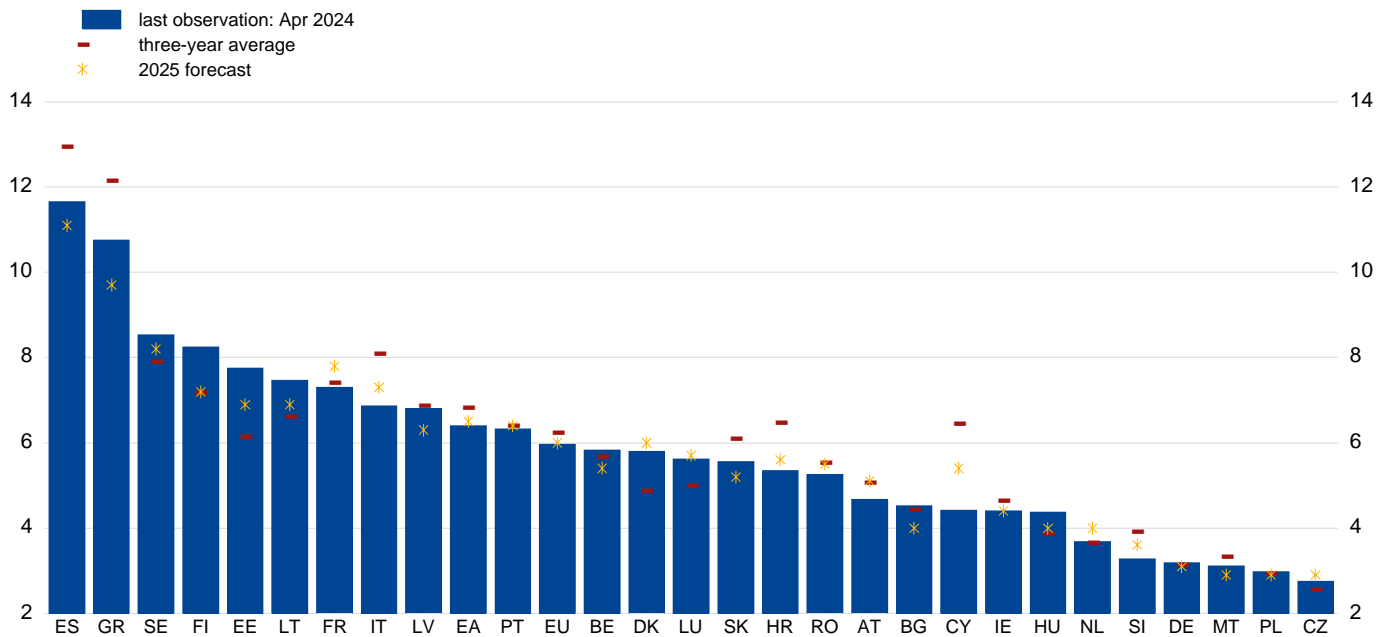


Source: ECB and European Commission.

Notes: Quarterly data represent the sum of the four quarters up to and including the quarter of reference. The three-year average is compiled on the basis of the annualised ratio of the last 12 quarters. The indicator includes amounts relating to special purpose entities (SPEs). Large proportions of their activities and their lending and indebtedness practices are not related to the domestic market. For countries with a relevant presence of resident SPEs (in particular CY, HU, IE, LU, MT and NL), the impact on this indicator and its changes can be very significant. Additional information on the effect of SPEs may be obtained from the relevant national compilers.

2.4 Unemployment rate

(EU; percentage of labour force; seasonally adjusted)



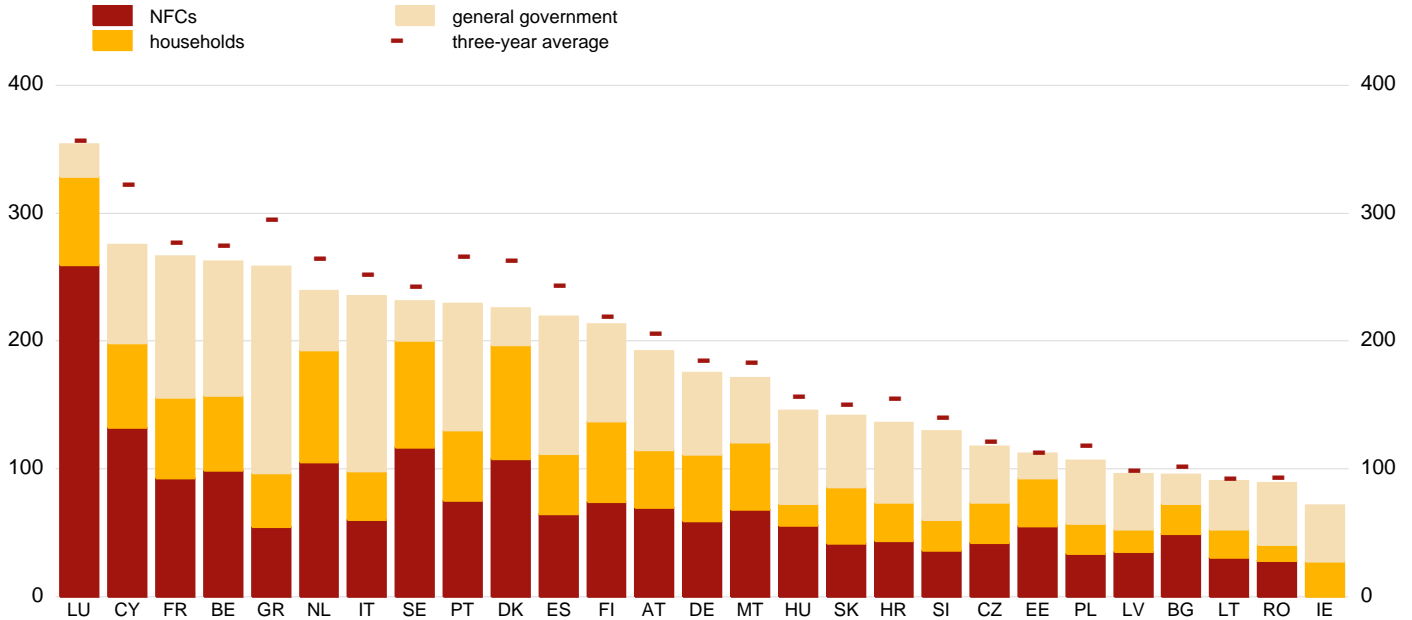
Sources: European Commission and the European Commission Spring 2024 forecast.

2. Macro risk

2.5 Aggregate debt-to-GDP ratio

a. Level

(EU; percentages; last observation: Q4 2023)

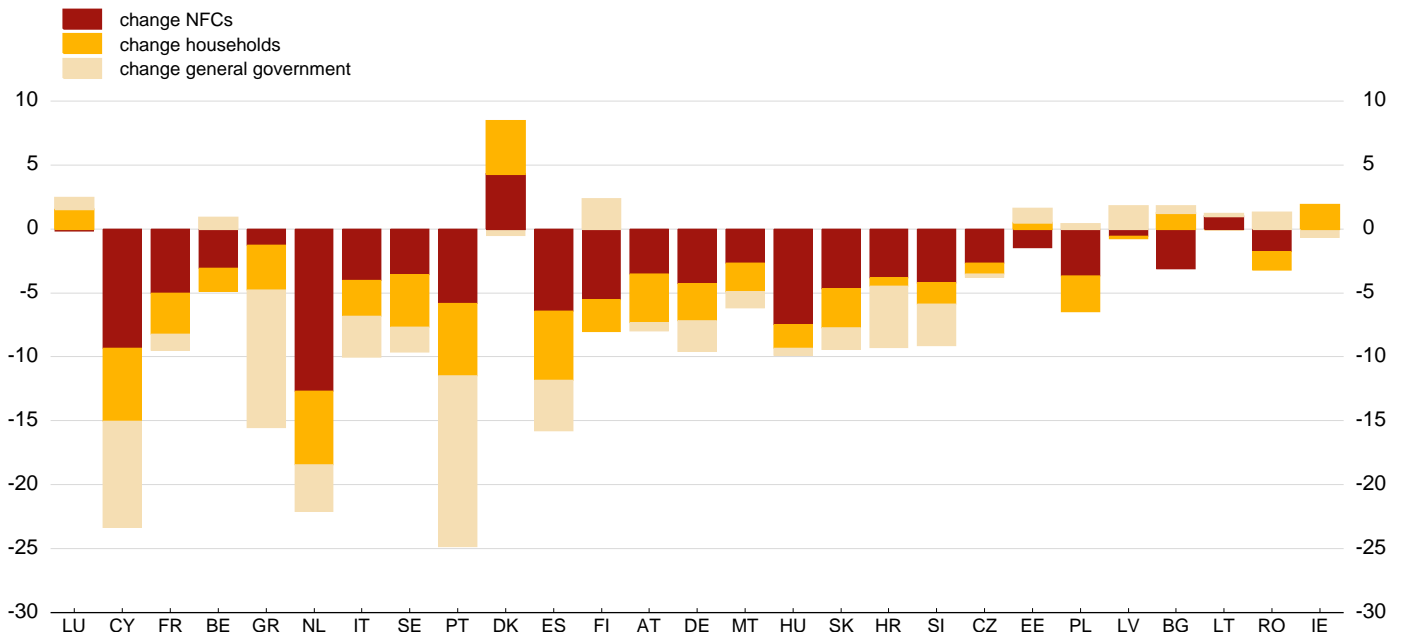


Sources: ECB and European Commission.

Notes: Debt-to-GDP ratios for NFCs and general government are based on consolidated debt figures. Data on NFCs are not available for IE. The indicator includes amounts relating to special purpose entities (SPEs). Large proportions of their activities and their lending and indebtedness practices are not related to the domestic market. For countries with a relevant presence of resident SPEs (in particular CY, HU, IE, LU, MT and NL) the impact on this indicator and its changes can be very significant. Additional information on the effect of SPEs may be obtained from the relevant national compilers.

b. Year-on-year change

(EU; percentage points; year-on-year changes; last observation: Q4 2023)



Sources: ECB and European Commission.

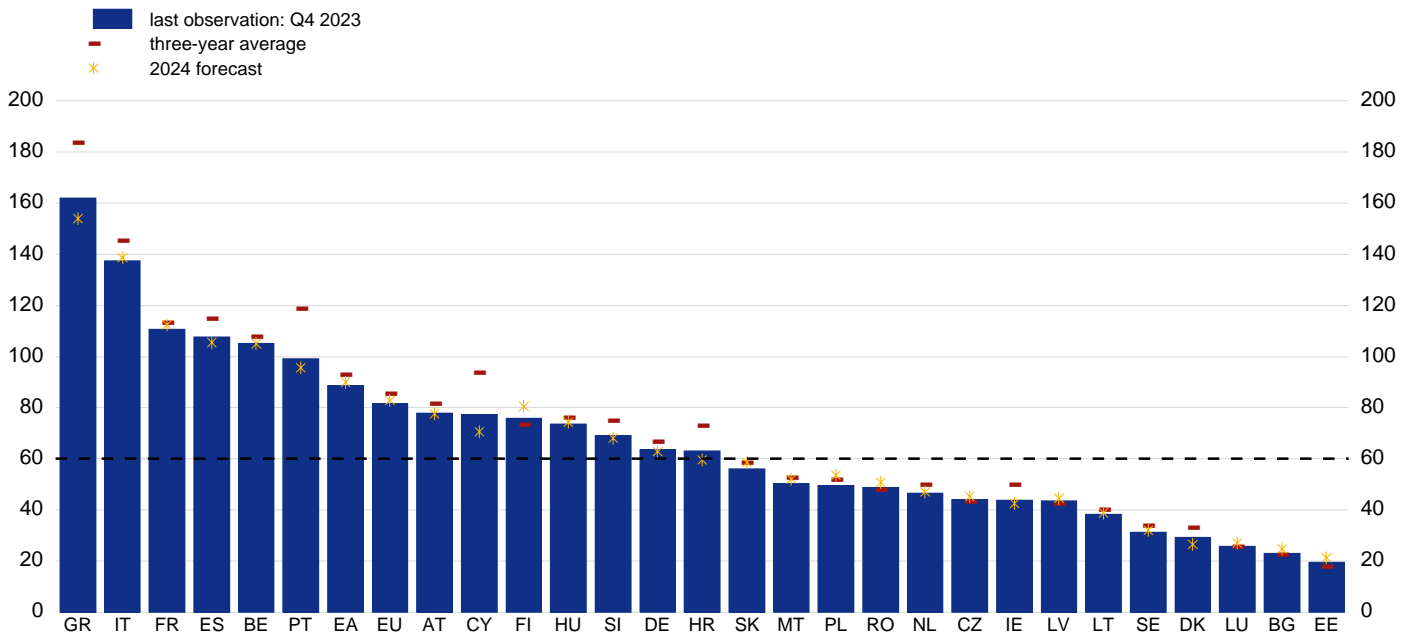
Notes: Debt-to-GDP ratios for NFCs and general government are based on consolidated debt figures. Data for NFCs for IE are not available.

The indicator includes amounts relating to special purpose entities (SPEs). Large proportions of their activities and their lending and indebtedness practices are not related to the domestic market. For countries with a relevant presence of resident SPEs (in particular CY, HU, IE, LU, MT and NL), the impact on this indicator and its changes can be very significant. Additional information on the effect of SPEs may be obtained from the relevant national compilers.

2. Macro risk

2.6 General government debt-to-GDP ratio

(EU; percentages)

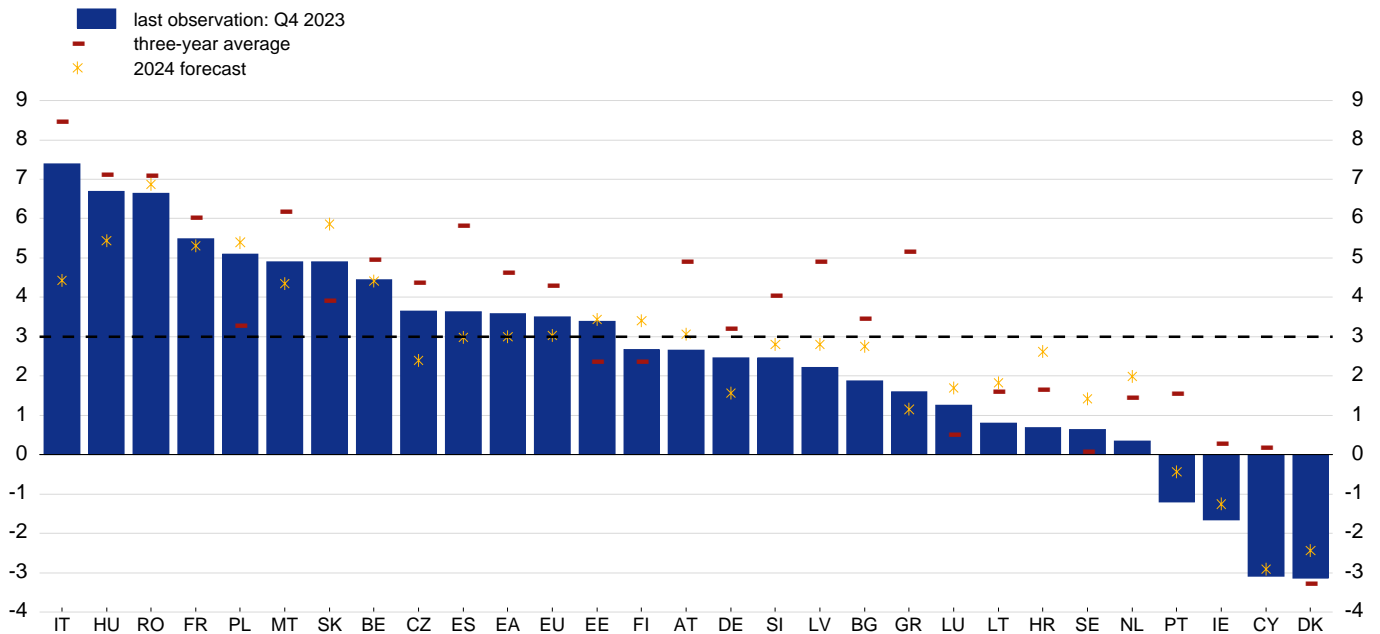


Sources: European Commission and the European Commission Spring 2024 forecast.

Notes: Intra-general government transactions are consolidated. The black dashed line represents the threshold of 60% for the government debt-to-GDP ratio under the Stability and Growth Pact.

2.7 General government deficit-to-GDP ratio

(EU; four-quarter moving sum; percentages)



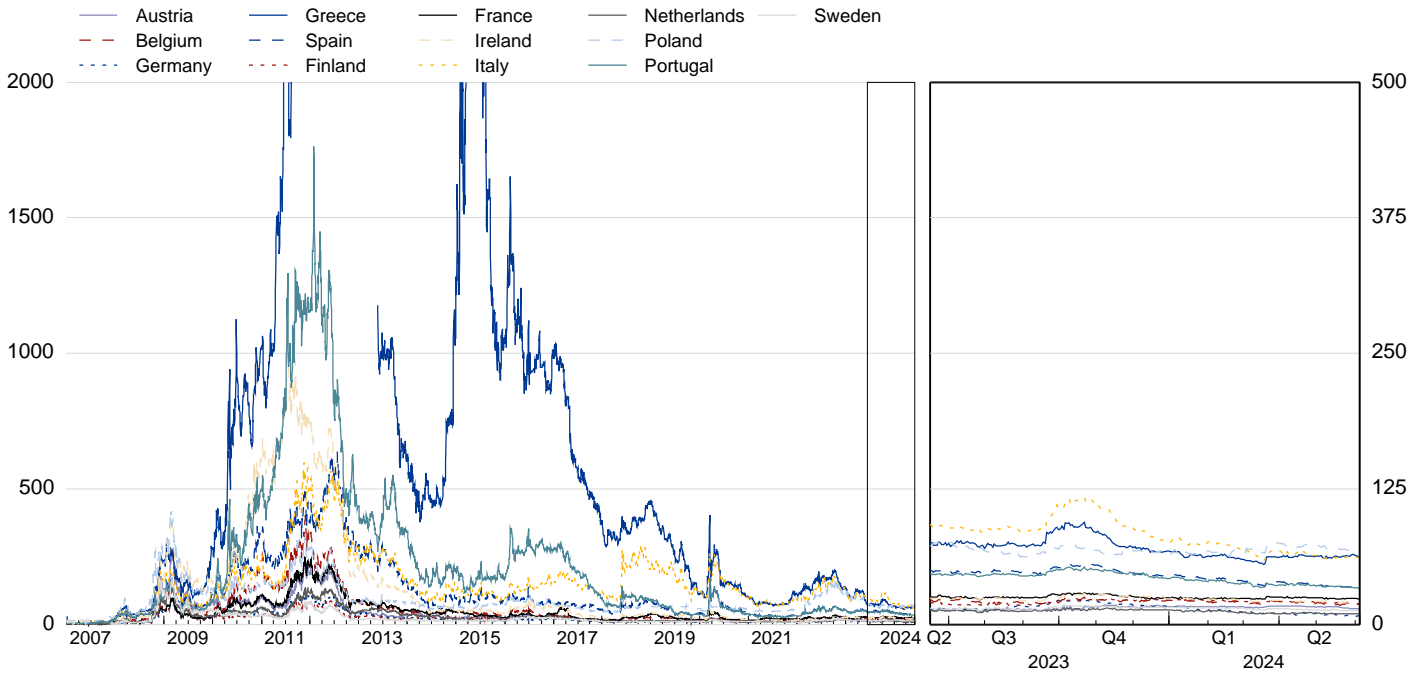
Sources: European Commission and the European Commission Spring 2024 forecast.

Notes: The black dashed line represents the threshold of 3% for the budget deficit under the Stability and Growth Pact.

2. Macro risk

2.8 CDS premia on sovereign debt

(Sample of EU countries; basis points; five-year maturities; last observation: 5 Jun. 2024)

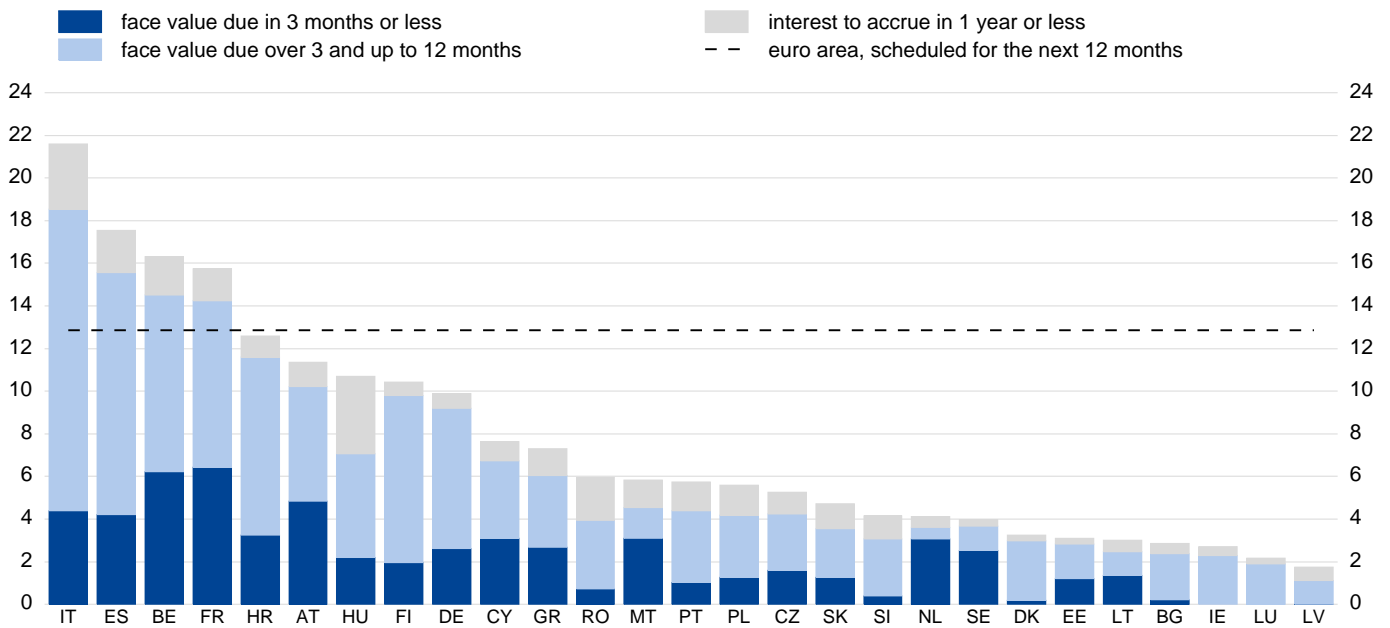


Sources: LSEG and CMA.

Notes: Greek sovereign CDS were not traded between 9 March 2012 and 11 April 2012 following the decision by the ISDA that a credit event had occurred. Due to the lack of contributors, data were also not available between 1 March and 21 May 2013. For presentational reasons, this chart has been truncated.

2.9 Government debt service

(EU; percentage of GDP; May 2024 to Apr. 2025)



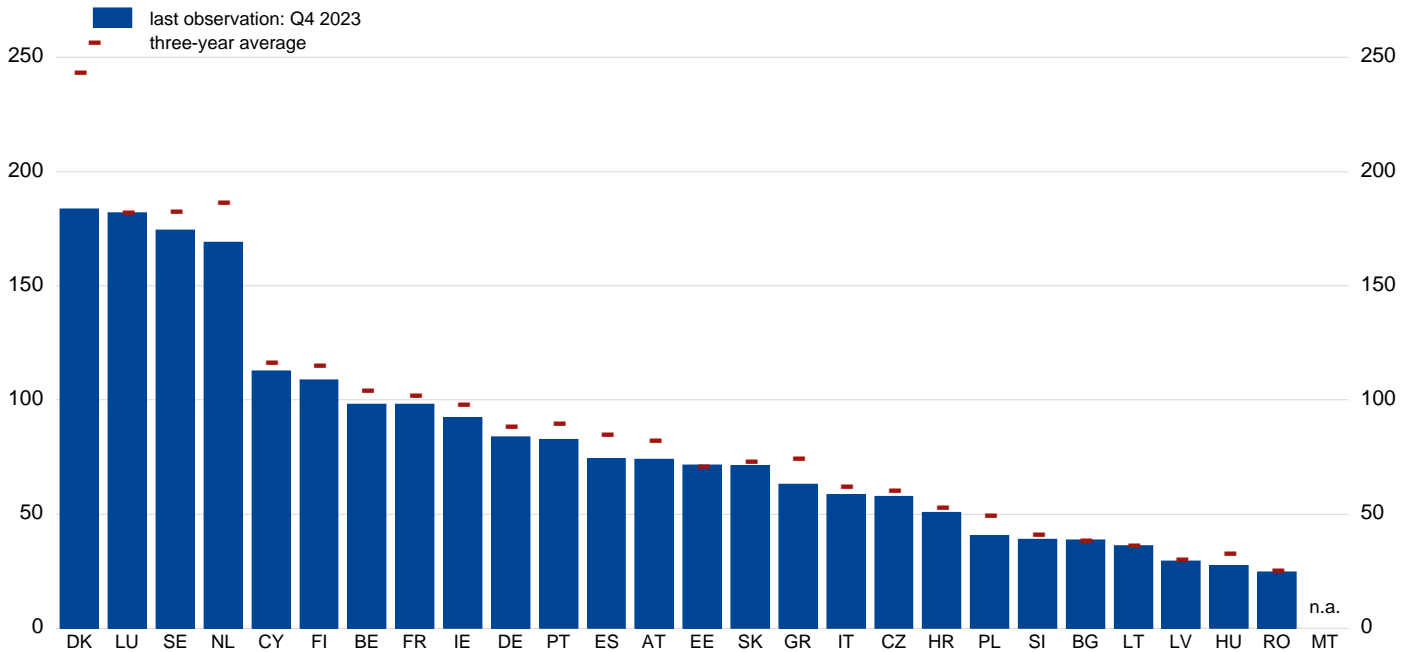
Source: ECB.

Notes: Debt service is a set of payments, including the principal amount and interest, to be made by the debtor over the life of a debt. Debt service is measured for the coming 12 months.

2. Macro risk

2.10 Household debt-to-gross disposable income ratio

(EU; percentages)

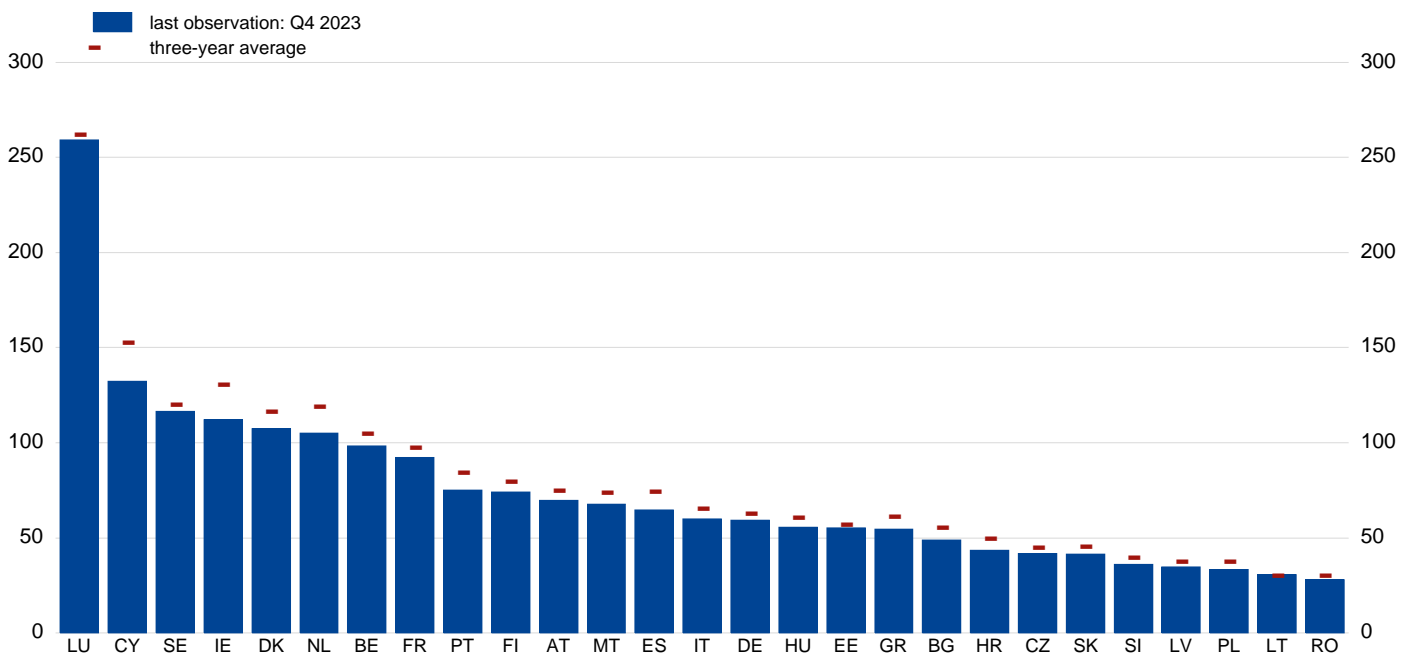


Sources: ECB and European Commission.

Notes: Data for CZ and FR are based on Q3 2023. Data for RO are based on Q4 2019. Data for CY, EE, HR, LT, LU and LV are based on annual ESA2010 series for 2022. Data for BG are based on annual ESA2010 series for 2017. Data for MT are not available.

2.11 NFC debt-to-GDP ratio

(EU; percentages)



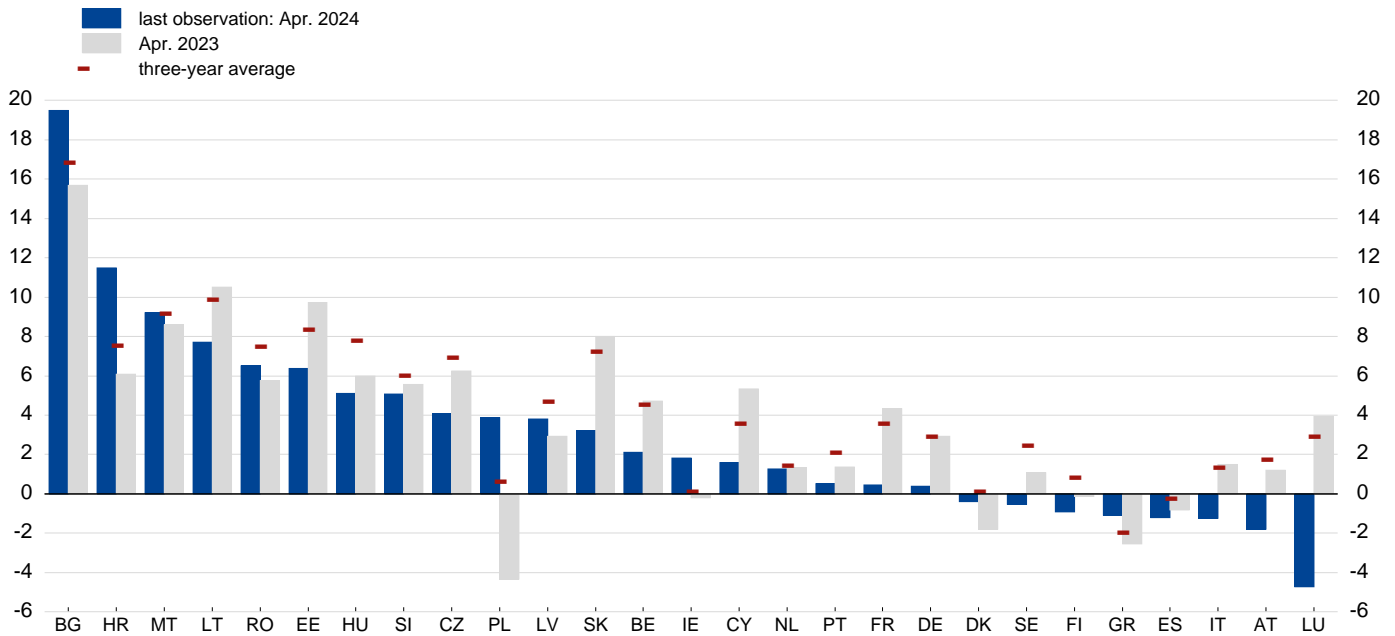
Sources: ECB and European Commission.

Notes: Debt-to-GDP ratios for NFCs are based on consolidated debt figures. Data for IE are based on Q2 2023. NL data are consolidated at the level of the resident enterprise group. The indicator includes amounts relating to special purpose entities (SPEs). Large proportions of their activities and their lending and indebtedness practices are not related to the domestic market. For countries with a relevant presence of resident SPEs (in particular CY, HU, IE, LU, MT and NL), the impact on this indicator and its changes can be very significant. Additional information on the effect of SPEs may be obtained from the relevant national compilers.

3. Credit risk

3.1 Annual growth rates of MFIs loans to households

(EU; percentages)

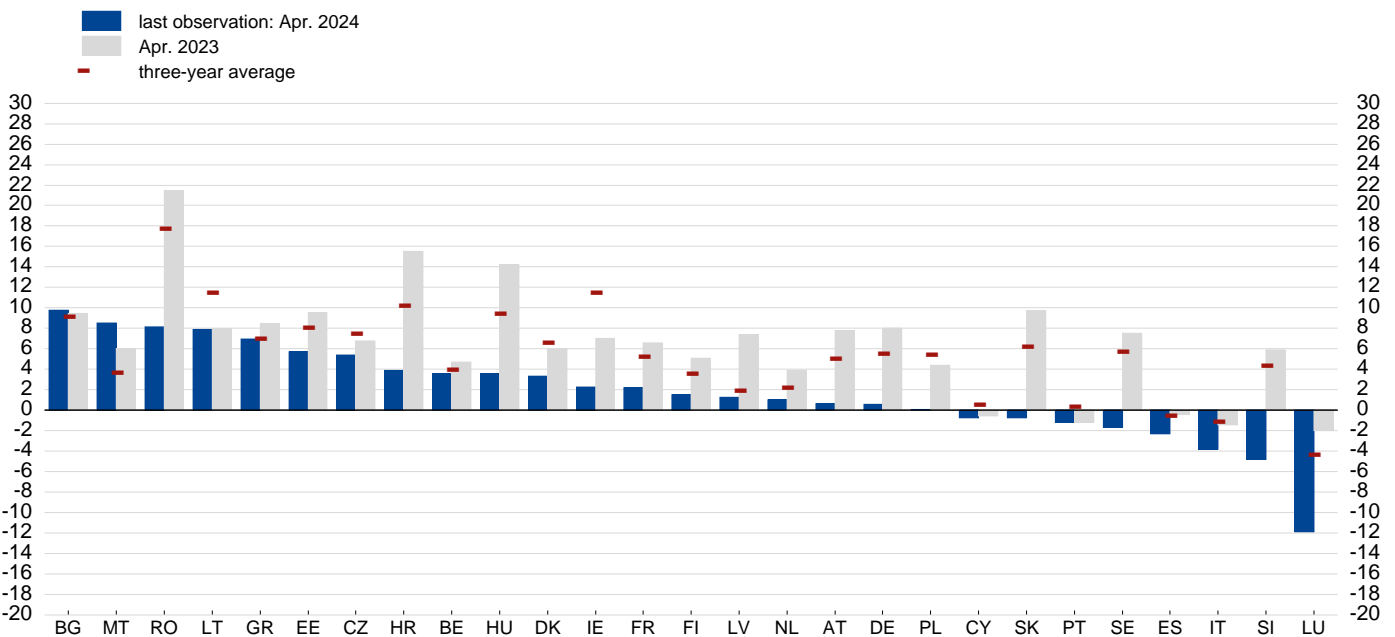


Source: ECB.

Notes: Loans extended by MFIs excluding the ESCB. Data for euro area Member States refer to loans granted to euro area households, while for non-euro area Member States to loans to domestic households. Euro area Member States data are adjusted for loan sales and securitisation (resulting in derecognition from the MFI statistical balance sheet) as well as for positions arising from notional cash pooling services provided by MFIs. The figure is based on growth in the index of notional stocks.

3.2 Annual growth rates of MFI loans to NFCs

(EU; percentages)



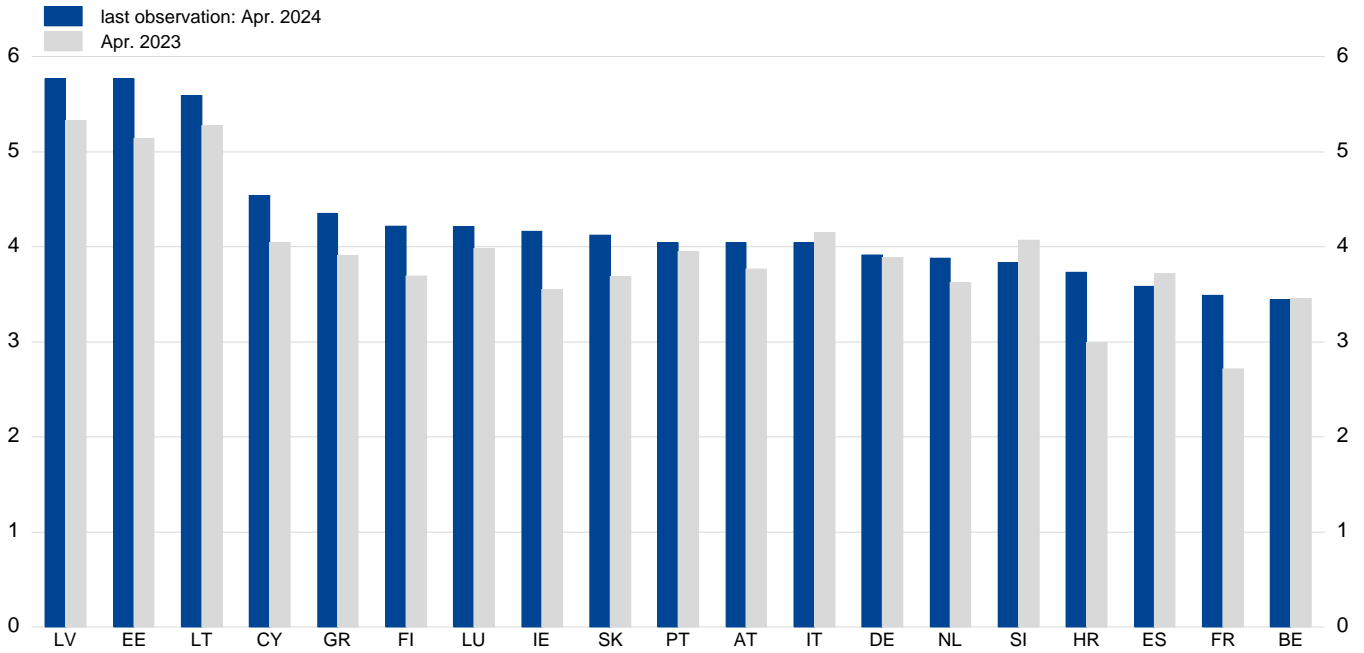
Source: ECB.

Notes: Loans extended by MFIs excluding the ESCB. Data for euro area Member States refer to loans granted to euro area NFCs, while for non-euro area Member States to loans to domestic NFCs. Euro area Member States data are adjusted for loan sales and securitisation (resulting in derecognition from the MFI statistical balance sheet) as well as for positions arising from notional cash pooling services provided by MFIs. The figure is based on growth in the index of notional stocks.

3. Credit risk

3.3 Cost of borrowing from MFIs for households (for house purchase)

(euro area; percentage points)

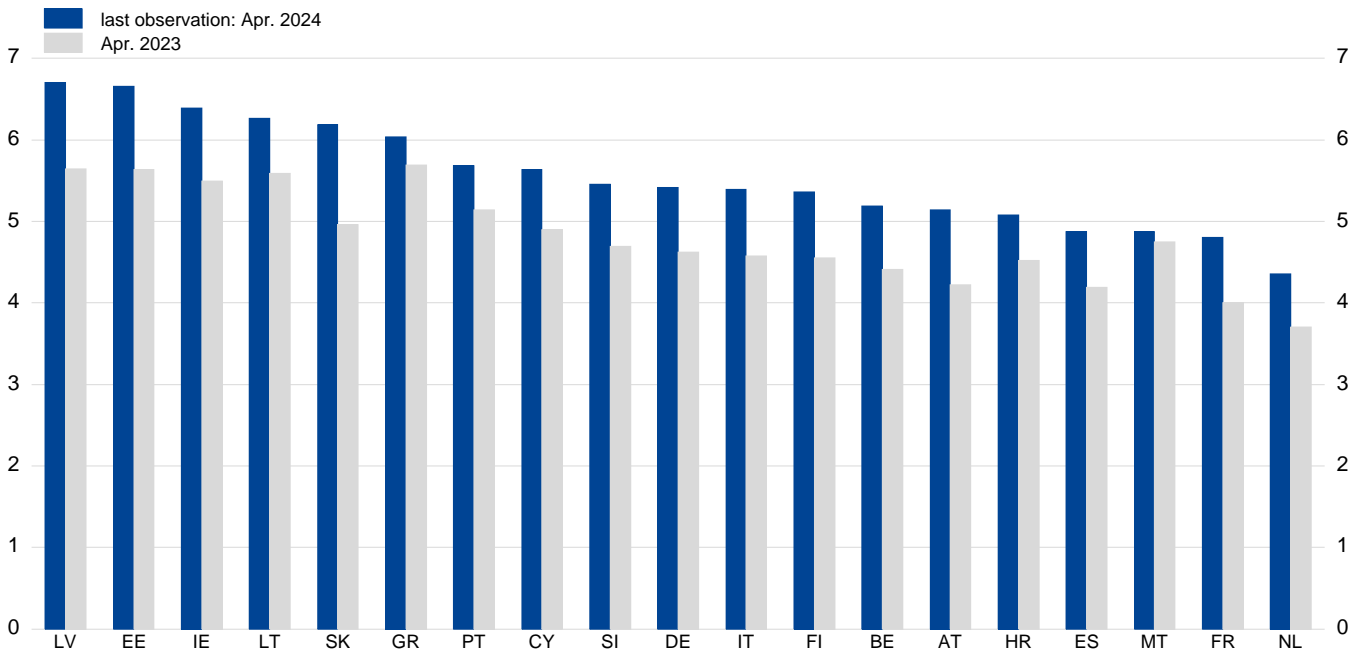


Source: ECB.

Notes: MFIs excluding ESCB. The cost of borrowing from MFIs is calculated as the weighted average of rates on short-term (i.e. initial period of interest rate fixation up to one year) and long-term (i.e. initial period of interest rate fixation over one year) MFI loans, weighted by the volumes of new business (smoothed by the moving average of the previous two years).

3.4 Cost of borrowing from MFIs for NFCs

(euro area; percentage points)



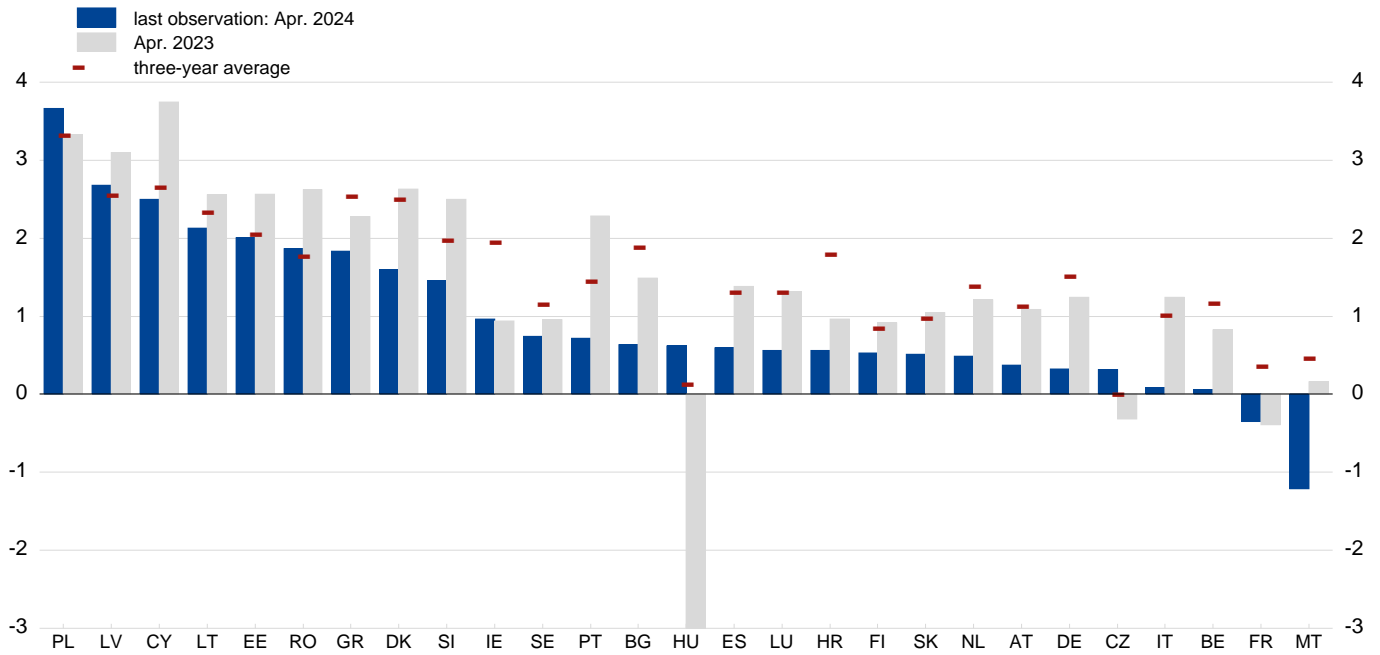
Source: ECB.

Notes: MFIs excluding ESCB. The cost of borrowing from MFIs is calculated as the weighted average of rates on short-term (i.e. initial period of interest rate fixation up to one year) and long-term (i.e. initial period of interest rate fixation over one year) MFI loans, weighted by the volumes of new business (smoothed by the moving average of the previous two years).

3. Credit risk

3.5 Lending margins of MFIs - loans to households (for house purchase)

(EU; percentage points)

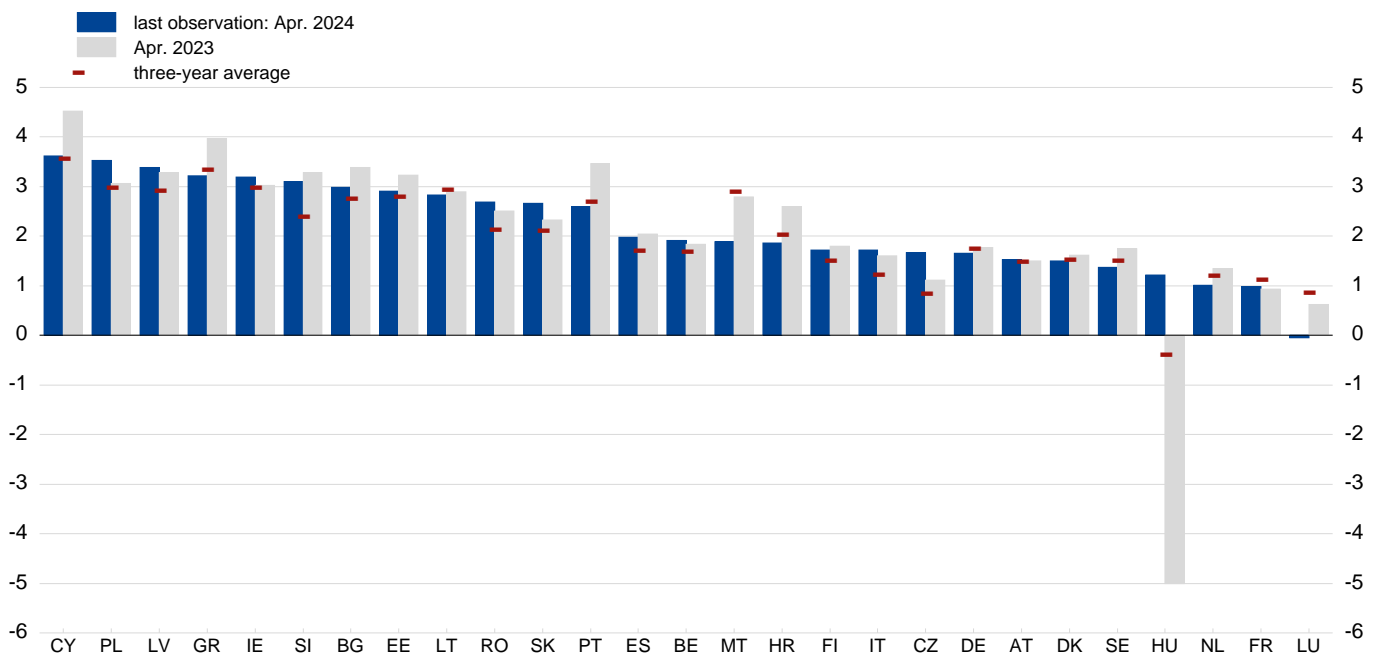


Source: ECB.

Notes: Lending margins are measured as the difference between MFIs' interest rates for new business loans and a weighted average rate of new deposits from households and NFCs. In this chart, new deposits refer to deposits with agreed maturity. For non-euro area countries, rates for loans and deposits in both euro and the national currency are taken into account. For euro area countries, rates refer to loans granted to euro area residents, whereas for non-euro area countries rates refer to loans granted to domestic residents.

3.6 Lending margins of MFIs - loans to NFCs

(EU; percentage points)



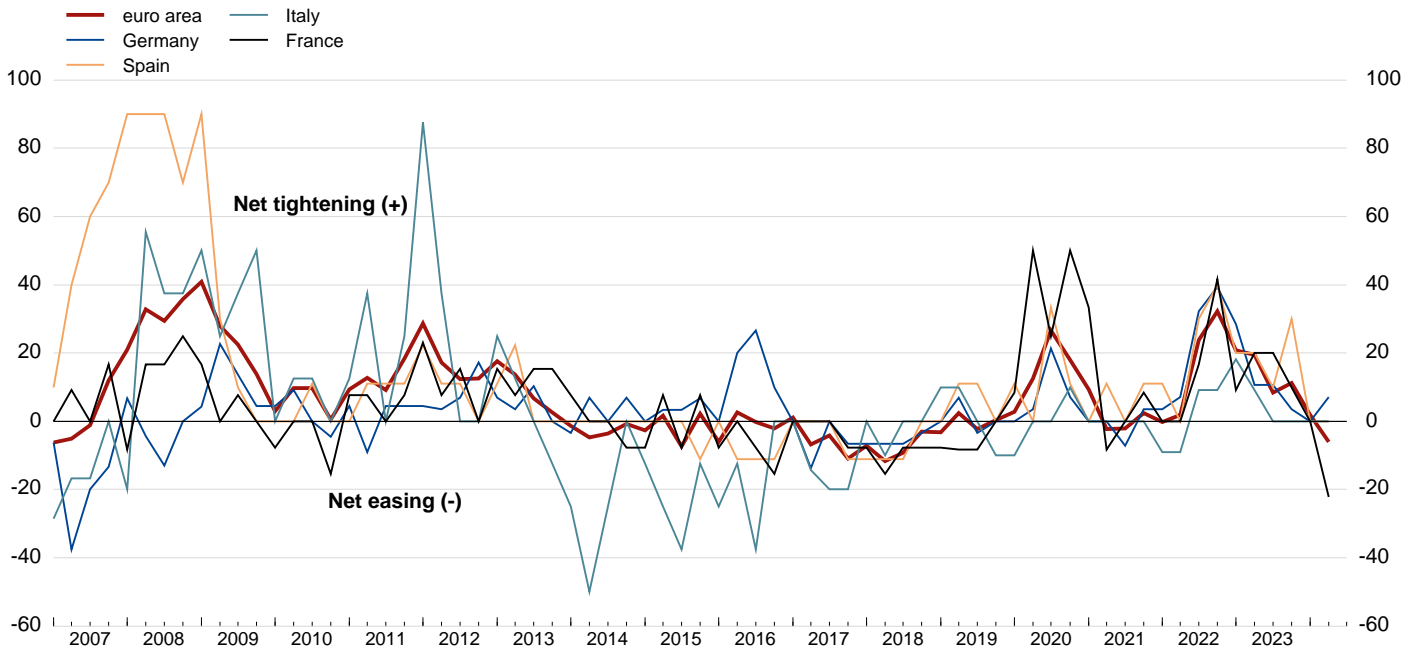
Source: ECB.

Notes: Lending margins are measured as the difference between MFIs' interest rates for new business loans and a weighted average rate of new deposits from households and NFCs. In this chart, new deposits refer to deposits with agreed maturity. For non-euro area countries, rates for loans and deposits in both euro and the national currency are taken into account. For euro area countries, rates refer to loans granted to euro area residents, whereas for non-euro area countries rates refer to loans granted to domestic residents.

3. Credit risk

3.7 Changes in credit standards for loans to households (for house purchase)

(Sample of euro area countries; net percentages; last observation: Q2 2024)

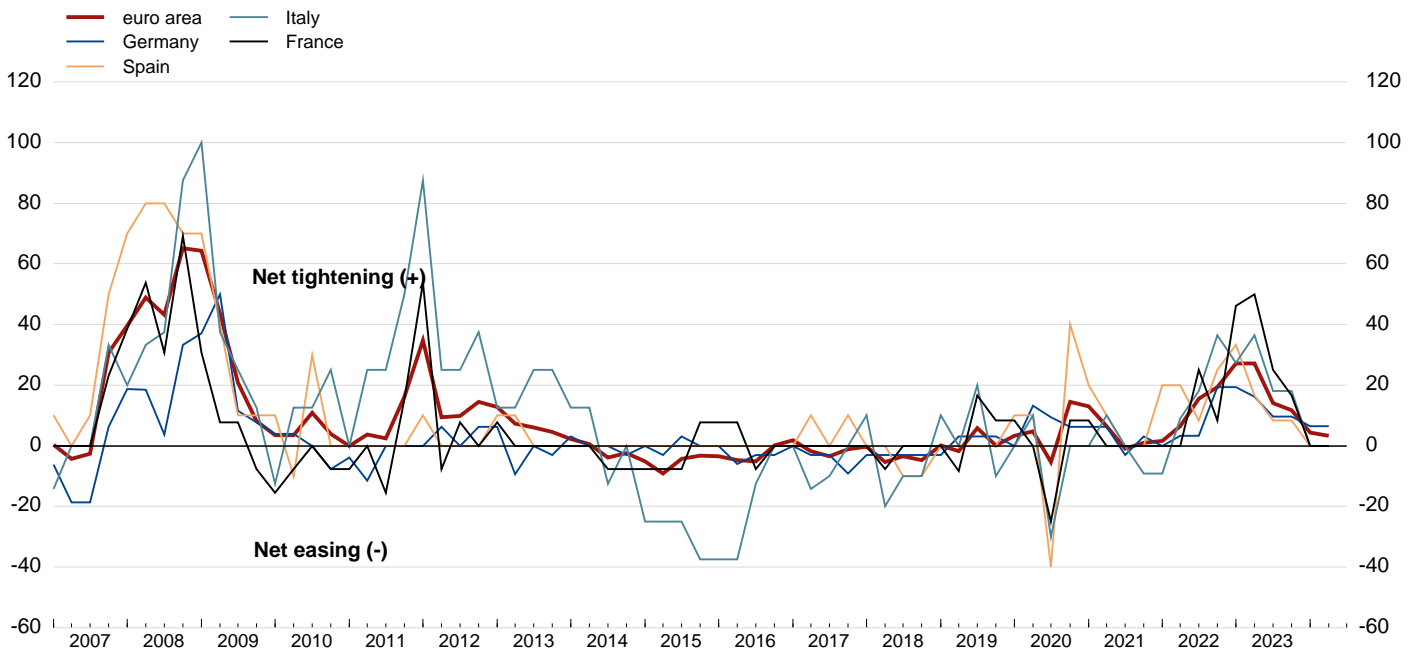


Source: ECB.

Notes: Net percentages of banks contributing to the tightening of standards over the previous three months. The last observation refers to the quarter in which the most recent BLS was published.

3.8 Changes in credit standards for loans to NFCs

(Sample of euro area countries; net percentages; last observation: Q2 2024)



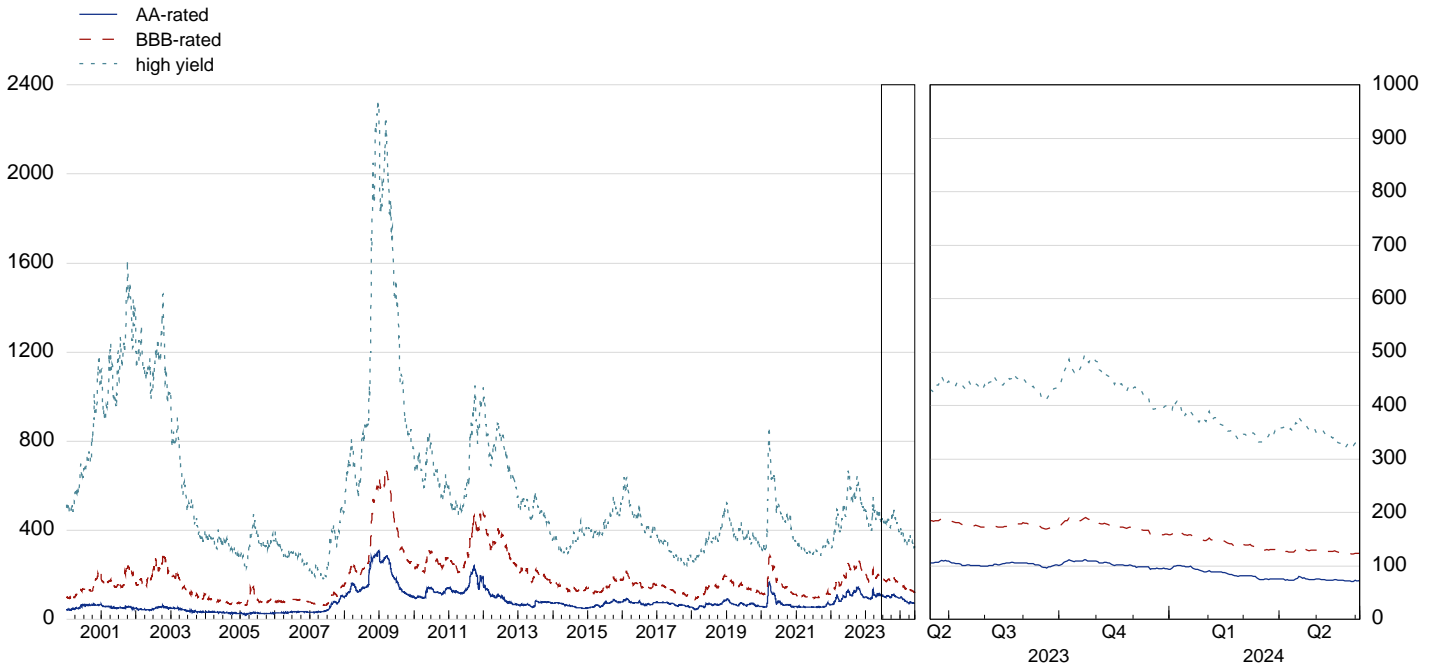
Source: ECB.

Notes: Net percentages of banks contributing to the tightening of standards over the previous three months. The last observation refers to the quarter in which the most recent BLS was published.

3. Credit risk

3.9 Option-adjusted spreads on euro area corporate bonds

(euro area; percentages; last observation: 5 Jun. 2024)

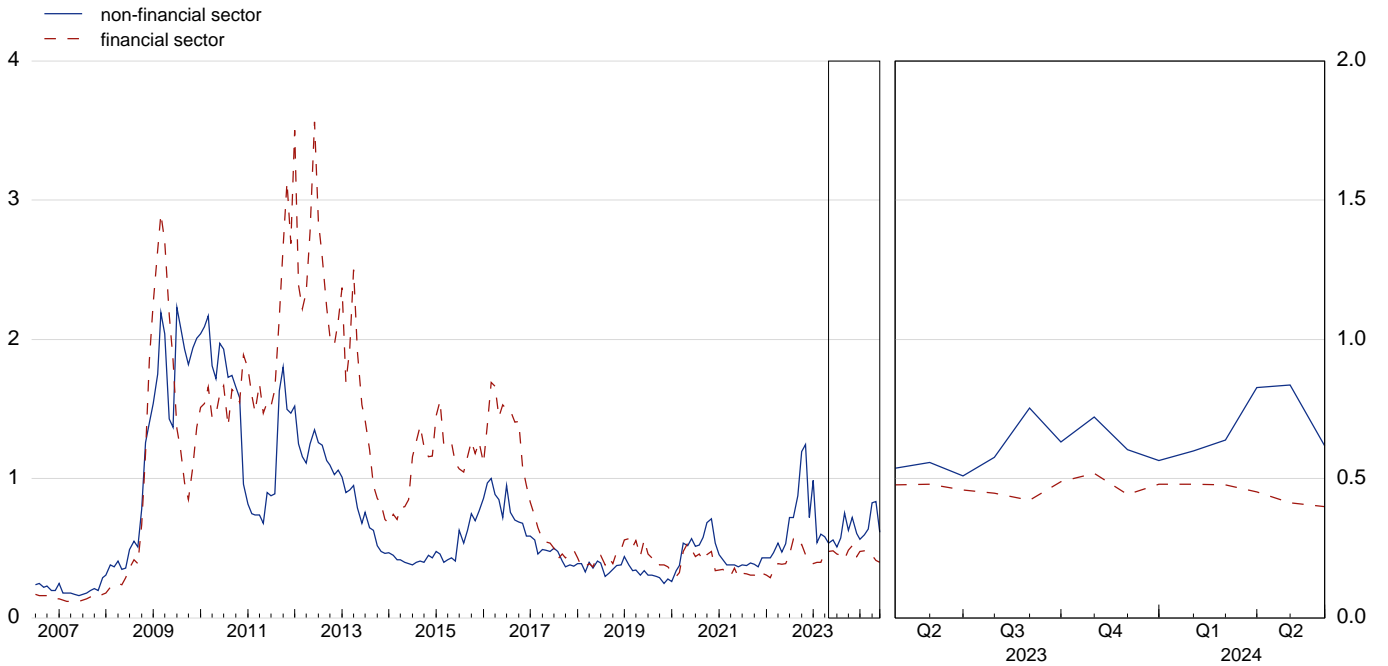


Source: Bank of America Merrill Lynch.

Note: Spreads (in basis points) over German government bonds for both plain vanilla bonds and bonds with embedded options (for which the value of the option is stripped using proprietary models).

3.10 Expected default frequency of the corporate sector

(EU; percentages; average weighted by liabilities; last observation: May. 2024)



Sources: Moody's Analytics and ECB calculations.

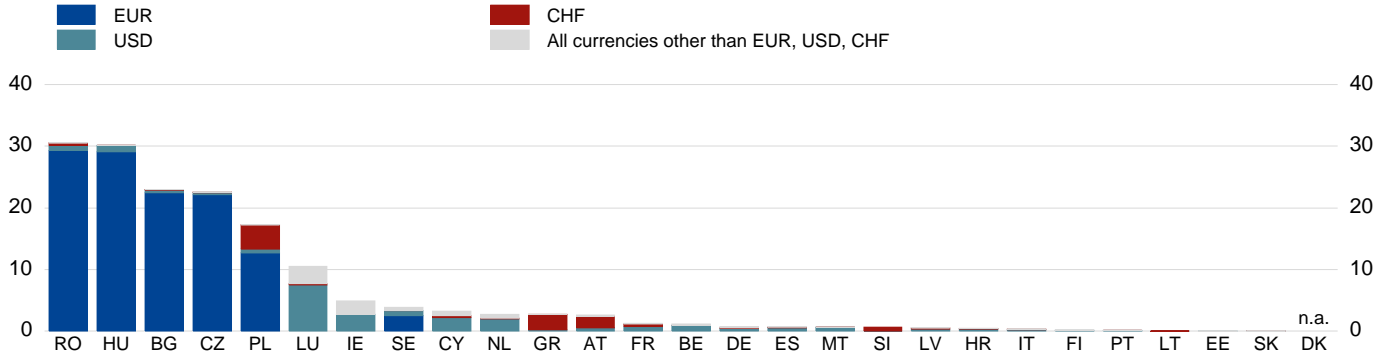
Note: The figures refer to listed companies. The weighted average is based on the amounts of non-equity liabilities.

3. Credit risk

3.11 Foreign currency loans

a. By currency

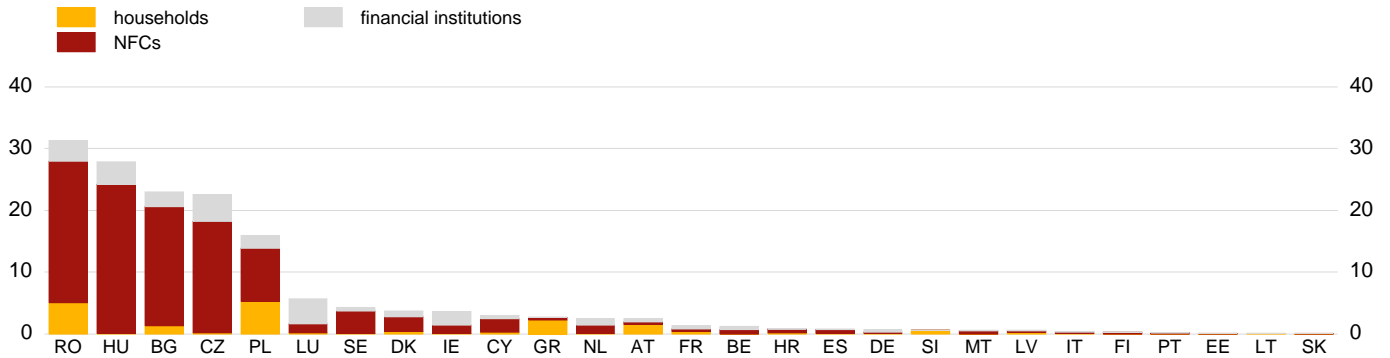
(EU; percentages; last observation: Q1 2024)



Source: ECB.

b. By sector

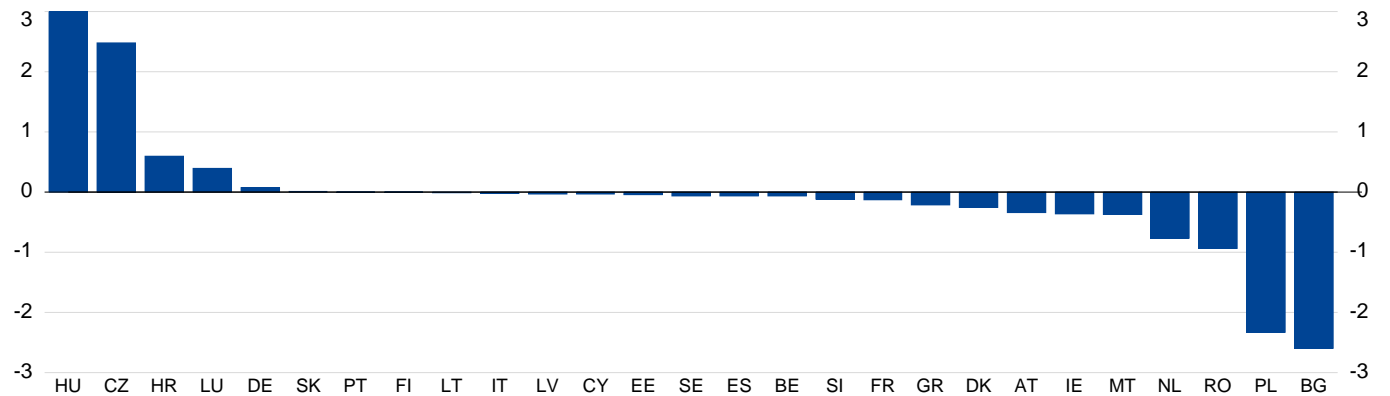
(EU; percentages; last observation: Apr. 2024)



Source: ECB.

c. Annual changes

(EU; percentage points; last observation: Apr. 2024)



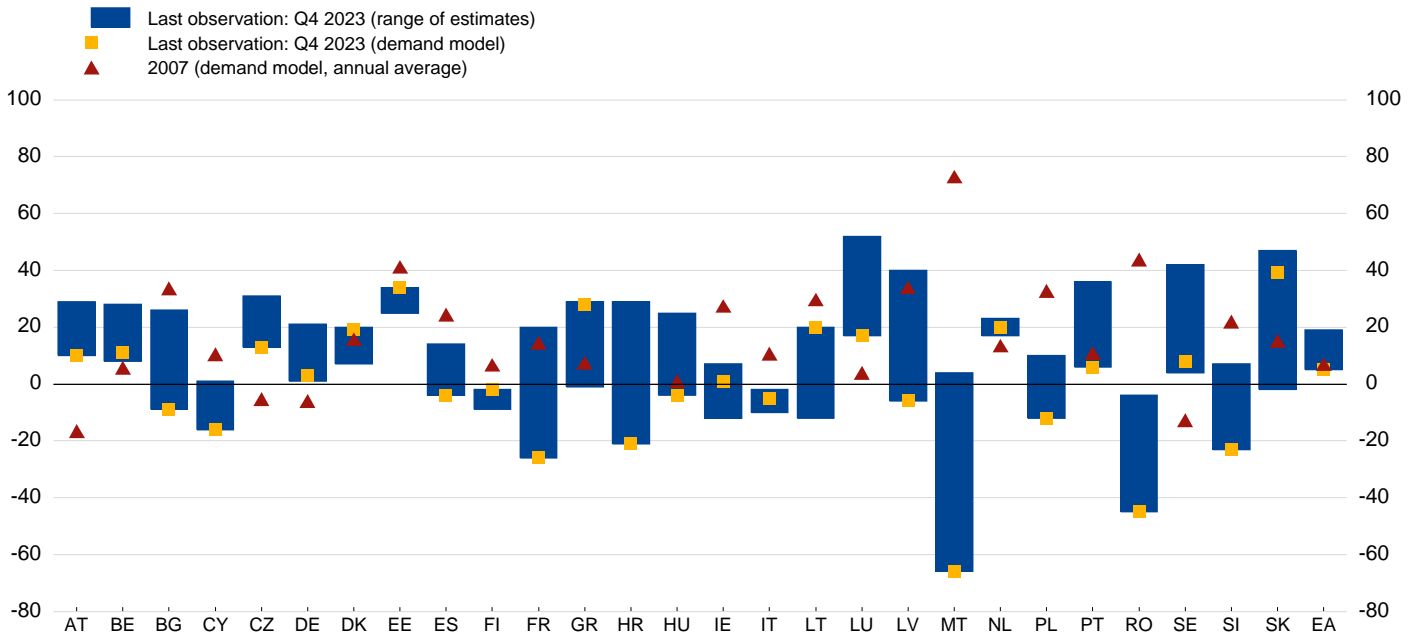
Source: ECB.

Notes for charts 3.11 - a, b and c: BG (currency board arrangement) and DK have a regime of fixed exchange rates vis-à-vis the euro.

3. Credit risk

3.12 Over/undervaluation of residential property prices

(EU; percentages)

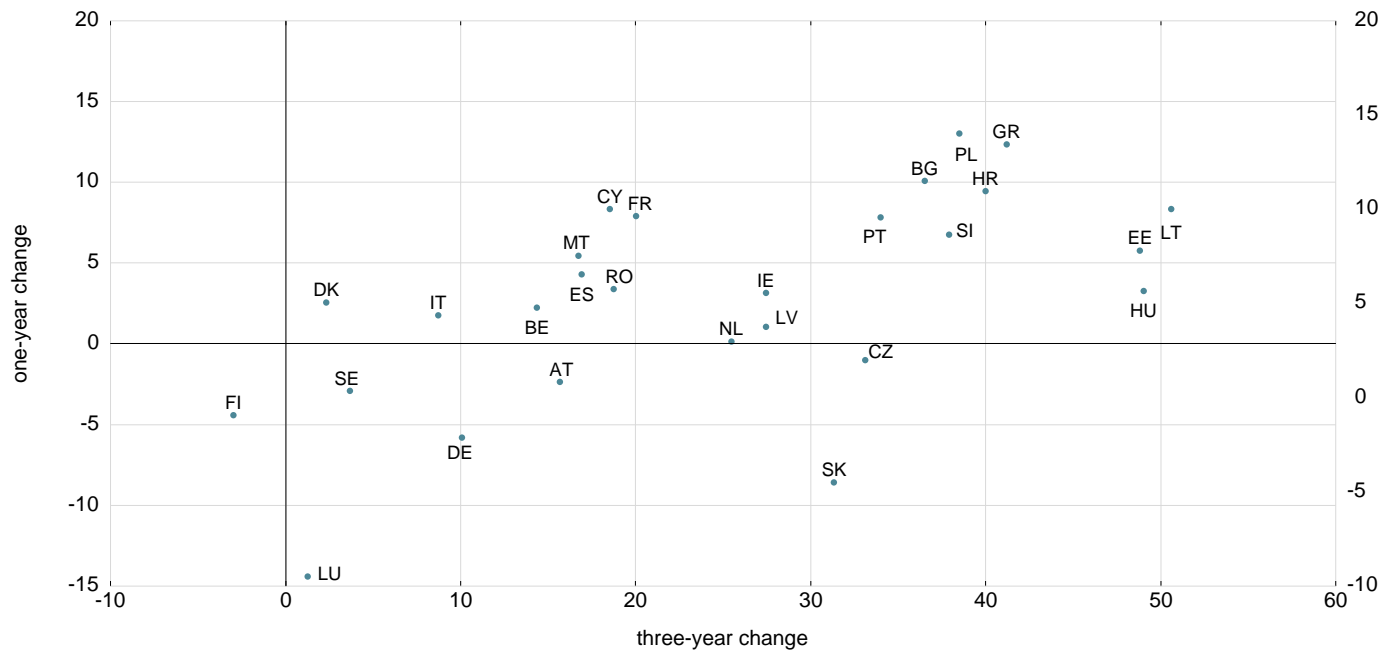


Sources: Eurostat, national sources, ECB and ECB calculations.

Notes: Estimates based on four different valuation methods: price-to-rent ratio, price-to-income ratio, asset pricing approach and a Bayesian estimated inverted demand model. For further details see Box 3, Financial Stability Review, ECB, June 2011; and box 3, Financial Stability Review, ECB, November 2015. For each country, the blue bars represent the range of estimates across the four valuation methods.

3.13 Change in nominal residential property prices

(EU; percentages; last observation: Q4 2023)

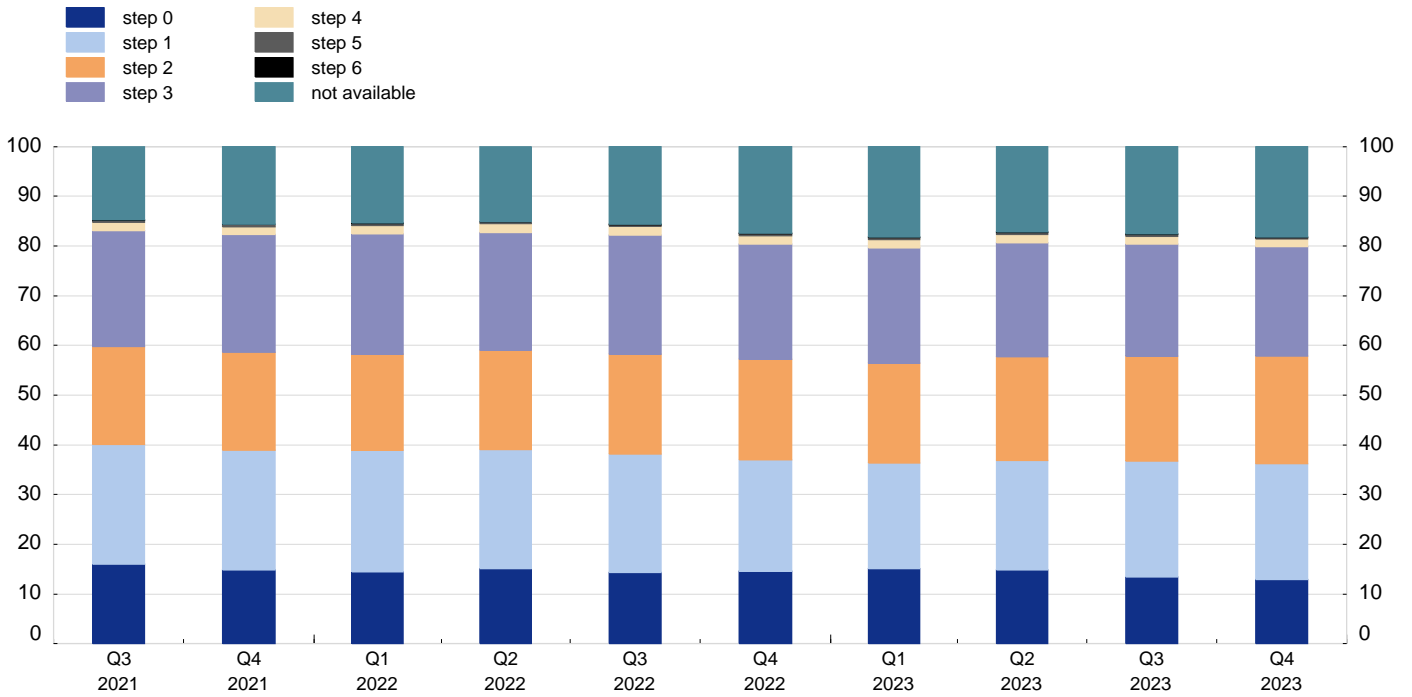


Sources: ECB, national sources and ECB calculations.

3. Credit risk

3.14 Insurance groups' credit quality steps

(EU; percentages; share of total bond portfolio; last observation: Q4 2023)



Source: EIOPA, based on Solvency II Reporting.

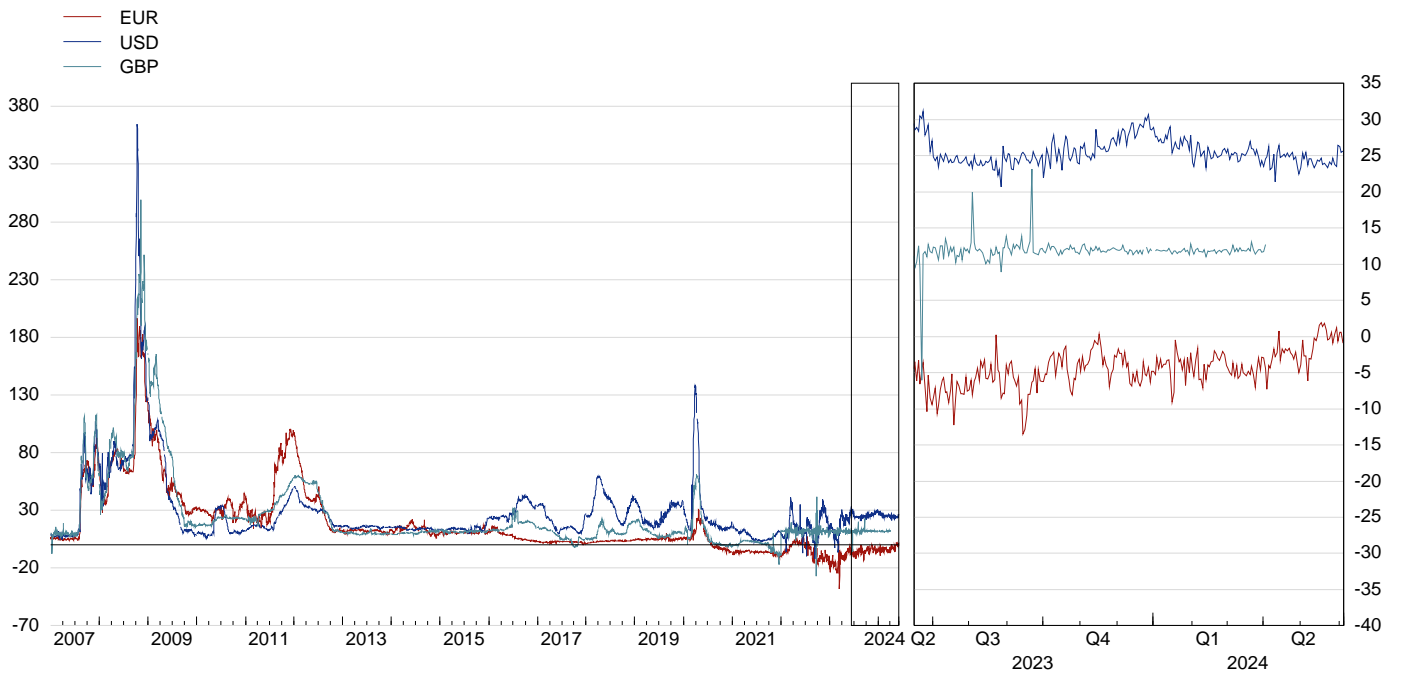
Note: Indicator presents breakdown of the insurers' bond portfolio according to the different credit quality steps.

For more details on the Solvency II reporting please see Annex I to the risk dashboard.

4. Funding and liquidity

4.1 Interbank interest rate spreads

(basis points; three-month maturities; last observation: 5 Jun. 2024)



Sources: LSEG, Bloomberg Finance L.P. and ECB calculations.

Note: Difference between interbank interest rates and overnight indexed swap.

4.2 EUR/USD cross-currency basis swap spreads

(basis points; last observation: 5 Jun. 2024)

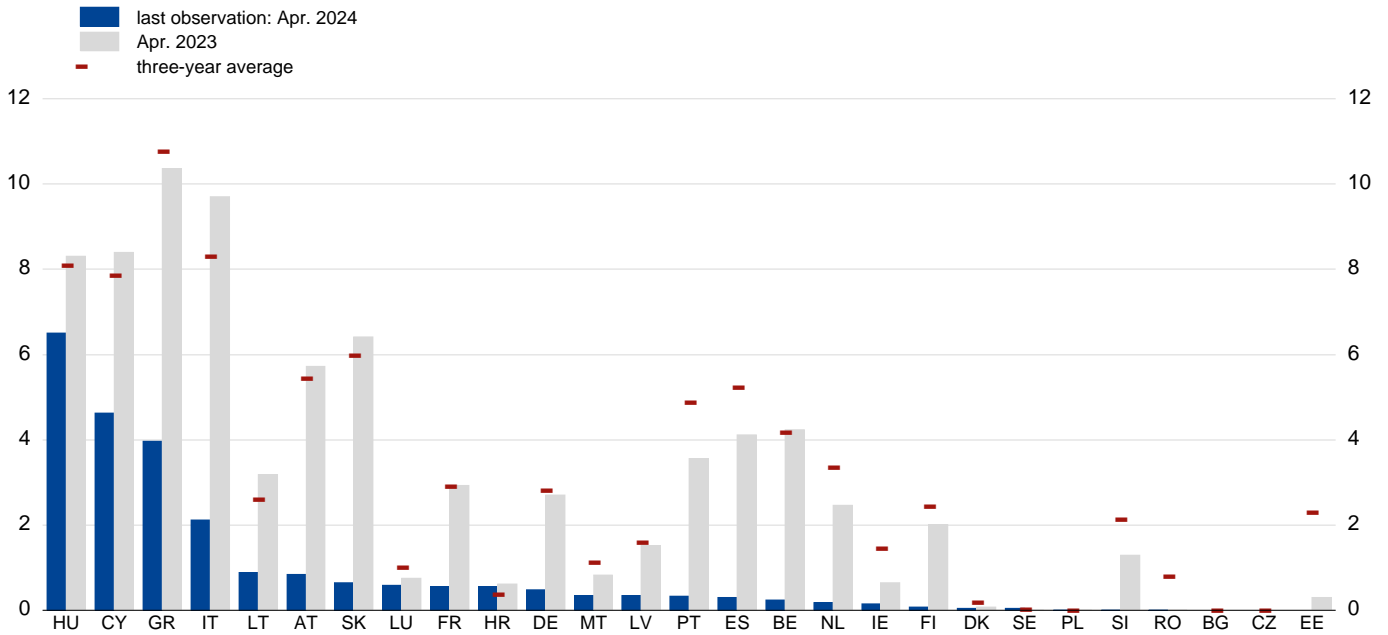


Source: Bloomberg Finance L.P.

4. Funding and liquidity

4.3 Banks' funding by central banks

(EU; share of total liabilities; percentages)

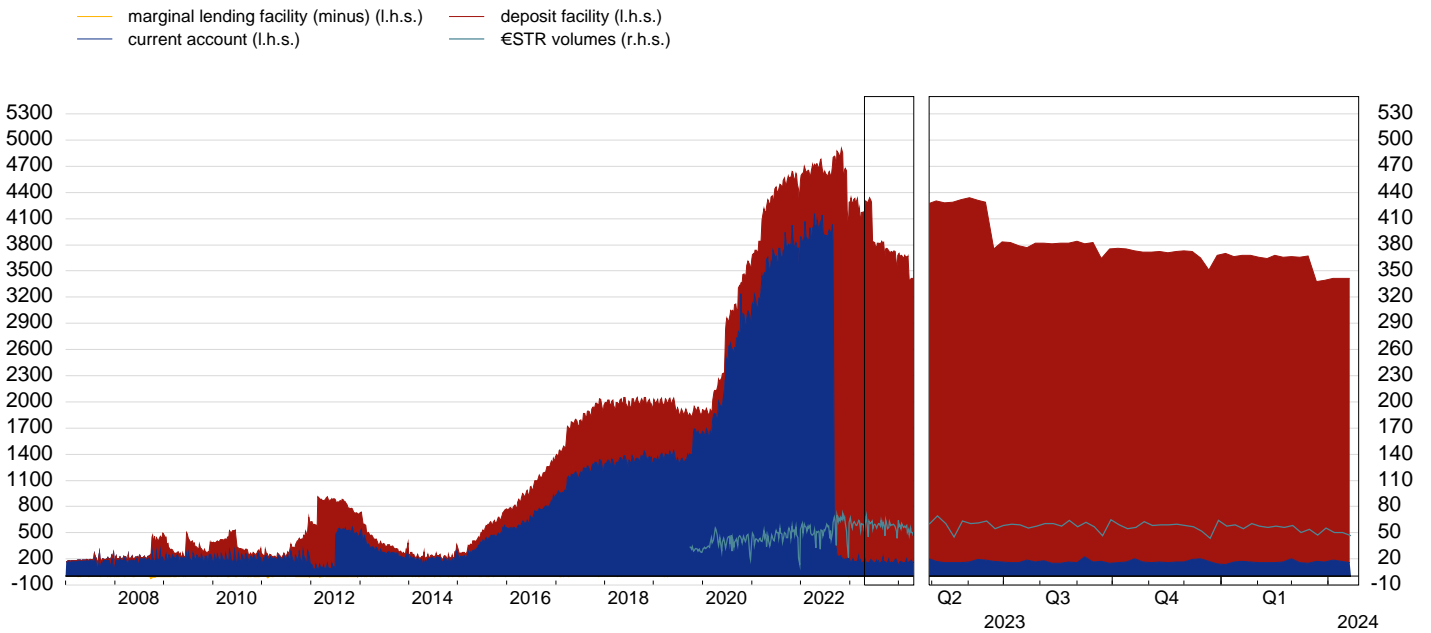


Sources: ECB and ECB calculations.

Notes: MFIs excluding the ESCB and Money Market Funds. Banks' funding by central banks comprises all loans granted by the ESCB. Total liabilities exclude capital and reserves as well as remaining liabilities.

4.4 Money markets and the Eurosystem's standing facilities

(euro area; EUR billions; last observation: 31 May. 2024)



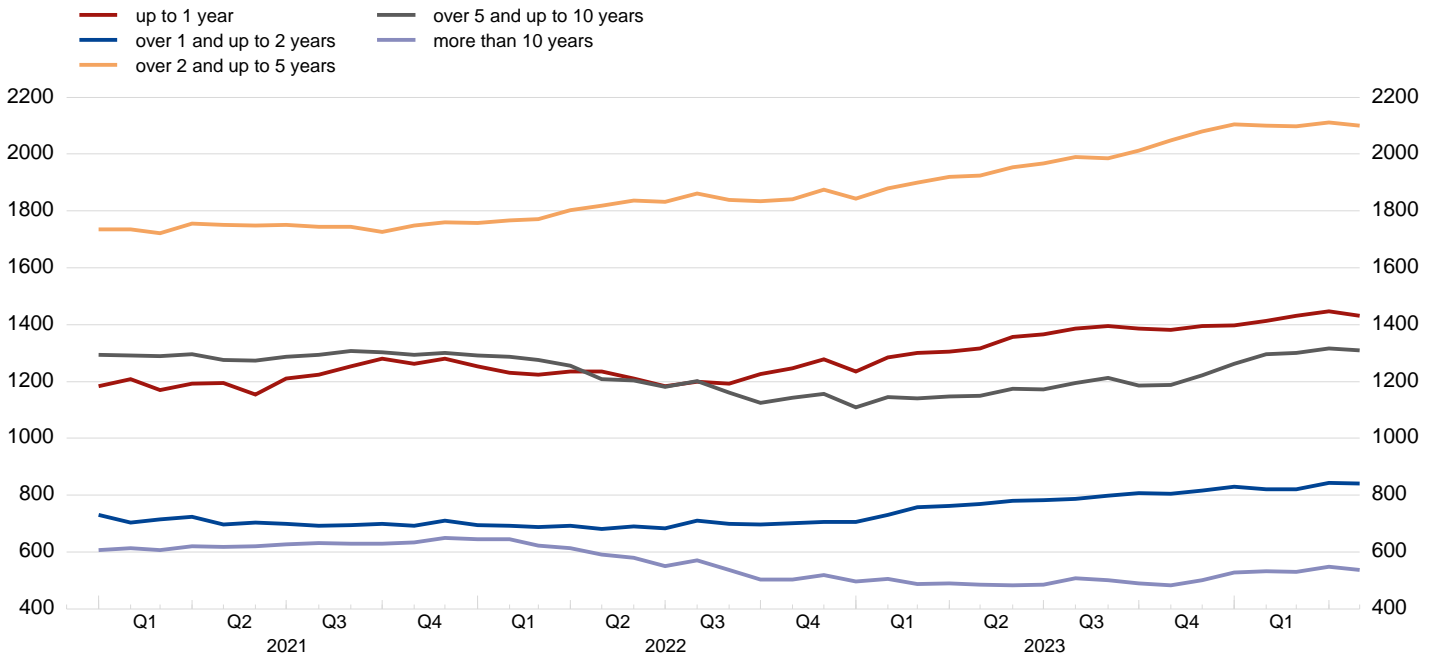
Sources: ECB and Bloomberg Finance L.P.

Note: Eurosystem's current account includes minimum reserves. Starting from October 2019 the EONIA rate has been officially replaced with the new interbank rate €STR.

4. Funding and liquidity

4.5 Maturity profile of banks' outstanding debt securities

(EU27 fixed composition; EUR billions; last observation: Apr. 2024)



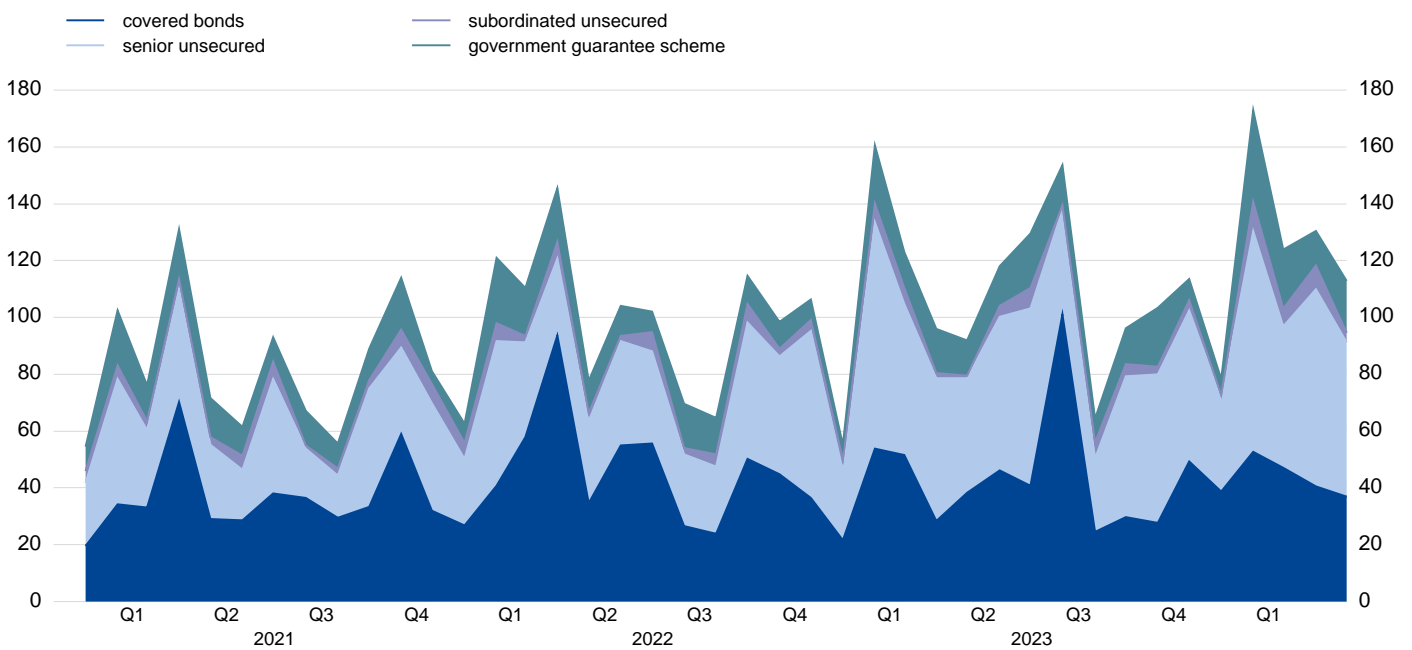
Source: CSEC.

Notes: Outstanding amounts of debt securities at market value.

The maturity profile refers to the residual maturity of debt securities.

4.6 Banks' long-term debt securities issuance by type of bond

(EU27 fixed composition; EUR billions; last observation: Apr. 2024)



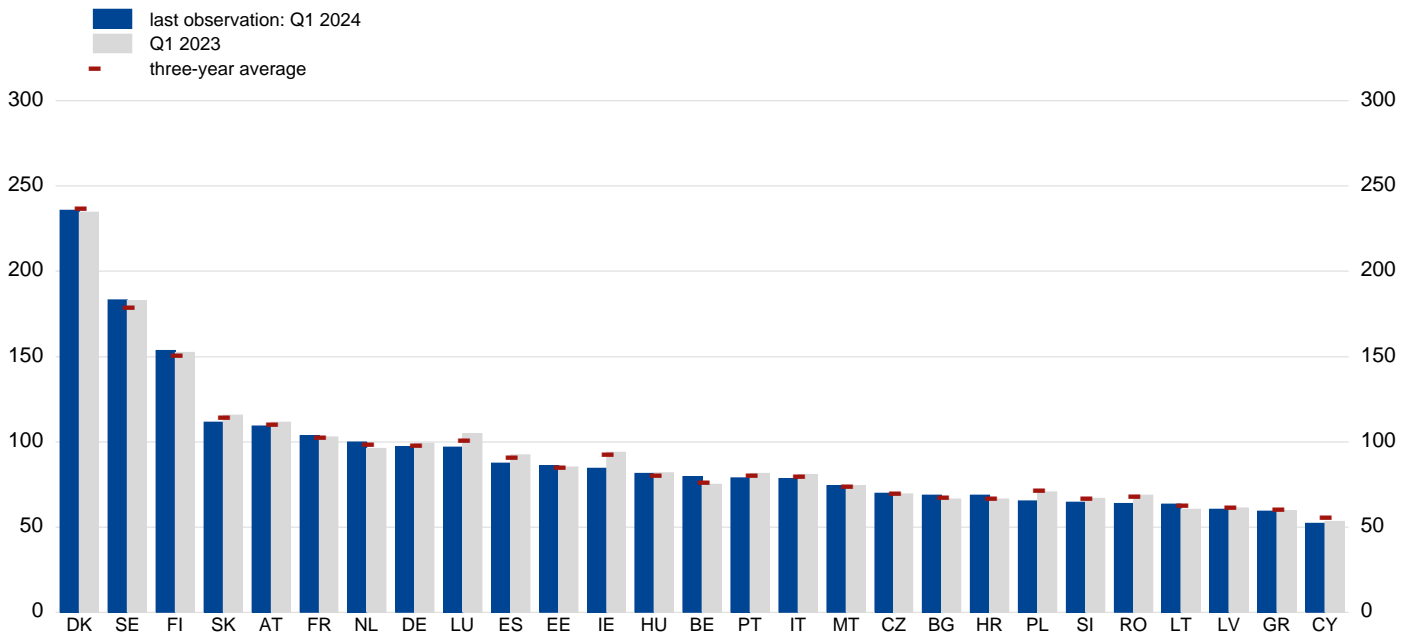
Source: CSEC.

Long-term debt securities issuances, excluding ABS, MBS and other debt securities without seniority information.

4. Funding and liquidity

4.7 Loan-to-deposit ratio

(EU; percentages)

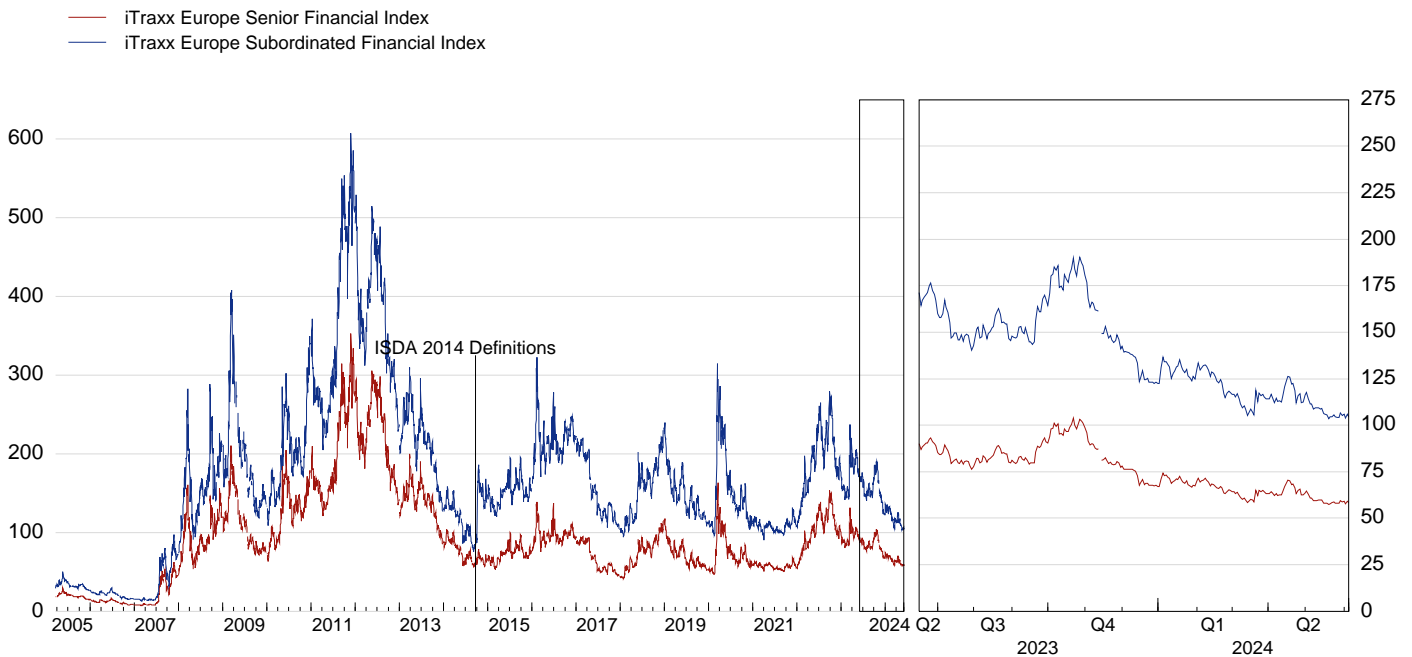


Source: ECB.

Notes: MFI sector excluding the ESCB. Data refer to the ratio between total loans and total deposits vis-à-vis domestic and euro area households and NFCs, and non-domestic and non-euro area residents excluding banks and general government. Mortgage banks in Denmark, which represent around 55% of total MFI loans to domestic NFCs, are not allowed to take deposits owing to regulations, but must fund their lending through issuance of covered bonds only. Excluding mortgage banks from the indicator, the loan-to-deposit ratio for DK is equal to 0.56 for Q4 2023 and 0.58 for Q4 2022.

4.8 CDS spread between senior and subordinated debt

(EU; basis points; five-year maturities; last observation: 5 Jun. 2024)

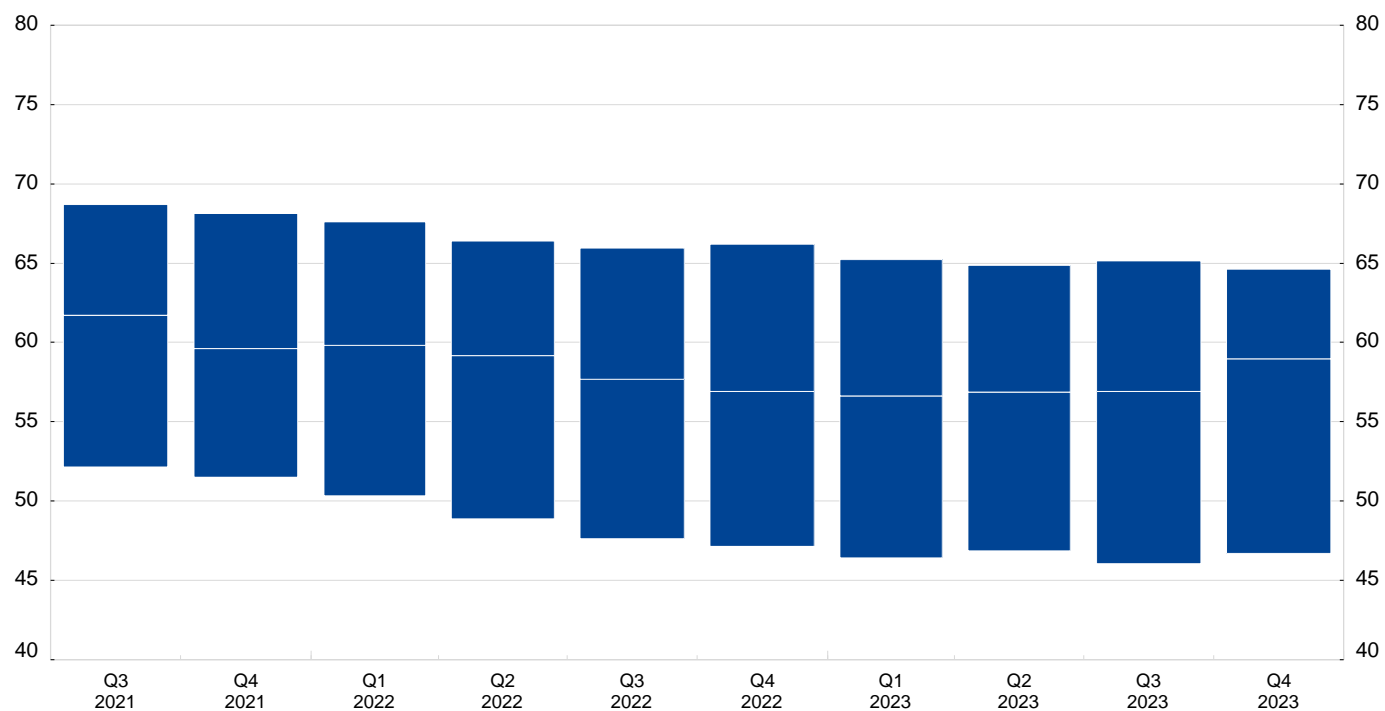


Sources: Datastream, iTraxx and ECB calculations.

4. Funding and liquidity

4.9 Insurance groups' liquid asset ratio

(EU; percentages; interquartile range and median; last observation: Q4 2023)



Source: EIOPA, based on Solvency II Reporting.

Notes: Liquid asset ratio is expressed as proportion of liquid assets to total assets.

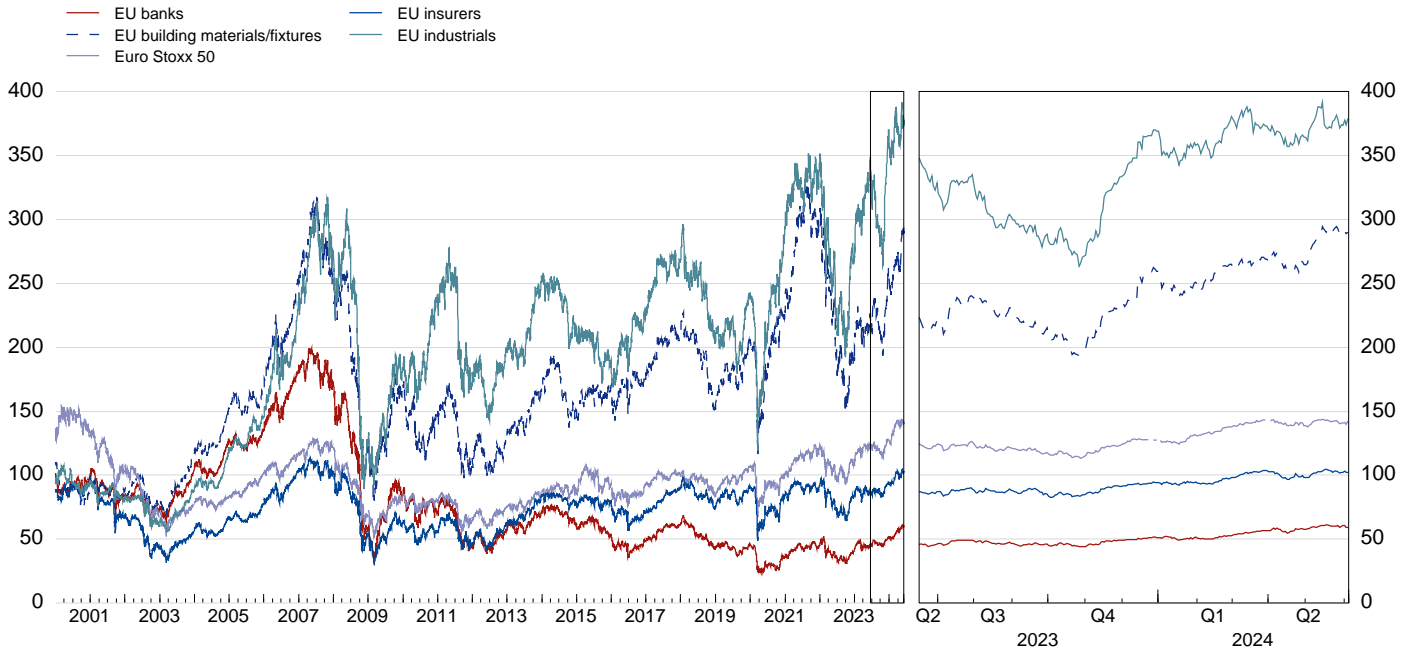
For more details on the Solvency II reporting please see Annex I to the risk dashboard.

5. Market risk

5.1 Equity indices

a. By sector

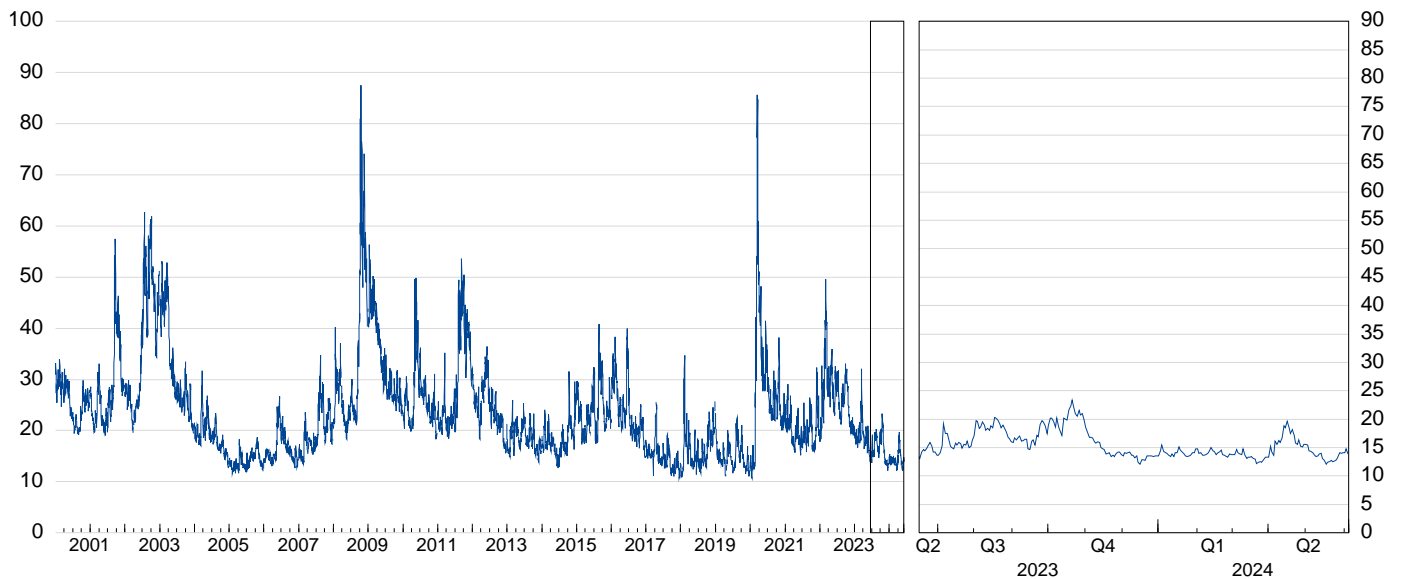
(EU, index: 4 Jan. 1999 = 100; last observation: 5 Jun. 2024)



Sources: Bloomberg Finance L.P. (Euro Stoxx 50) and LSEG (others).

b. Implied volatility

(Euro Stoxx 50 index; last observation: 5 Jun. 2024)



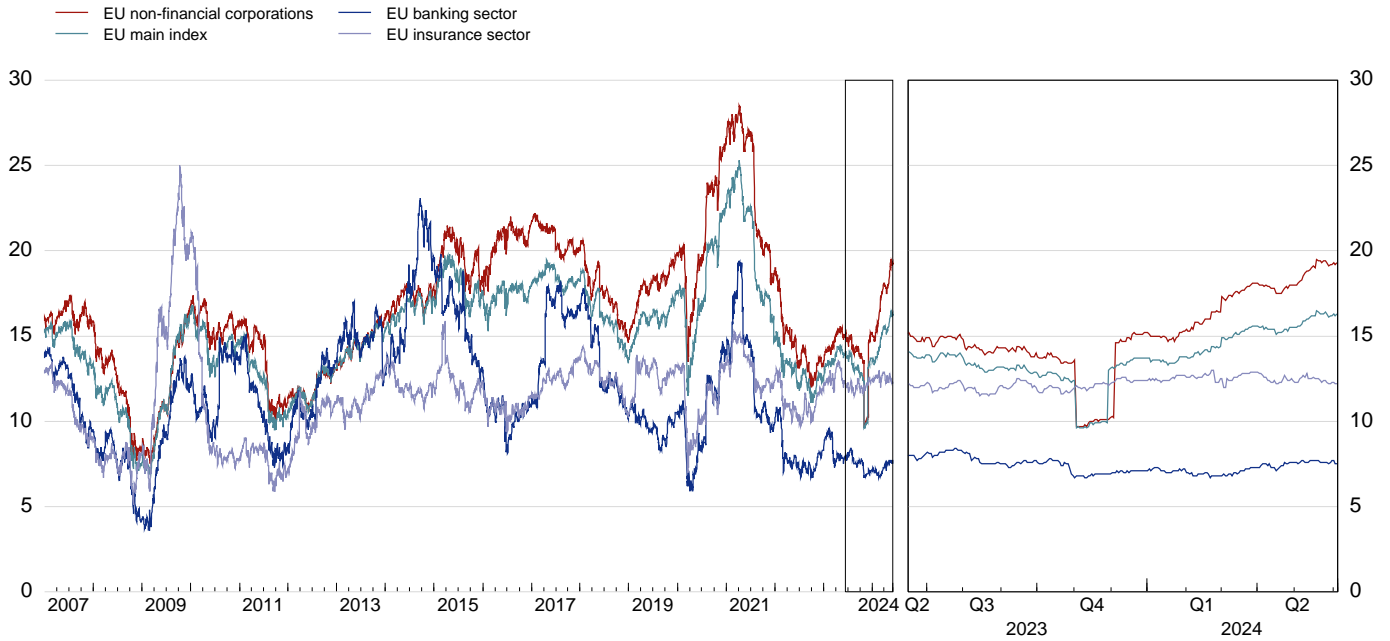
Source: Bloomberg Finance L.P.

Notes: Volatility is implied by at-the-money options observed in the market. The implied volatility is based on EURO STOXX 50 Volatility Index (VSTOXX) traded on Eurex. It measures implied volatility on options across all maturities. The blank spots in the plot of the index come from a lack of data series during public holidays when the financial markets are closed.

5. Market risk

5.2 Price/earnings ratio of equity indices

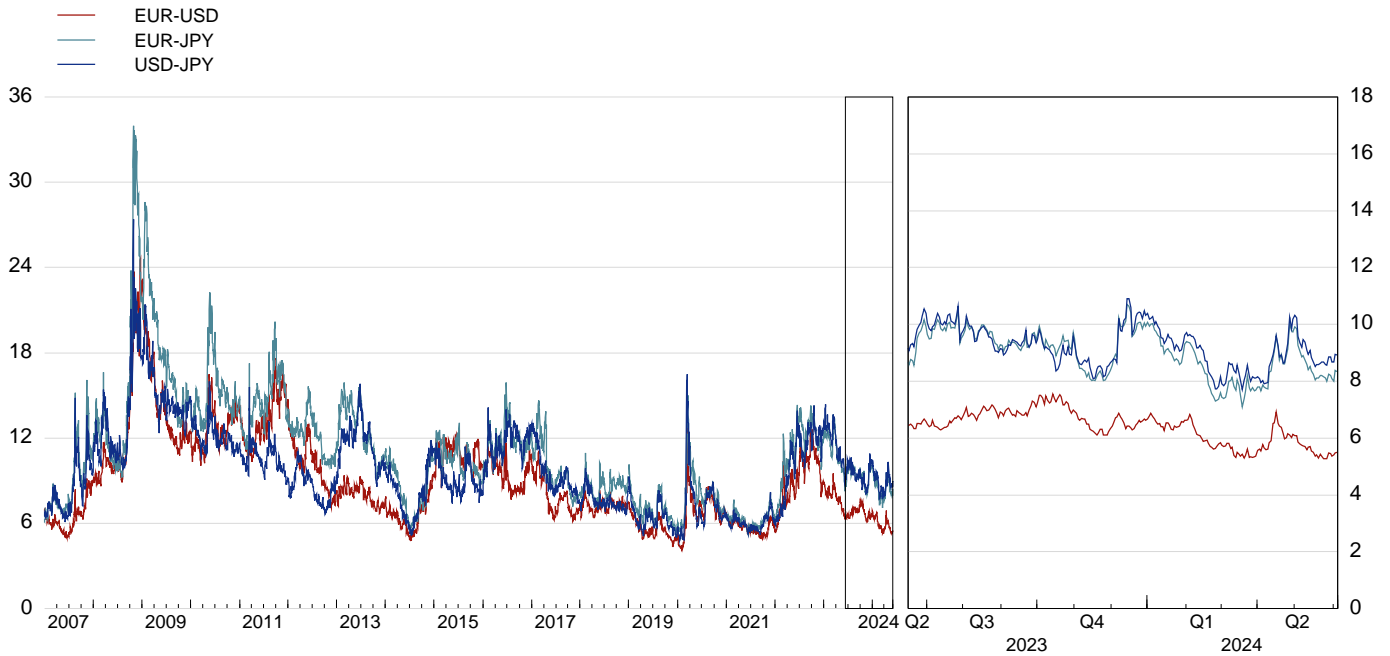
(EU; last observation: 5 Jun. 2024)



Source: LSEG.

5.3 Exchange rate volatility

(Last observation: 5 Jun. 2024)



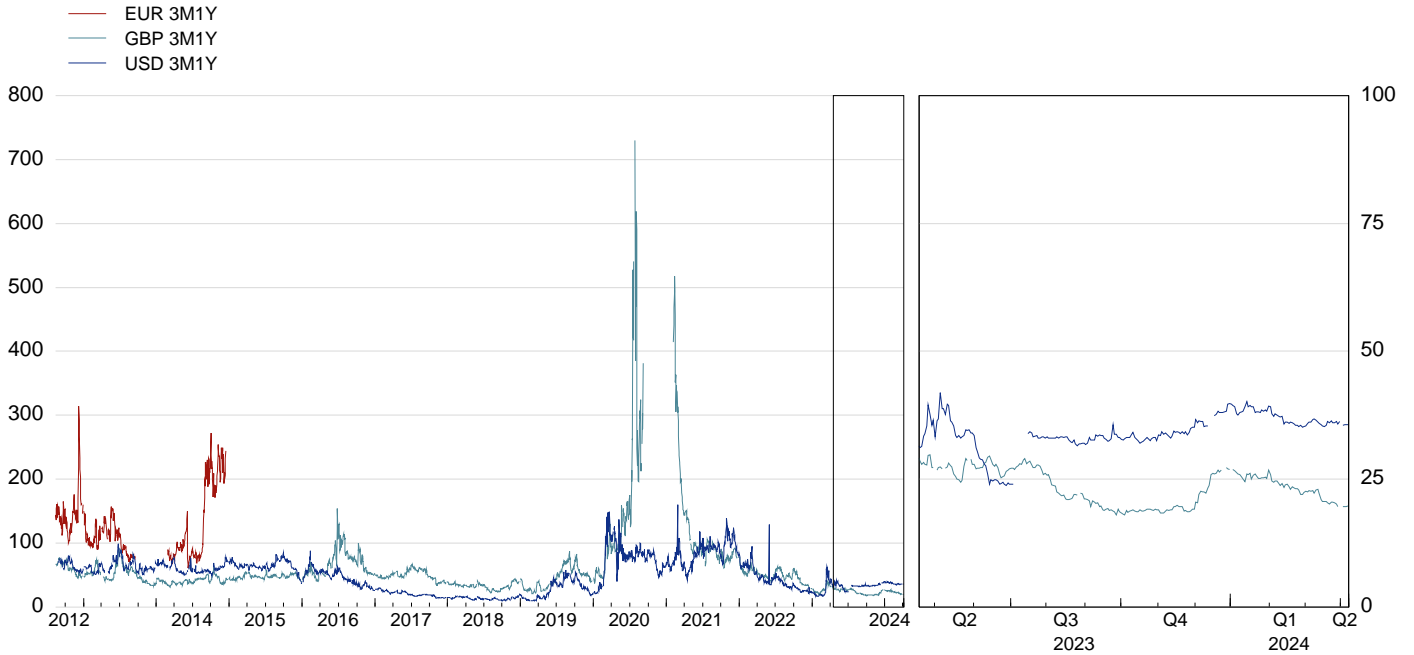
Source: Bloomberg Finance L.P.

Note: Volatility is implied by at-the-money option prices observed in the market for major currencies, based on three-month maturity.

5. Market risk

5.4 Short-term interest rates - implied volatility

(three months - one year; last observation: 5 Apr. 2024)

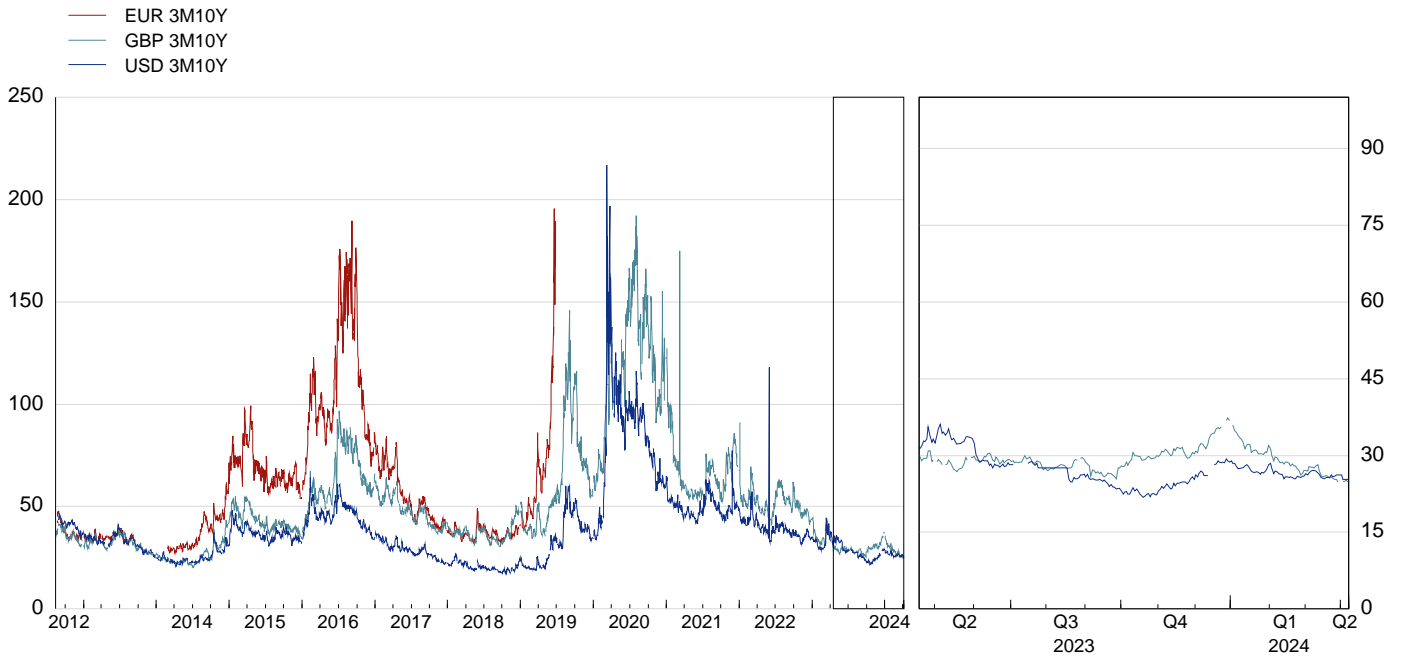


Source: LSEG.

- 1) Volatility is implied by at-the-money swaption prices observed in the market.
- 2) For technical reasons related to negative interest rates EUR 3M1Y rate is not available after 15 December 2014.
- 3) GBP 3M1Y rate is not available after 7 September 2020 due to issues with data supplier. Data become available as of 5 February 2021.

5.5 Long-term interest rates - implied volatility

(three months - ten years; last observation: 5 Apr. 2024)



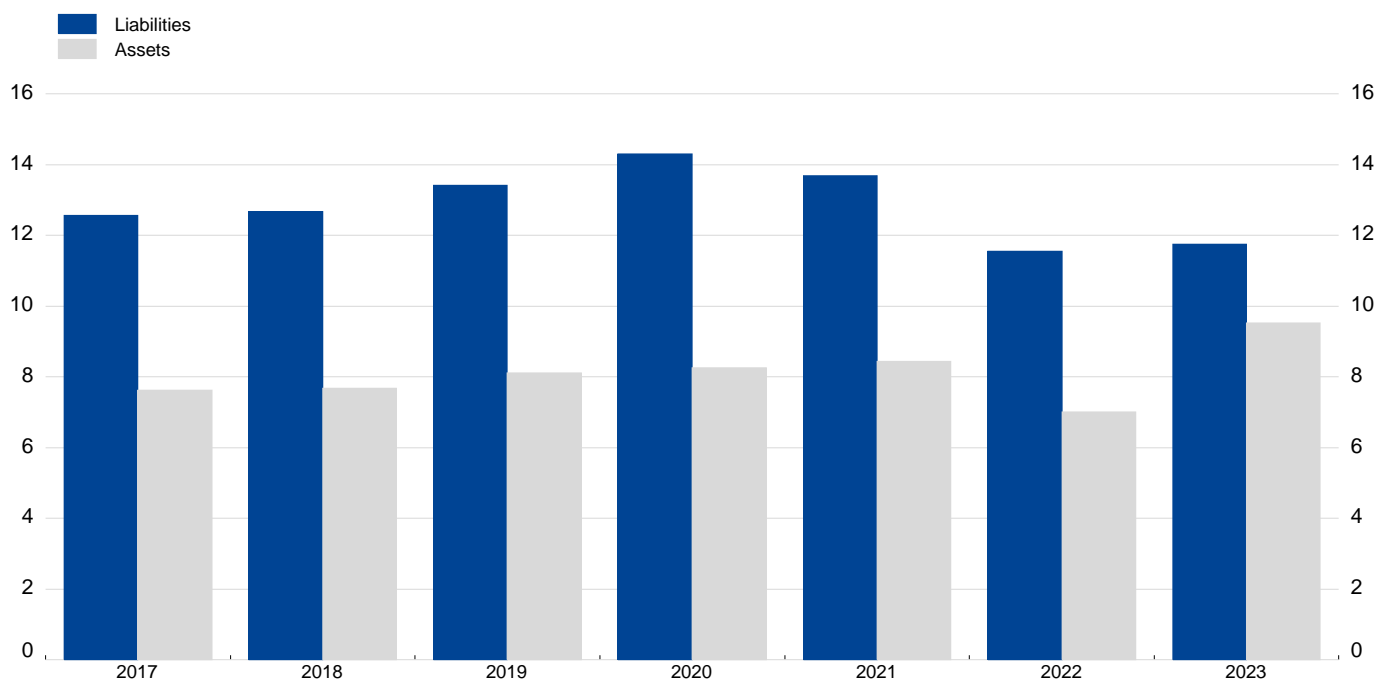
Source: LSEG.

- 1) Volatility is implied by at-the-money swaption prices observed in the market.
- 2) For technical reasons related to negative interest rates the EUR 3M10Y rate is not available after 26 June 2019.

5. Market risk

5.6 Insurance groups' assets and liabilities duration

(EU; years; last observation: 2023)



Source: EIOPA, based on Solvency II Reporting.

Notes: Asset duration is calculated as Weighted Average Modified Duration.

Liability duration is calculated as Weighted Average Modified Duration from 2023, while Weighted Average Macalauy Duration was applied to previous years

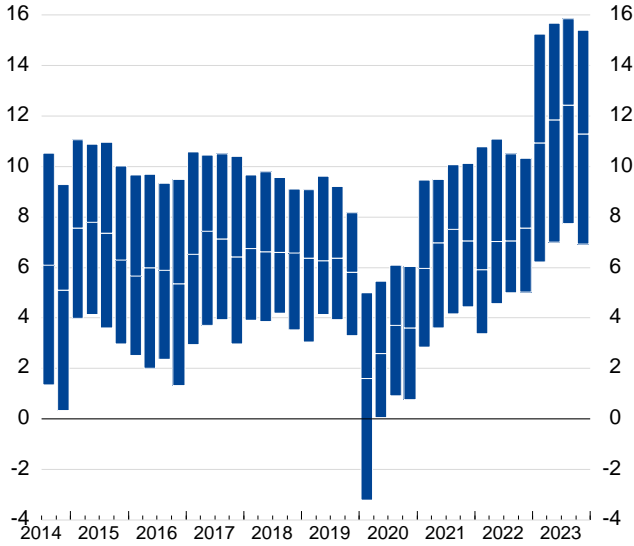
For more details on the Solvency II reporting please see Annex I to the risk dashboard.

6. Profitability and solvency

6.1 Banking groups' profitability indicators*

a. Return on equity

(EU; percentages; interquartile range and median; last observation: Q4 2023)

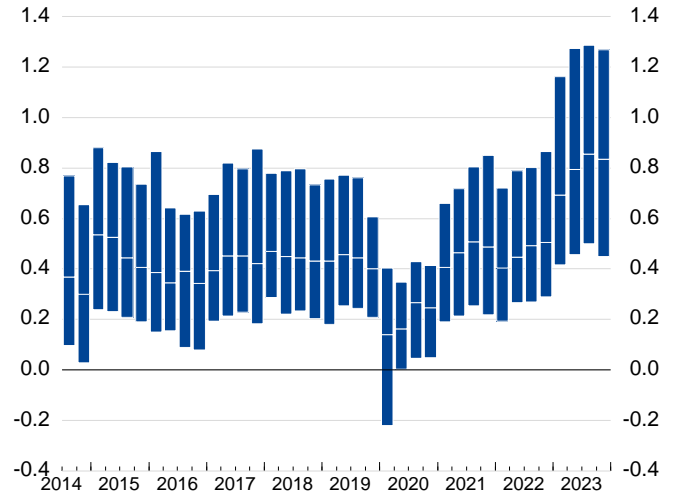


Source: EBA.

Note: Quarterly flows are annualised.

b. Return on assets

(EU; percentages; interquartile range and median; last observation: Q4 2023)

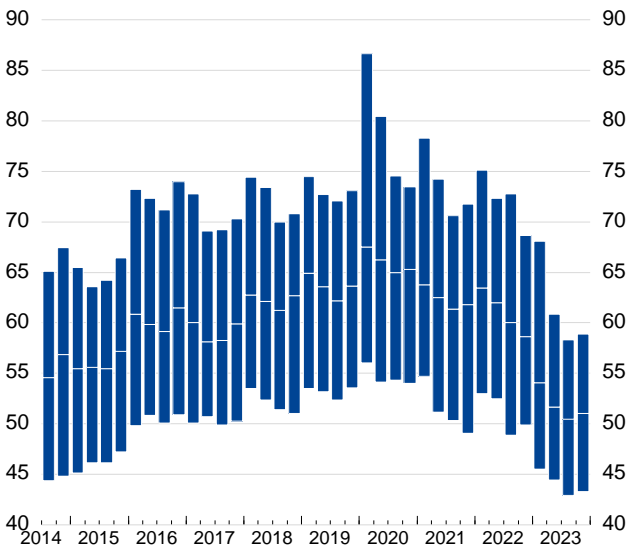


Source: EBA.

Note: Quarterly flows are annualised.

c. Cost-to-income ratio

(EU; percentages; interquartile range and median; last observation: Q4 2023)

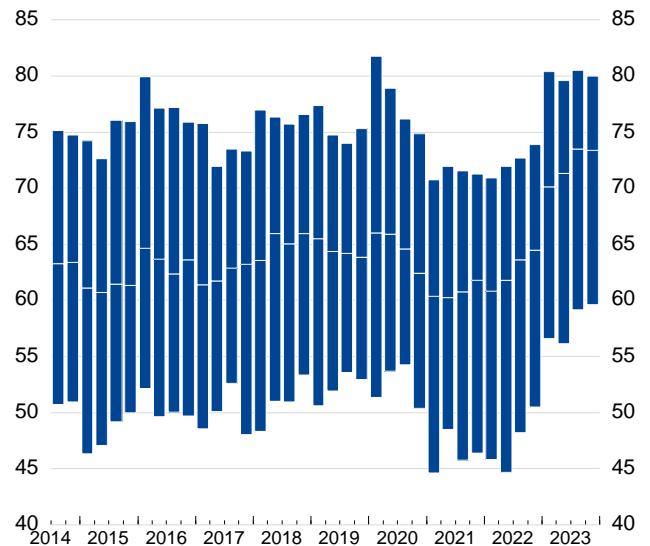


Source: EBA.

Quarterly data refer to cumulative flows over the corresponding year.

d. Net interest income to total operating income

(EU; percentages; interquartile range and median; last observation: Q4 2023)



Source: EBA.

Quarterly data refer to cumulative flows over the corresponding year.

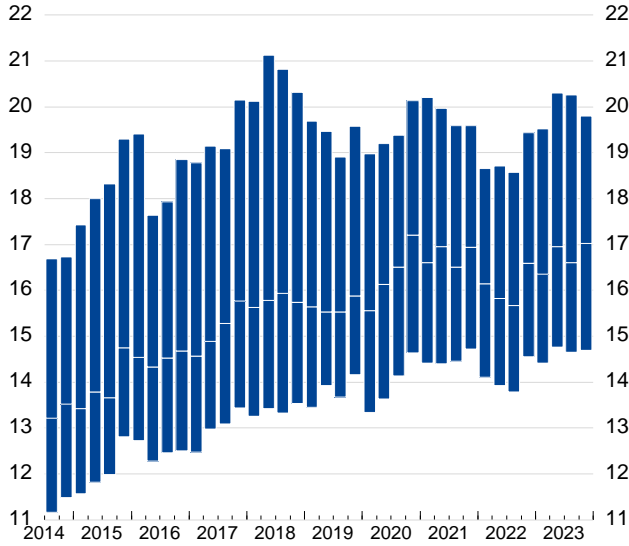
* The EBA data presented are subject to changes in the composition of the sample over time. The figures are subject to revision. Data are fully based on the EBA's ITS on supervisory reporting. Further details on the main methodological aspects of the EBA's ITS are available on EBA's website: www.eba.europa.eu.

6. Profitability and solvency

6.2 Banking groups' solvency, liquidity and balance sheet structure indicators*

a. CET1 to risk weighted assets ratio

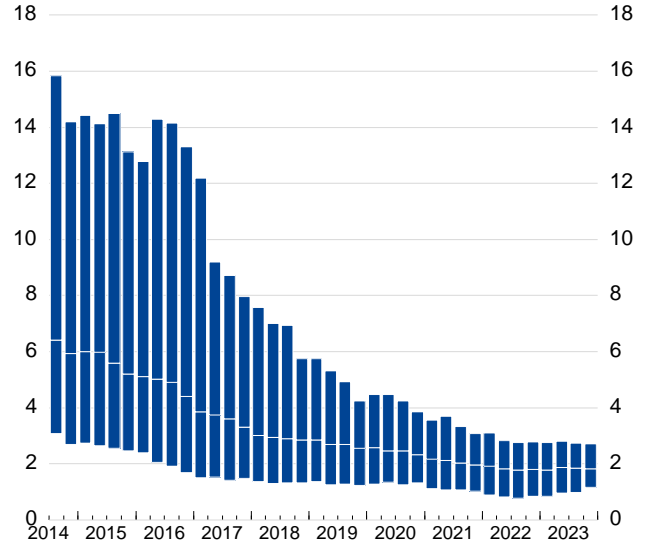
(EU; percentages; interquartile range and median; last observation: Q4 2023)



Source: EBA.

b. Non-performing loans to total gross loans and advances

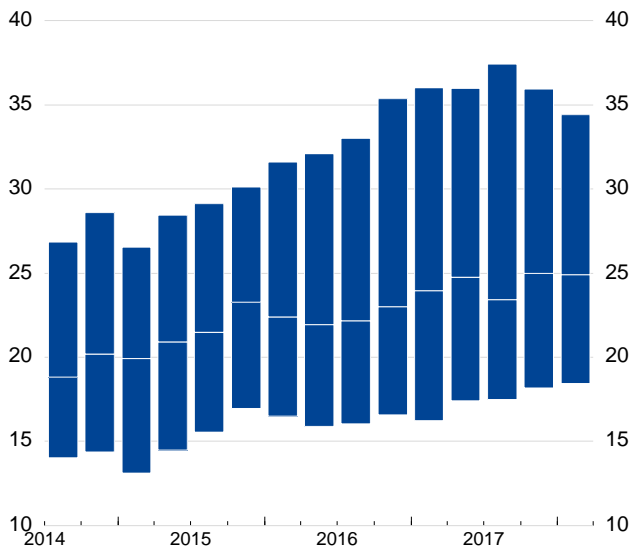
(EU; percentages; interquartile range and median; last observation: Q4 2023)



Source: EBA.

c. Ratio of liquid assets to short term liabilities

(EU; percentages; interquartile range and median; last observation: Q1 2018)*

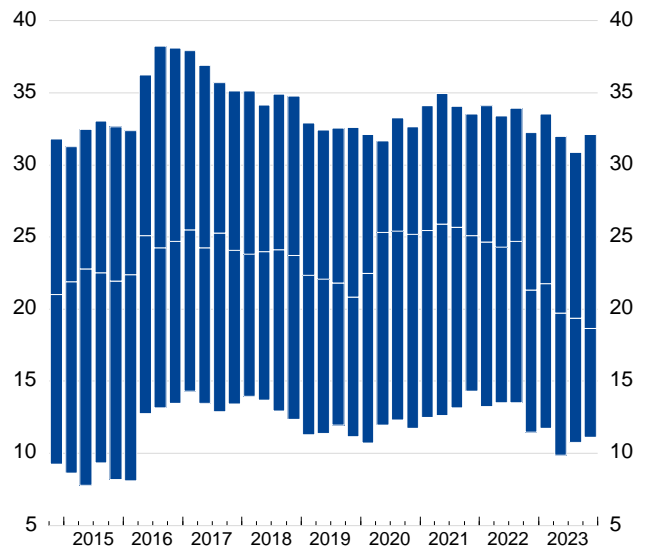


Source: EBA.

*Indicator discontinued in Q1 2018

d. Asset encumbrance ratio

(EU; percentages; interquartile range and median; last observation: Q4 2023)



Source: EBA.

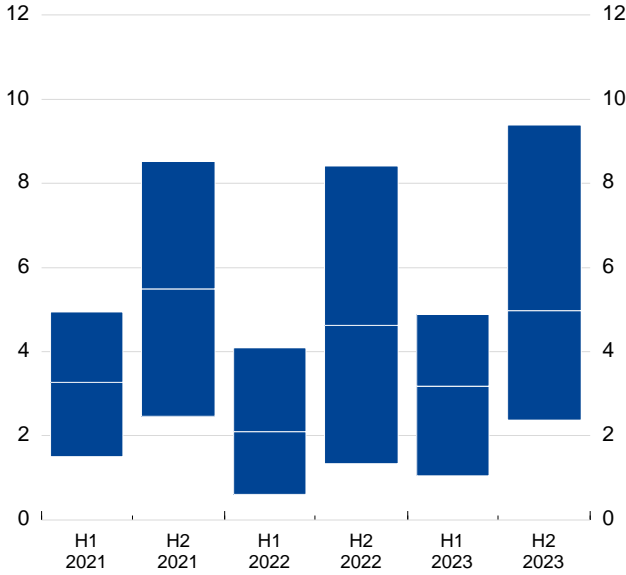
* The EBA data presented are subject to changes in the composition of the sample over time. The figures are subject to revision. Data are fully based on the EBA's ITS on supervisory reporting. Further details on the main methodological aspects of the EBA's ITS are available on EBA's website: www.eba.europa.eu.

6. Profitability and solvency

6.3 Insurance groups' profitability indicators

a. Return on equity

(EU; percentages; interquartile range and median; last observation: H2 2023)



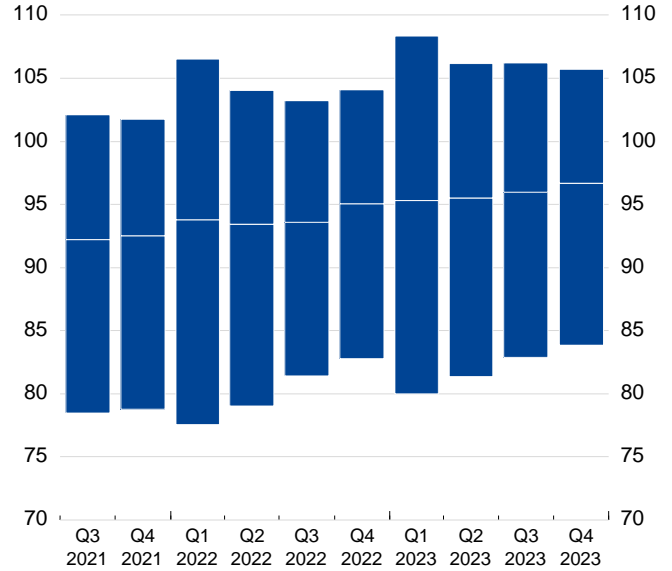
Source: EIOPA, based on Solvency II Reporting.

Notes: The return on equity is defined as the cumulated profit (loss) after tax and before dividends, divided by the excess of assets over the liabilities for the current quarter. Data not annualised.

For more details on the Solvency II reporting please see Annex I to the risk dashboard.

b. Combined ratio - non-life insurance

(EU; percentages; interquartile range and median; last observation: Q4 2023)

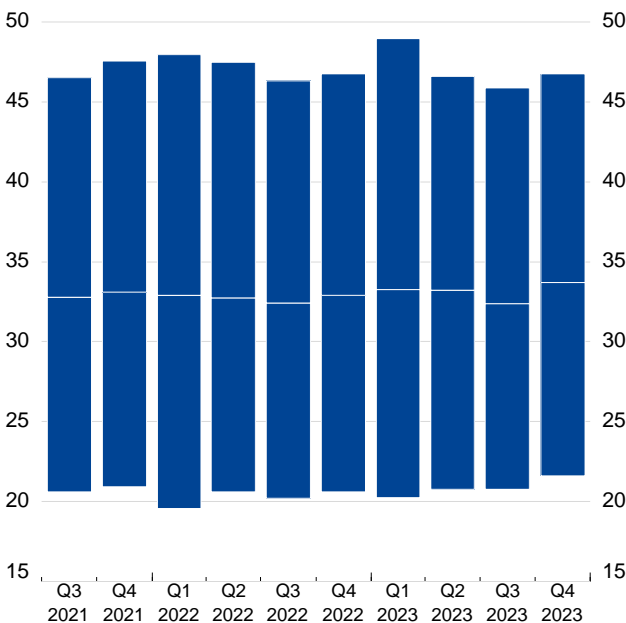


Source: EIOPA, based on Solvency II Reporting.

Notes: The combined ratio is defined as net claims incurred and expenses incurred divided by net written premiums. For more details on the Solvency II reporting please see Annex I to the risk dashboard.

c. Expense ratio - non-life insurance

(EU; percentages; interquartile range and median; last observation: Q4 2023)

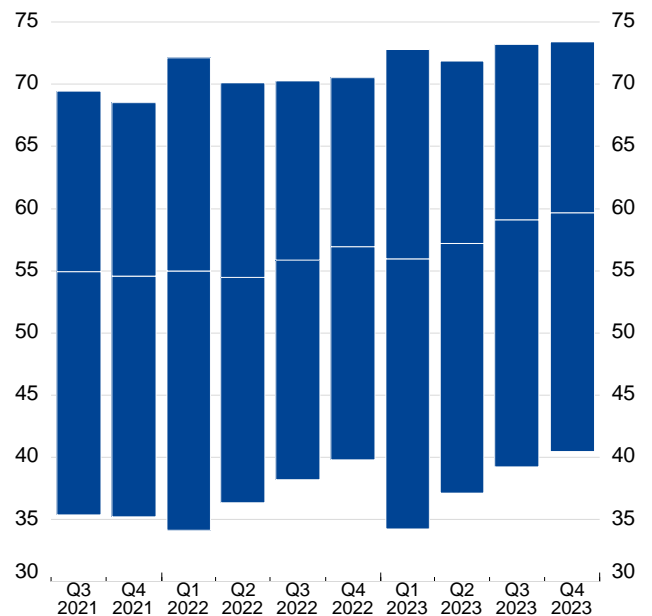


Source: EIOPA, based on Solvency II Reporting.

Notes: Expense ratio is defined as expenses incurred divided by net written premiums. For more details on the Solvency II reporting please see Annex I to the risk dashboard.

d. Loss ratio - non-life insurance

(EU; percentages; interquartile range and median; last observation: Q4 2023)



Source: EIOPA, based on Solvency II Reporting.

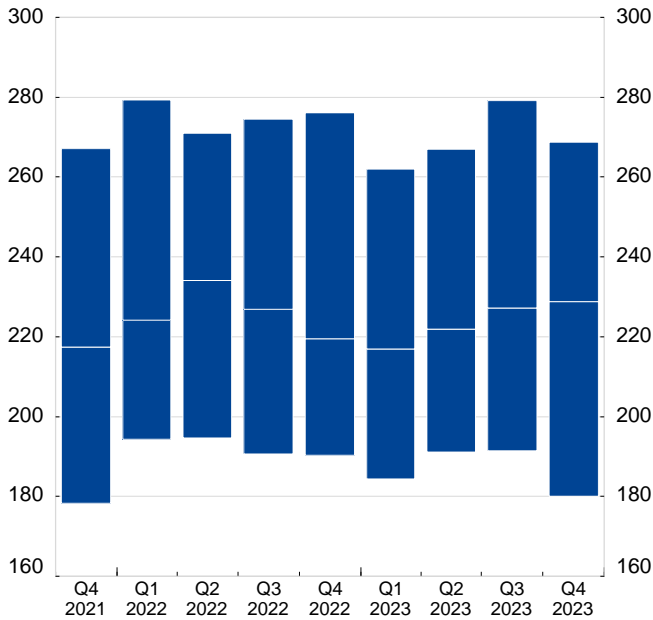
Notes: Loss ratio is defined as net claims incurred divided by net written premiums. For more details on the Solvency II reporting please see Annex I to the risk dashboard.

6. Profitability and solvency

6.4 Insurance groups' solvency indicators

a. Insurance groups' solvency ratio

(EU; percentages; interquartile range and median; last observation: Q4 2023)

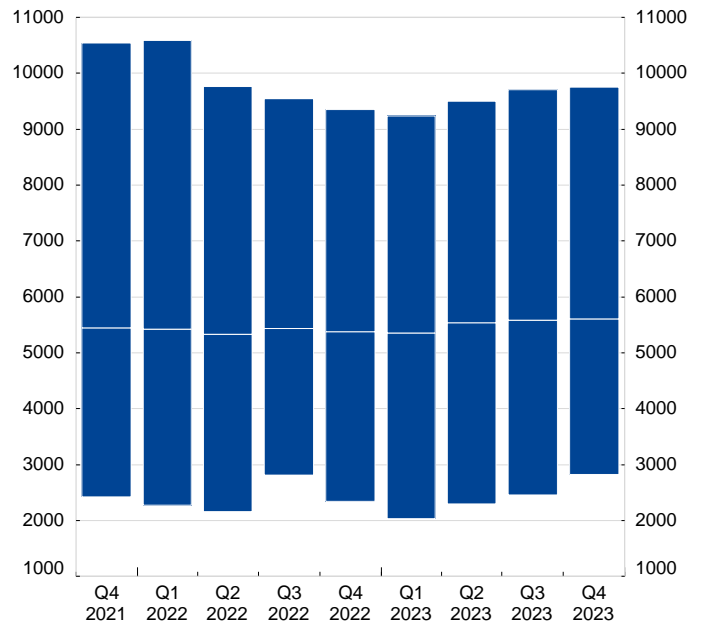


Source: EIOPA, based on Solvency II Reporting.

Note: For more details on the Solvency II reporting please see Annex I to the risk dashboard.

b. Insurance groups' excess of assets over liabilities

(EU; EUR billions; interquartile range and median; last observation: Q4 2023)

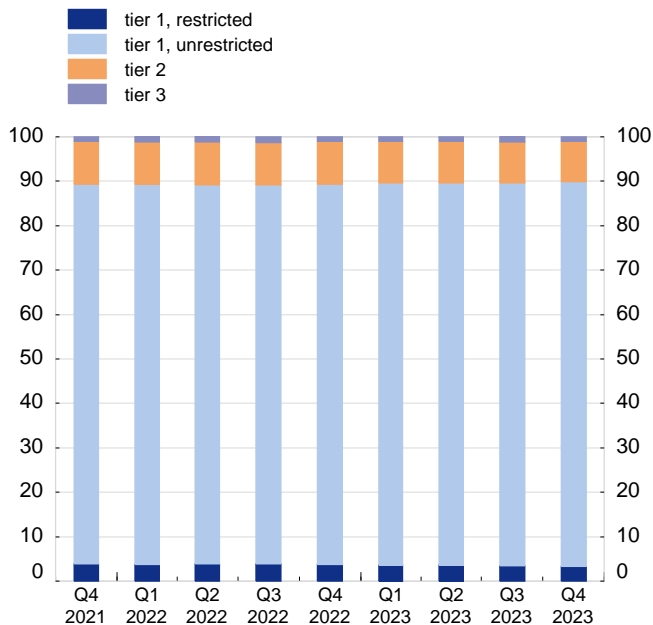


Source: EIOPA, based on Solvency II Reporting.

Note: For more details on the Solvency II reporting please see Annex I to the risk dashboard.

6.5 Insurance groups' quality of own funds

(EU; percentages; share of total eligible own funds; last observation: Q4 2023)



Source: EIOPA, based on Solvency II Reporting.

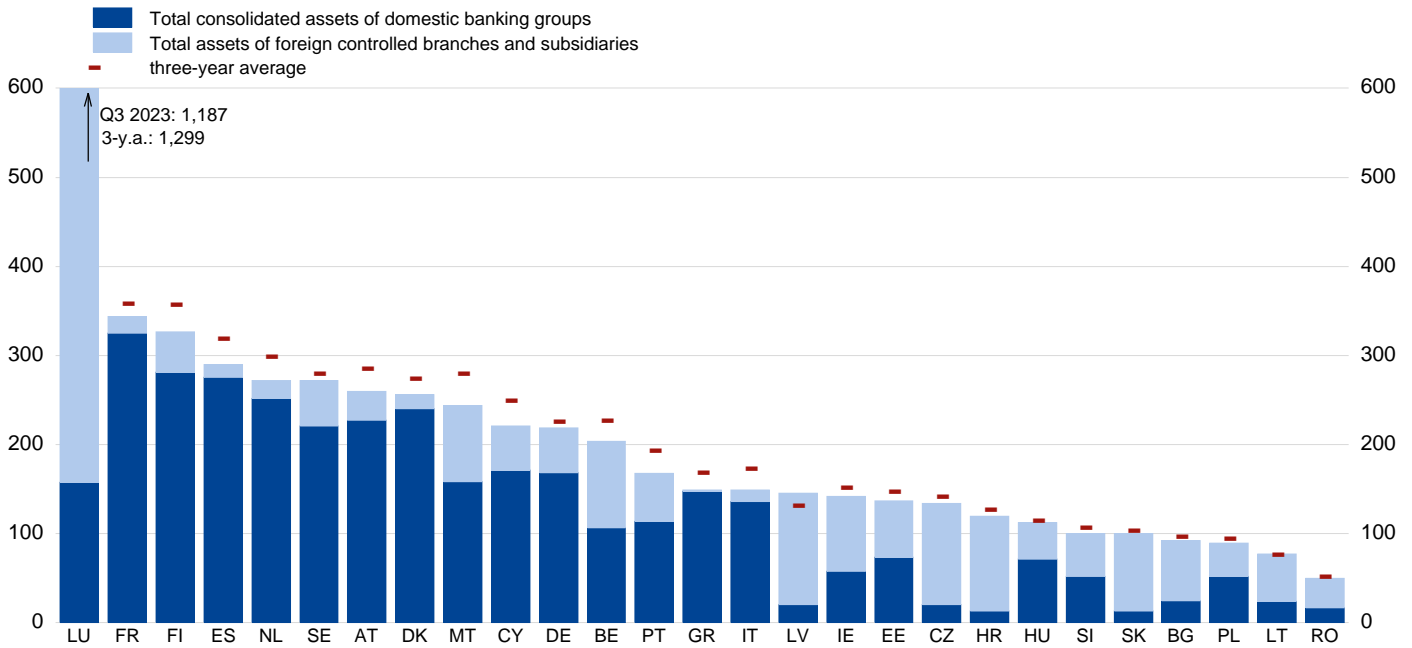
Note: Indicator presents breakdown of the quality of the Solvency II own funds according to the different tiers.

For more details on the Solvency II reporting please see Annex I to the risk dashboard.

7. Structural risk

7.1 Banking sector size

(EU; share of nominal GDP; percentages; last observation: Q3 2023)

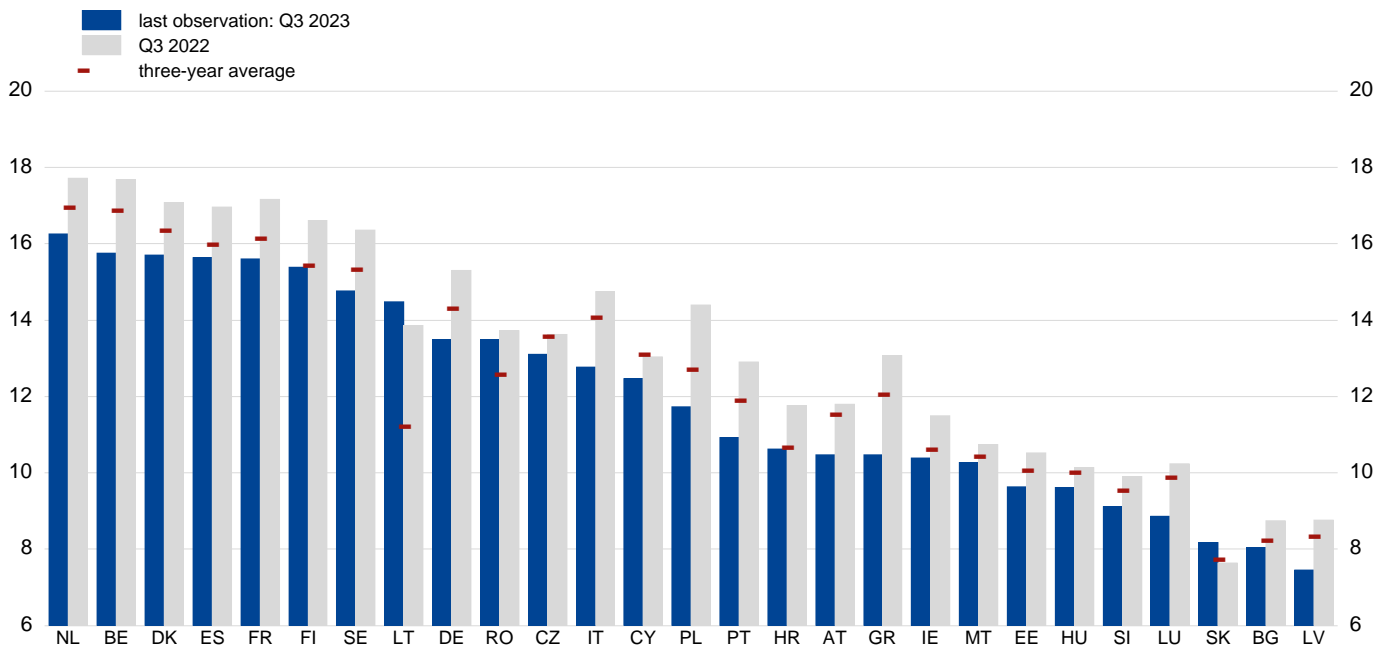


Sources: ECB and Eurostat.

Notes: Based on Consolidated Banking Data. The three-year average is based on quarterly data.

7.2 Banking sector leverage

(EU; share of total assets in capital)



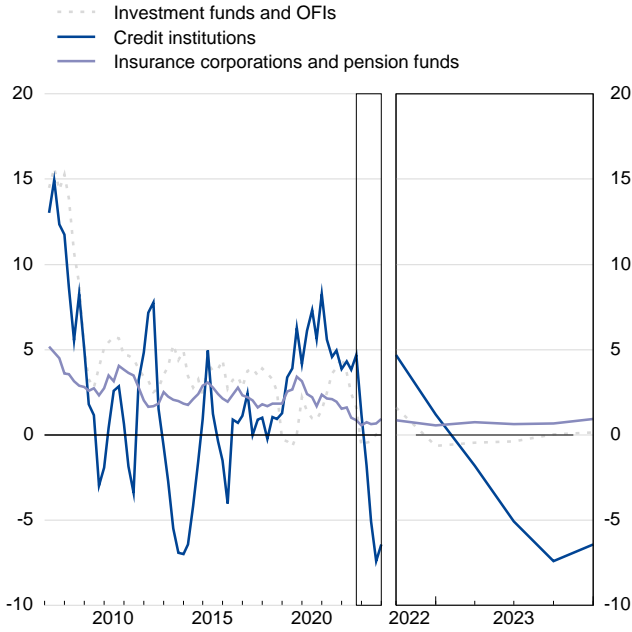
Sources: ECB.

Notes: Share of total assets in capital for domestic banking groups and stand-alone credit institutions. Consolidated data. The three-year average is based on quarterly data.

7. Structural risk

7.3 Growth of components of the EU financial sector

(EU; percentages; total assets annualised growth rates; last observation: Q4 2023)

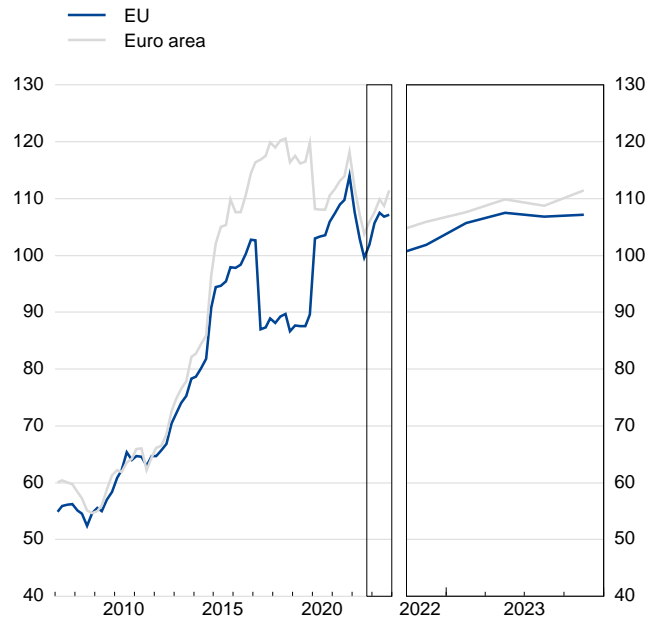


Source: ECB.

Notes: Data based on financial accounts and monetary statistics. Data refer to the non-consolidated balance sheets of the respective entities.

7.4 Total assets of investment funds and OFIs

(as per cent of credit institutions' total assets; last observation: Q4 2023)

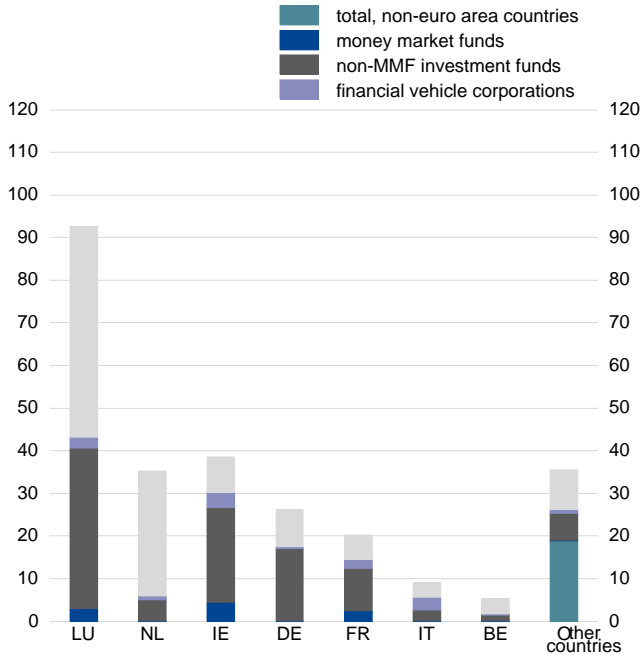


Source: ECB.

7.5 Total assets of investment funds and OFIs in the EU

a. Outstanding amounts

(EU; percentages of EU GDP; last observation: Q4 2023)

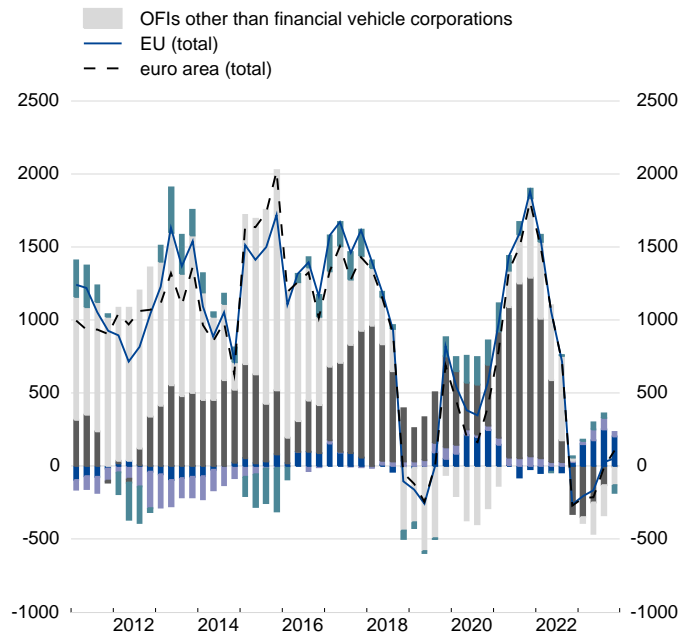


Sources: ECB and European Commission.

Note: The full set of breakdowns is only available for euro area Member States.

b. Cumulated flows

(EU; EUR billions; four-quarter cumulated flows; last observation: Q4 2023)

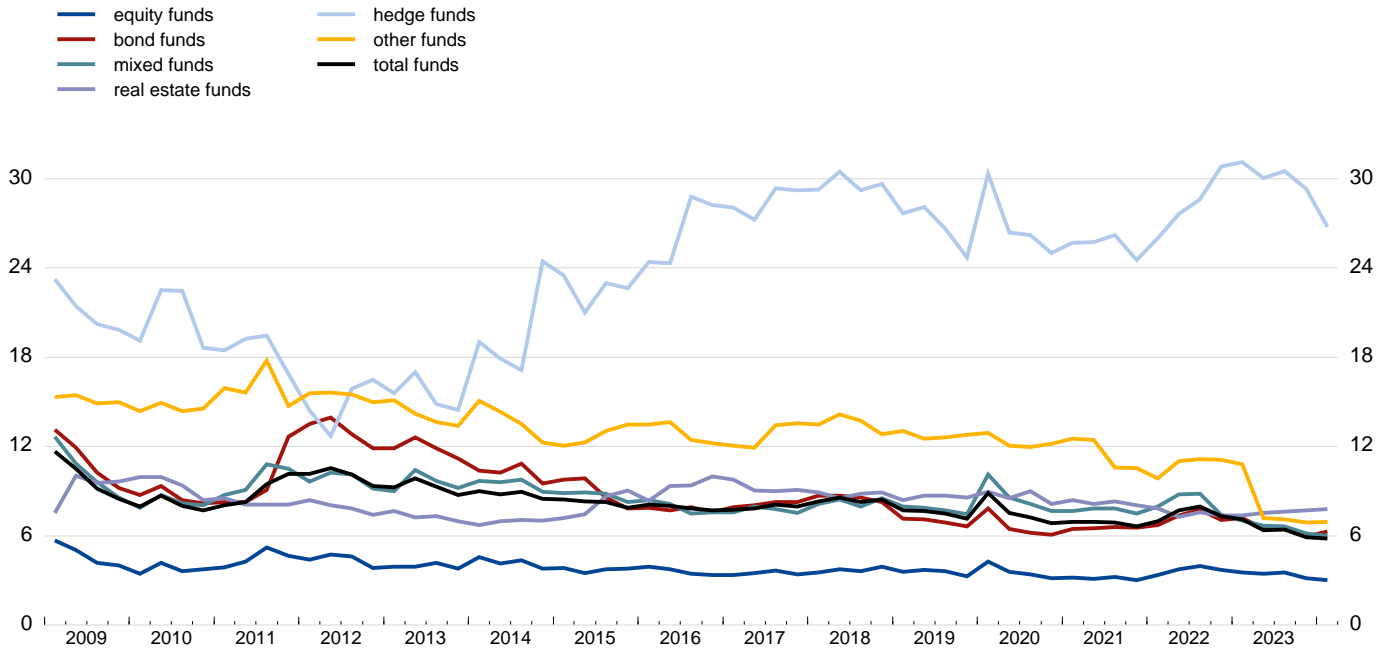


Source: ECB.

7. Structural risk

7.6 Non-MMF investment funds ratio of short term assets to short term liabilities

(euro area; percentages; last observation: Mar. 2024)



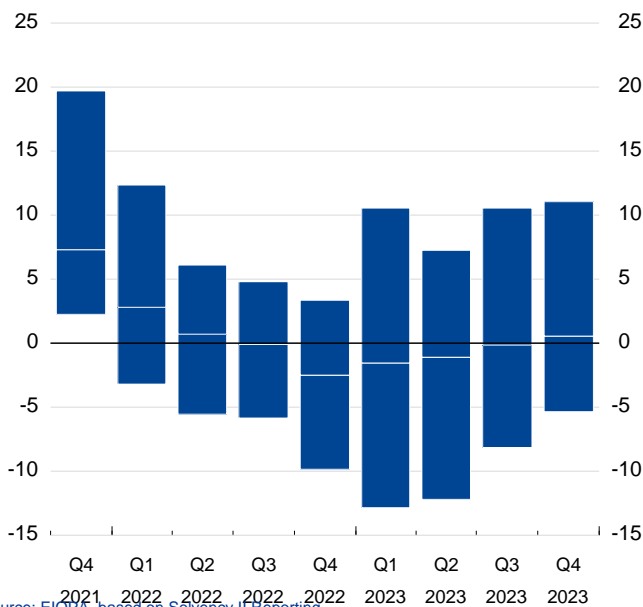
Source: ECB.

Notes: Short-term assets include non-MMF investment funds' holdings of debt securities and loans and deposits with original maturity up to one year; short-term liabilities include open-ended fund units issued and loans received with original maturity up to one year. Maturity breakdowns for loans and deposits are available from 2014 Q4 and are estimated for prior periods based on the maturity breakdowns in 2015 for these instruments (for respective counterparty sectors).

7.7 Insurance groups' profitability indicators

a. Gross premiums written - life insurance

(EU; annual growth rates; interquartile range and median; last observation: Q4 2023)

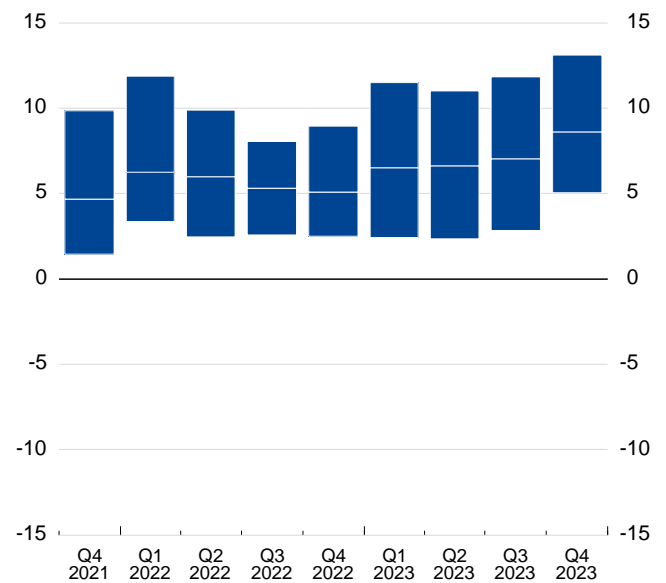


Source: EIOPA, based on Solvency II Reporting.

Notes: For more details on the Solvency II reporting please see Annex I to the risk dashboard

b. Gross premiums written - non-life insurance

(EU; annual growth rates; interquartile range and median; last observation: Q4 2023)



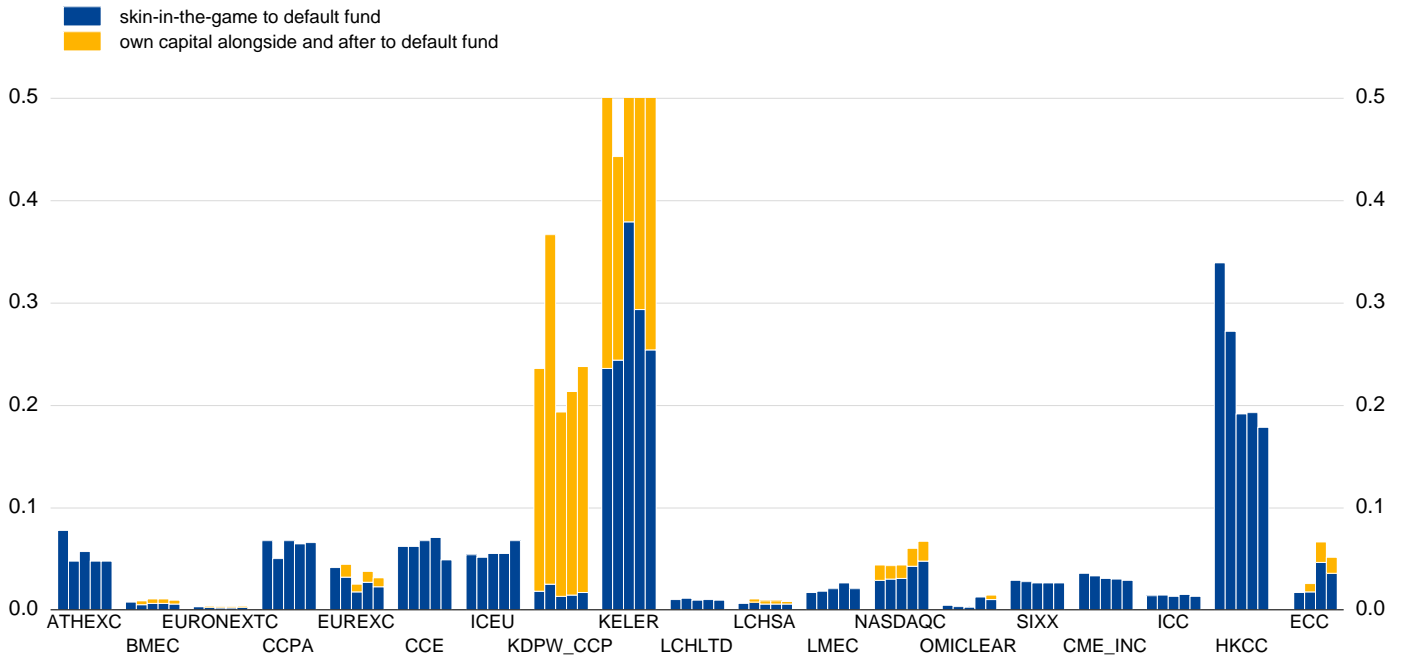
Source: EIOPA, based on Solvency II Reporting.

Notes: For more details on the Solvency II reporting please see Annex I to the risk dashboard

8. Risk related to central counterparties

8.1 Prefunded default resources

Ratio of own capital to default funds (ratio, quarter-end, last observation: Q4 2023)

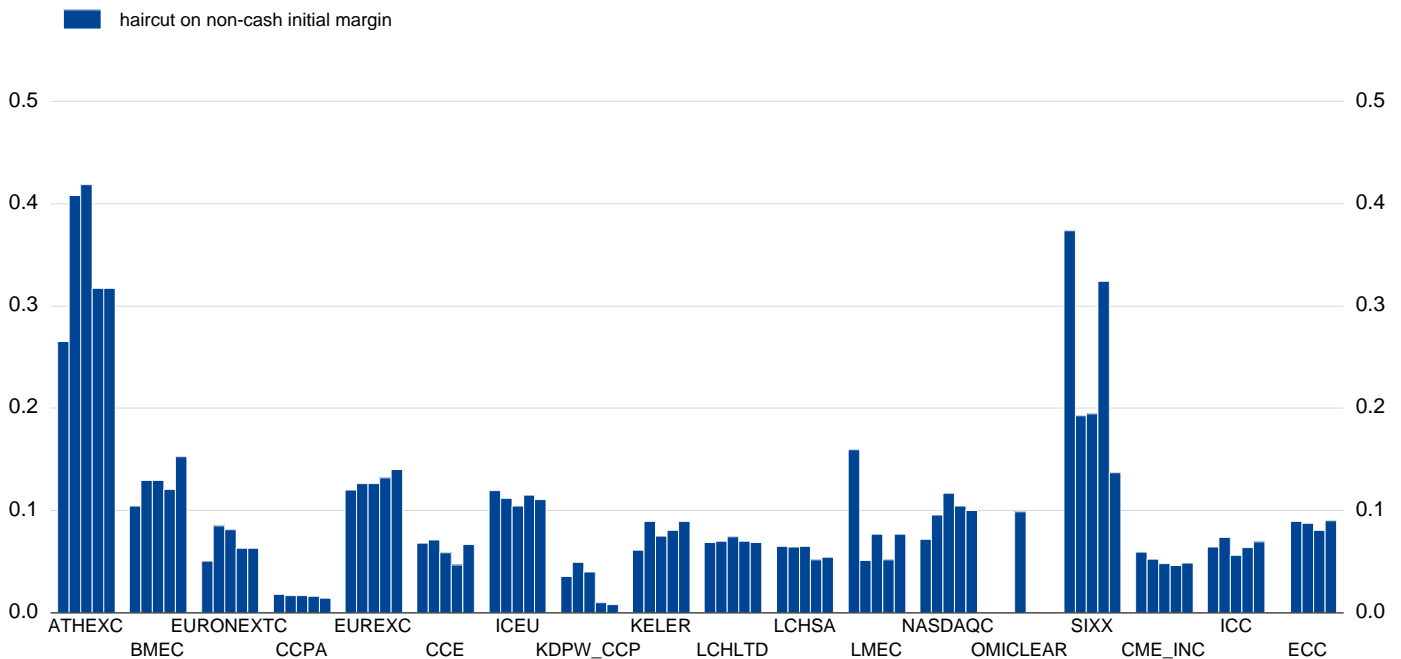


Source: CPMI-IOSCO quantitative public disclosure data & ESRB Secretariat calculations.

Note: Mutualised default funds are only used to absorb losses if the defaulting member's variation margin, initial margin, and CCP's skin-in-the-game, respectively, are insufficient. Initial margin is the first line of defence against loss mutualisation and calculated in relation to the risk brought by clearing members. The primary purpose of skin-in-the-game is to ensure CCPs' incentives are aligned with those of their clearing members. It is calculated in relation to a capital requirement. The chart shows a ratio of own capital (with graphical distinction of its subparts) to the default fund contributions provided by the clearing members. Information provided for segregated clearing services have been aggregated into a single structure. Each bar represents a quarter. This chart does not include the updated indicators for ATHEXClear.

8.2 Haircut and margining policies

Haircut on non-cash initial margin (in fractions, quarter-end, last observation: Q4 2023)



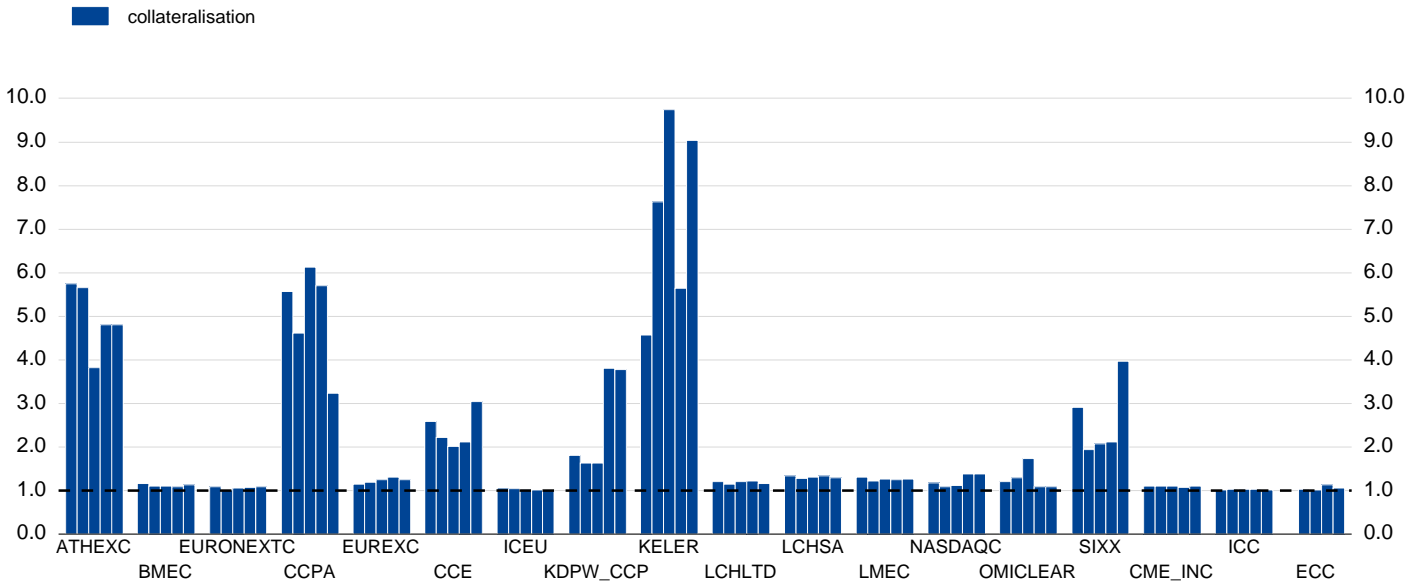
Source: CPMI-IOSCO quantitative public disclosure data & ESRB Secretariat calculations.

Note: Margins and haircuts are essential parts of the CCP risk management frameworks. Initial margins are designed to protect a CCP against losses stemming from the default of a clearing member while haircuts aim to mitigate a fall in market value of collateral in case the collateral has to be sold. PQD 20.2.1 is added to PQD 6.2.15 for EuronextC as they do not include initial margin resulting from interoperability arrangements in PQD 6.2.15. OMIclear's values are currently under investigation. Each bar represents a quarter. This chart does not include the updated indicators for ATHEXClear.

8. Risk related to central counterparties

8.3 Collateral policies

Collateralisation (ratio, quarter-end, last observation: Q4 2023)

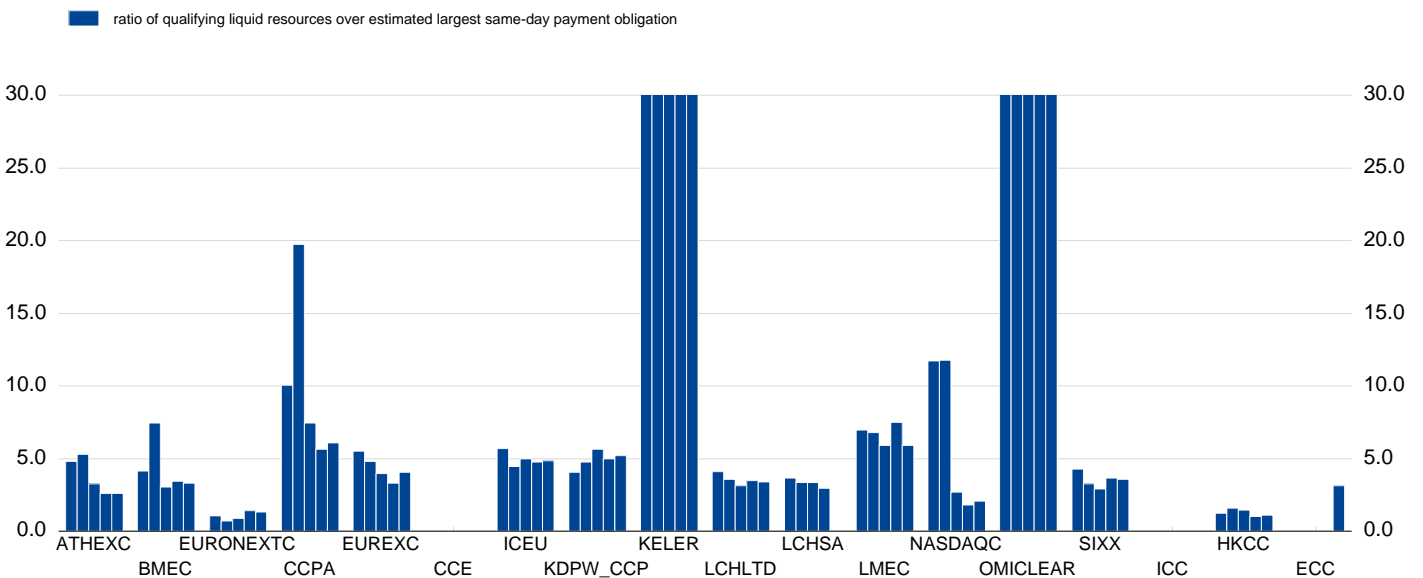


Source: CPMI-IOSCO quantitative public disclosure data & ESRB Secretariat calculations.

Note: A level above 1 indicates an overcollateralisation, while a level below 1 an undercollateralisation. Clearing members may voluntarily hold a buffer of excess collateral to reduce operational complexity. CPMI-IOSCO final guidance on CCP resilience recommends that CCPs do not rely on the additional collateral posted by their members over the margin required when assessing the adequacy of their financial resources. This is because the additional collateral might be withdrawn in a stressed period. PQD 20.2.1 is added to PQD 6.2.15 for EuronextC as they do not include initial margin resulting from interoperability arrangements in PQD 6.2.15. Information provided for segregated clearing services has been aggregated into a single structure. Each bar represents a quarter. Any collateral held above 1.0 reflects an amount of overcollateralisation and implies that more collateral is held at the CCP than required. This is good for financial stability reasons - more overcollateralisation means less need to call for additional collateral and thus less procyclicality - but can be very costly for the clearing member that deposited this additional collateral. This chart does not include the updated indicators for ATHEXClear.

8.4 Liquidity policies: qualifying liquid resources to the estimated largest same-day payment obligation

Ratio of qualifying liquid resources over estimated largest same-day payment obligation (ratio, in quarter, last observation: Q4 2023)



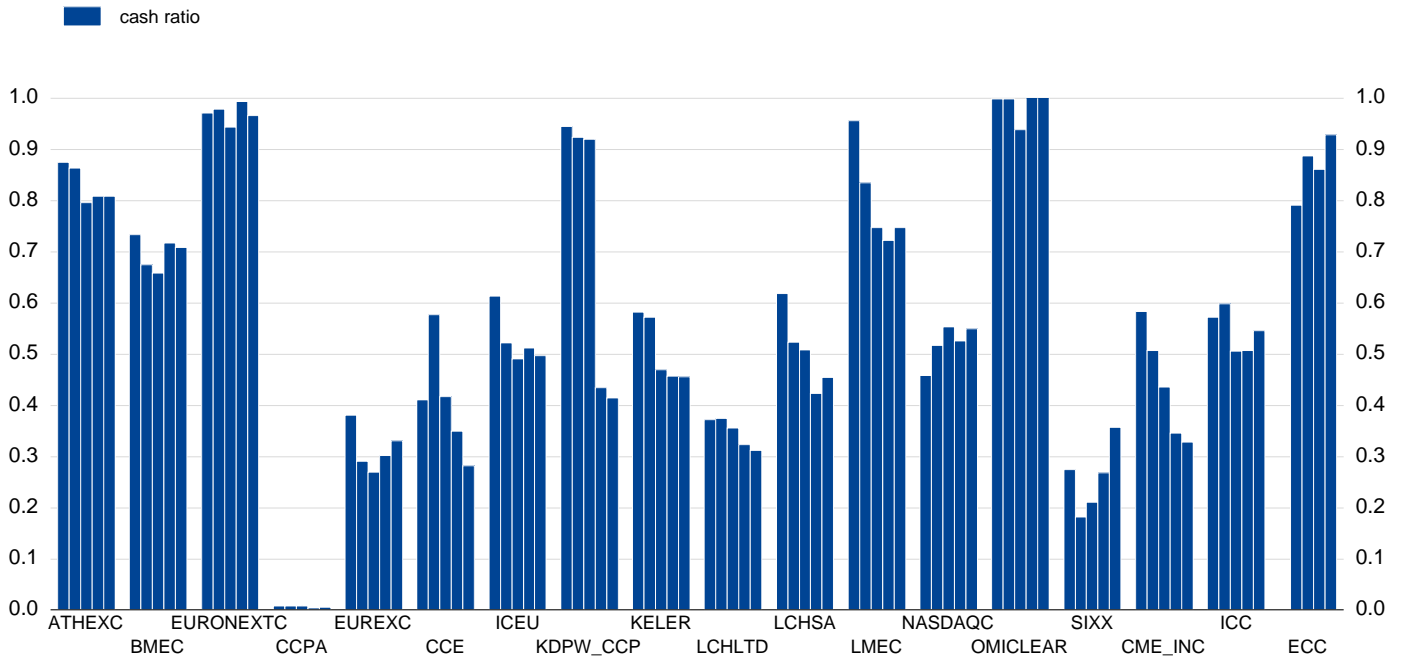
Source: CPMI-IOSCO quantitative public disclosure data & ESRB Secretariat calculations.

Note: EMIR requires CCPs to cover liquidity risk generated by the default of at least the two clearing members to which the CCP has the largest exposures. Each bar represents a quarter. Average values have been taken for PQD 7.1.2-7.1.9 in order to align stocks with flows. This chart does not include the updated indicators for ATHEXClear.

8. Risk related to central counterparties

8.5 Liquidity policies: cash ratio

Cash ratio (ratio, quarter-end, last observation: Q4 2023)



Source: CPMI-IOSCO quantitative public disclosure data & ESRB Secretariat calculations.

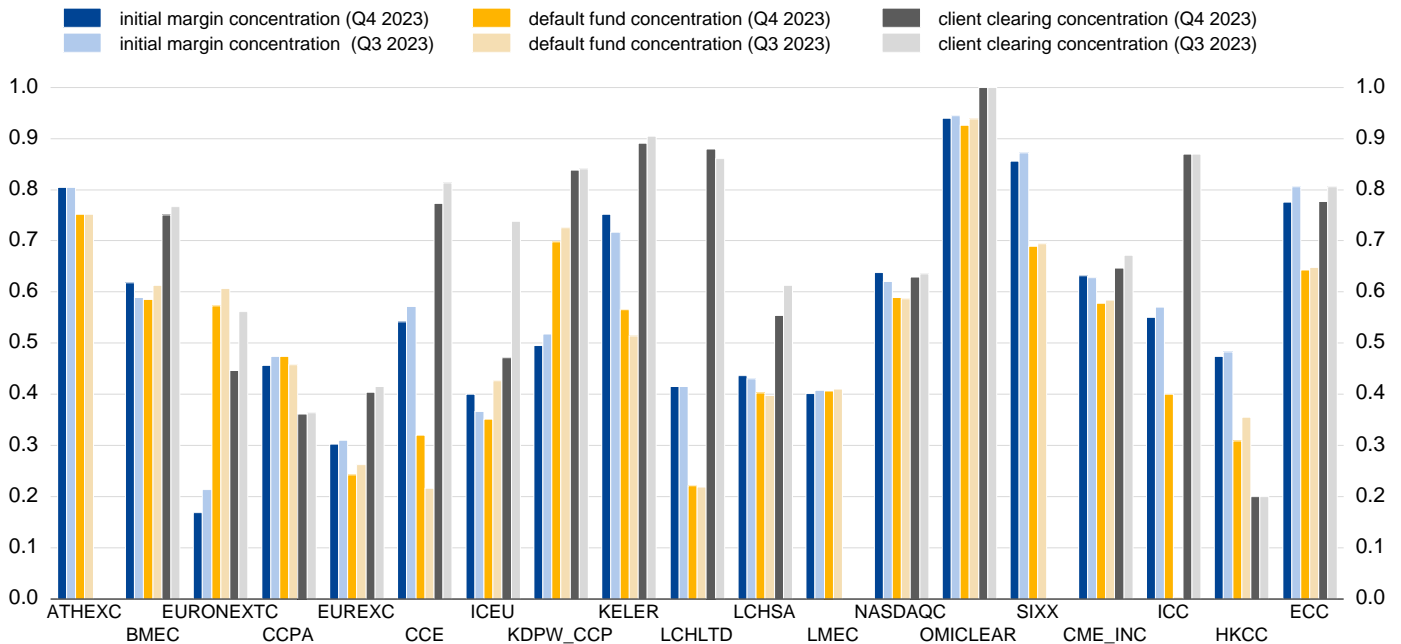
Note: EMIR requires that CCPs maintain sufficient liquid resources commensurate with their liquidity requirements. This indicator shows the share of initial margin provided and held in cash.

Each bar represents a quarter. PQD 20.2.1 is added to PQD 6.2.15 for EuronextC as they do not include initial margin resulting from interoperability arrangements in PQD 6.2.15.

This chart does not include the updated indicators for ATHEXClear.

8.6 Concentration at CCP level

Initial margin, default fund and client clearing concentration (ratio, average in quarter, last observation: Q4 2023)



Source: CPMI-IOSCO quantitative public disclosure data & ESRB Secretariat calculations.

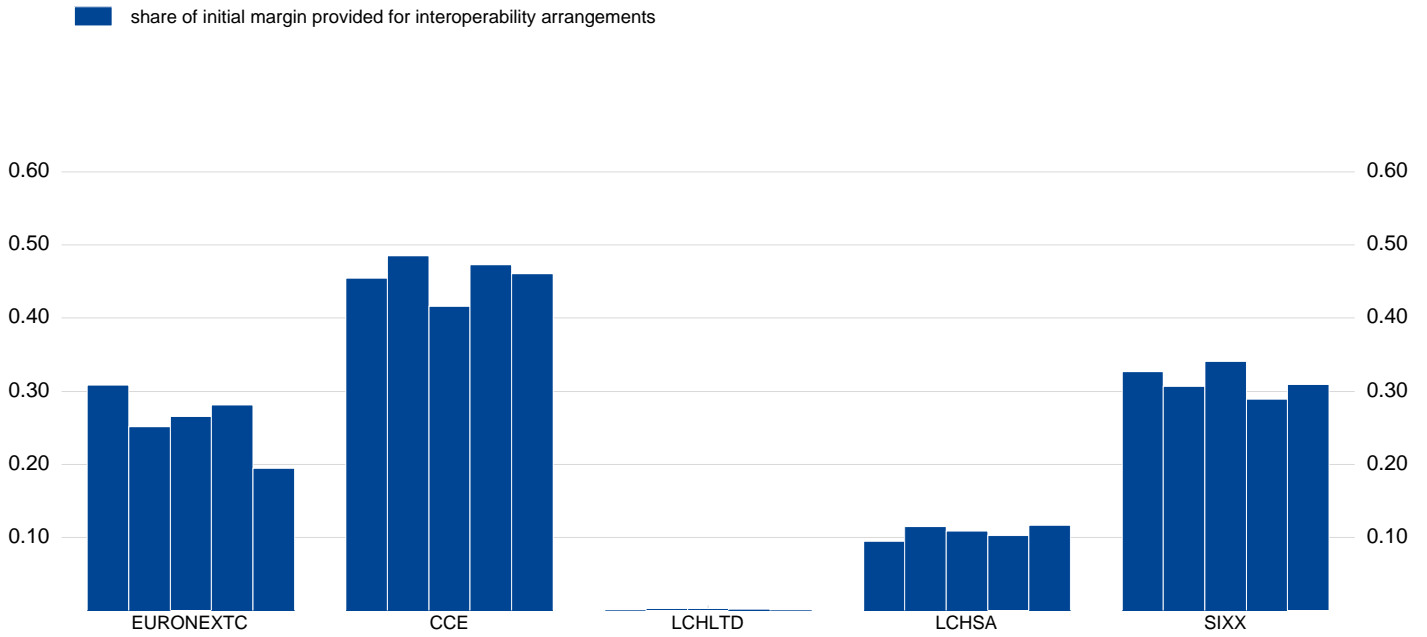
Note: This indicator shows an estimate of the five largest clearing members' average contributions to total initial margin, default fund contributions and client clearing at the clearing service level within a CCP. All bars refer to the two most recent quarters observed. PQD 18.3 and 18.4 show quarter averages and therefore averages are taken for PQD 6.2.15 and 4.1.5 to match stocks with flows.

This chart does not include the updated indicators for ATHEXClear.

8. Risk related to central counterparties

8.7 Interoperability arrangements

Share of initial margin provided for interoperability arrangements in total margin at clearing service level (ratio, quarter-end, last observation: Q4 2023)



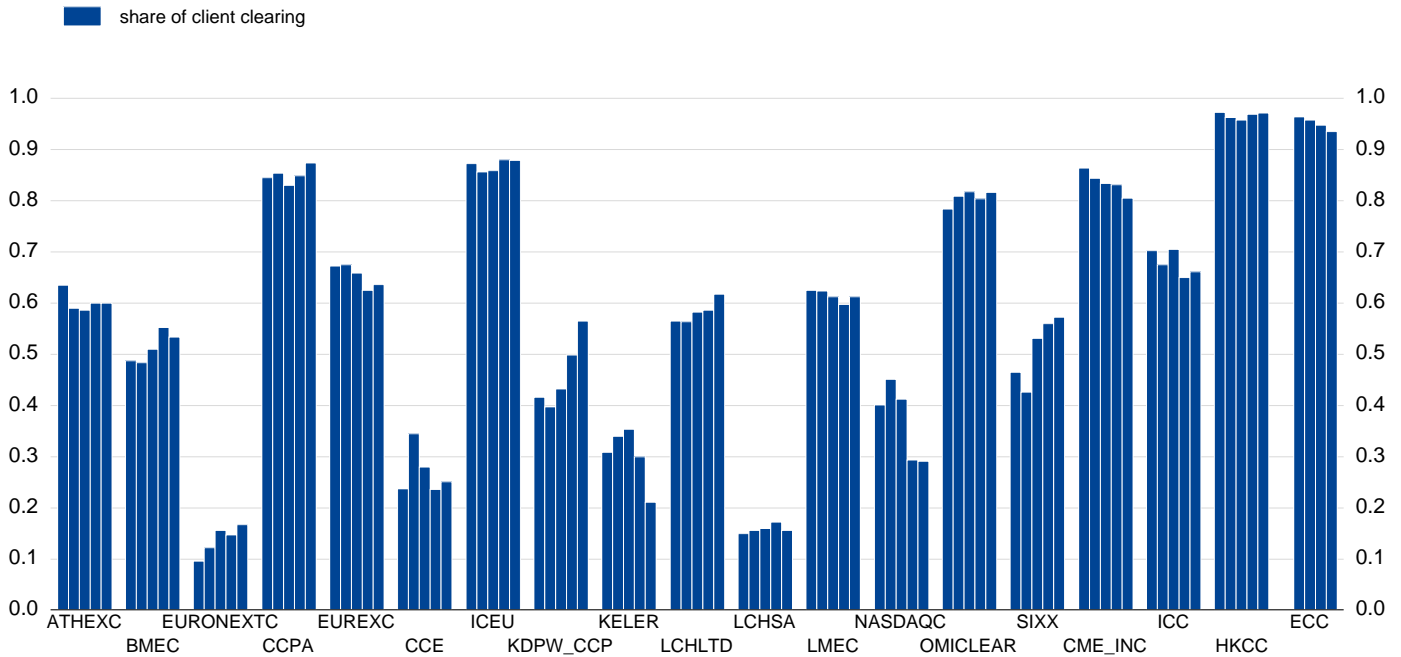
Source: CPMI-IOSCO quantitative public disclosure data & ESRB Secretariat calculations.

Note: Interoperability arrangements allow clearing members of a CCP to clear their trades through a different CCP. Currently, there are five interoperability arrangements in Europe in place: EuronextC - LCH SA, CCE - LCH Ltd., CCE - SIX X-clear AG (CH), LCH Ltd. - SIX X-clear AG (CH), LCH Ltd. - SIX X-clear Norwegian branch (CH/NO). The indicator shows the initial margin provided for interoperability arrangements as a share of total initial margin. Each bar represents a quarter.

8. Risk related to central counterparties

8.8 Share of client clearing

Share of total initial margin required for client clearing (last observation: Q4 2023)

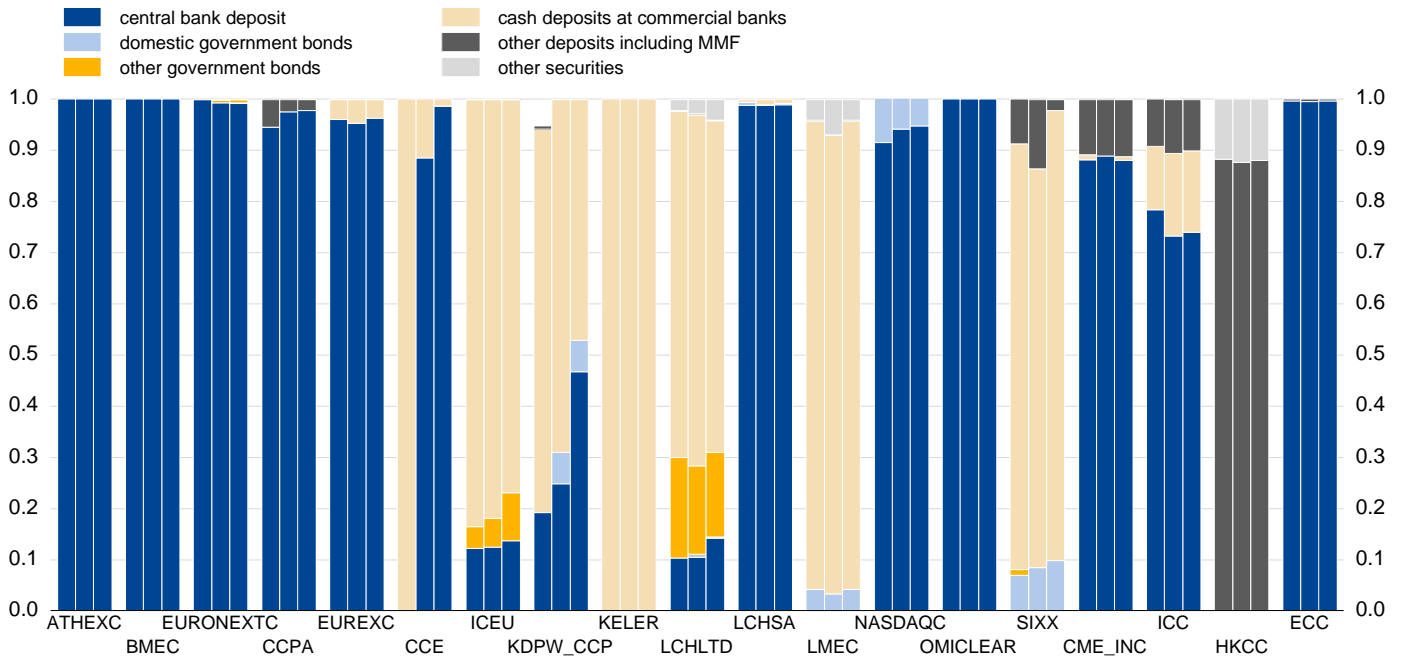


Source: CPMI-IOSCO quantitative public disclosure data & ESRB Secretariat calculations.

Note: This indicator considers the extent of direct and indirect clearing at a CCP. Client clearing is an essential part of a well-functioning clearing market, but a high share of client clearing may indicate an increased dependence on some direct members offering client clearing. This chart does not include the updated indicators for ATHEXClear.

8.9 Cash reinvestment policies

Breakdown info (last observation: Q4 2023)



Source: CPMI-IOSCO quantitative public disclosure data & ESRB Secretariat calculations.

Note: This indicator shows the investment strategies applied by a CCP. In line with EMIR requirements, a CCP could either deposit the cash received from clearing members in a central bank or other financial institution, or reinvest it in securities, including domestic or foreign government bonds. 'Other deposits' include unsecured deposits at commercial banks, deposits in MMF and in other forms. 'Other securities' include agency bonds, state/municipal bonds and other instruments. This chart does not include the updated indicators for ATHEXClear.