



Chart-pack on recent economic and financial market developments *

26 January 2021

As of the 30th of June, 2005 the Magyar Nemzeti Bank (the central bank of Hungary) publishes a comprehensive chart-pack about the latest information in financial markets and the macro-economy. Our aim is to provide analysts and the public with a frequently updated, easy-to-use, clear-cut data set, in order to promote better knowledge and understanding of the current economic and financial market situation. The updated chart-pack is published on the day of each rate-setting meeting at 5 pm.

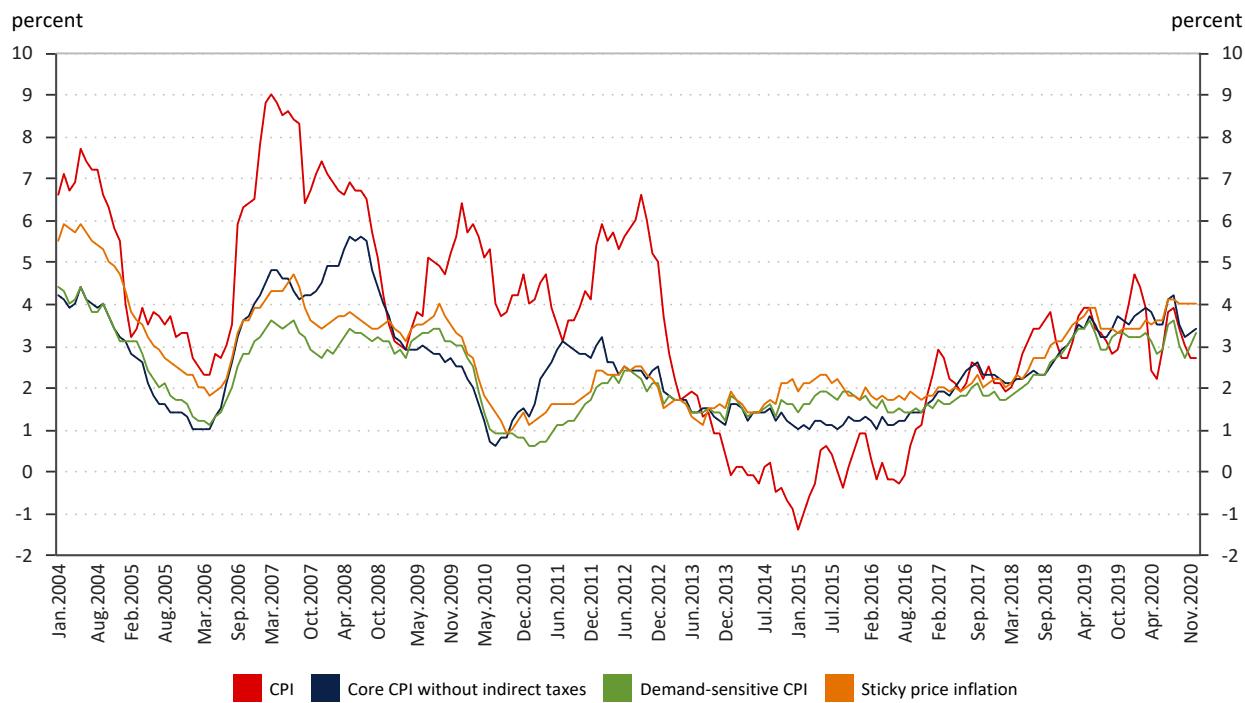
Earlier versions of the chart-pack are accessible on the website of Magyar Nemzeti Bank via the following address.

<http://www.mnb.hu/en/publications/studies-publications-statistics/chart-pack-on-recent-economic-and-financial-market-developments>

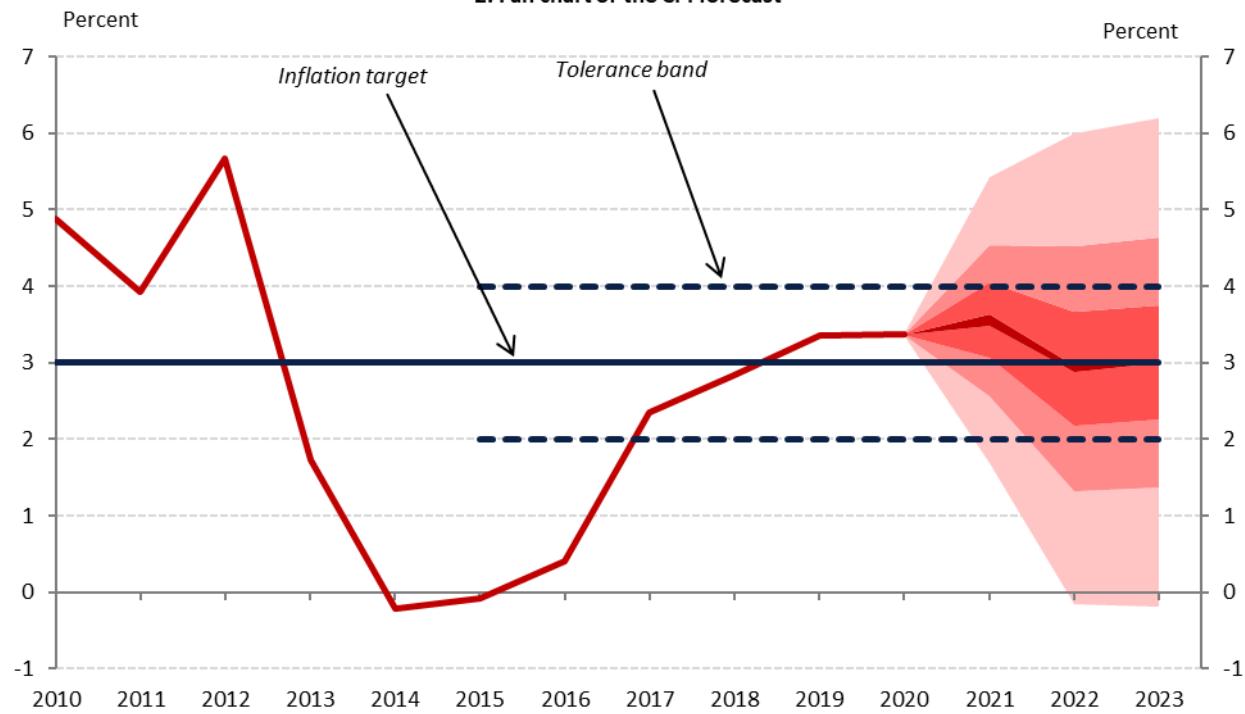
Questions and comments are welcome, and should be addressed to info@mnb.hu.

* The data sources of this document, in whole or in part, do not fall within the scope of Act XLVI of 1993 on statistics, therefore the data contained in the tables and charts are not to be considered as official statistical data. Magyar Nemzeti Bank excludes all liability for any damage caused by the usage of the herein published non-official statistical data.

1. Development of inflation and underlying inflation indicators

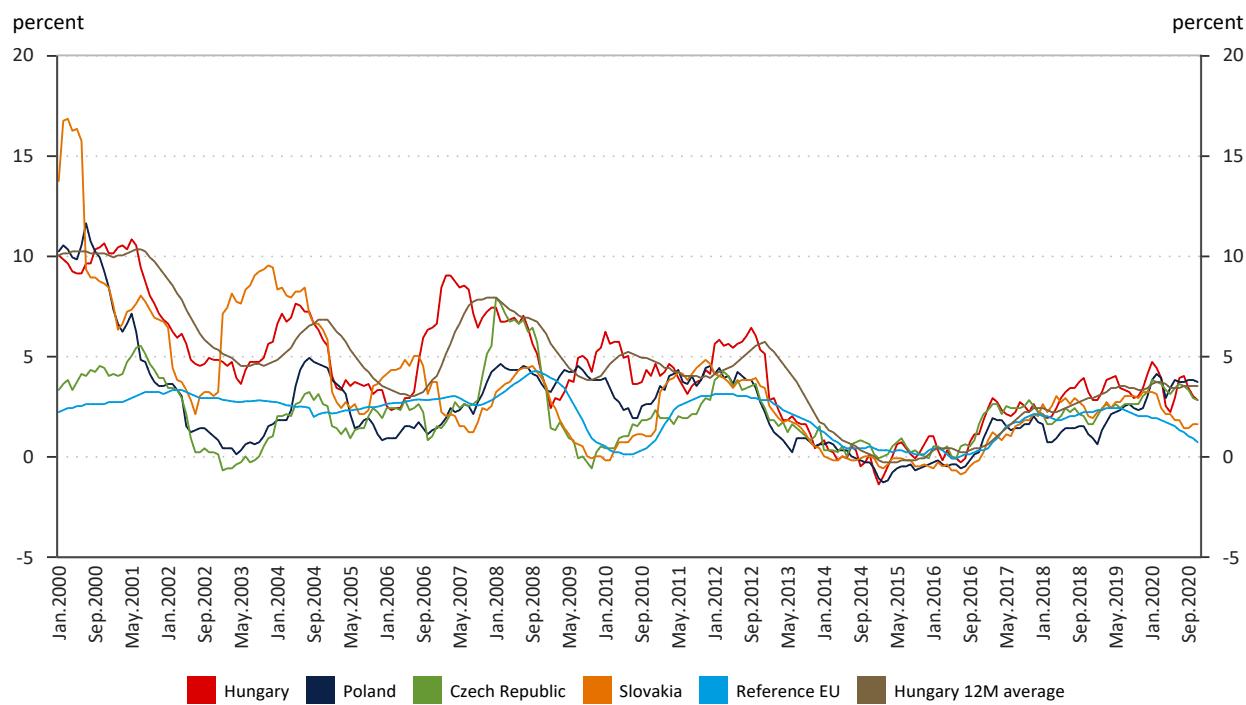


2. Fan chart of the CPI forecast



Source: MNB, HCSO. Note: Based on seasonally unadjusted data.

3. Harmonised index of consumer prices



Source: Eurostat

Note: annual growth rate.

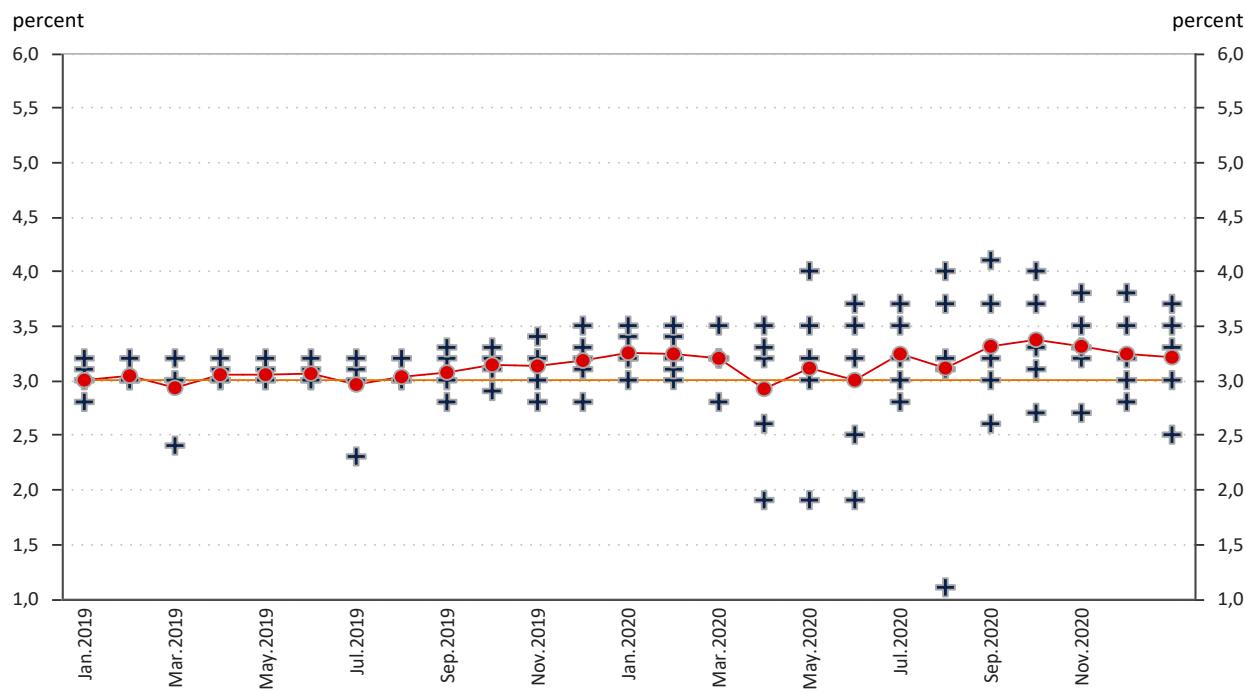
4. Decomposition of the Consumer Price Index

	Weight 2020	Sep 2020	Oct 2020	Nov 2020	Dec 2020
Consumer Price Index	100.0	3.4	3.0	2.7	2.7
Thereof:					
- Unprocessed food	6.5	11.6	9.8	8.6	5.1
- Processed food	13.0	6.1	5.5	5.1	4.3
- Manufactured goods	23.9	2.3	2.1	2.2	2.2
- Market services	23.5	3.7	3.6	3.8	3.7
- Non-regulated household energy	0.9	2.7	1.8	1.2	1.0
- Alcohol, tobacco	10.3	6.3	6.1	6.6	8.7
- Gasoline prices	6.7	-3.4	-5.2	-7.5	-4.5
- Regulated prices	15.3	0.5	0.5	-0.8	-0.8
Core Consumer Price Index	70.6	4.0	3.8	3.9	4.0
CPI without tax changes	100.0	3.3	2.9	2.5	2.6

Source HCSO, MNB decomposition

Notes: annual growth rates (%). Seasonally not adjusted data.

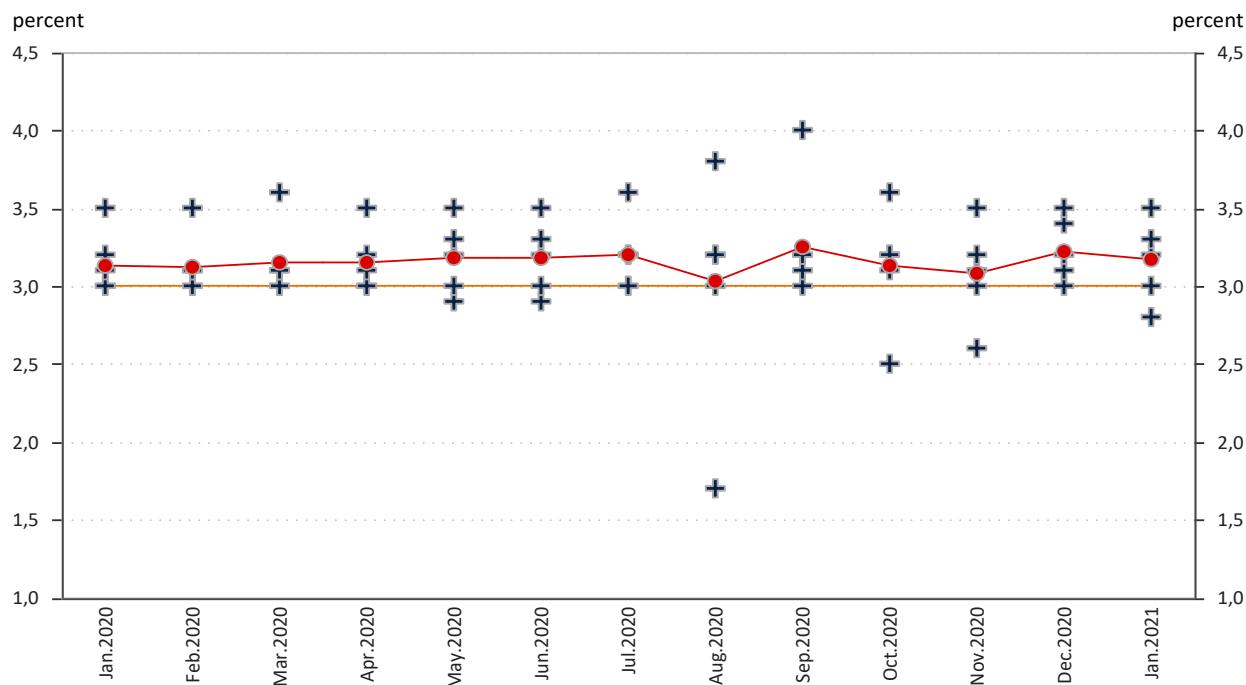
5. Market expectations for the inflation rate in current year



Source: Refinitiv

Note: crosses mark the quartiles of the analyst forecasts and the minimum and maximum values, the red continuous line represents the mean calculated by values, the brown line shows the inflation target of MNB.

6. Market expectations for the inflation rate next year



Source: Refinitiv

Note: crosses mark the quartiles of the analyst forecasts and the minimum and maximum values, the red continuous line represents the mean calculated by values, the brown line shows the inflation target of MNB.

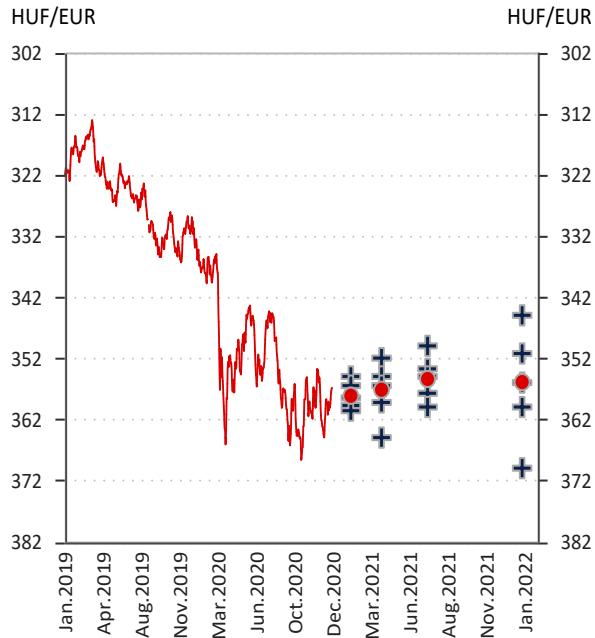
7. Expectations for HUF/EUR exchange rate (Bloomberg collection)



Source: Bloomberg

Note: Bloomberg collection; based on new FX forecasts. 2-weeks moving average, reverse scale.

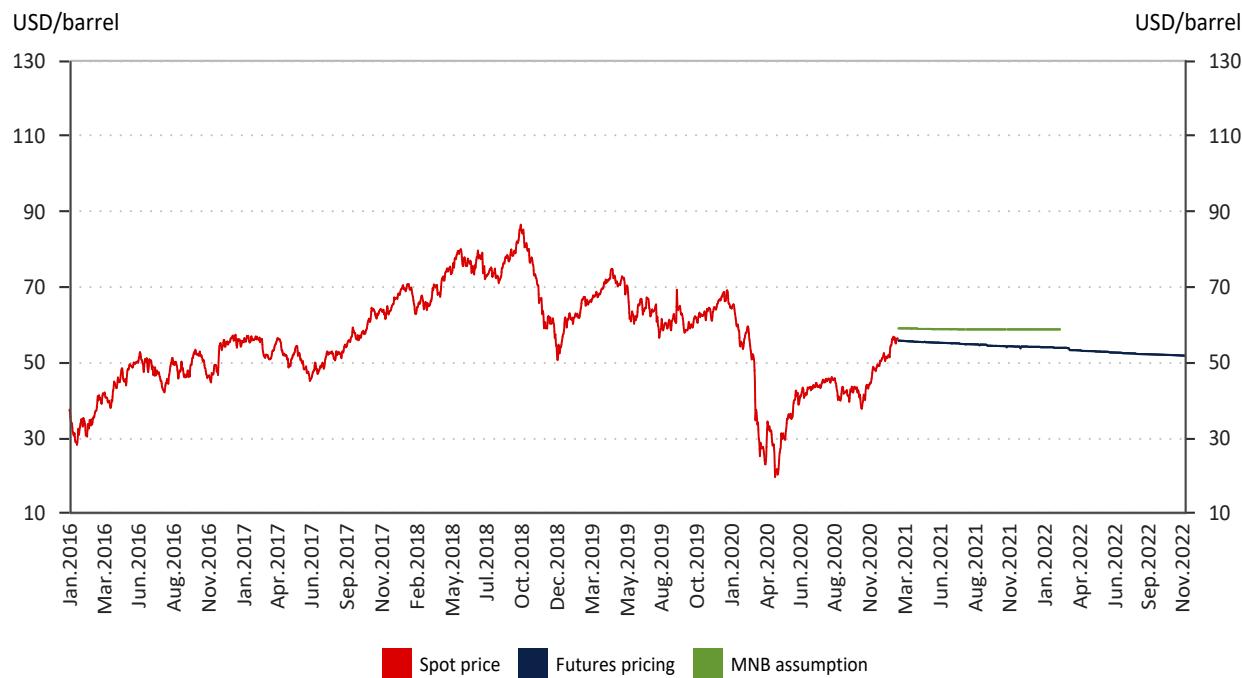
8. Expectations for HUF/EUR exchange rate



Source: Refinitiv, MNB.

Note: reverse scale, the crosses mark the quartiles of the analyst forecasts and the minimum and maximum values, the red continuous line represents the mean calculated by values.

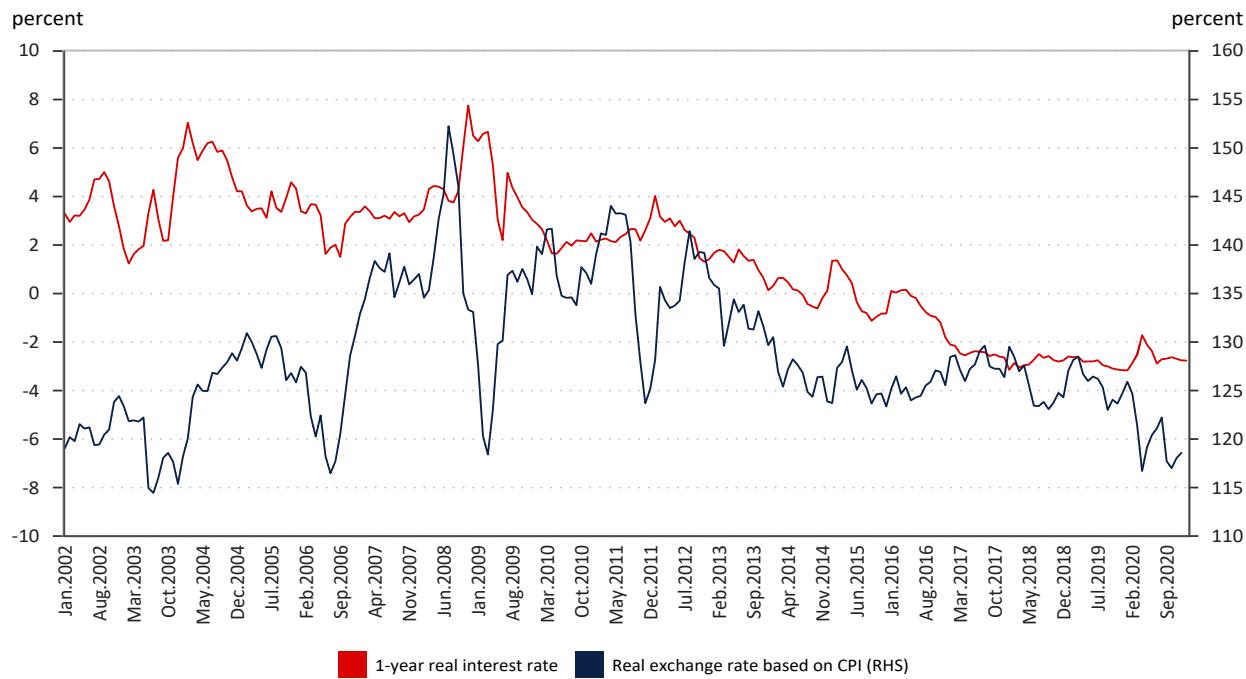
9. Spot and futures Brent crude oil price



Source: Bloomberg, MNB.

Futures are based on the latest available futures prices. Technical assumption underlying is used in our inflation forecast published in the most recent Inflation Report

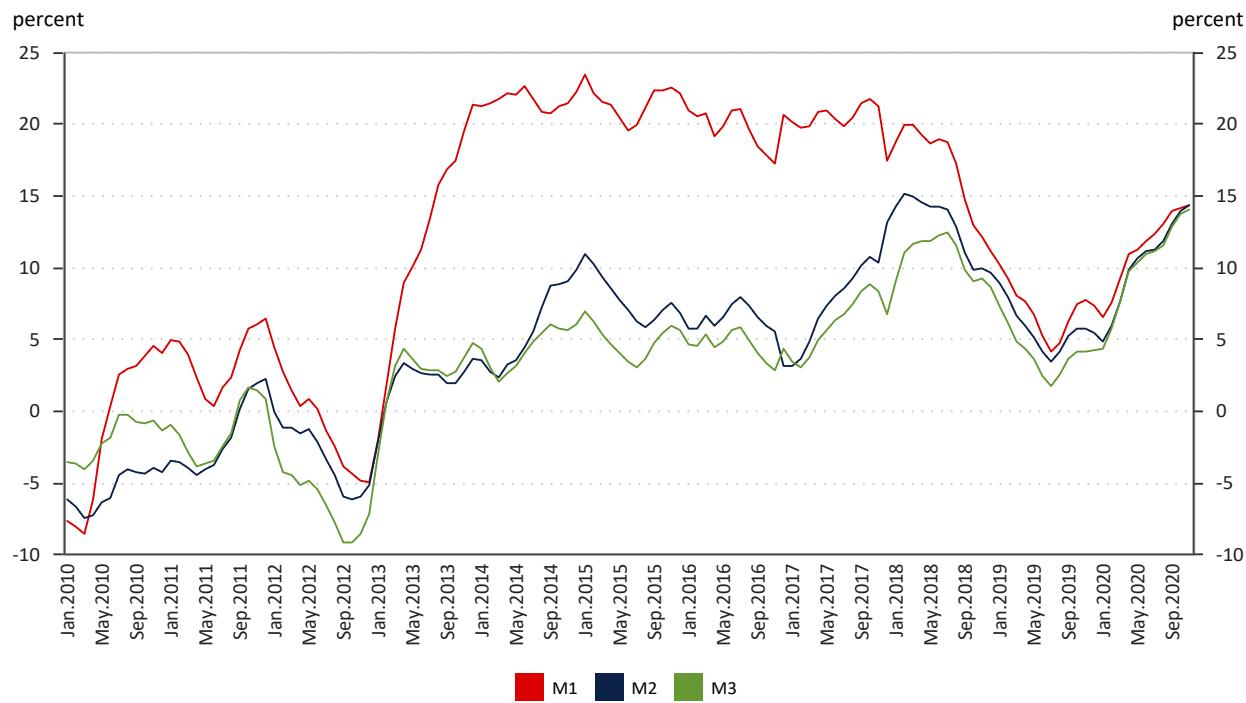
10. Monetary conditions



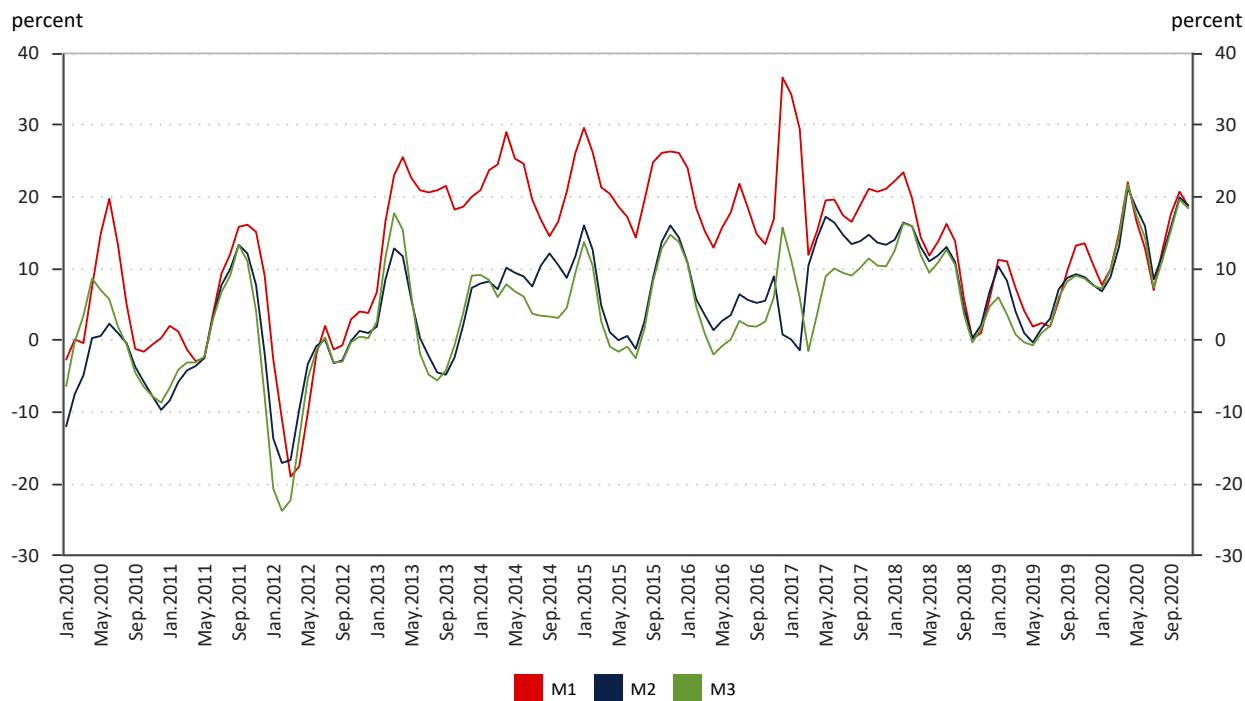
Source: Refinitiv, HCSO, Eurostat, ÁKK, MNB

Note: Real interest rate is calculated from 1-year zero coupon yield and analysts corresponding 1-year forward inflation expectations derived from the Reuters-poll by the MNB. Real exchange rate is calculated from the change of the forint relative to euro, adjusted by the corresponding Hungarian CPI and the EMU is HICP. (1 January 2000=100%, increase represents appreciation)

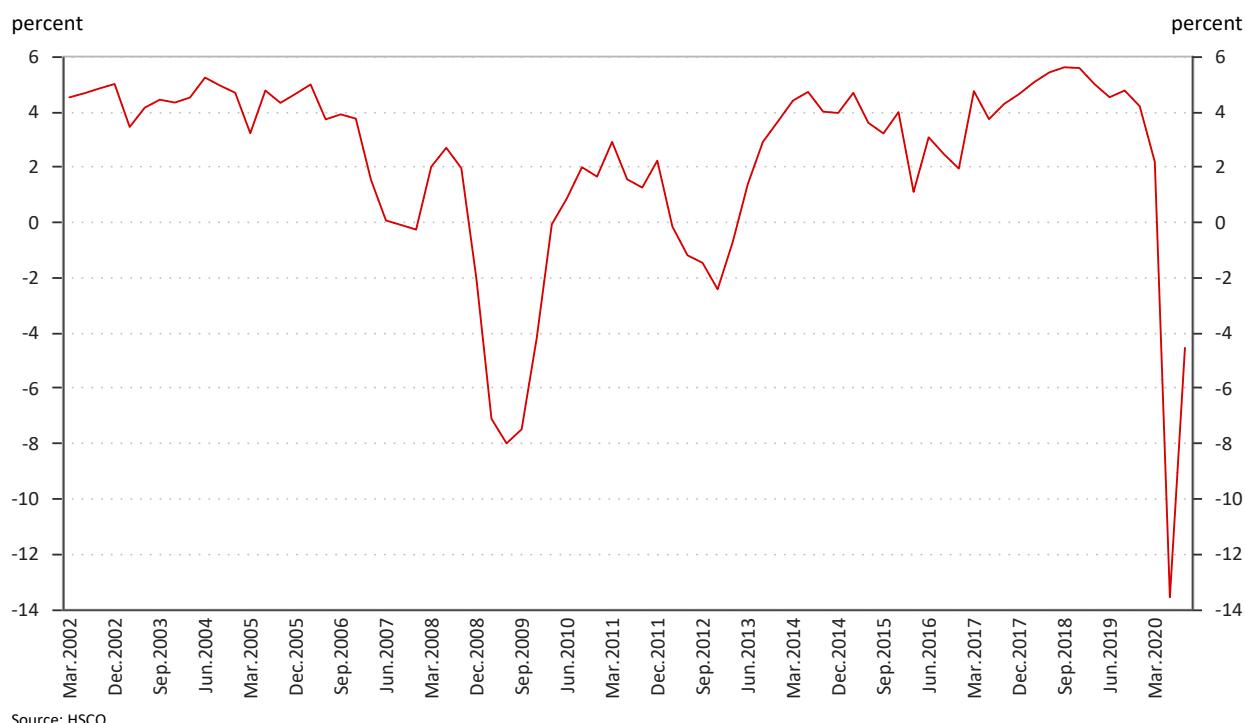
11. Real growth rate of monetary aggregates (year-on-year basis)



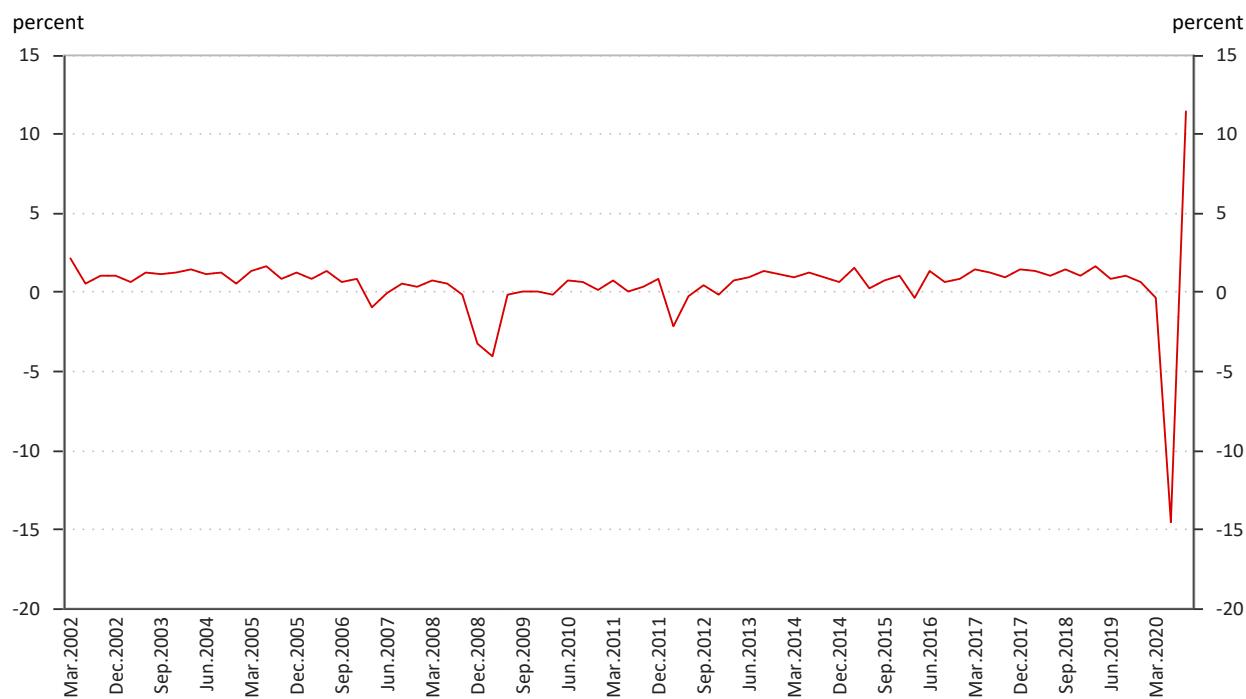
Source: MNB.

12. Real growth rate of monetary aggregates (annualized from quarterly rates)

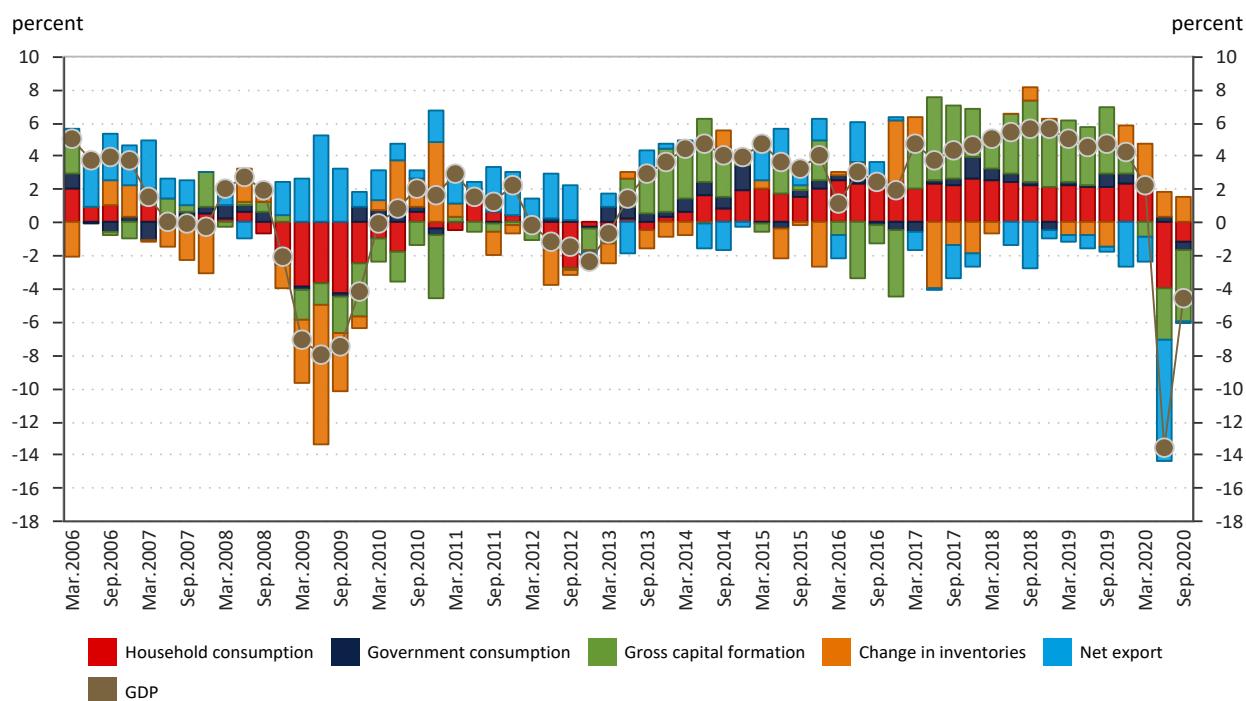
Source: MNB.

13. Change in annual GDP

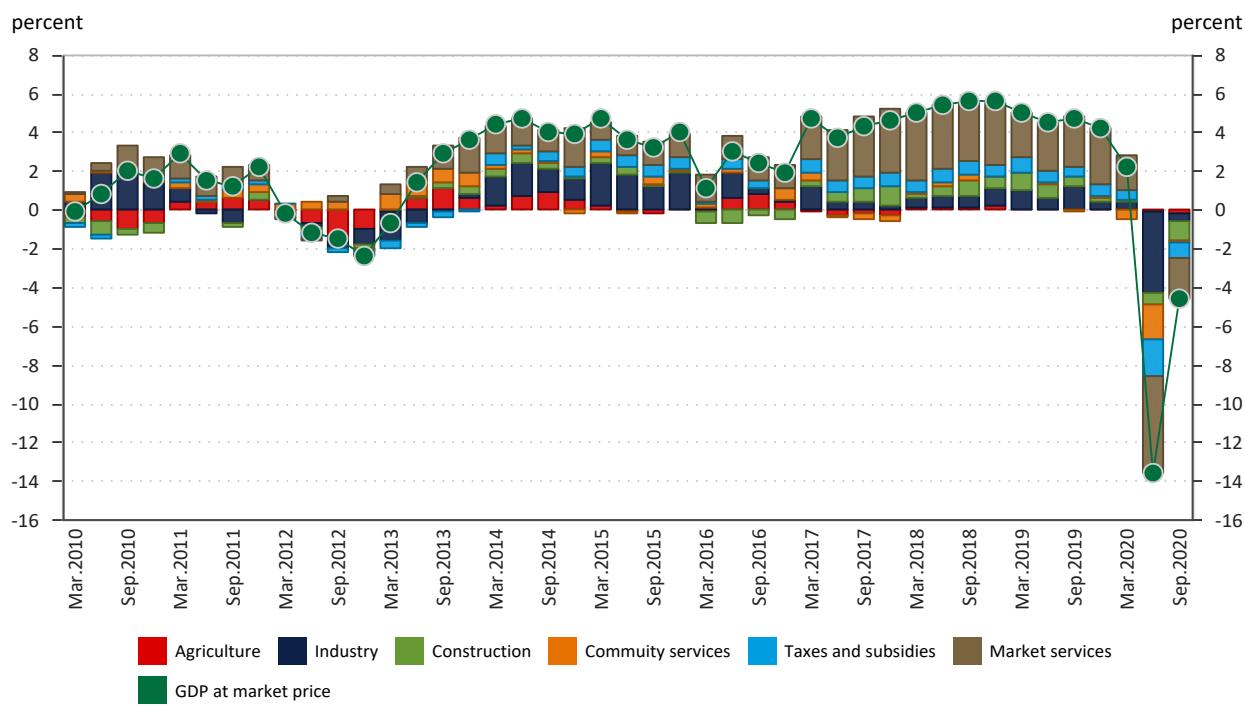
Source: HSCO

14. Quarterly GDP change

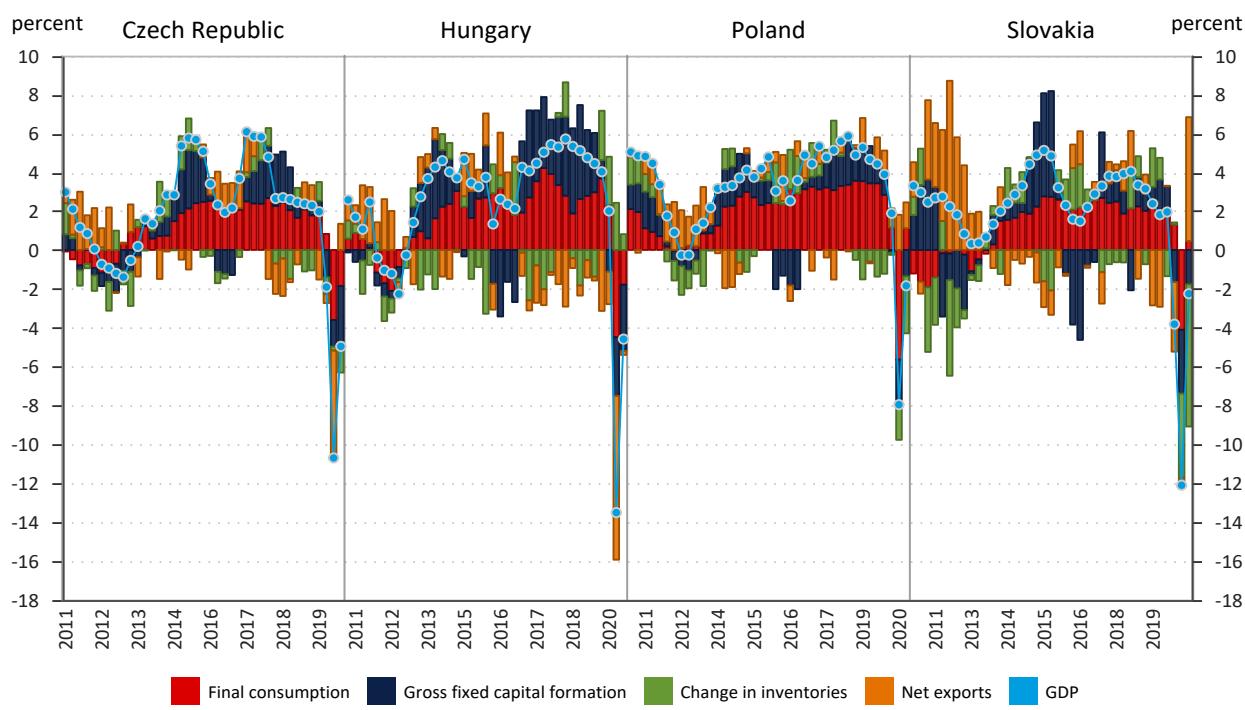
Source: MNB, HSCO.

15. Contribution to annual GDP growth

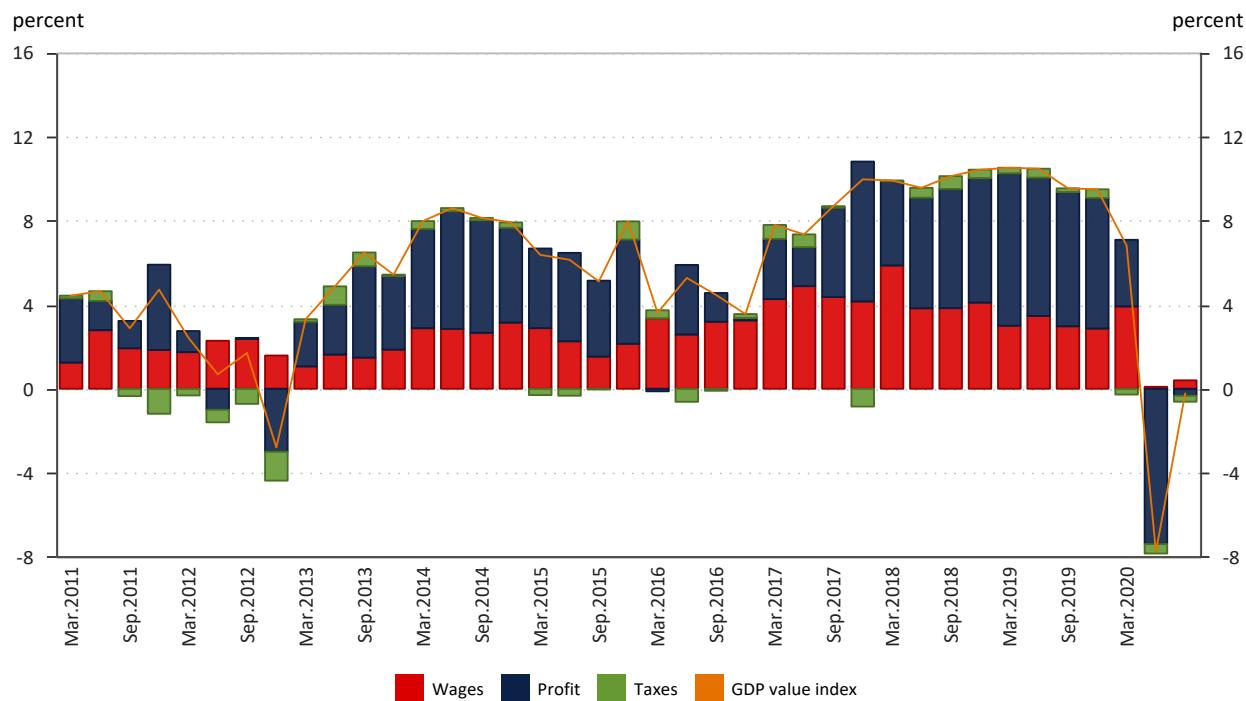
Source: MNB, HSCO.

16. Decomposition of GDP growth

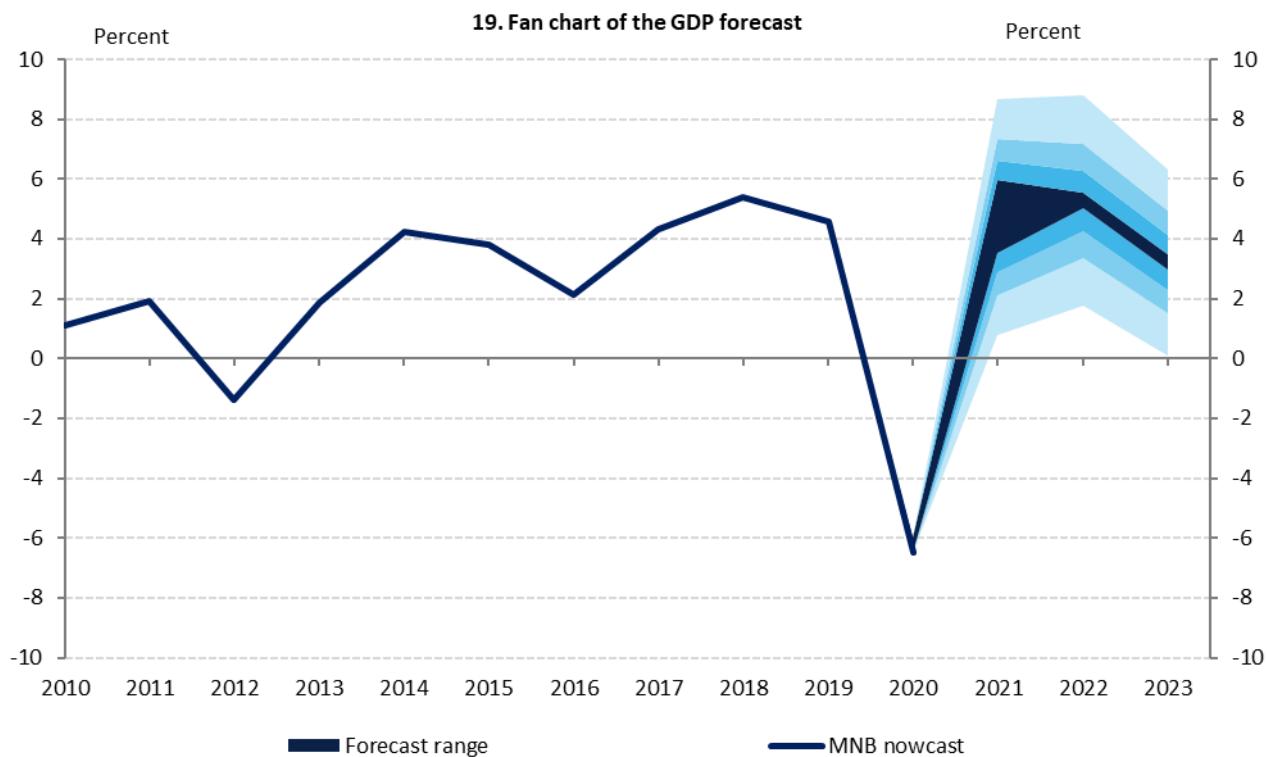
Source: HSCO.

17. Contribution to annual GDP growth in the region

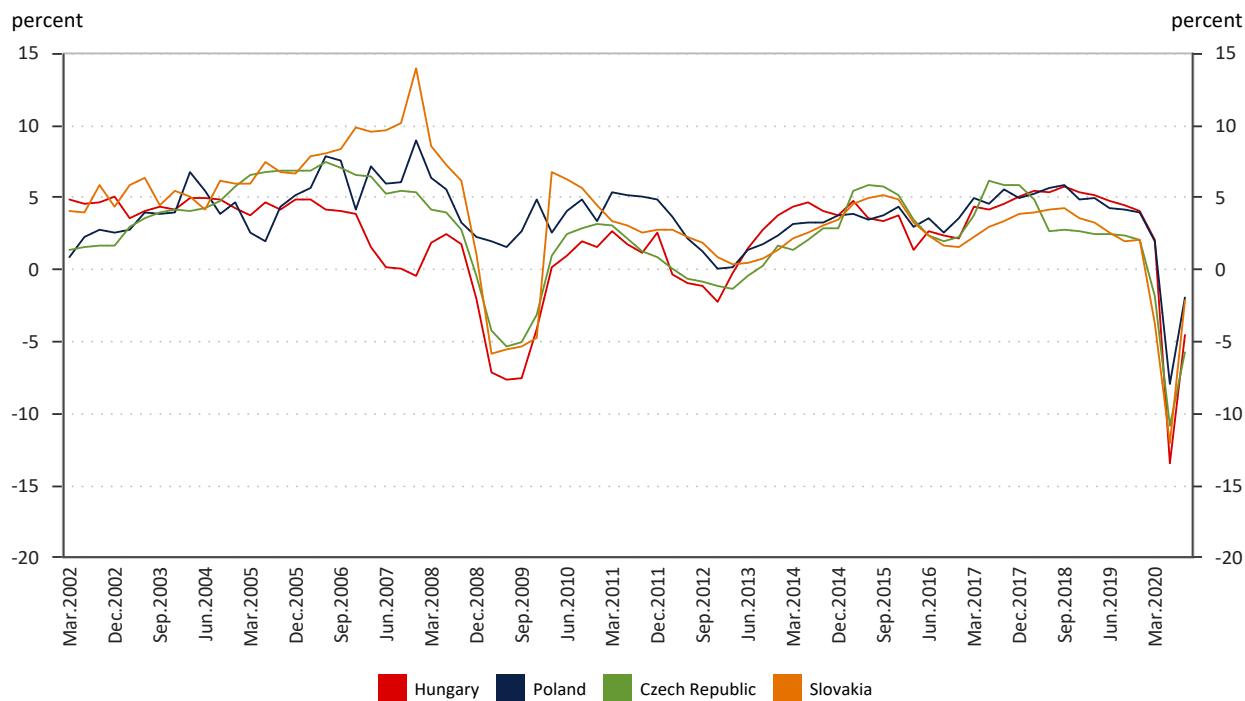
Source: MNB, HSCO. Note: based on seasonally and calendar adjusted and reconciled data

18. Decomposition of GDP growth (income approach)

Source: MNB, HSCO Note: contribution in percentage points

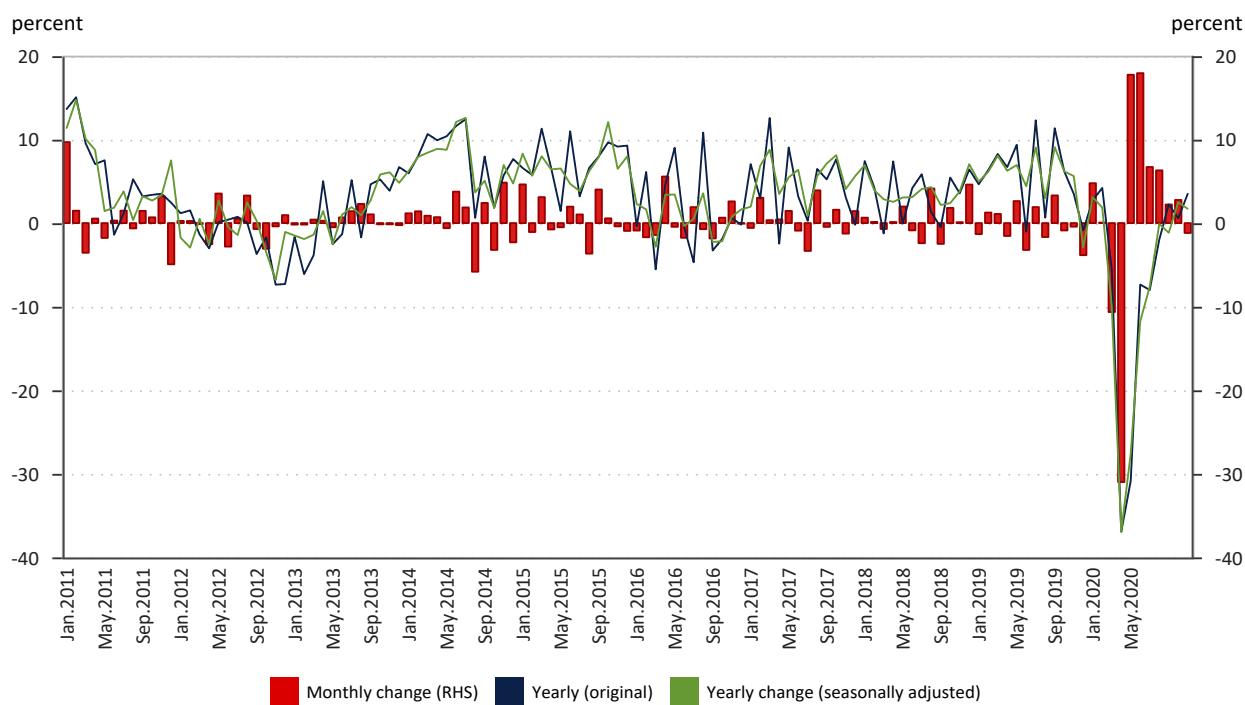
19. Fan chart of the GDP forecast

Source: HCSO, MNB

20. GDP growth rate in CEE

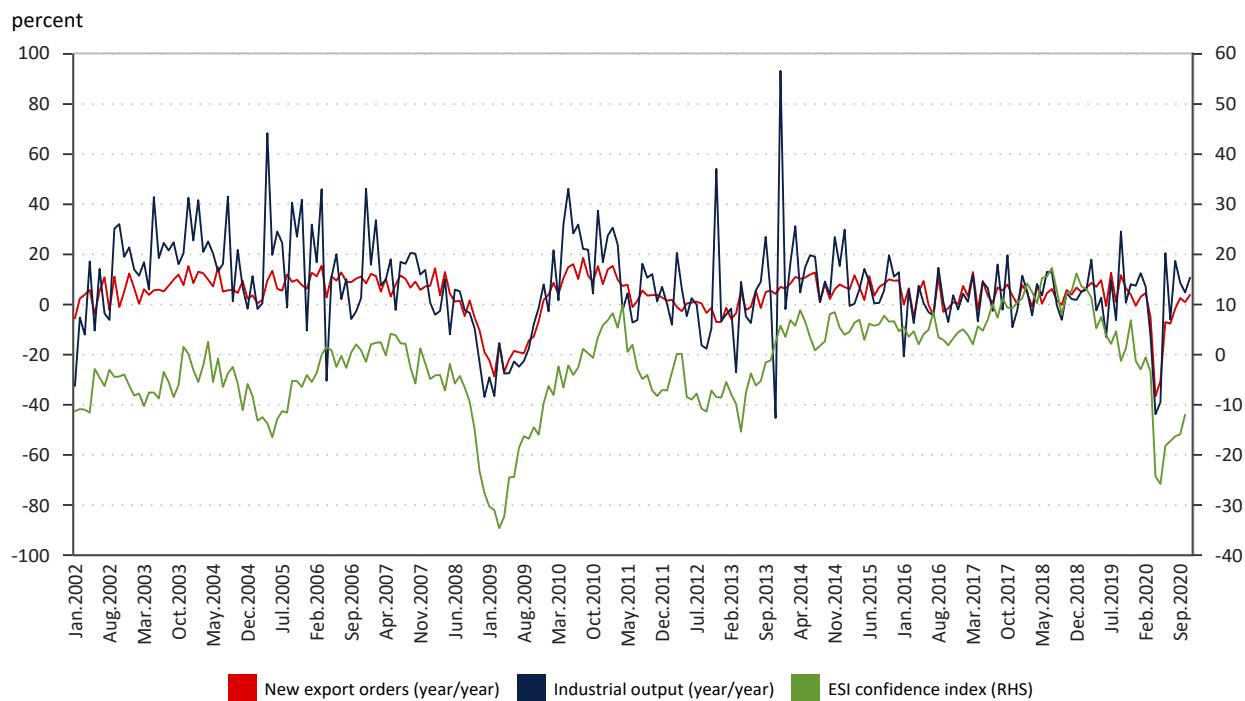
Source: Eurostat

Note: annual growth rate.

21. Change in industrial production

Source: MNB, HCSO.

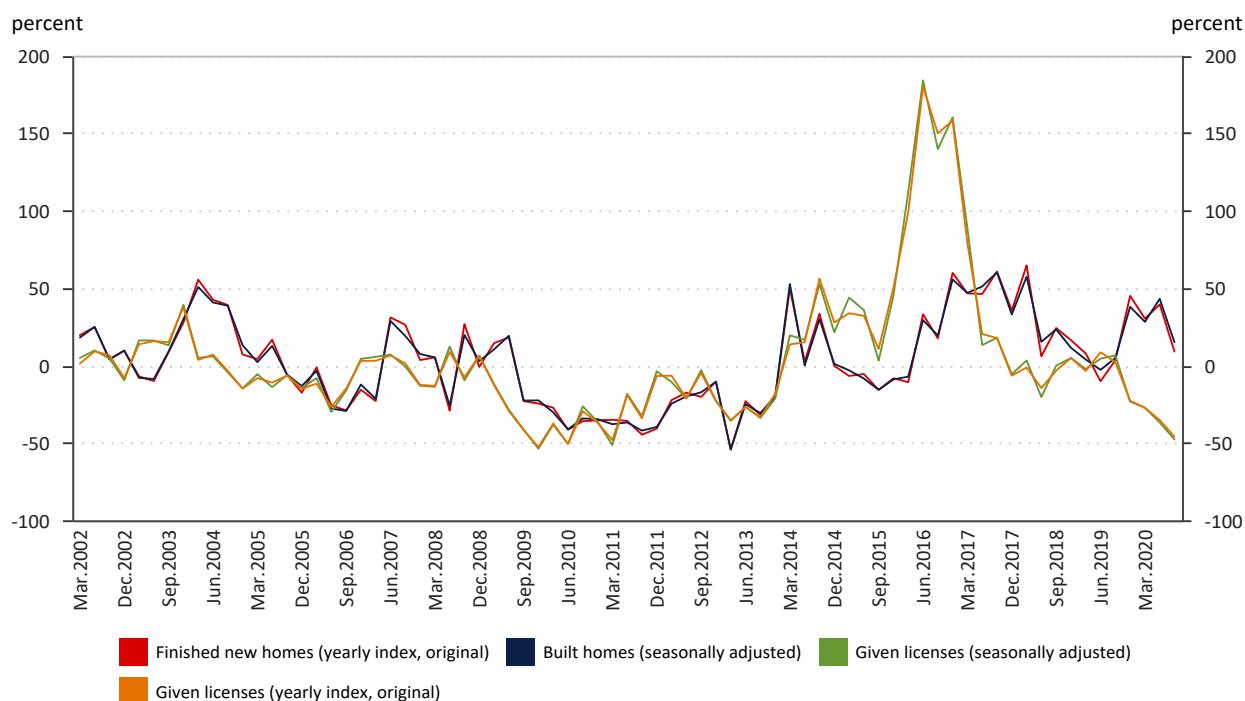
22. Industrial production and new export orders



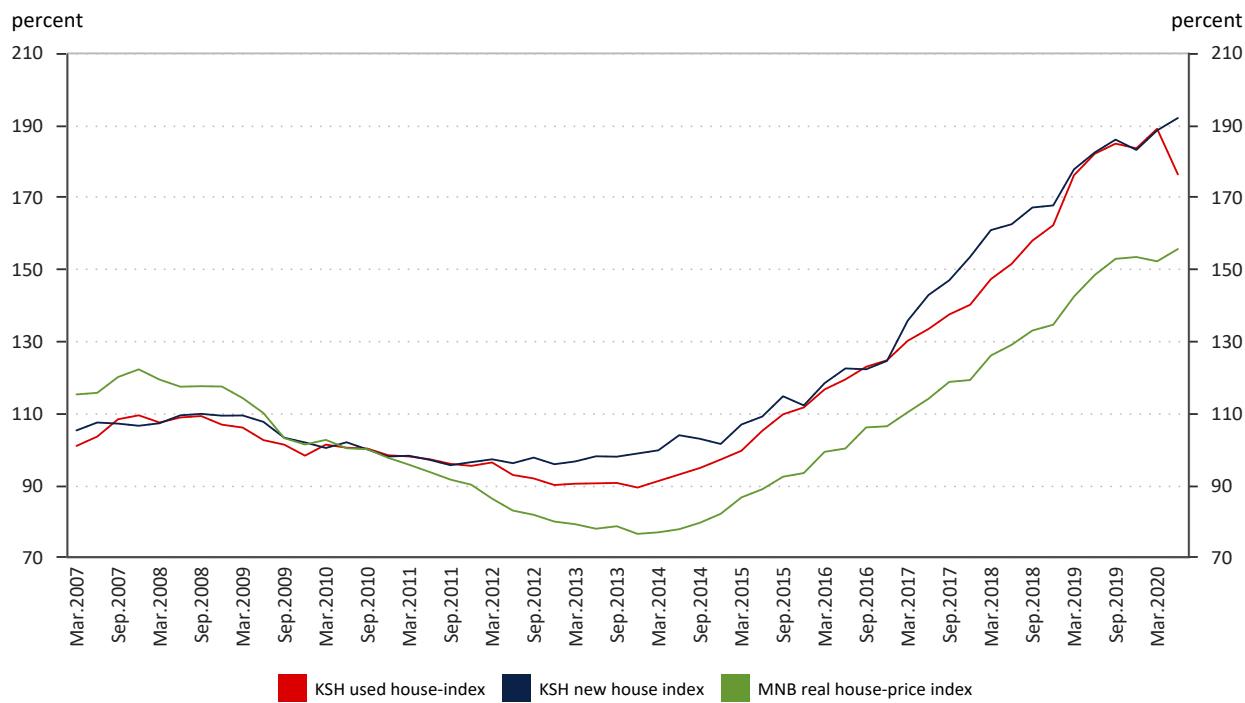
Source: HSCO, European Commission.

Note: ESI Index is a survey on business confidence by the European Commission. Chart represents the industrial sub-index.

23. Developments on the real estate market

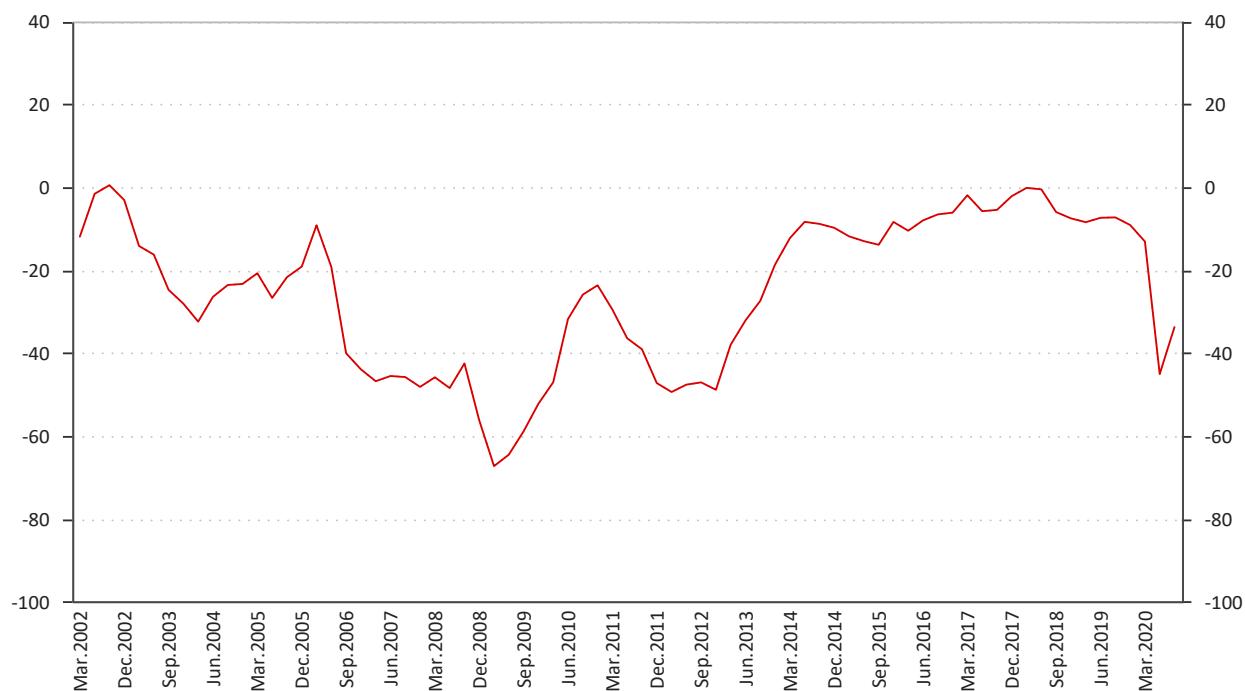


Source: MNB, HSCO.

24. Development of house prices

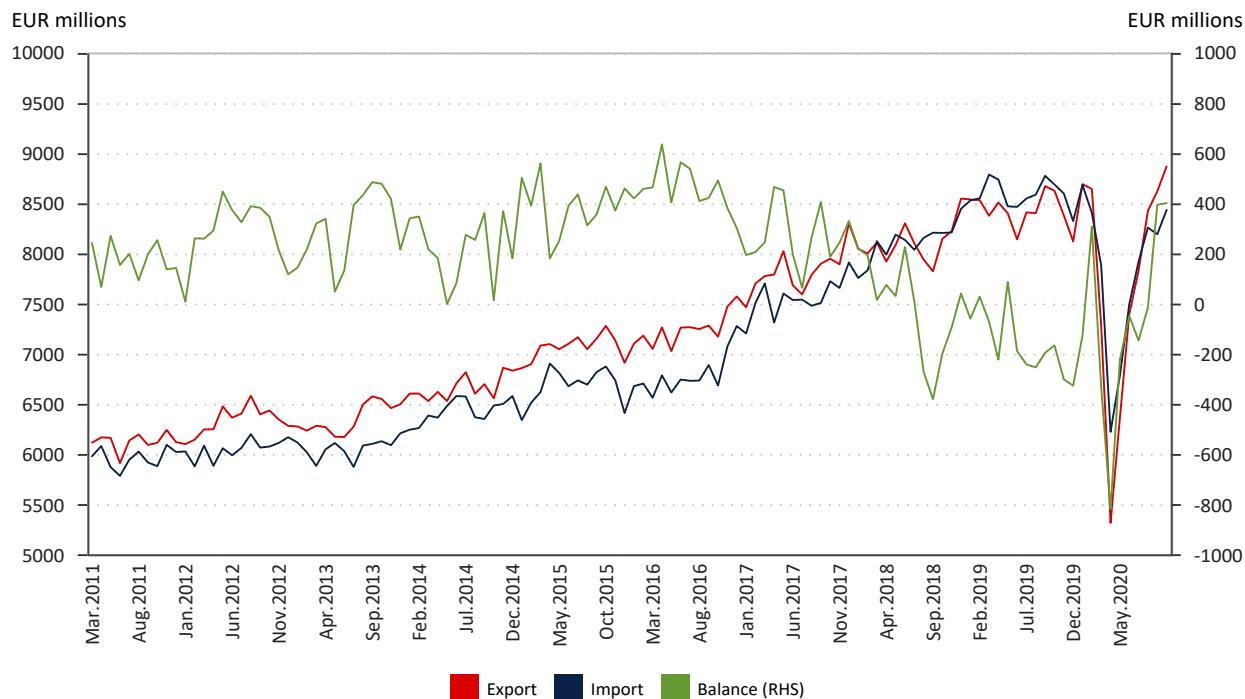
Source: HCSO

Note: 2010=100, inflation adjusted indices.

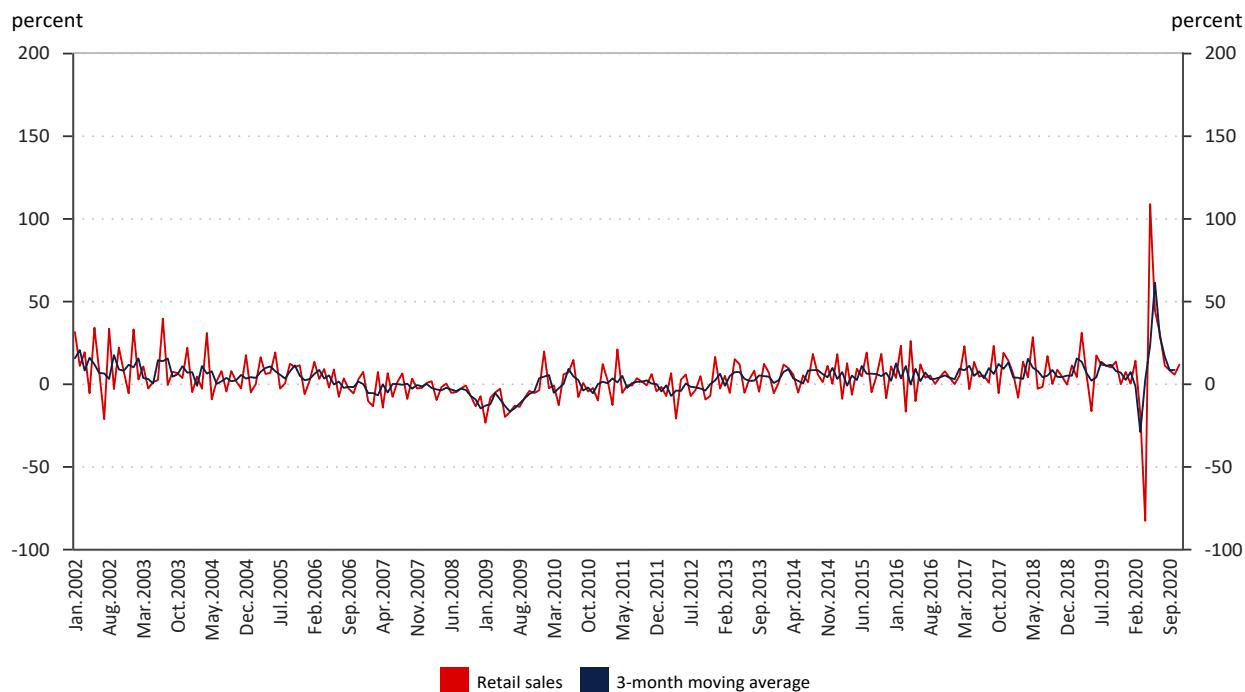
25. Household confidence index (reweighted)

Source: European Commission.

Note: Household confidence indicator is a composite indicator based on the ESI survey

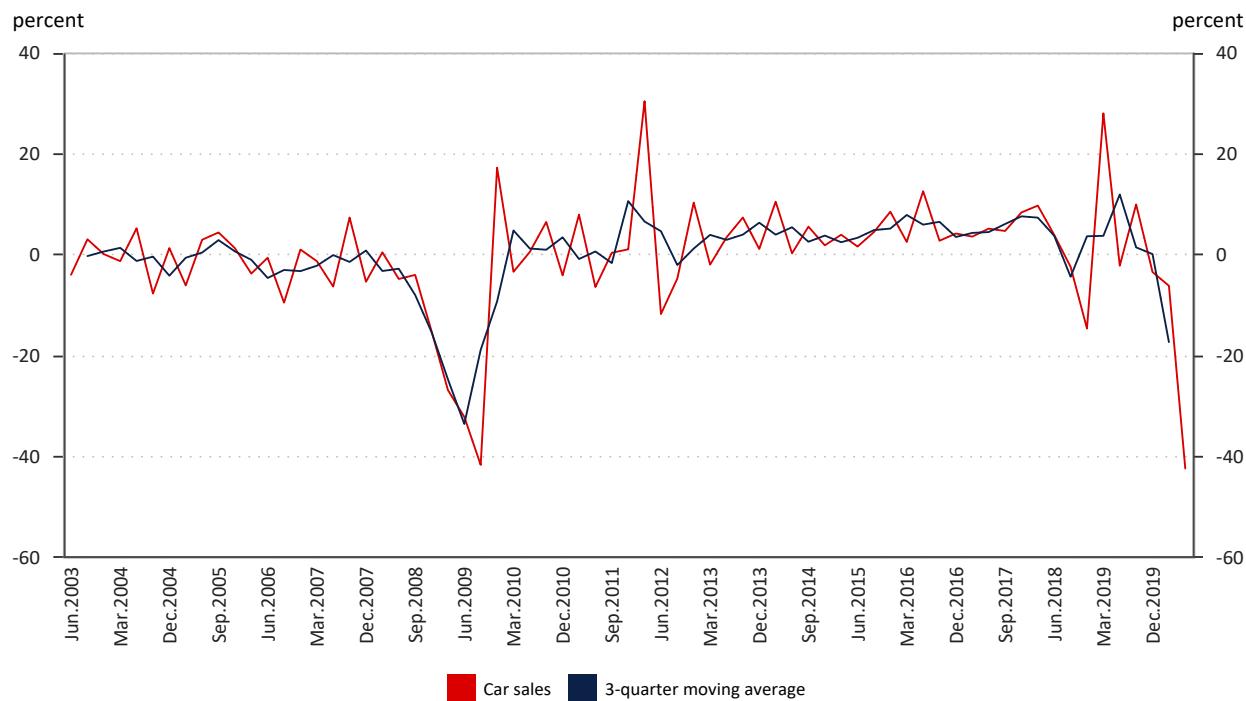
26. Change in export and import volumes

Source: HCSO, MNB calculation. Comment: Foreign trade was corrected due to slippage and missing items between specific months and the activity of VAT resident companies. The seasonal adjustment of the trade balance was done directly by MNB

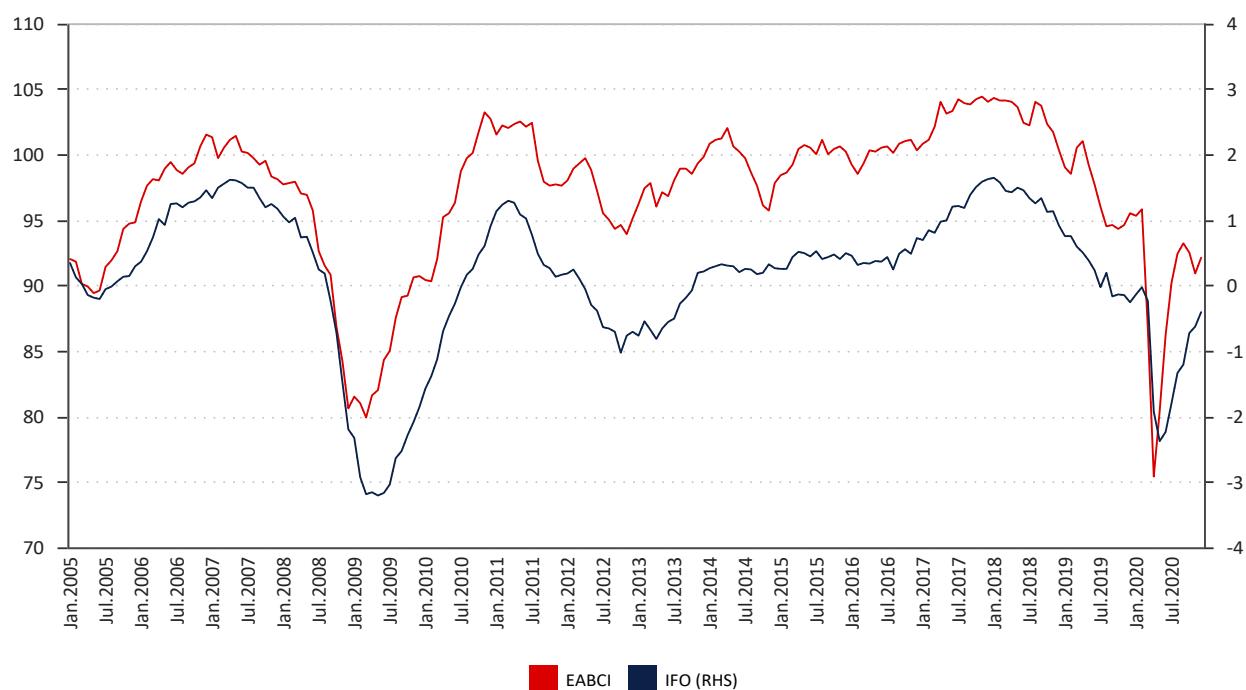
27. Total volume of retail trade

Source: HCSO.

Note: seasonally adjusted annualised monthly growth rates. The data of total retail sales contain beyond the narrow retail sales the turnover of motor vehicles and automotive fuel as well.

28. Quarterly growth rates of automobile sales

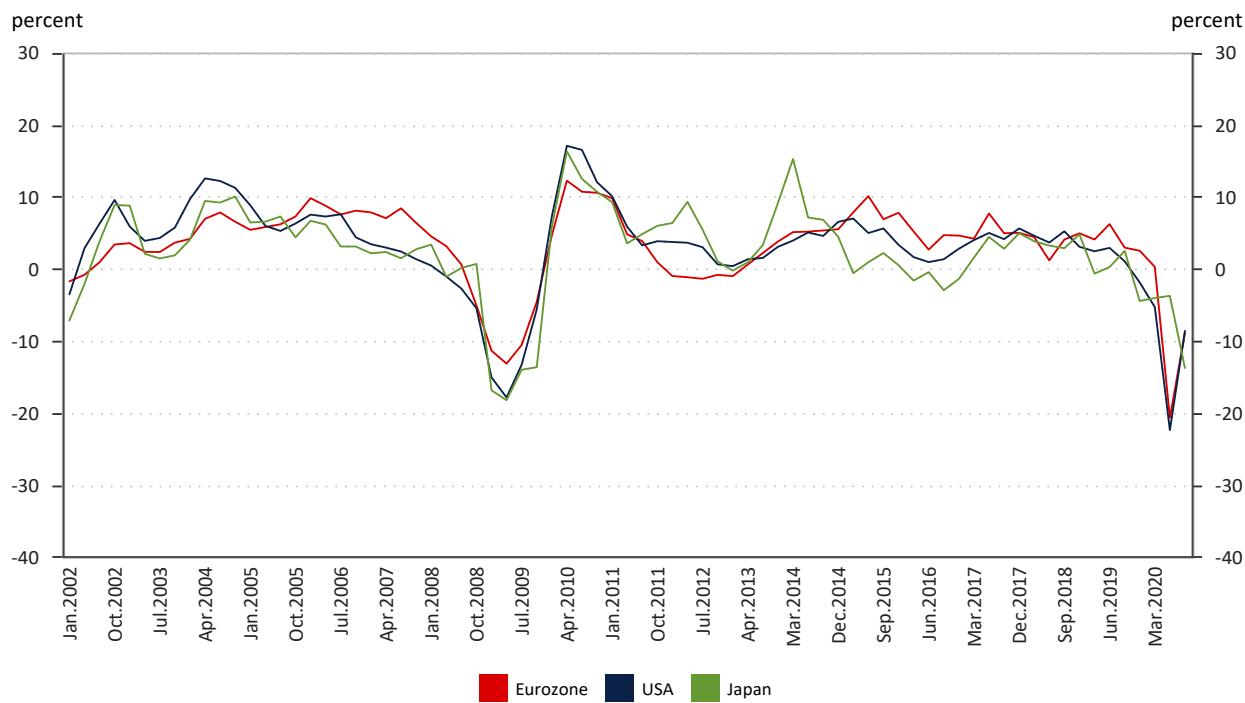
Source: ACEA.

29. Business climate indices in the EMU

Source: IFO; European Committee.

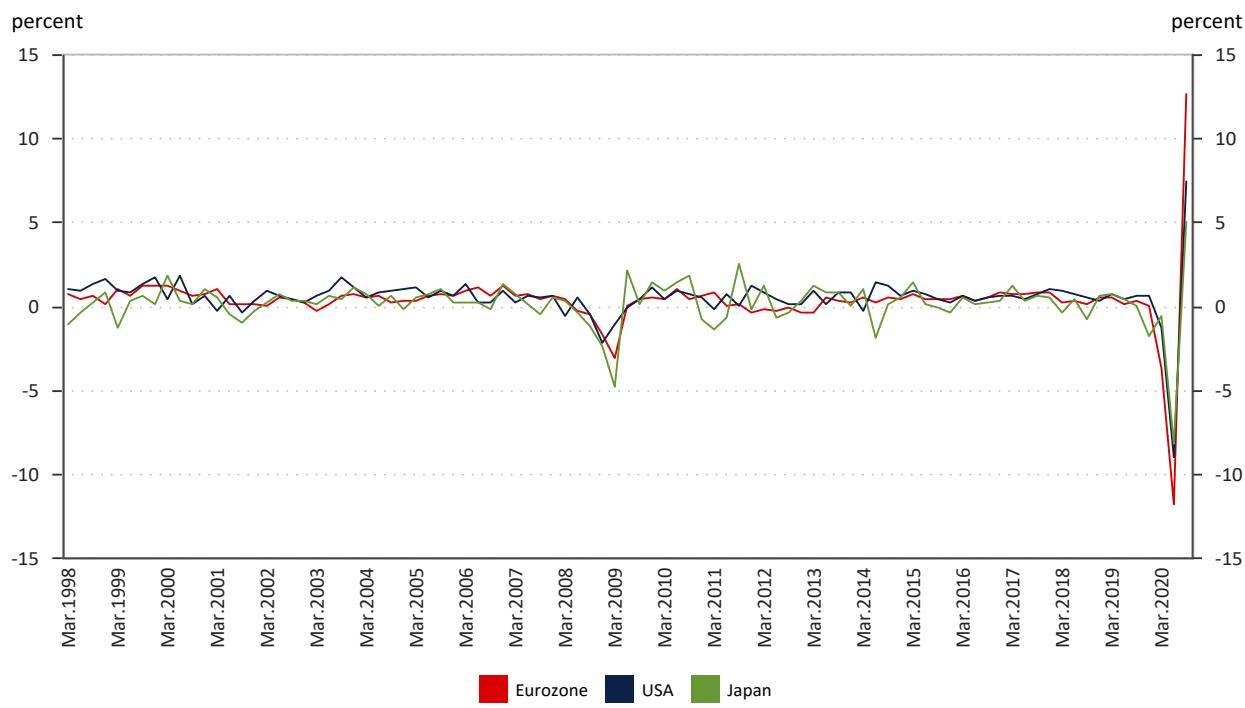
Note: IFO: Business Climate Index of the German Institut für Wirtschaftsforschung (Average of year 2000 = 100); EABCi: Business Climate Index of the European Committee (deviations from the long-run average), seasonally adjusted.

30. The annual growth rate of the volume of imported goods and services



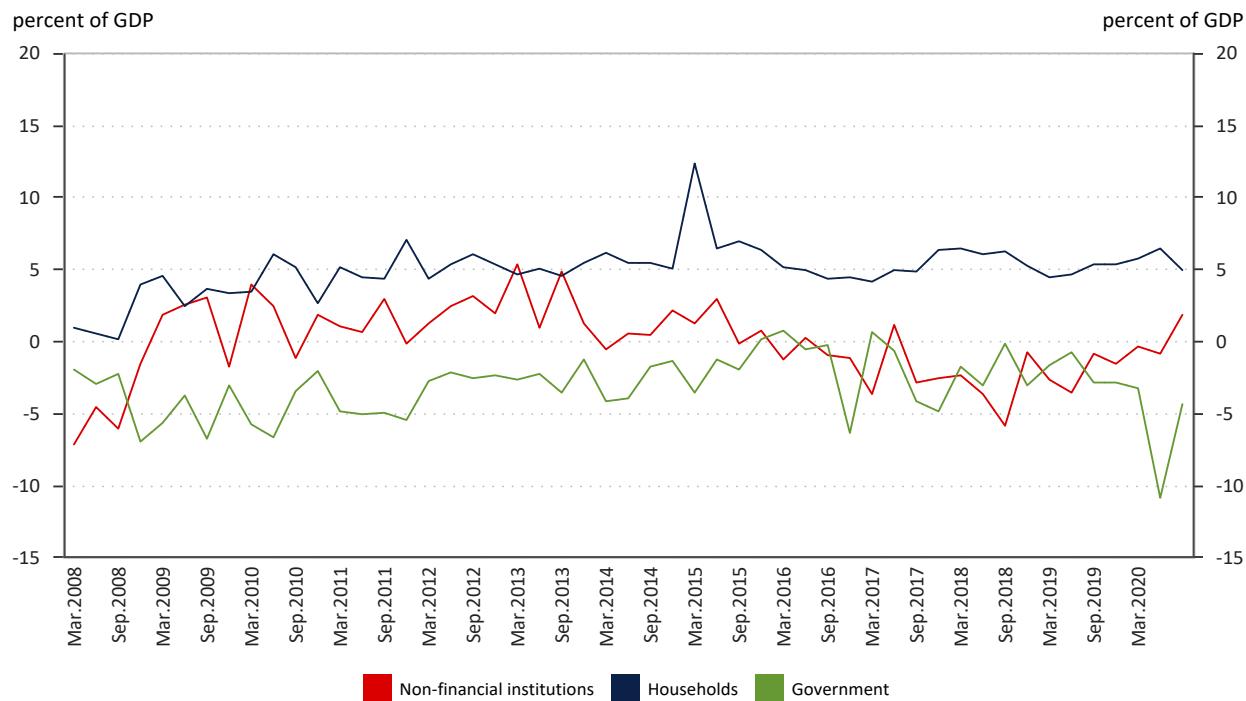
Source: Eurostat.

31. Quarterly GDP growth rate in the EMU, US and Japan



Source: Eurostat

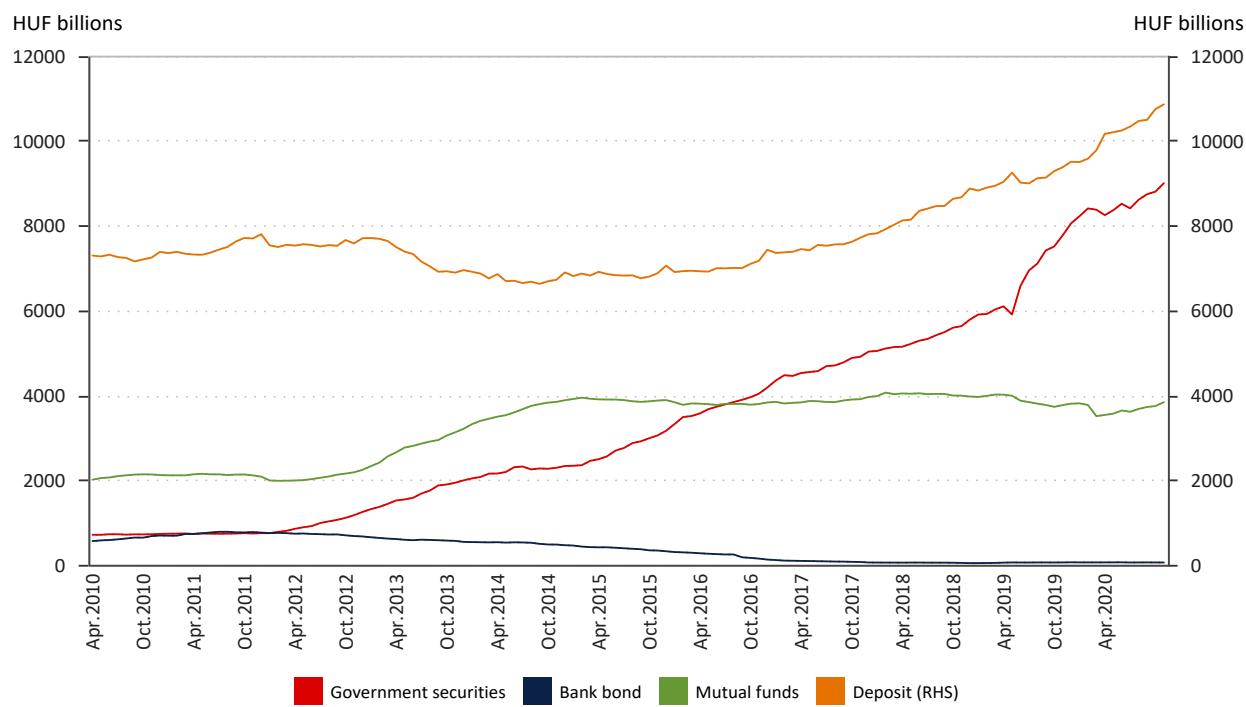
32. Net lending of domestic sectors



Source: MNB.

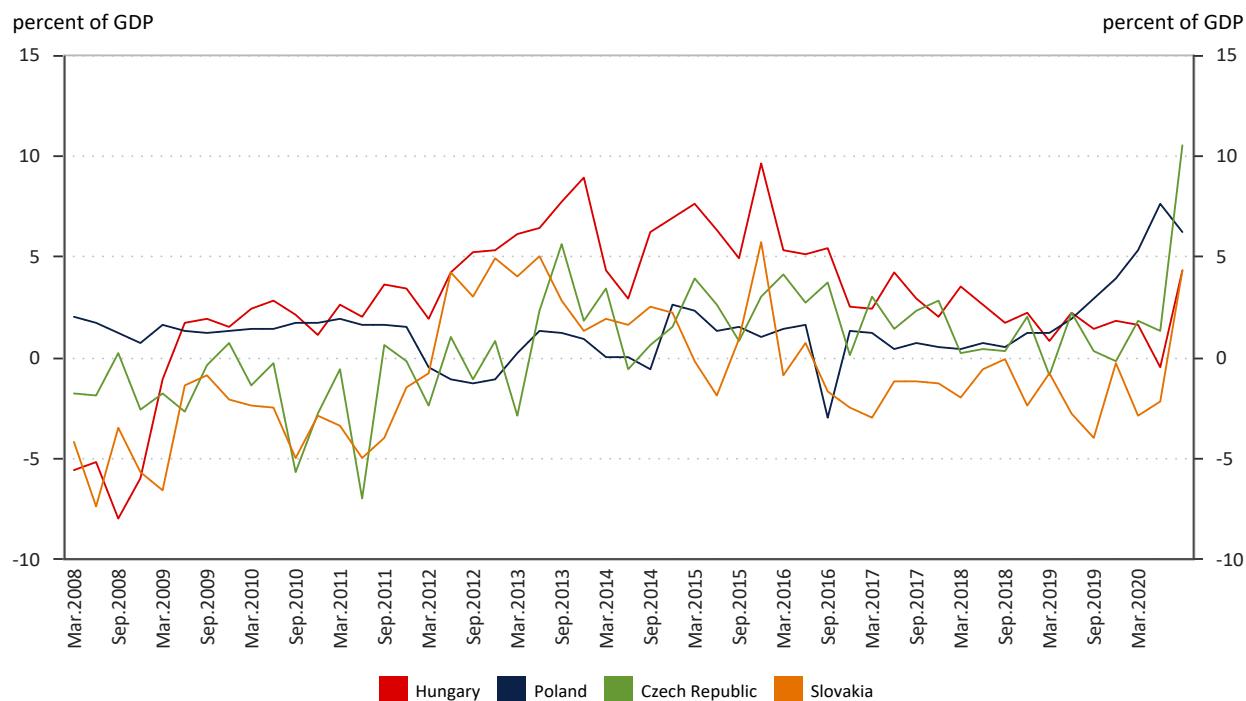
Note: Seasonally adjusted by MNB. In the case of households and general government, the last data is preliminary.

33. Main financial assets held by households



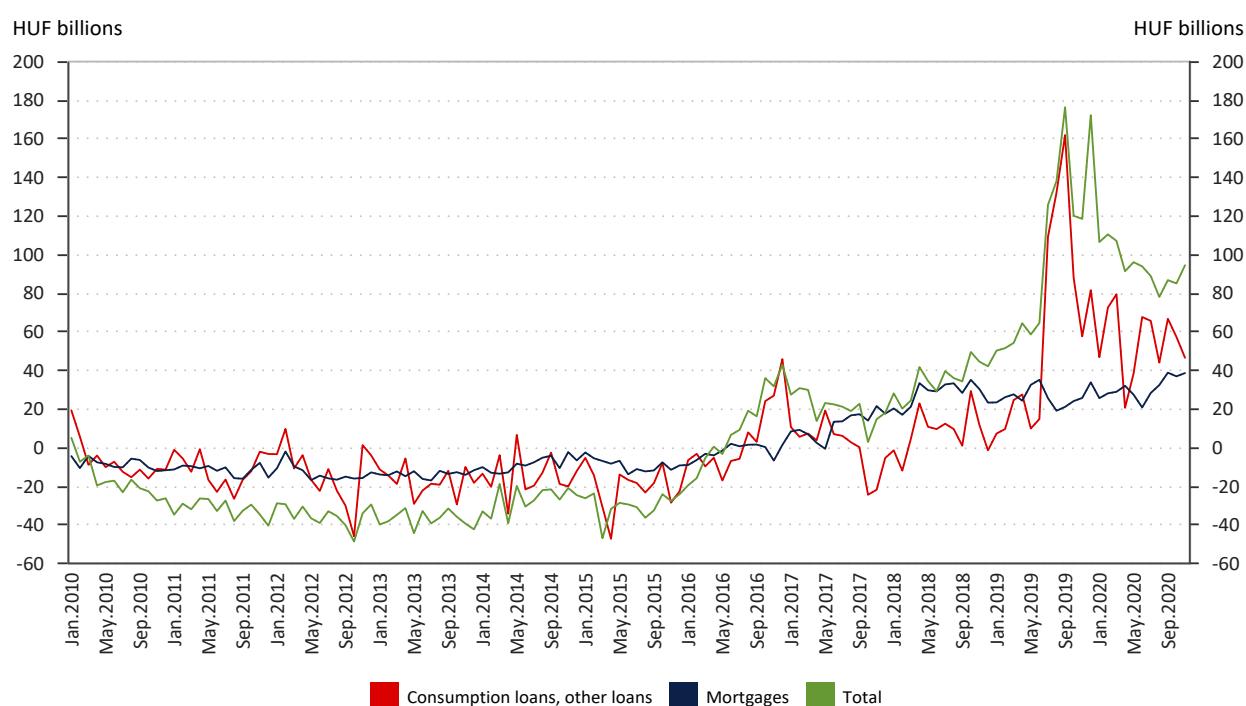
Source: MNB.

34. External financing capacity in the CEE countries



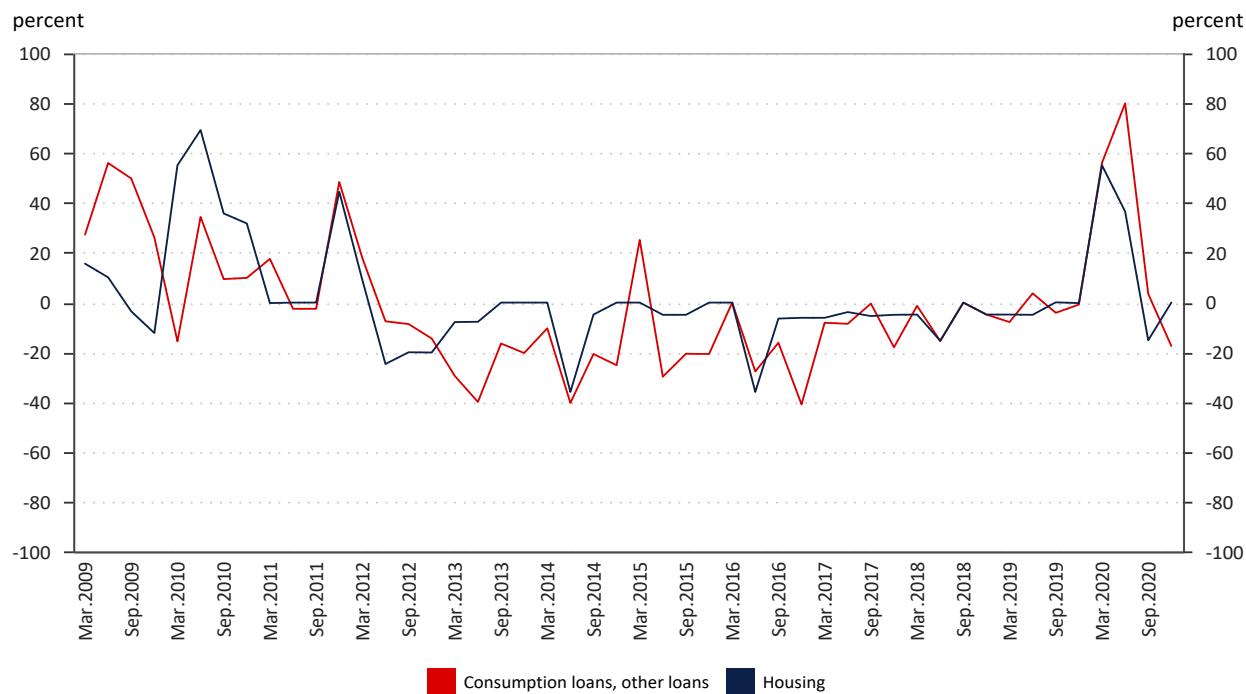
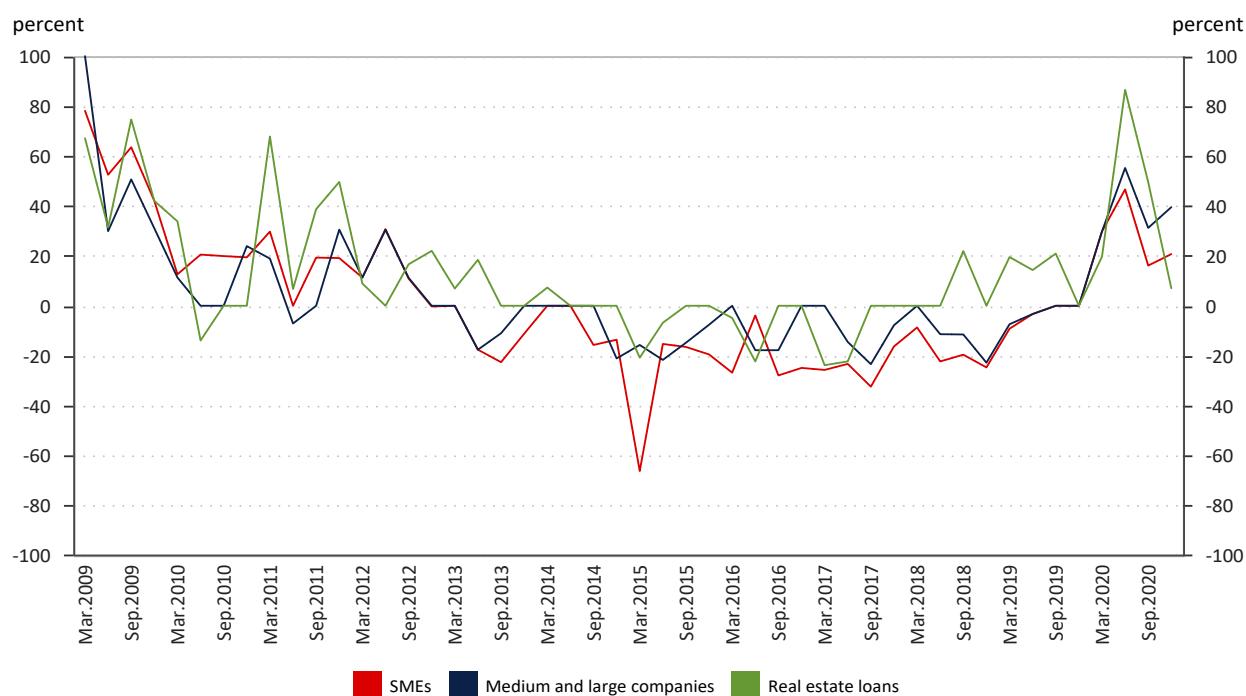
Source: MNB, Eurostat.

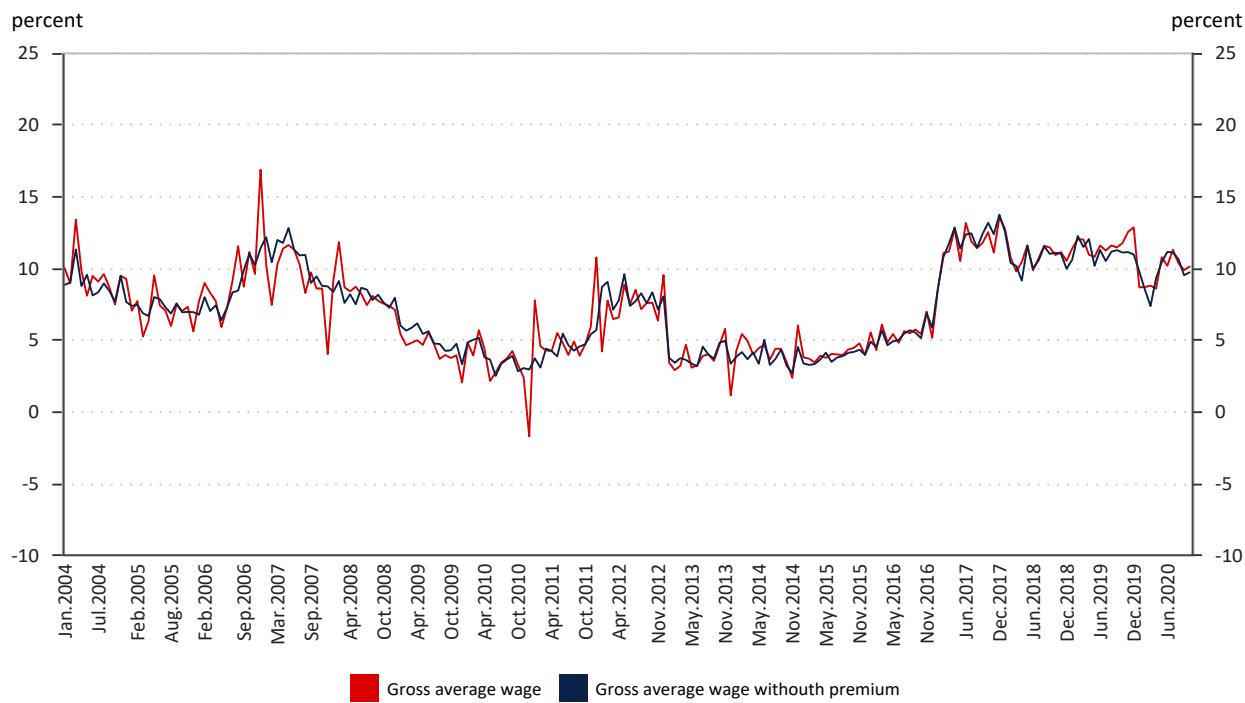
35. Net borrowing of the households



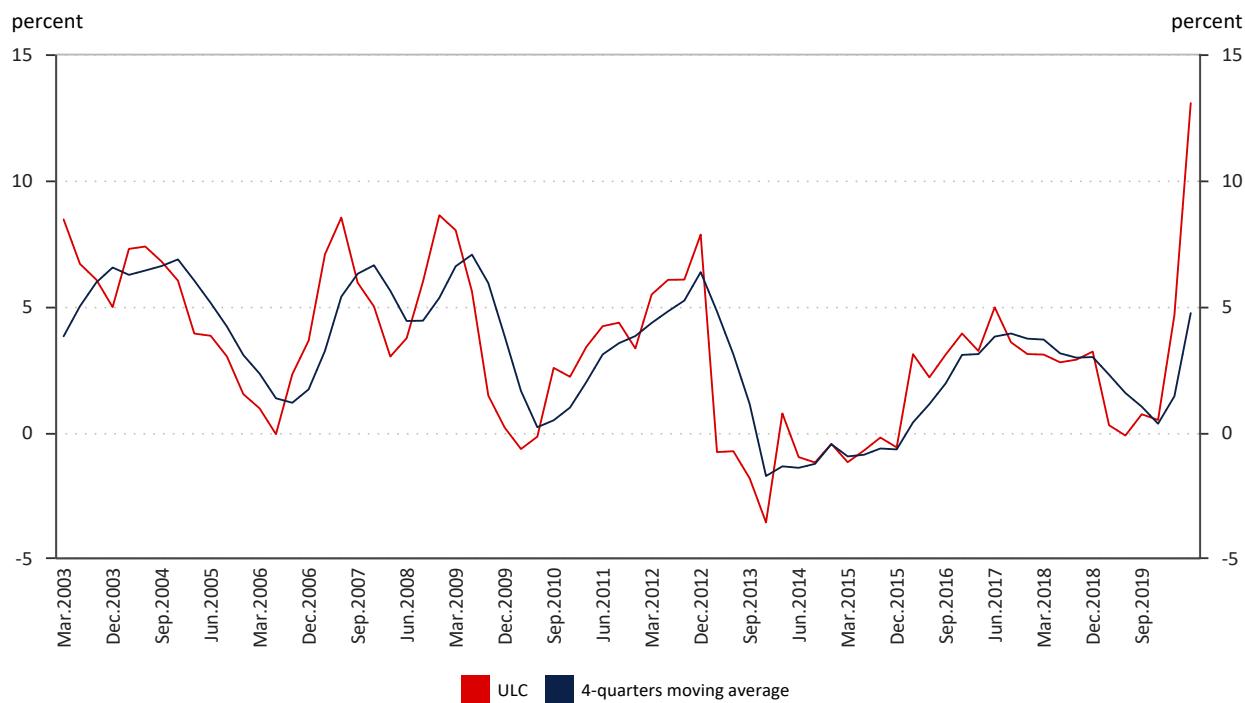
Source: MNB.

Notes: Figure showing underlying trends, adjusted for the impact of the forint conversion and settlement.

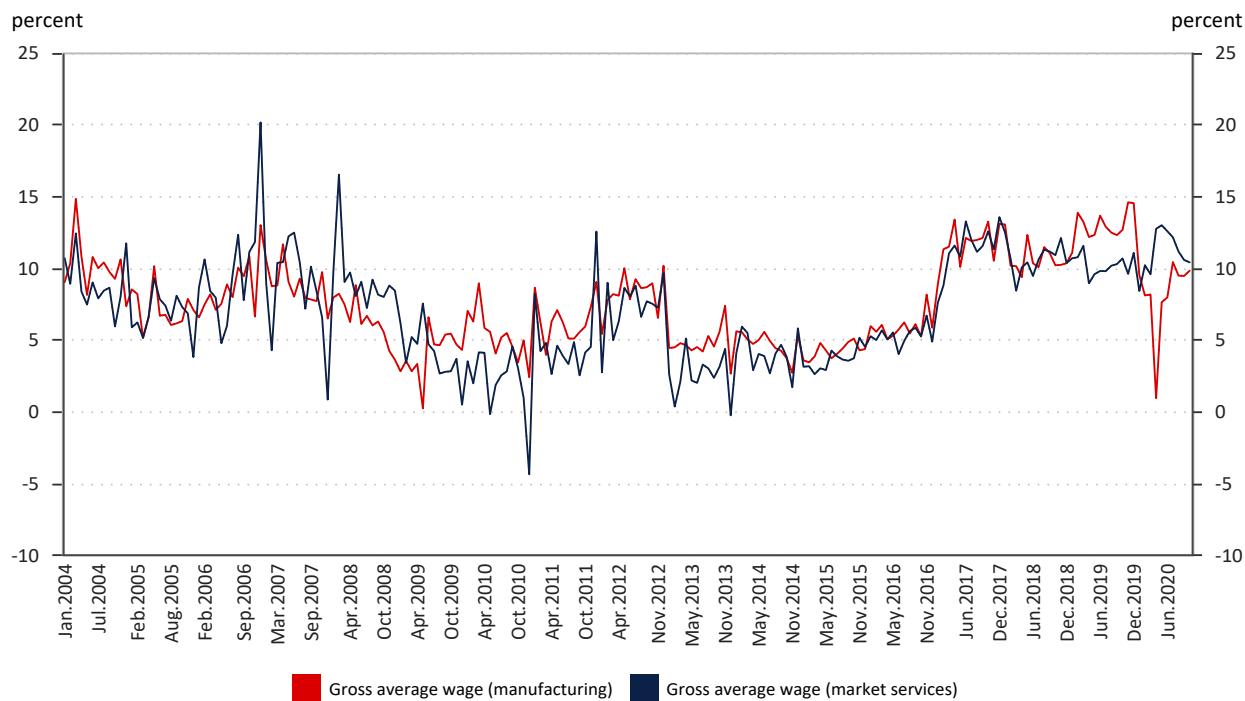
36. Creditworthiness standards and credit conditions in the household sector**37. Creditworthiness standards and credit conditions in the corporate sector**

38. Wage growth in private sector

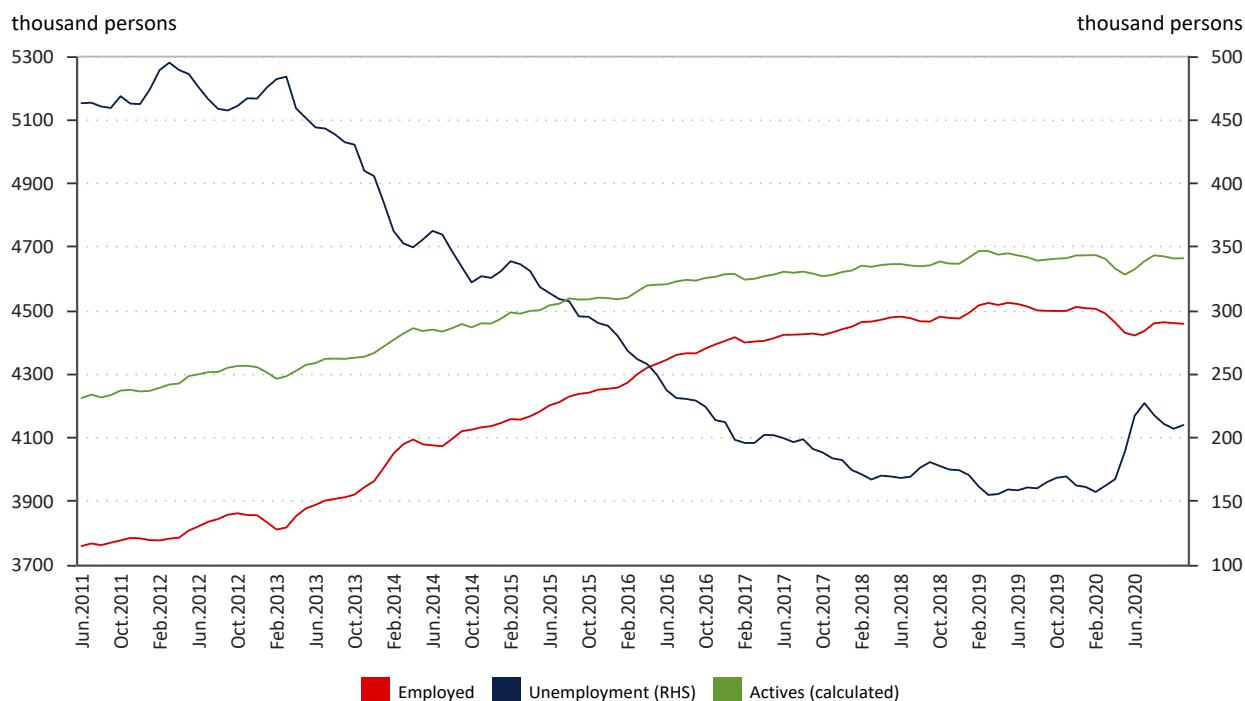
Source: HCSO, seasonally adjusted by MNB
Note: annual growth rates.

39. Unit labour cost in the private sector

Source: HCSO, seasonally adjusted by MNB
Note: annual growth rates.

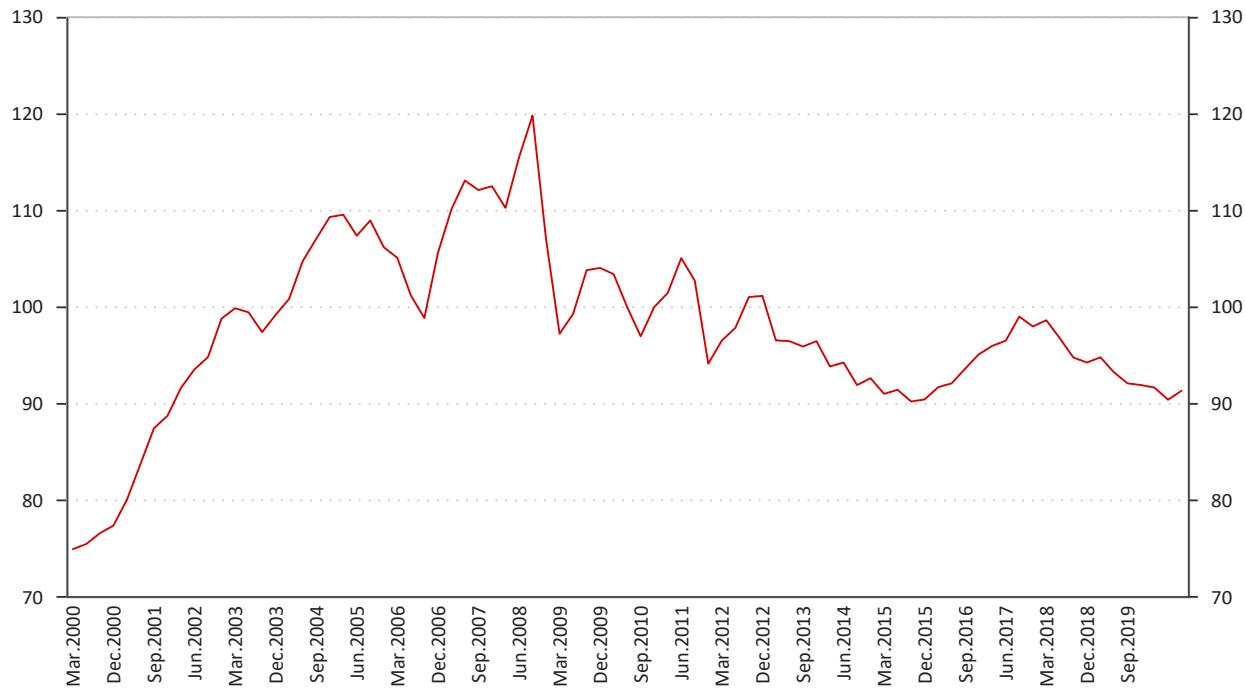
40. Wage growth in the manufacturing and market service sector

Source: MNB, HCSO.

41. Activity and unemployment

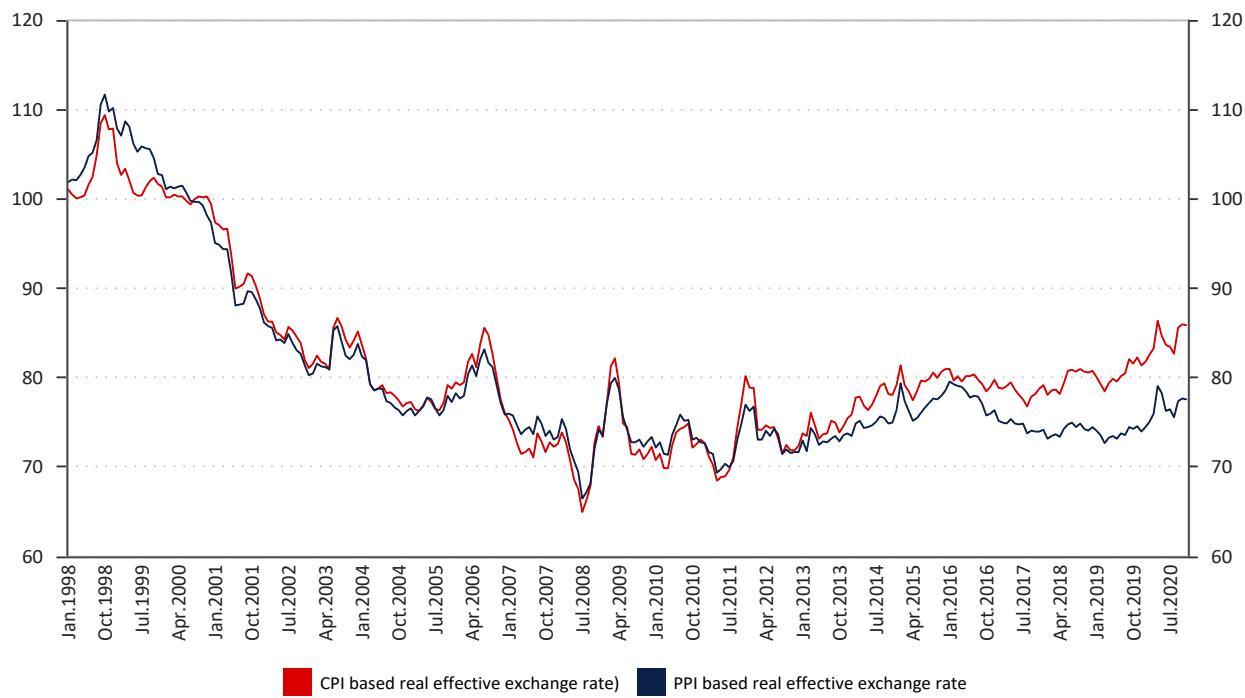
Source: HCSO.

Notes: levels, seasonally adjusted.

42. ULC based real effective exchange rate of the HUF

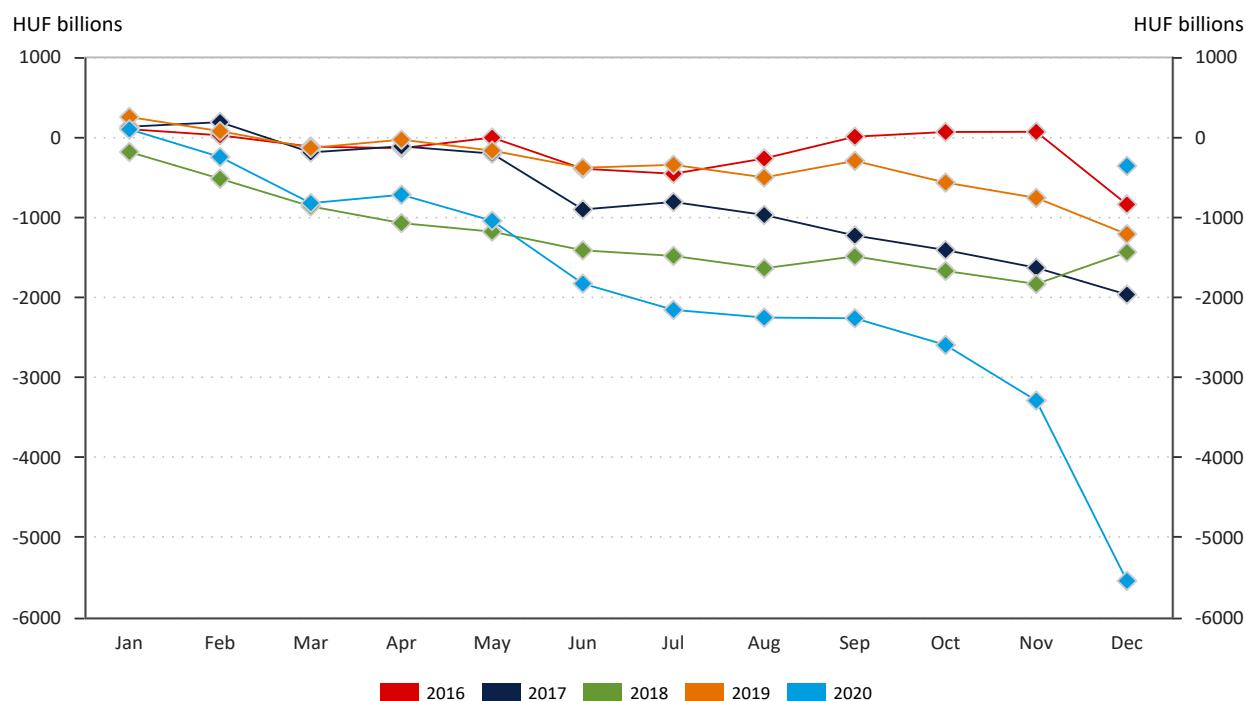
Source: Eurostat.

Note: average of year 2000 = 100%. Increase means real-effective appreciation of HUF.

43. CPI and PPI based real effective exchange rates of the HUF

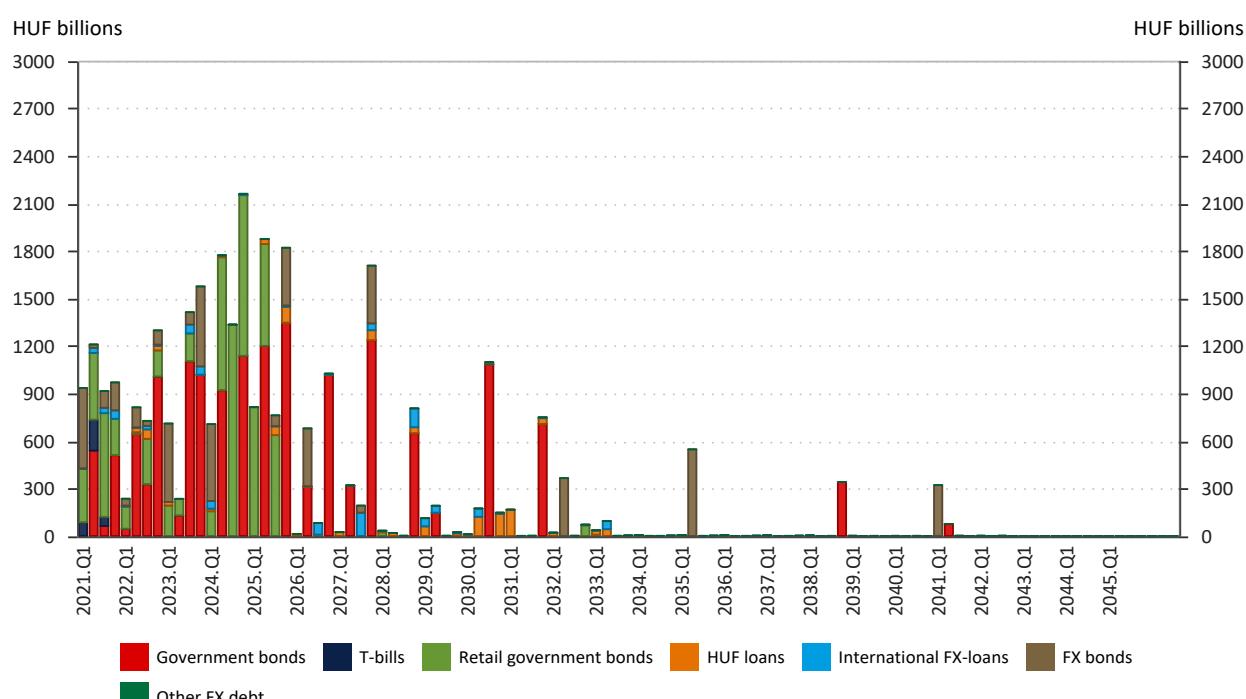
Source: HCSO.

Note: average of year 2000 = 100%. Increase means real-effective depreciation of HUF.

44. Monthly evolution of budget deficit

Source: Hungarian State Treasury

Note: Cumulated balance. For December 2020 the appropriation for cash-flow balance in the Budget Act is HUF -367 billion.

45. Quarterly maturity structure of the government debt

Source: MNB, ÁKK.

Note: Redemptions in the recent quarter are included.

46. The latest central projection of the MNB compared to other prognoses

	2021	2022	2023
CPI (annual average growth rate, %)			
MNB (December 2020)	3.4	3.5 - 3.6	2.9 - 3.0
Consensus Economics (December 2020)*	3.2 - 3.3 - 3.5	0.8 - 2.9 - 3.7	
European Commission (November 2020)	3.4	3.3	3.0
IMF (October 2020)	3.7	3.4	3
OECD (December 2020)	3.5	3.3	3.6
Reuters survey (December 2020)*	3.0 - 3.3 - 3.7	2.8 - 3.2 - 3.8	3.0 - 3.2 - 3.5
GDP (annual growth rate, %)			
MNB (December 2020)	(-6.5) - (-6.0)	3.5 - 6.0	5.0 - 5.5
Consensus Economics (December 2020)*	(-6.8) - (-5.9) - (-5.1)	3.0 - 4.7 - 7.2	
European Commission (November 2020)	-6.4	4.0	4.5
IMF (October 2020)	-6.1	3.9	4
OECD (December 2020)	-5.7	2.6	3.4
Reuters survey (December 2020)*	(-6.6) - (-5.9) - (-4.5)	3.5 - 4.5 - 7.1	3.6 - 4.7 - 6.0
Current account balance (as a percentage of GDP)			
MNB (December 2020)	(-0.7) - (-0.6)	(-0.4) - (-0.2)	(-0.3) - (-0.1)
European Commission (November 2020)	-1.1	-0.3	-0.3
IMF (October 2020)	-1.6	-0.9	-0.6
OECD (December 2020)	-2.5	-2.0	-1.3
Budget deficit (ESA-2010 method*, a percentage of GDP, with complete cancellation of free reserves)			
MNB (December 2020)	(-9.0) - (-8.0)	(-6.5) - (-6.0)	(-4.0) - (-3.0)
Consensus Economics (December 2020)*	(-9.0) - (-8.3) - (-6.9)	(-7.5) - (-5.6) - (-3.9)	
European Commission (November 2020)	-8.4	-5.4	-4.3
IMF (October 2020)	-8.3	-3.9	-2.3
OECD (December 2020)	-8.0	-7.5	-6.0
Reuters survey (December 2020)*	(-9.0) - (-8.2) - (-5.9)	(-7.0) - (-5.2) - (-3.8)	(-4.5) - (-3.3) - (-1.5)
Forecasts on the GDP growth rate of Hungary's trade partners (annual growth rate, %)			
MNB (December 2020)	(-6.5) - (-6.0)	2.8 - 5.7	3.7 - 4.8
ECB (December 2020)	(-7.6) - (-7.3) - (-7.2)	0.4 - 3.9 - 6.0	3.0 - 4.2 - 4.3
Consensus Economics (December 2020)**	-5.8	4.0	
European Commission (November 2020)**	-6.4	3.9	3.1
IMF (October 2020)**	-6.2	4.6	3.2

Explanation:

*The lower value of the forecast band shows the ESA balance if the Country Protection Fund is used, while the higher value shows the ESA balance if the Country Protection Fund is not used.

**Values calculated by the MNB; the projections of the named institutions for the relevant countries are adjusted with the weighting system of the MNB, which is also used for the calculation of the bank's own external demand indices. Certain institutions do not prepare forecasts for all partner countries.

Note:

For the Reuters and Consensus Economics surveys, in addition to the average value of the analysed replies, we also indicate the lowest and the highest values to illustrate the distribution of the data.

Source: Consensus Economics, European Commission, IMF, OECD, Reuters poll

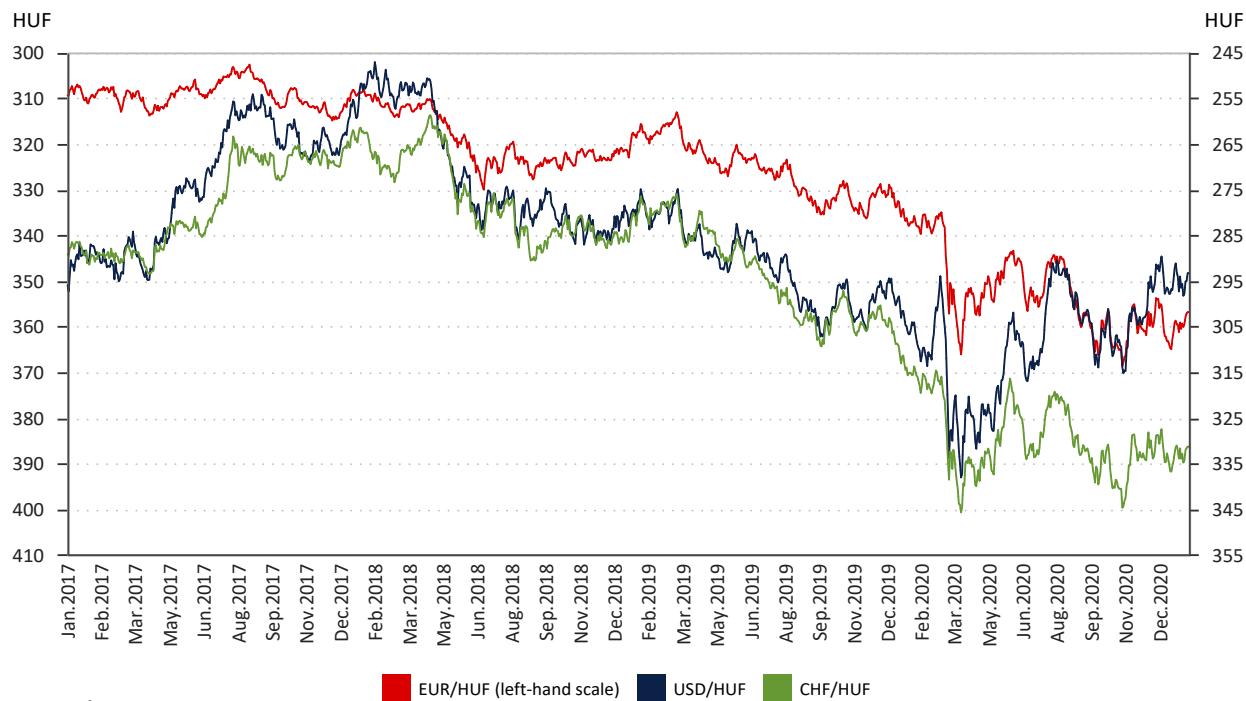
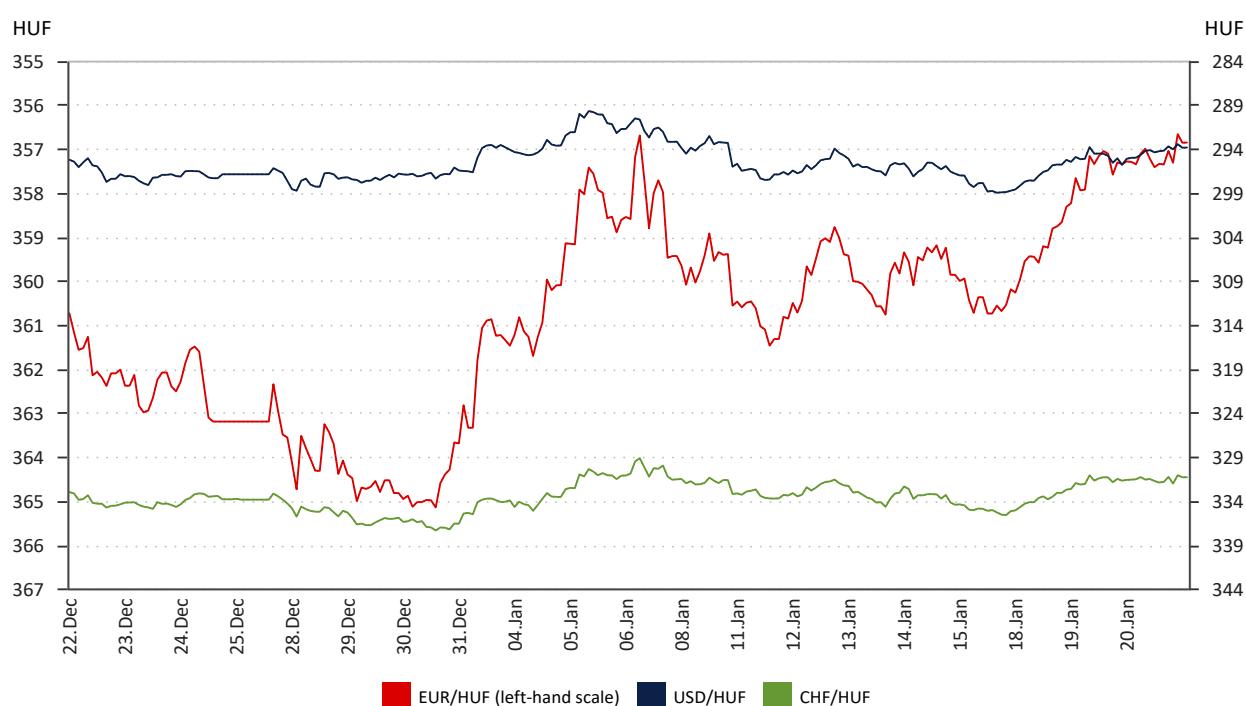
47. Domestic financial developments*Overview*

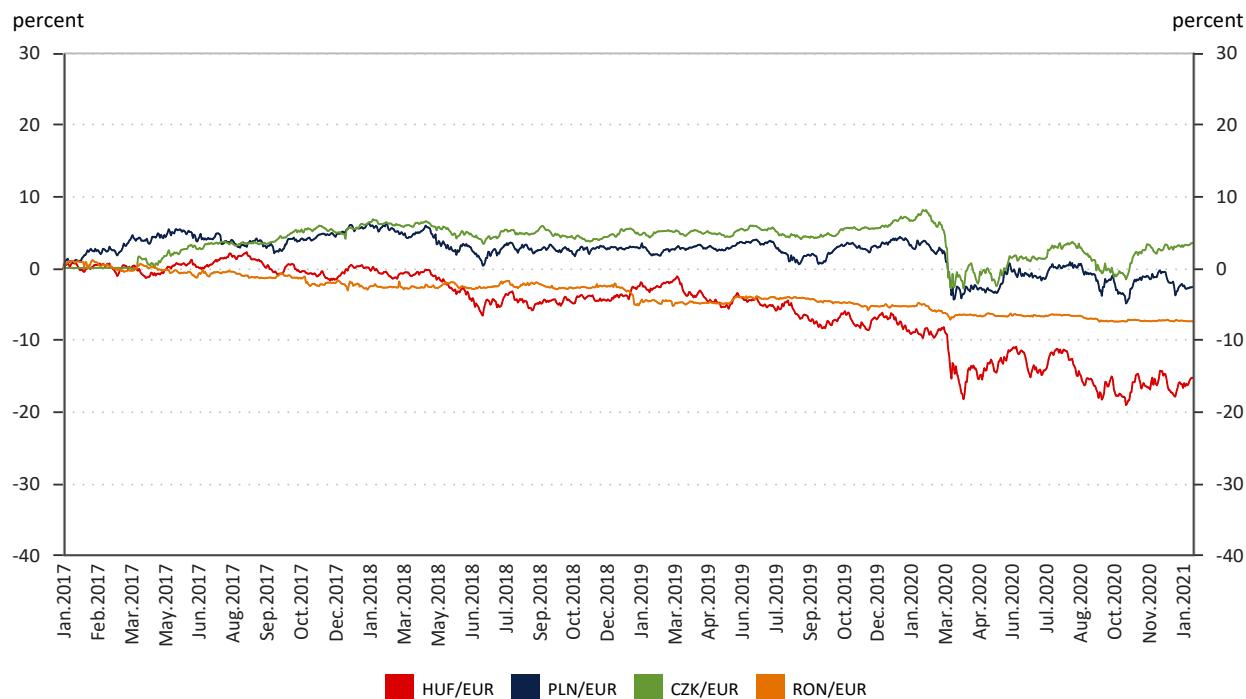
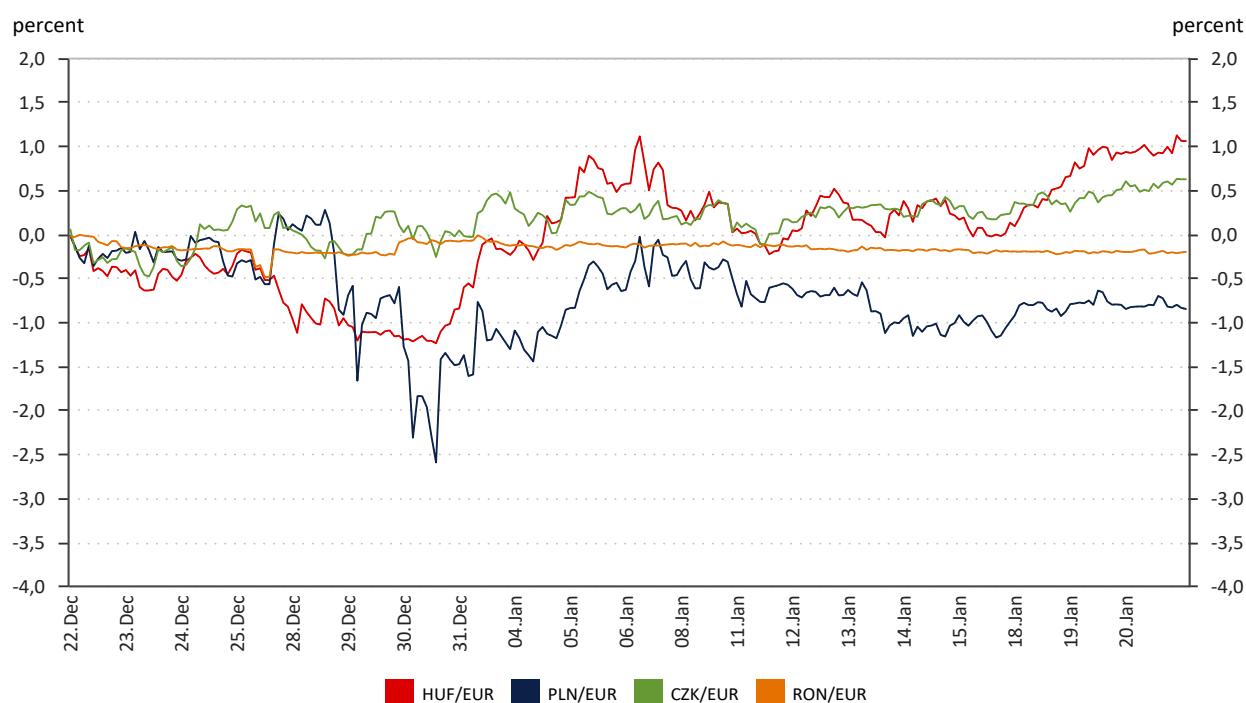
Indicator	One month ago	One week ago	Current
HUF/EUR spot exchange rate	360.6	359.6	357.3
Skewness of expectations on HUF/EUR exchange rate	1.04	0.97	0.98
HUF-positions of foreign investors (HUF billions)	-2023	-2051	-2027
Forward positions of domestic investors (HUF billions)	1089	1070	1045
MNB base rate (%)	0.60	0.60	0.60
Expected short-term interbank rate at the end of the year (%)*	0.74	0.82	0.85
3-months interbank rate (%)	0.72	0.77	0.77
3x6 FRA rate (%)	0.65	0.72	0.72
3 month T-bill yield (%)	0.28	0.28	0.34
5 year T-bond yield (%)	1.37	1.46	1.46
Slope of yield curve (10Y-1Y, bp)	170	194	192
O/N FX-swap spread (bp)	26	16	25
3-month FX-swap spread (bp)	33	25	17
5-year FX-swap spread (bp)	2	4	5
5-year CDS spread (bp)	60	60	60
5x5 government bond spread (bp)**	219	243	233
Average spread of USD-denominated government bonds (bp)	93	113	112
Foreign holdings of HUF-government securities (HUF billion)	4484	4737	4793

Notes:

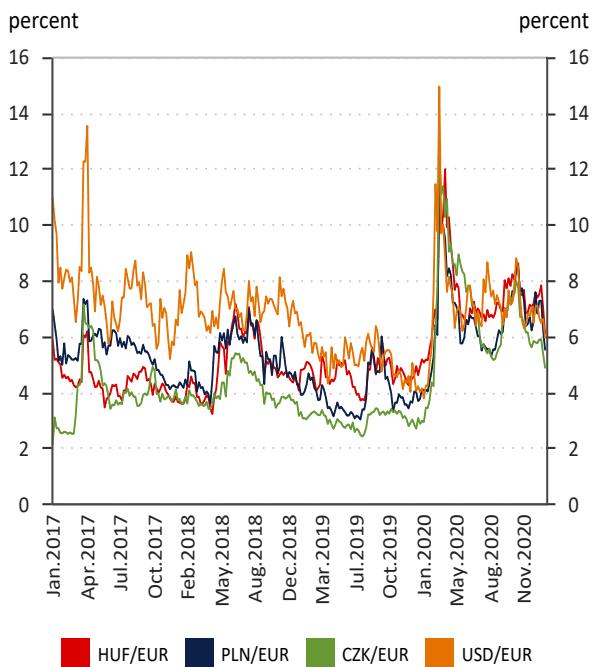
* Based on forward yield curve.

** Over German yield.

48. Developments in HUF exchange rate**49. Developments in HUF exchange rate (last month)**

50. Emerging markets exchange rate**51. Emerging markets exchange rate (last month)**

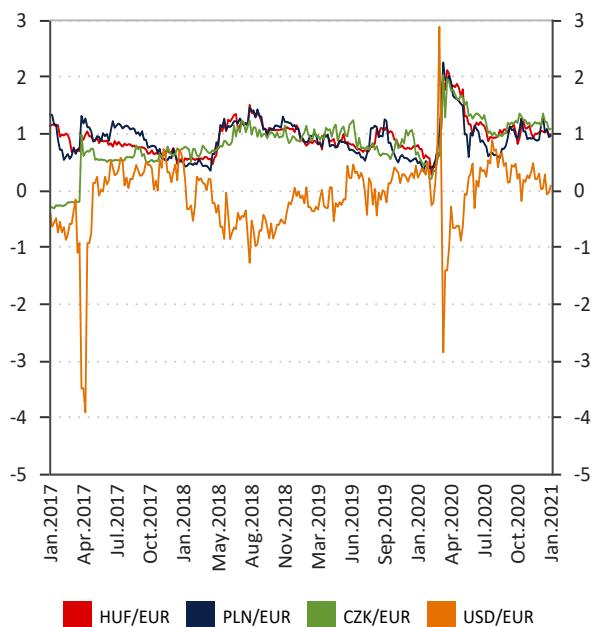
52. Volatility of exchange rate expectations



Source: Bloomberg

Note: implied volatility (based on foreign exchange option quotes) can be interpreted as an indicator of risk perceived by the market.

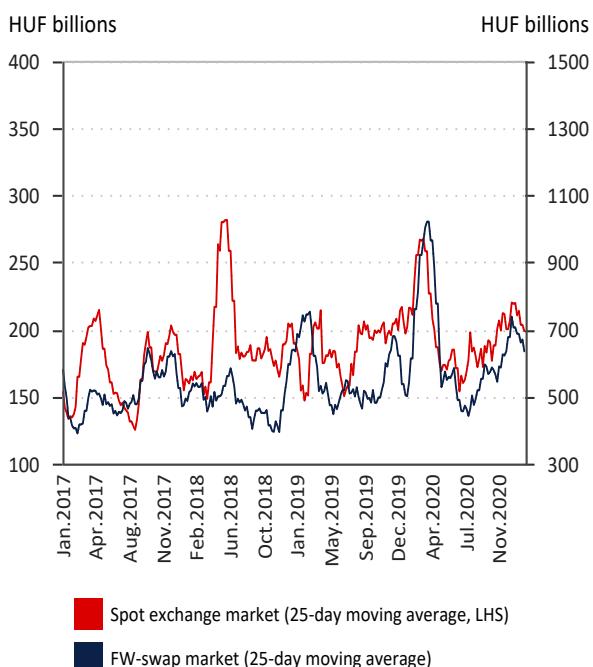
53. Skewness of exchange rate expectations



Source: Bloomberg

Notes: based on option quotes for 1-month 2SD risk reversal; skewness=RR/Volatility*10. Risk reversal can be regarded as a nominal indicator for the skewness of the distribution of exchange rate expectations, while skewness eliminates the effect of changes in volatility.

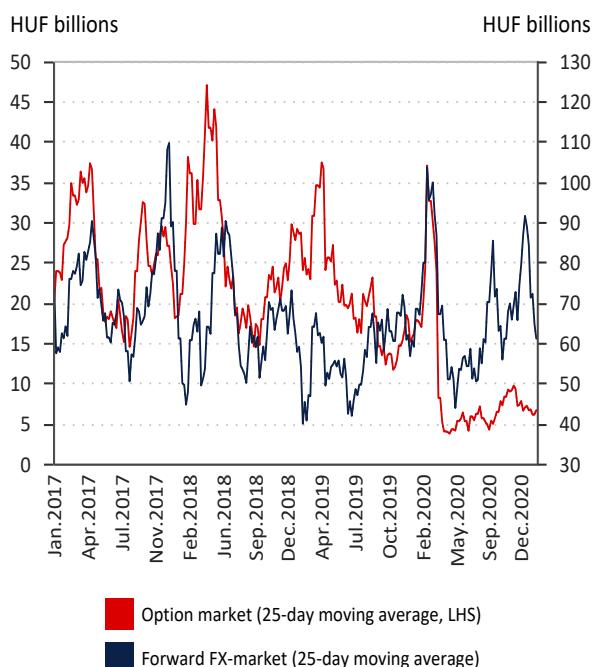
54. Turnover on the spot and the FX-swap market



Source: MNB

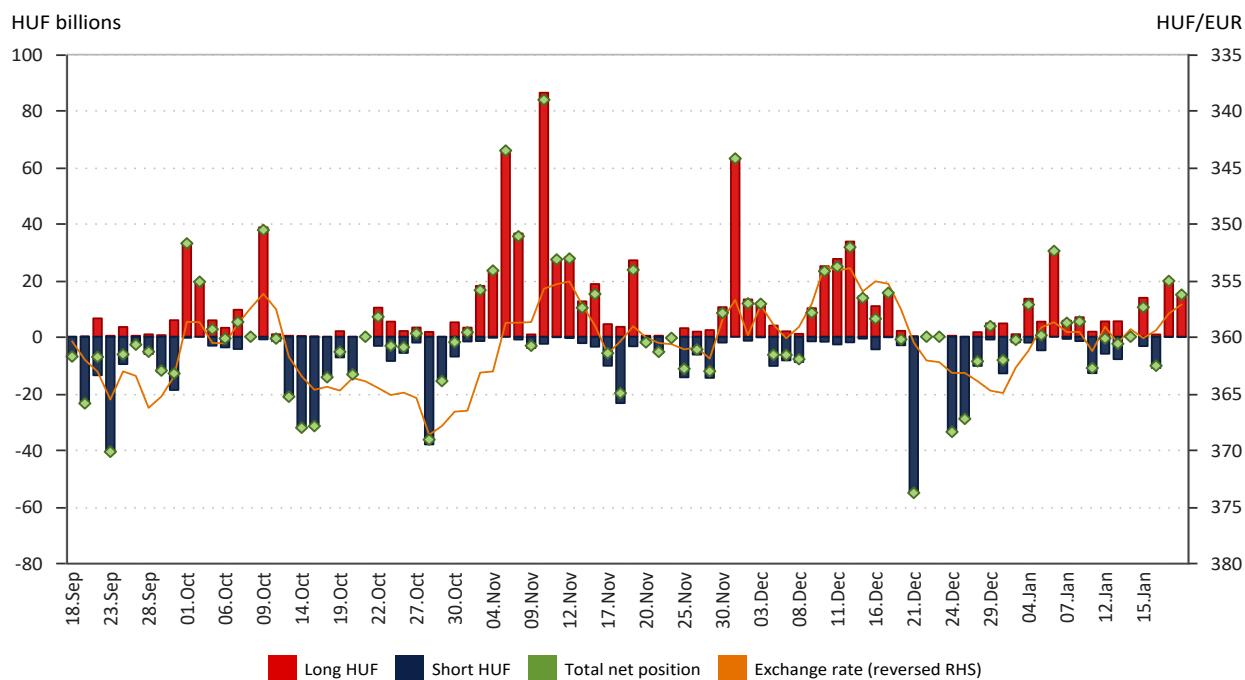
Notes: forint against foreign exchange deals by domestic banks; moving averages calculated based on deal date data.

55. Turnover on the forward and option market



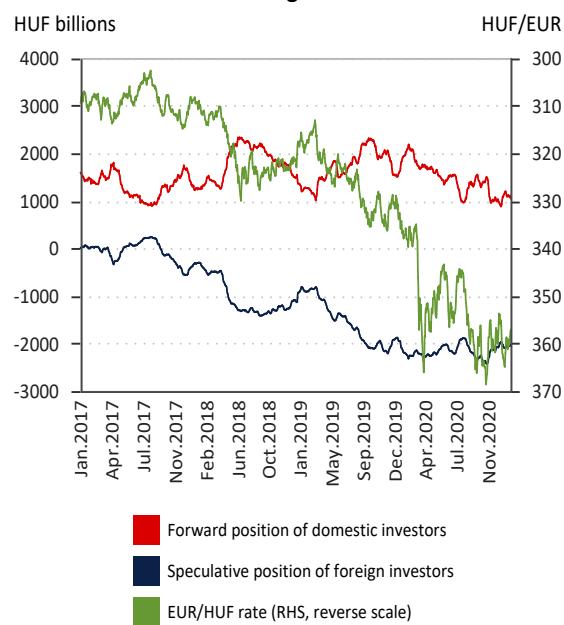
Source: MNB

Note: forint against foreign exchange deals by domestic banks; moving averages calculated based on deal date data.

56. Open FX-positions of non-residents in HUF

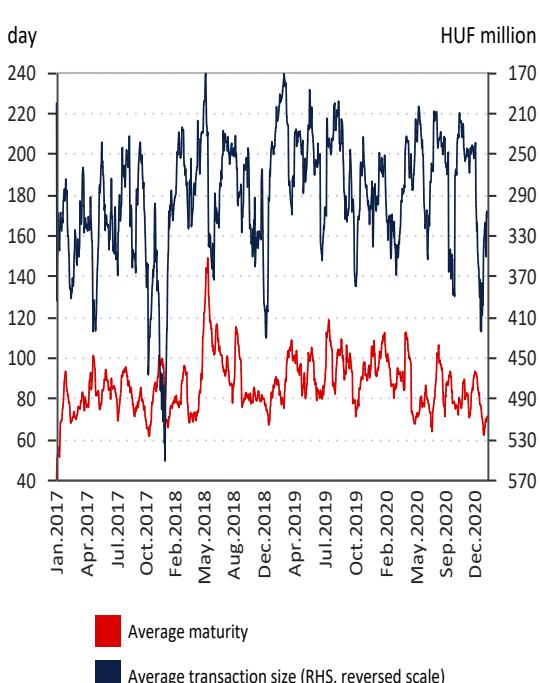
Source: MNB.

Note: Based on the daily FX reports of the transactions with non-residents of credit institutions. Net HUF positions are calculated based on the change of cumulative FX-swap stocks and spot positions of non-resident market participants. In case of positive value non-resident market participants extended long HUF positions, while in case of negative value short HUF positions were dominant. Positions are presented on spot deal dates.

57. Cumulated positions of non-residents in HUF and the EURHUF exchange rate

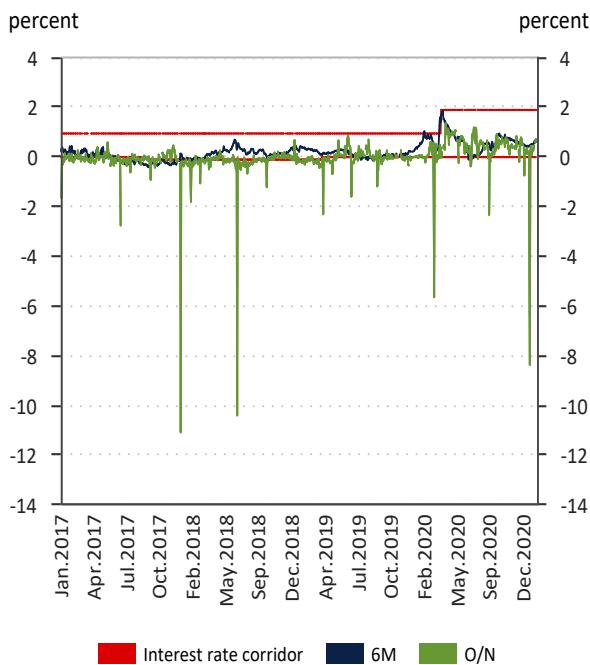
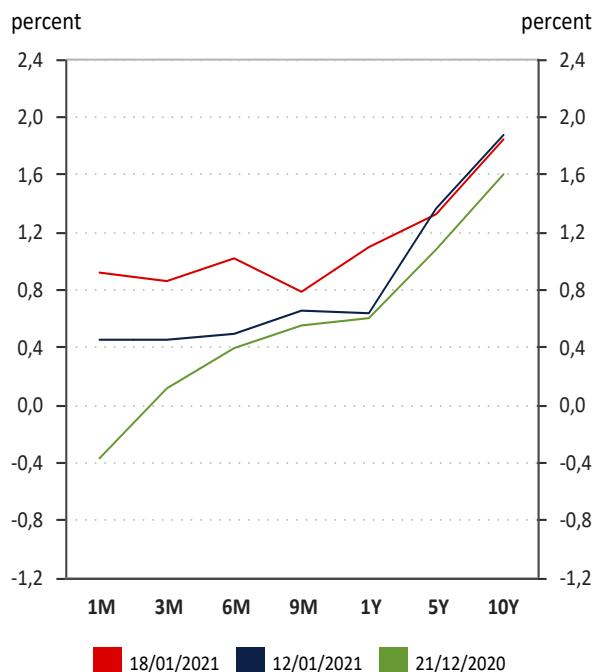
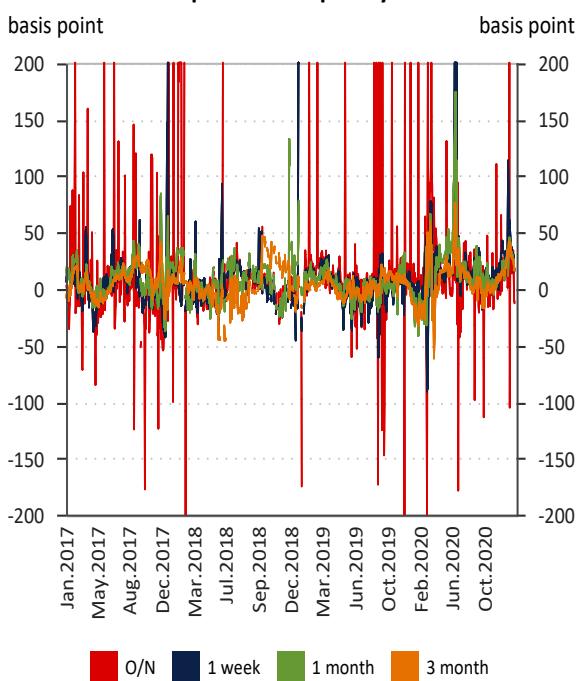
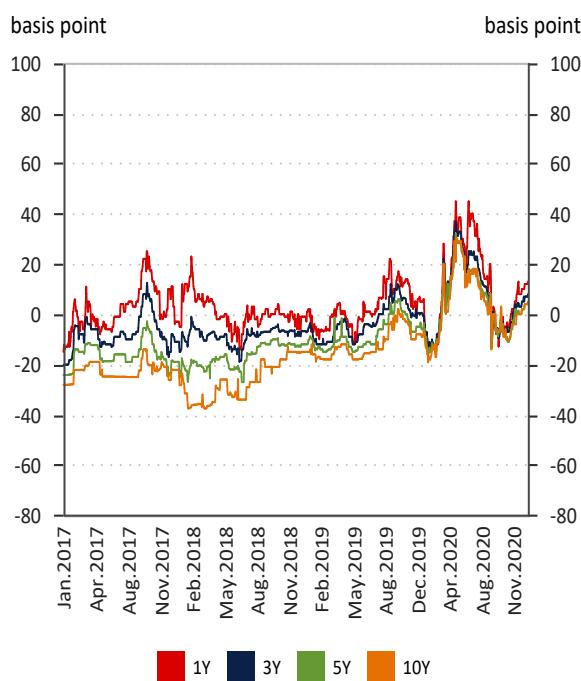
Source: MNB

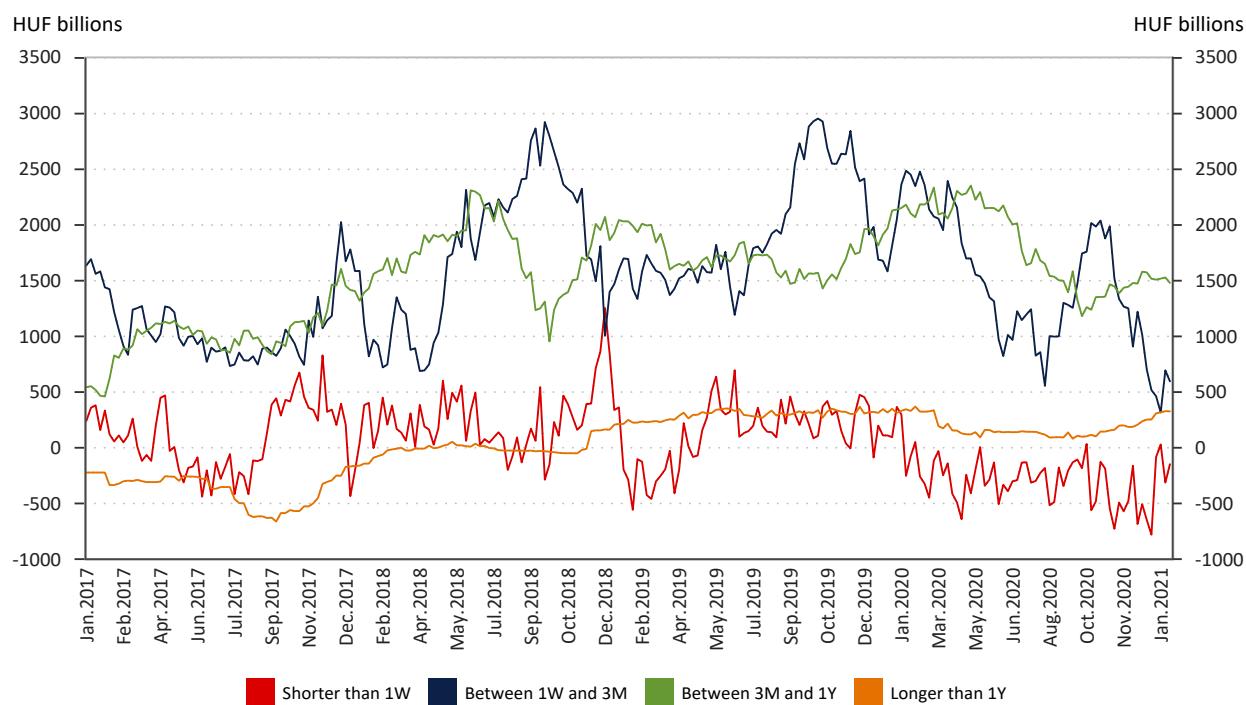
Note: Cumulative position, based on the daily FX reports of the transactions with non-residents of credit institutions. Net HUF positions are calculated based on the change of cumulative FX-swap stocks and spot positions of non-resident market participants. Due to the characteristics of the reports the change in the stocks is relevant mainly to evaluate the direction of short-term fluctuations.

58. Forward agreements of non-financial institutions

Source: MNB

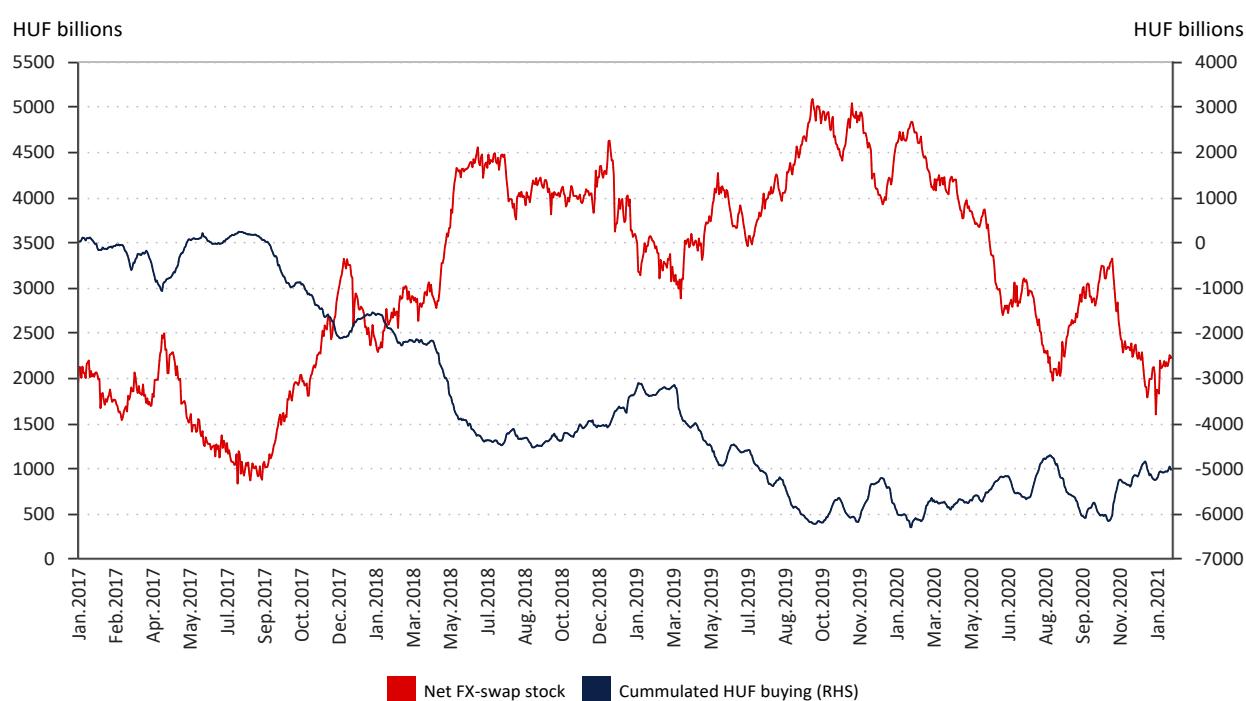
Note: 20-day moving averages.

59. Implied HUF rates on FX-swap market**60. Implied yield curve on FX-swap markets****61. Difference between short-term interbank yields and FX-swap market implied yields****62. Development of the EUR/HUF basis swap spread**

63. Net FX-swap stock of non-residents by maturity

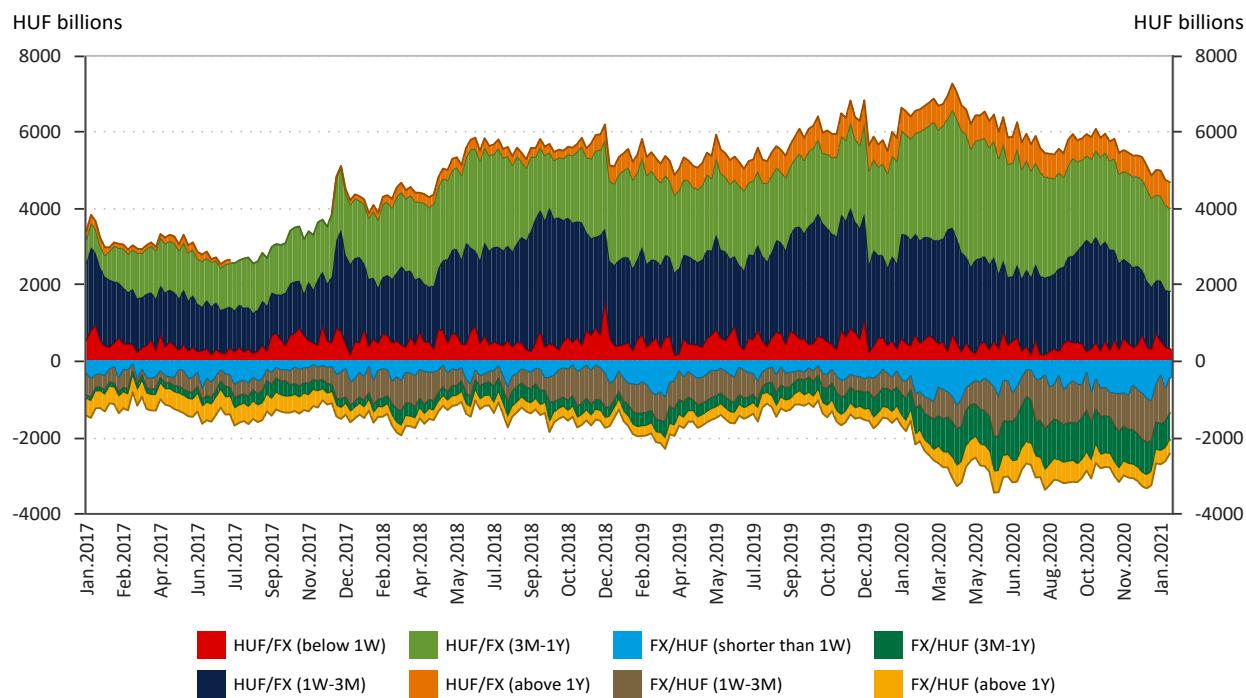
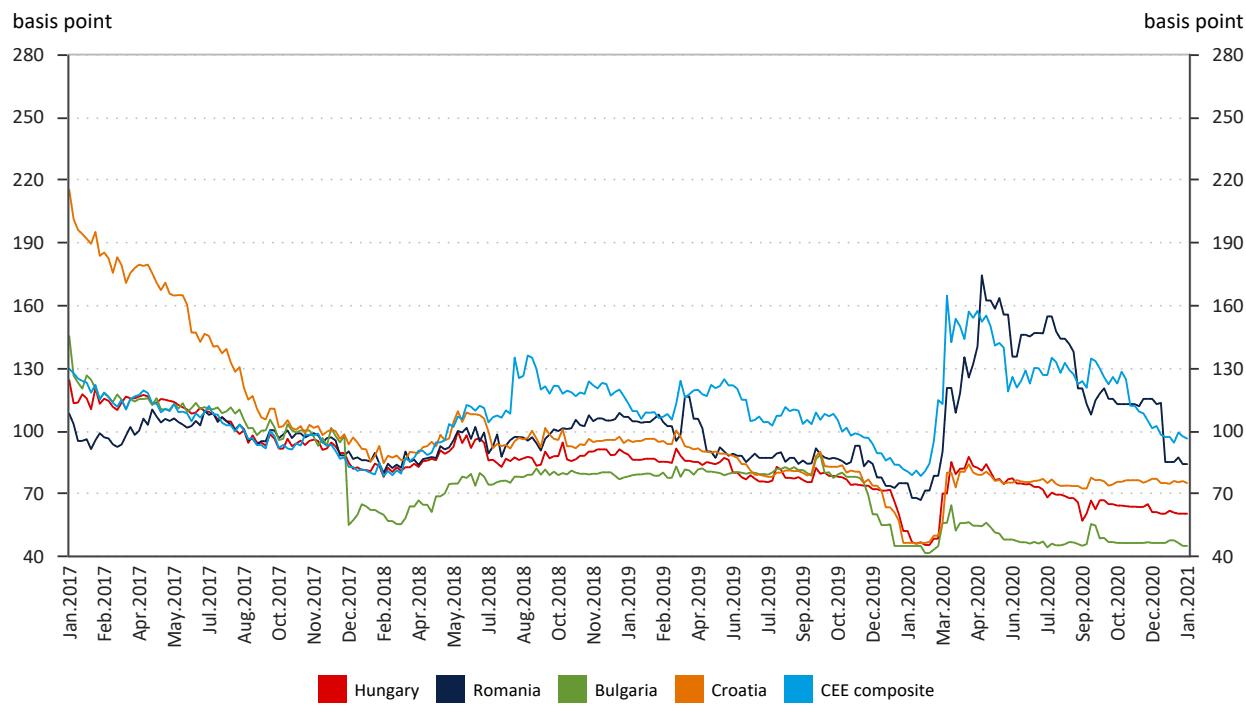
Source: MNB

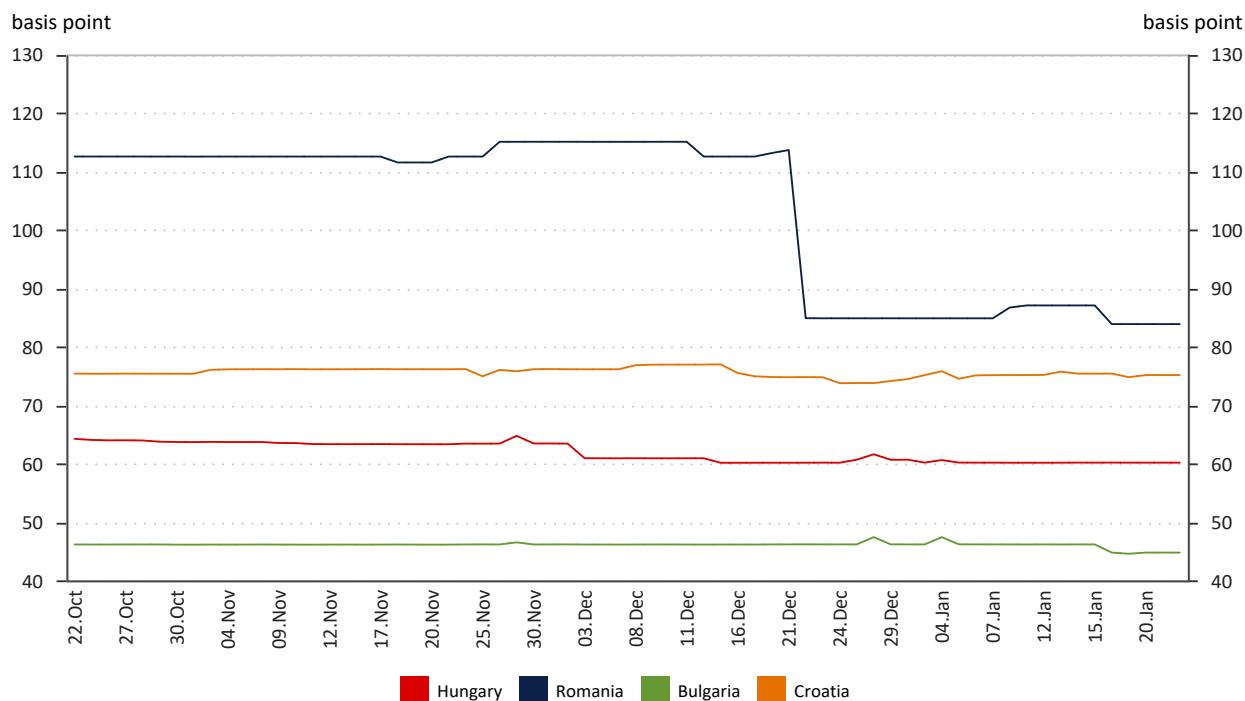
Note: net FX-swap stock is defined as a difference of HUF-buying and FX-buying transactions.

64. Forint FX-swap stock and cumulated HUF purchase of non-residents

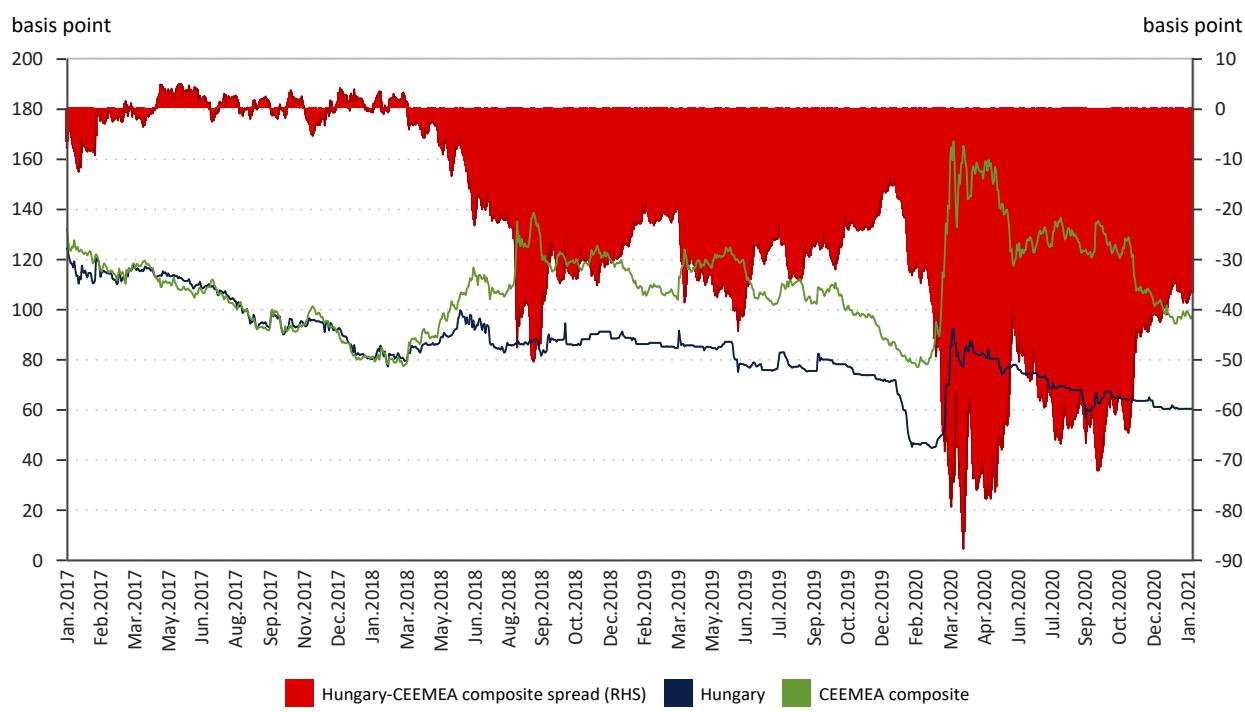
Source: MNB

Notes: Based on the daily FX reports of the transactions with non-residents of credit institutions. An increase in the net swap stock stands for swaps with an excess of swap transactions with long forint spot leg, while a decrease stands for swaps with an excess of swap stock with short forint spot leg.

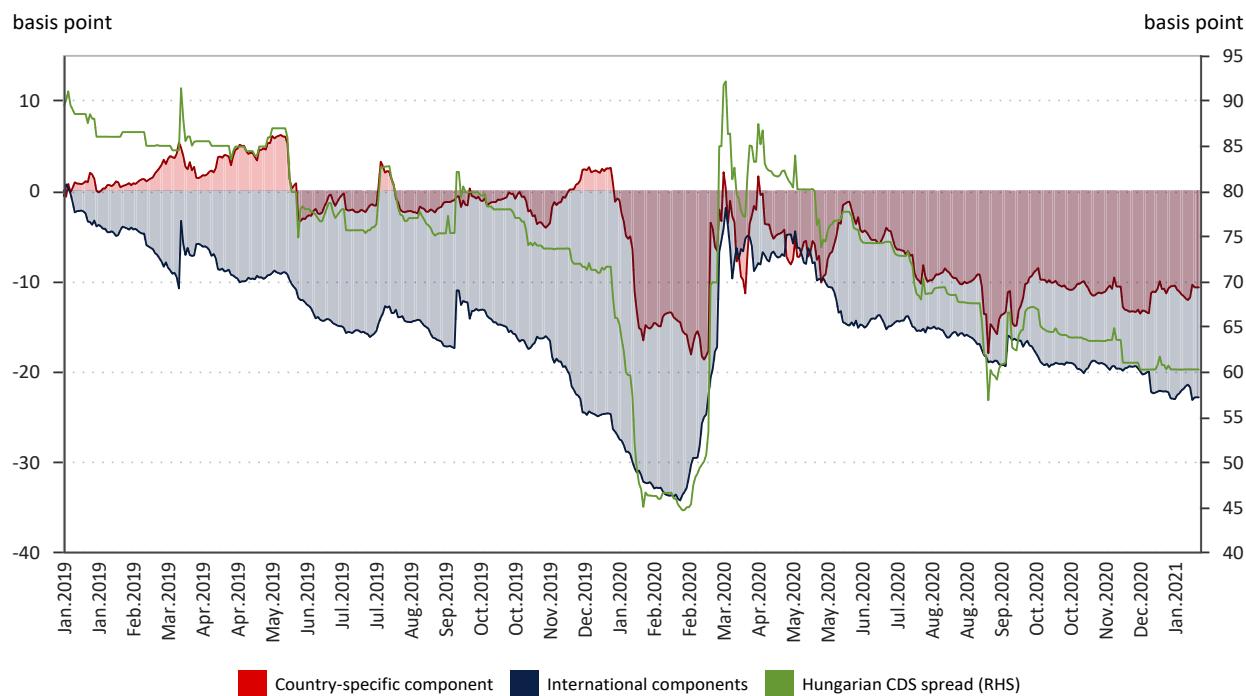
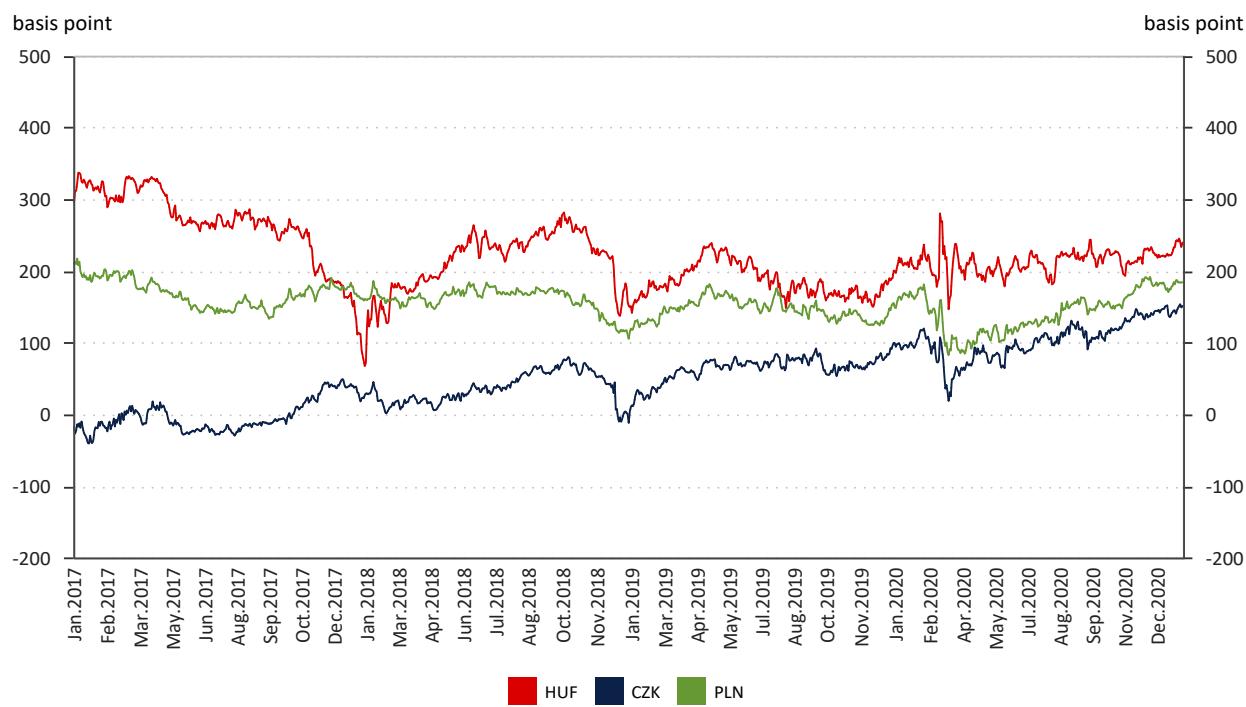
65. Gross FX-swap stocks of foreign investors by maturity**66. 5 year sovereign CDS spreads in CEE**

67. 5 year sovereign CDS spreads in CEE (last months)

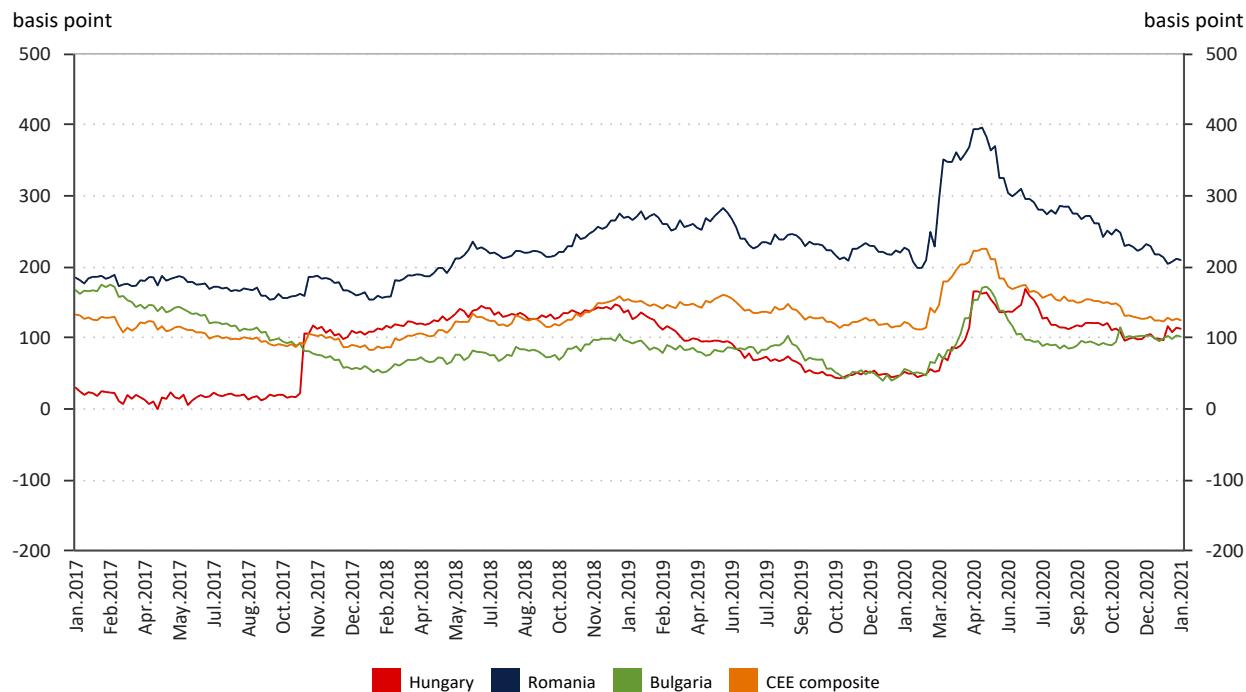
Source: Refinitiv.

68. 5 year sovereign CDS spread in Hungary versus CEEMEA composite index

Source: Refinitiv.

69. Components of Hungarian 5 year sovereign CDS**70. 5 year implied spreads over euro rates in 5 year time**

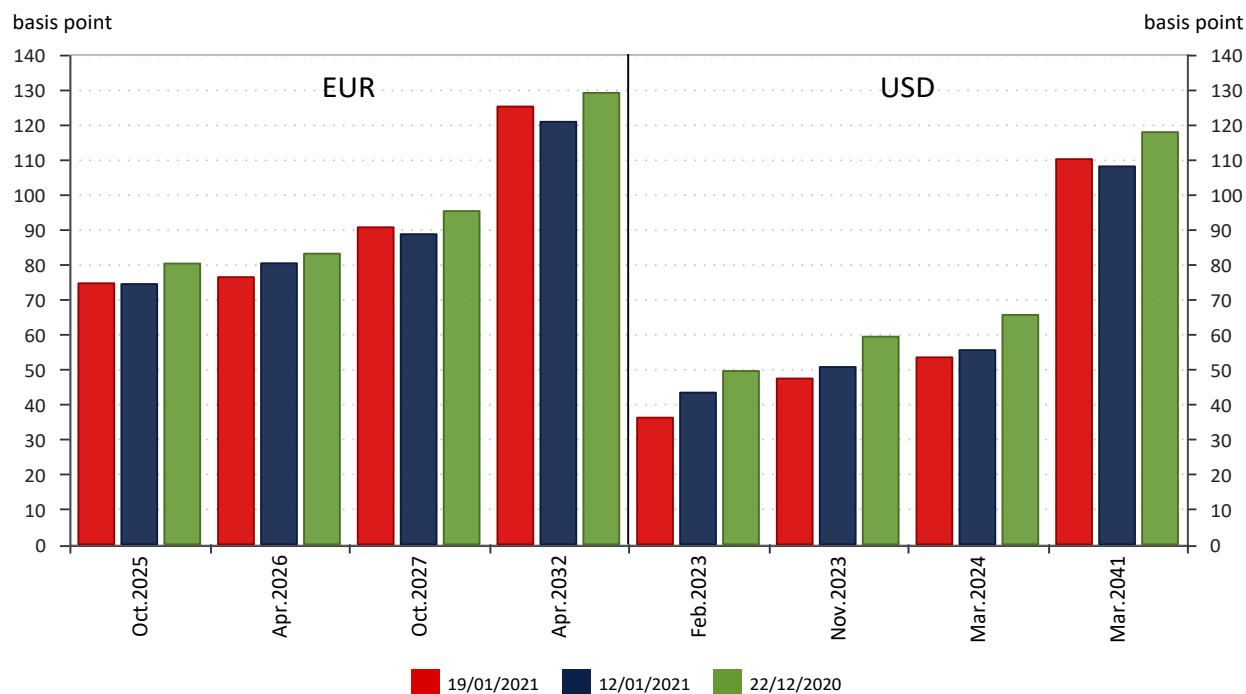
71. Emerging markets FX denominated government bond spreads



Source: Refinitiv Datastream.

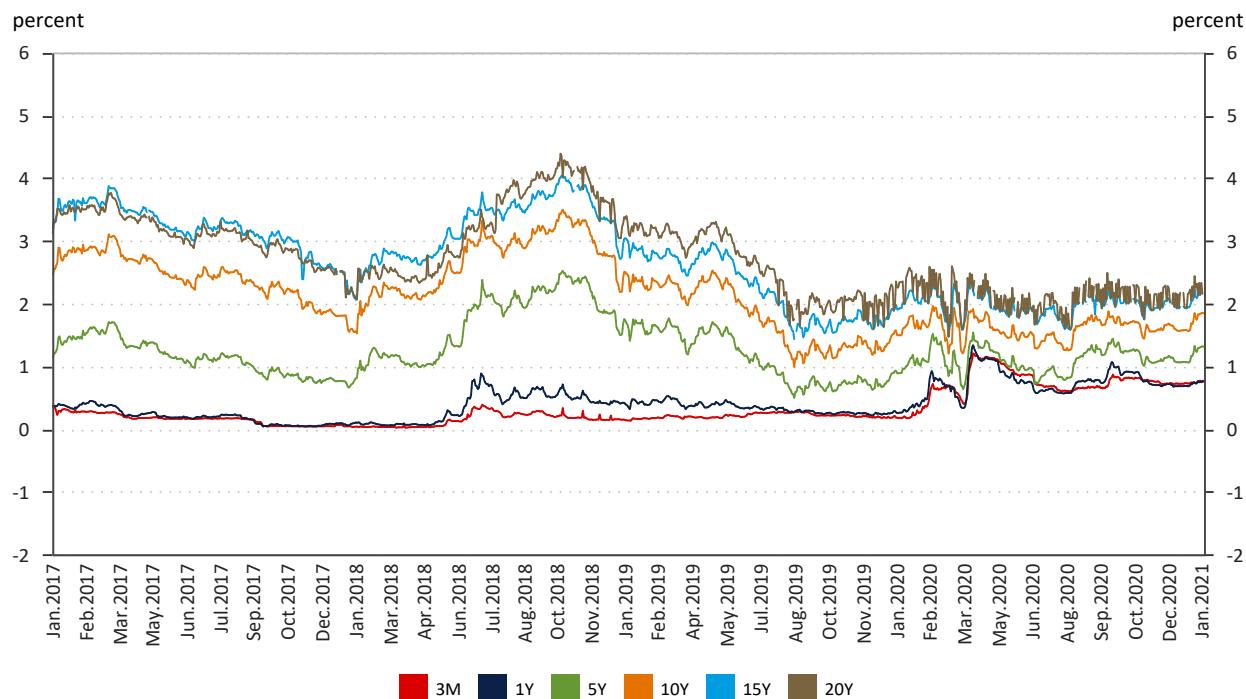
Notes: calculated from JP Morgan Euro EMBI data. The series are differences between euro denominated (liquid) foreign currency bond yields and euro zero coupon yields of the corresponding maturities. Different durations may result in significant difference in the level of spreads.

72. Domestic FX-government bond

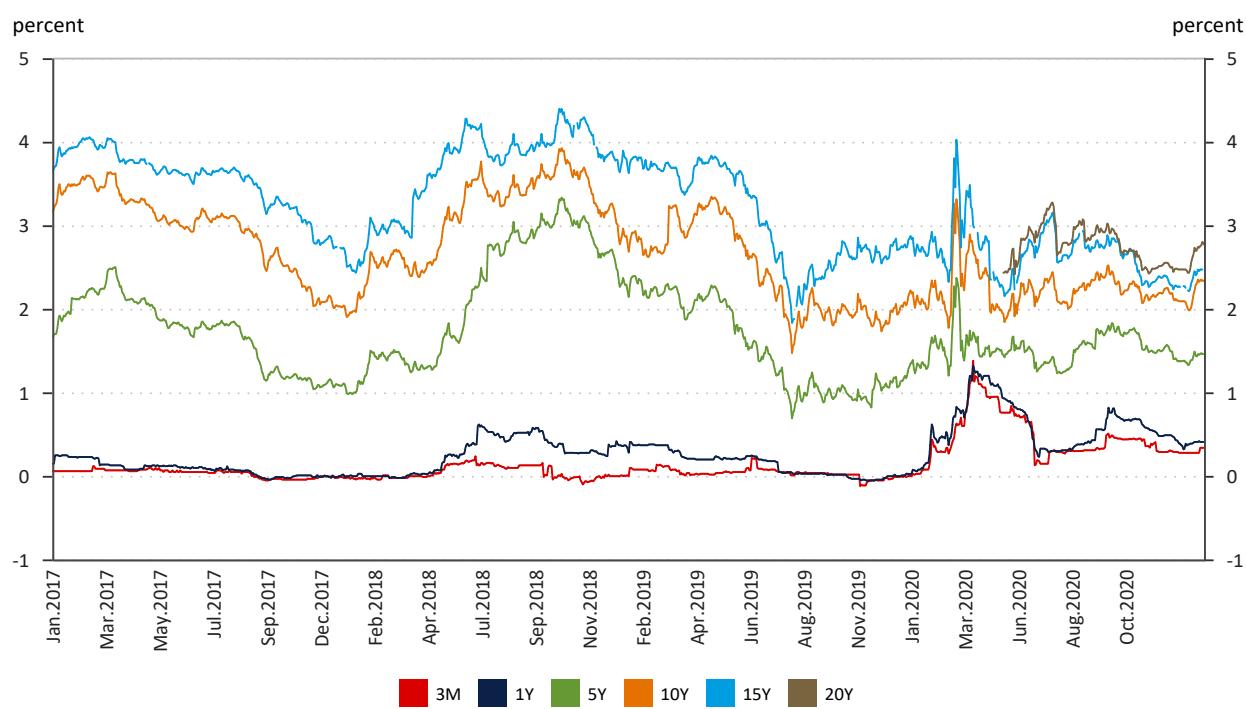


Source: Bloomberg.

Notes: Spread between EUR and USD denominated FX-bonds and the equivalent US T-bond or euro yields chosen by Bloomberg. We present bonds grouped by currency in order of maturity.

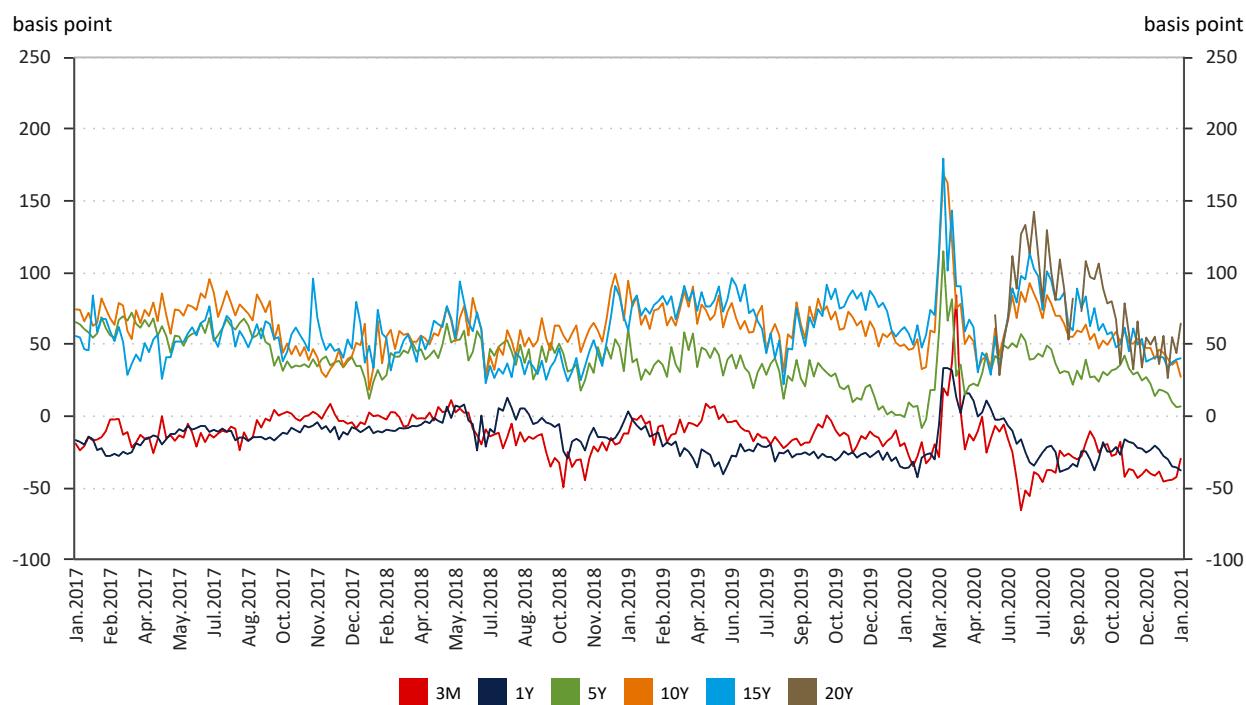
73. Interbank yields

Source: Refinitiv.

74. Yields of benchmark government securities

Source: Refinitiv.

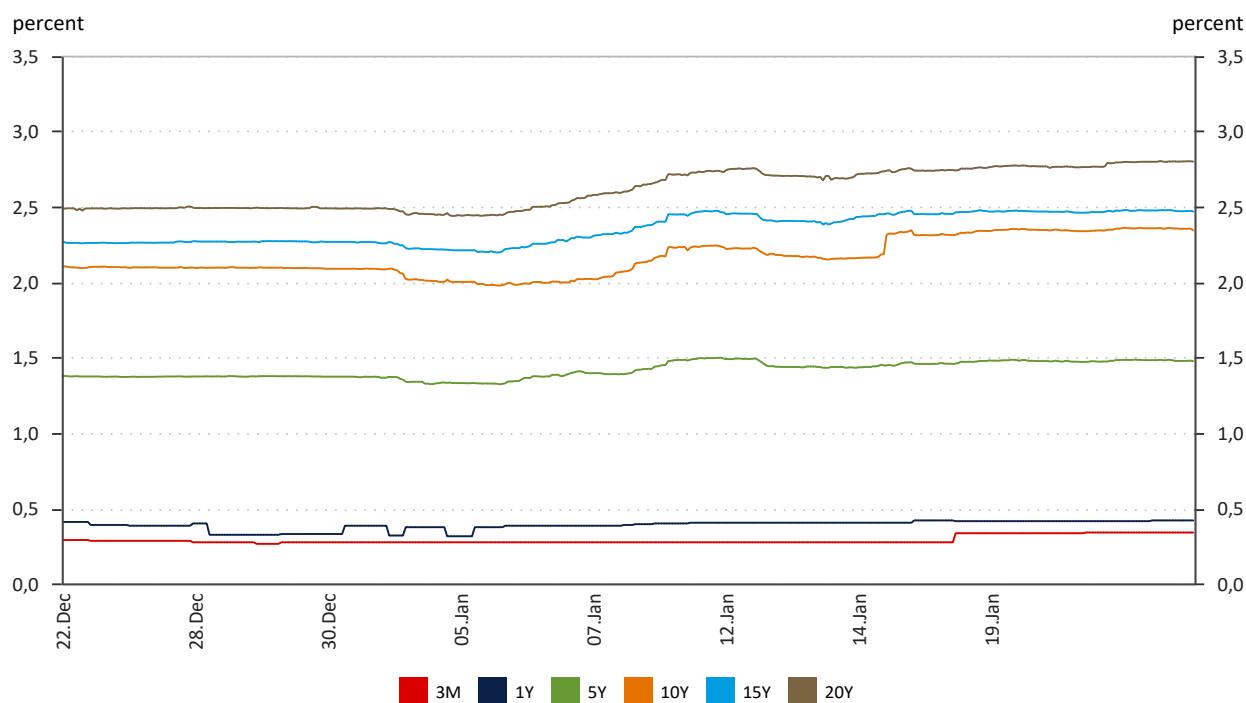
75. Government securities - interbank yield spreads



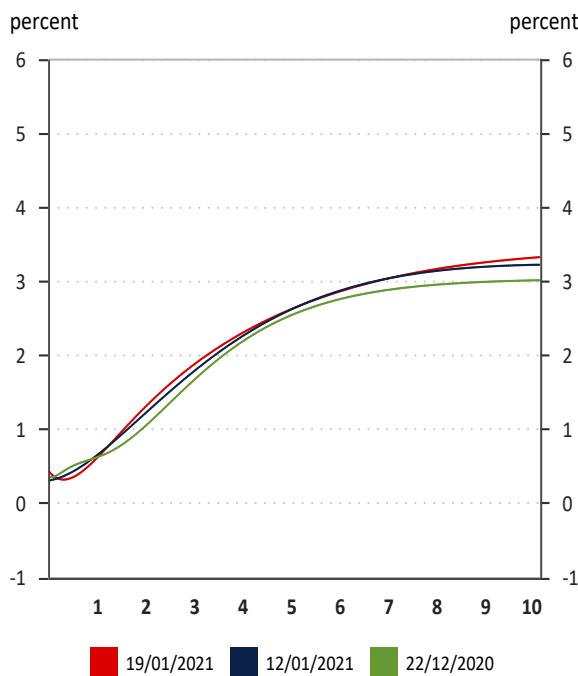
Source: Refinitiv

Note: Spread between the benchmark government bond yield of the given maturity and the interbank rates.

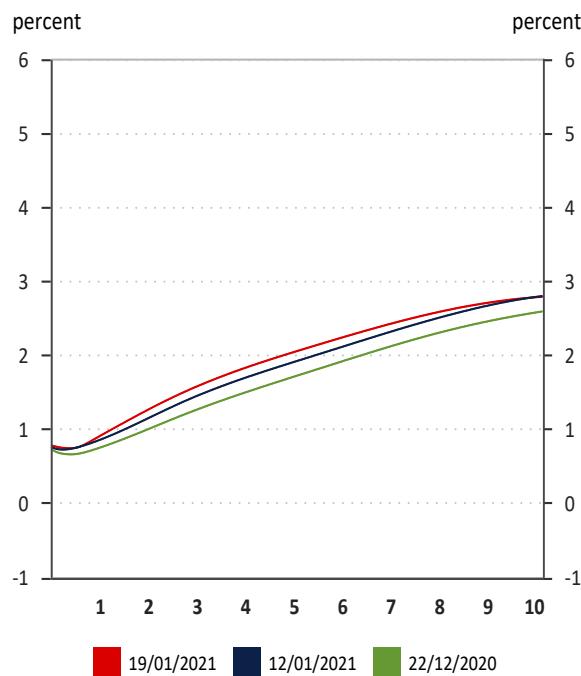
76. Yields of benchmark government securities (last month)



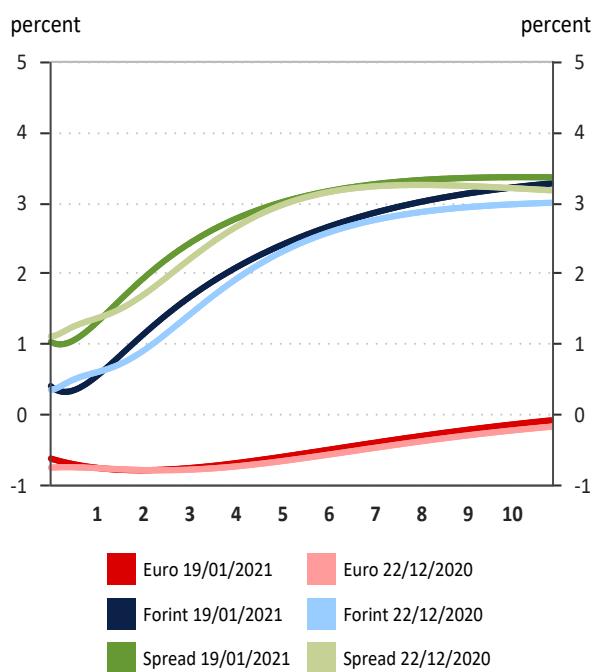
Source: Bloomberg, Hungarian State Treasury.

**77. Implied 3 month forward interest rate yield curve
(based on government securities yields)**


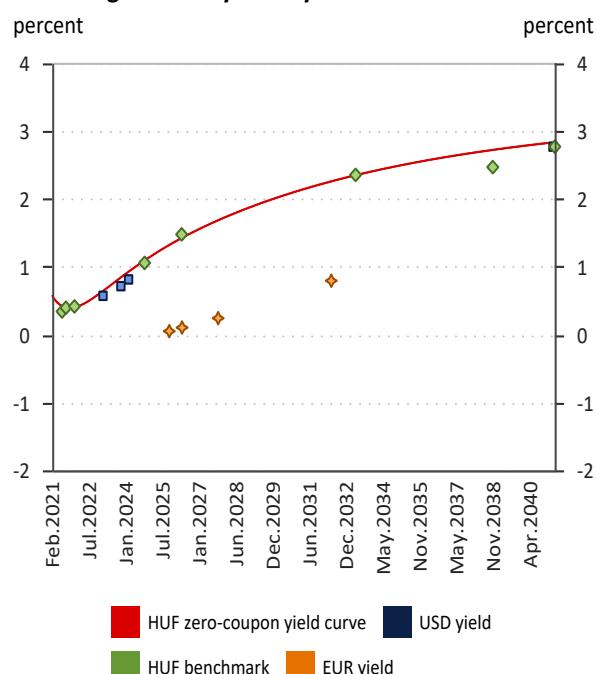
Source: MNB, ÁKK. Note: calculated by Svensson method by MNB. X axis shows maturities, in years.

**78. Implied 3 month forward interest rate yield curve
(based on interbank yields)**


Note: Calculated from FRA-s, and IRS by spline method. X axis shows maturities, in years.

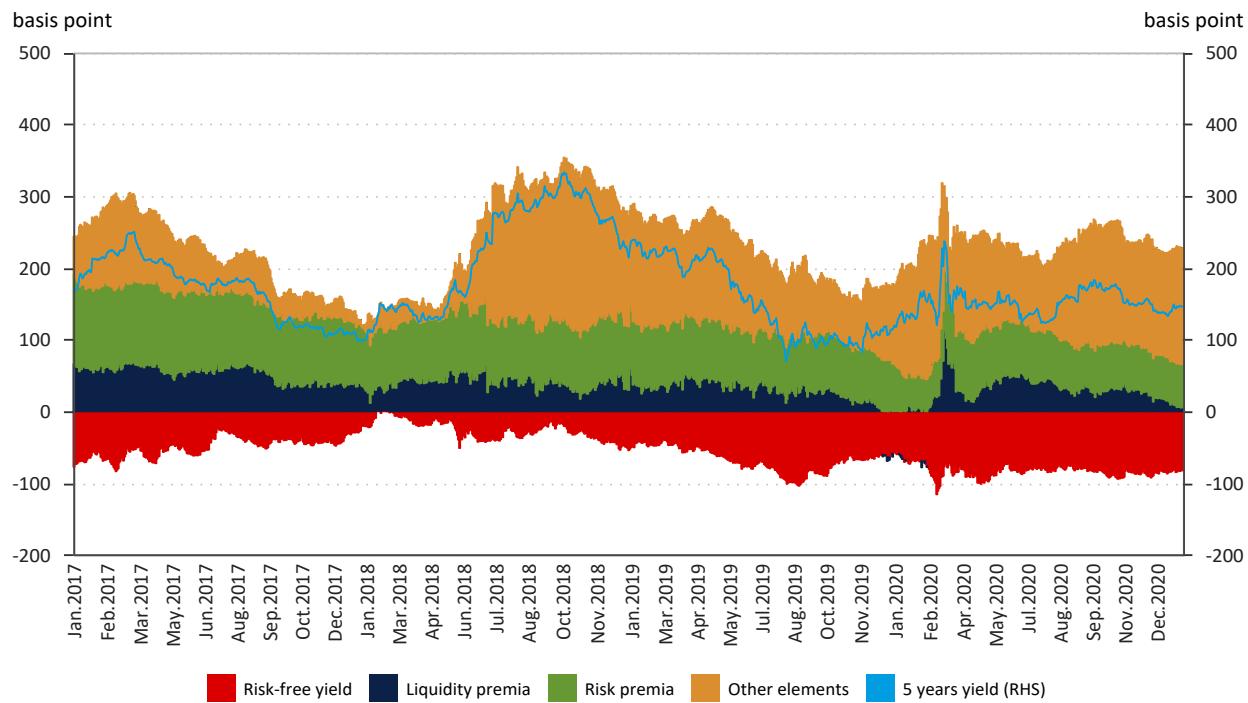
79. Spread between 3-month forward yields in EUR and HUF


Source: Refinitiv
Note: X axis shows maturities, in years. Estimated by the ECB using the Svensson technique, based on AAA-rated euro area central government bonds.

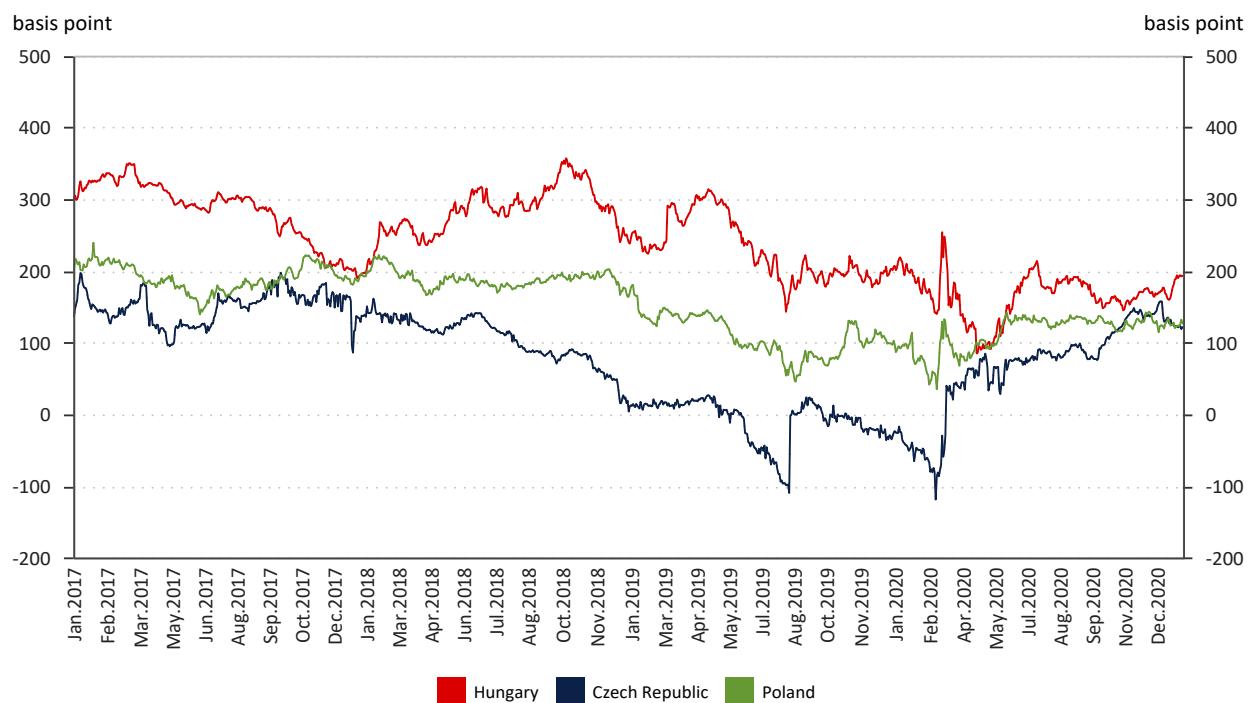
80. Hungarian government bond yield curve and foreign currency bond yields


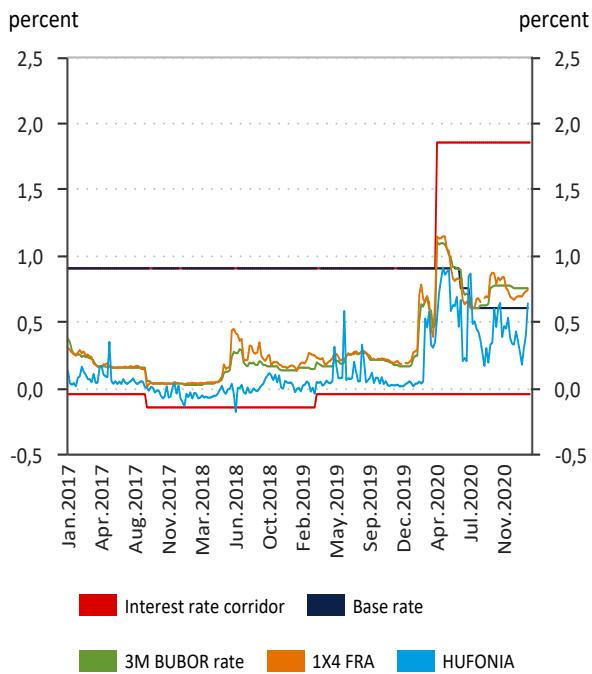
Source: MNB, Bloomberg.

81. Decomposition of 5 year government bond yield

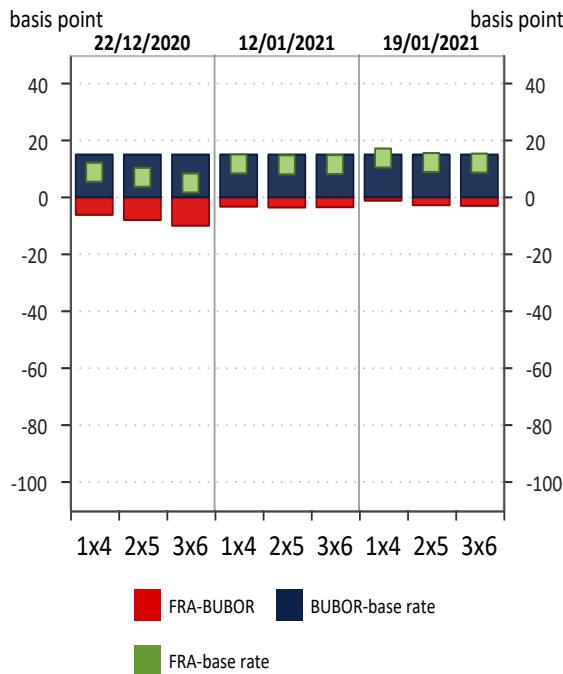


82. Slope of yield curve in CEE

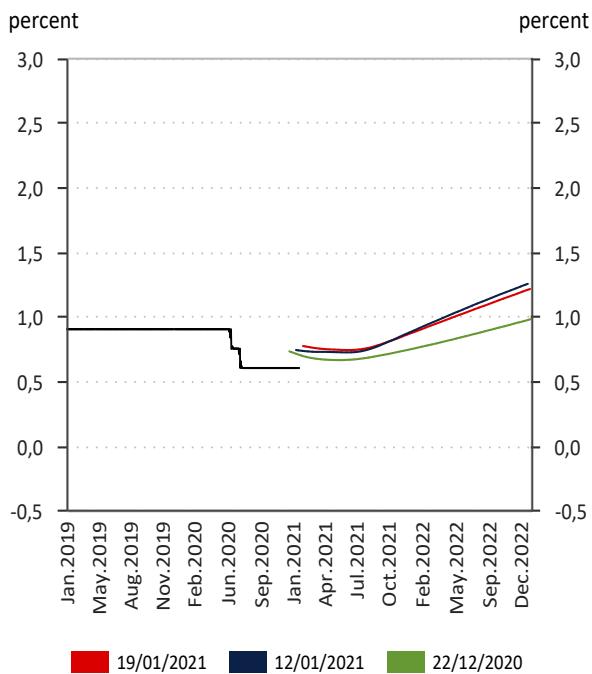


83. MNB base rate and money market rates

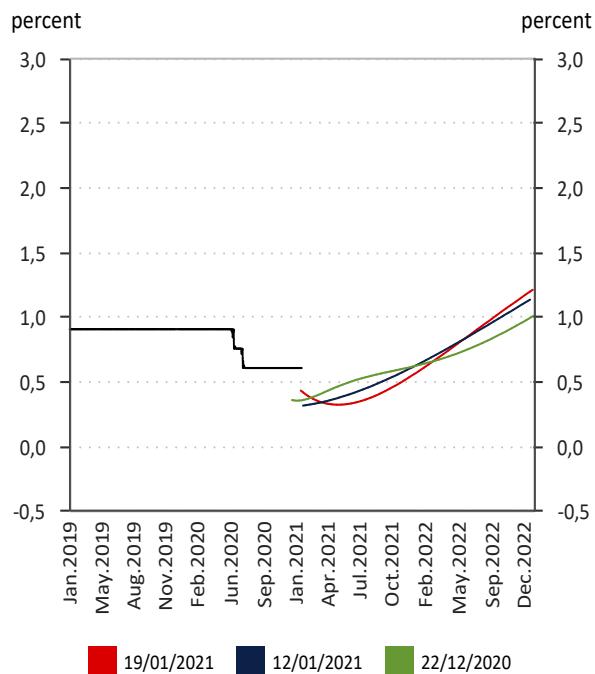
Source: Refinitiv, MNB

84. Difference between the 3 month FRA quotes and the current base rate

Source: Refinitiv, MNB.

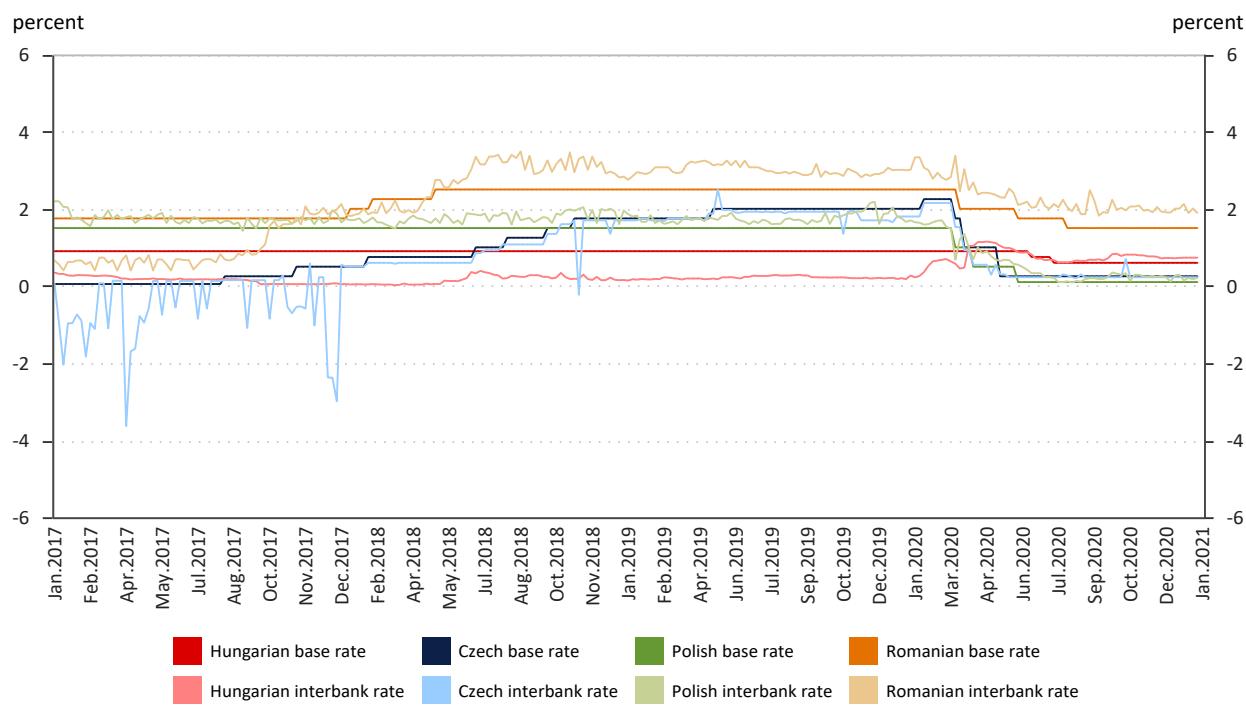
85. Implied 3 month forward interest rate curve (based on interbank yields)

Source: MNB.

86. Implied 3 month forward interest rate curve (based on government bond yields)

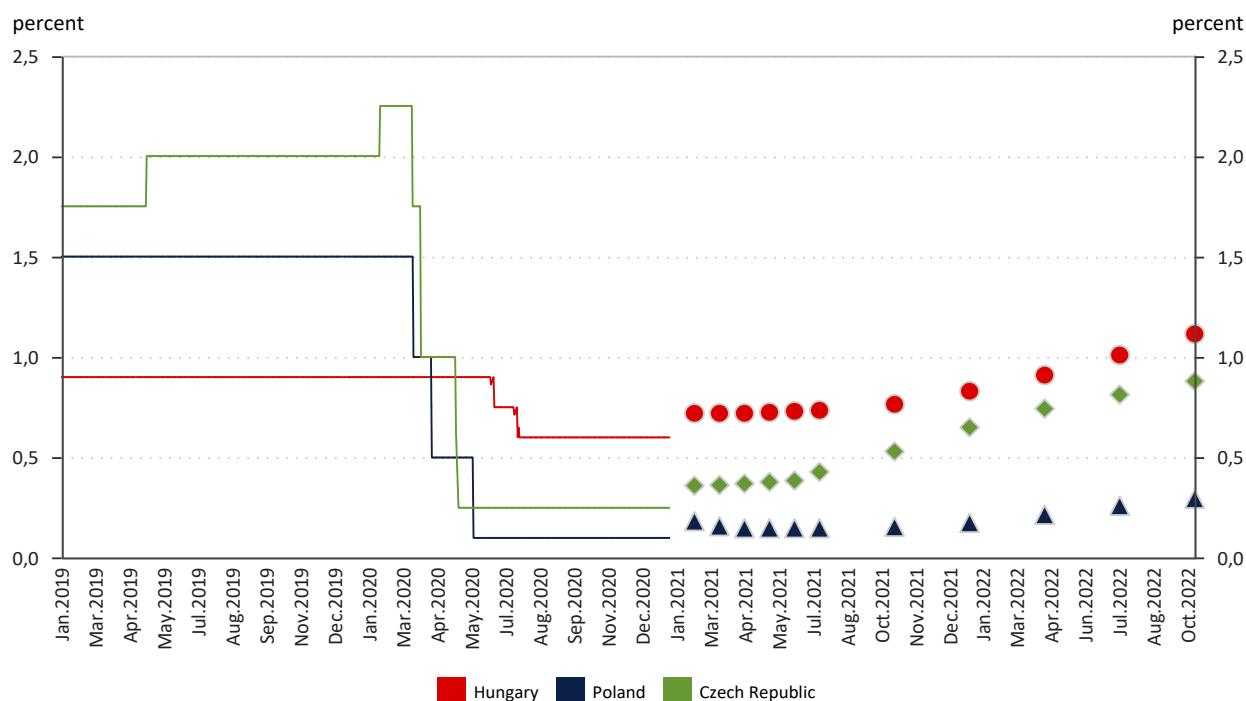
Source: MNB.

87. Base rates and short term interbank rates in the region



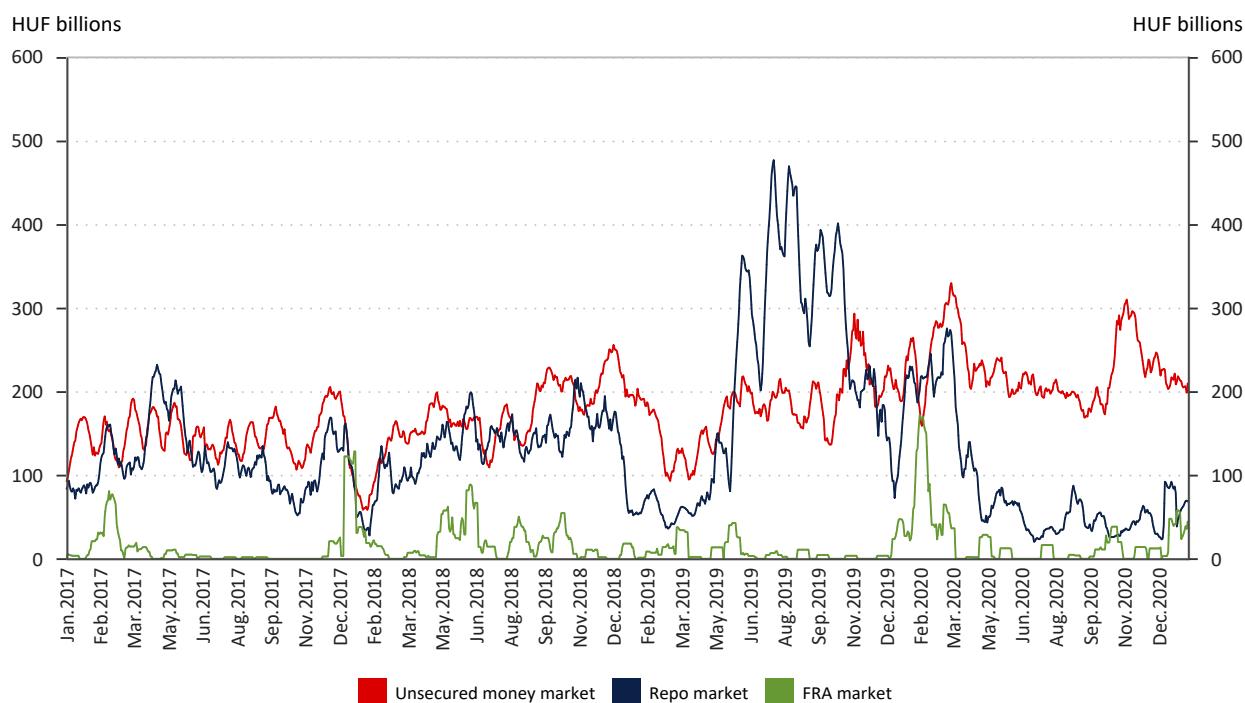
Source: Refinitiv.

88. CEE base rates and forward rate agreements



Source: Bloomberg

Note: Based on FRA transactions. Last update: (19/01/2021).

89. Turnover on the interbank, HUF repo, and FRA markets (25 day moving average)

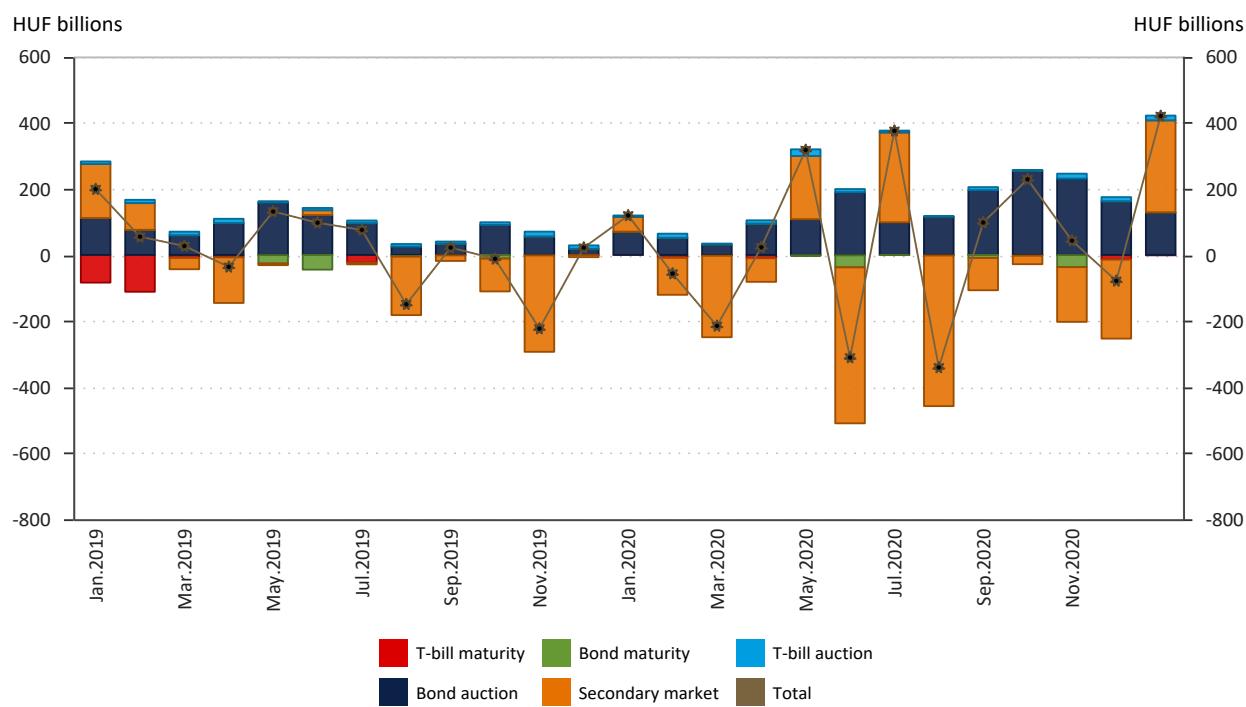
Source: MNB

Note: turnovers on deal date, based on reporting by domestic banks, 25-day moving averages.

90. Change in government bonds of non-residents by tenor

Source: MNB.

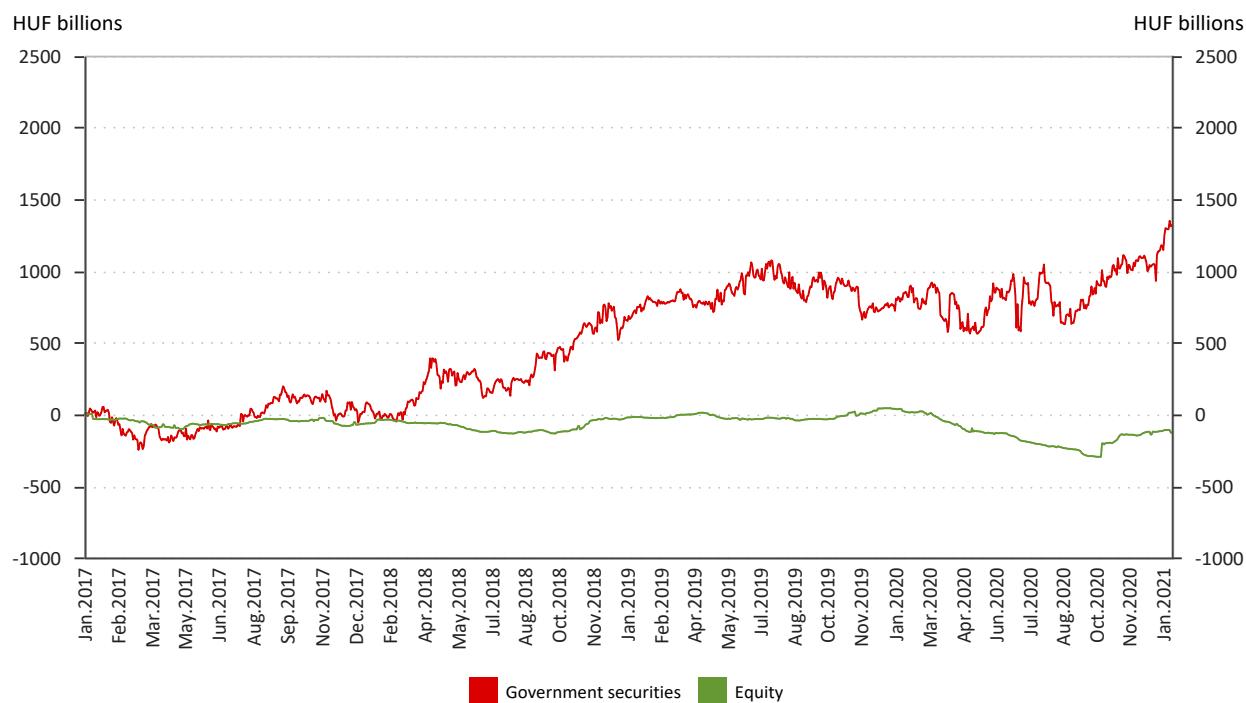
91. Decomposition of change in government securities held by non-residents (last months)



Source: MNB

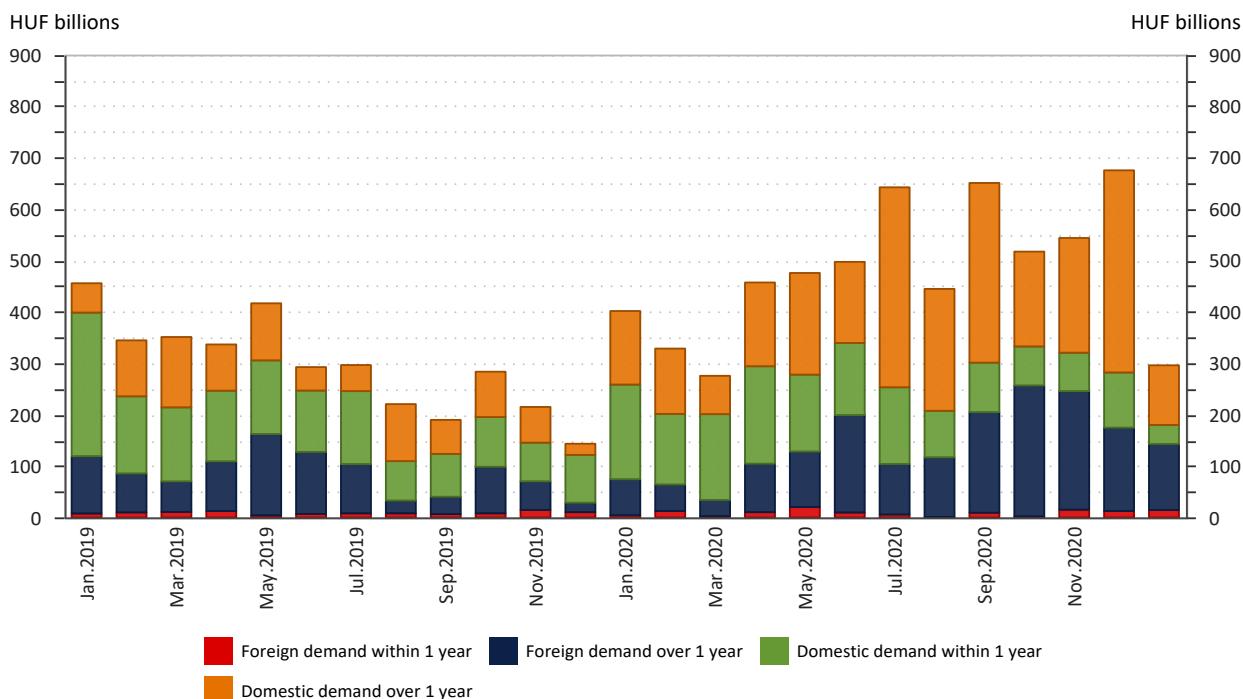
Note: Last month is incomplete.

92. Forint financial assets held by non-residents



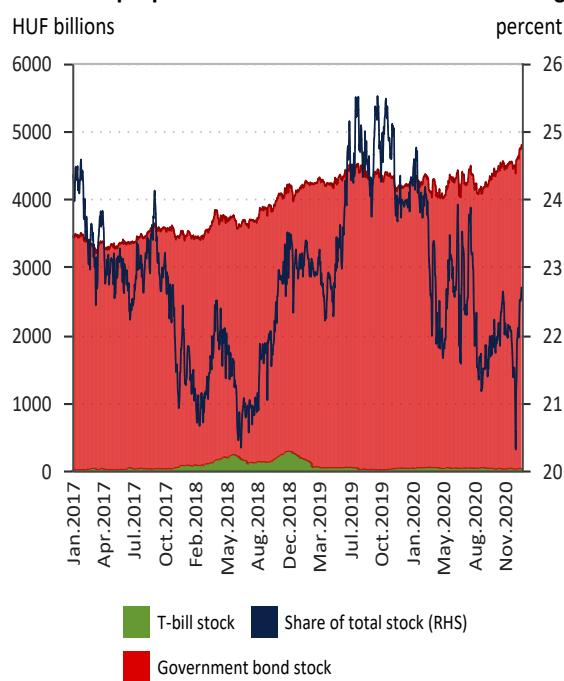
Source: MNB, KELER

Note: Cumulative change. Equity data are not comprehensive, it contains data for large- and mid-cap stocks quoted on the Budapest Stock Exchange.

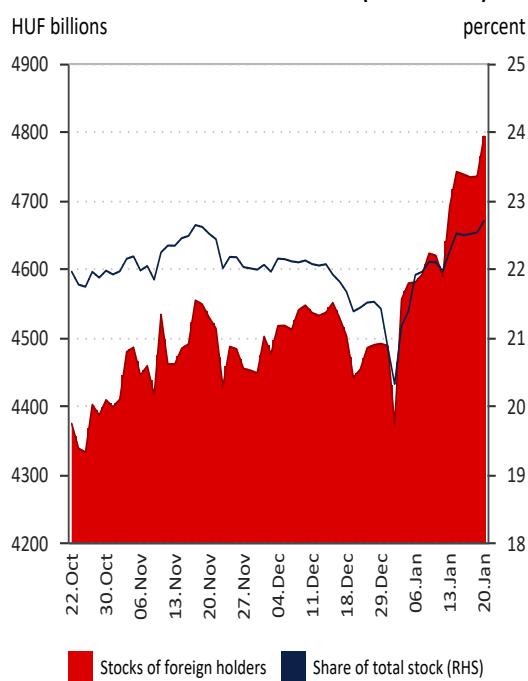
93. Primary market government security purchase of domestic and non-resident investors

Source: MNB

Note: Last month is incomplete.

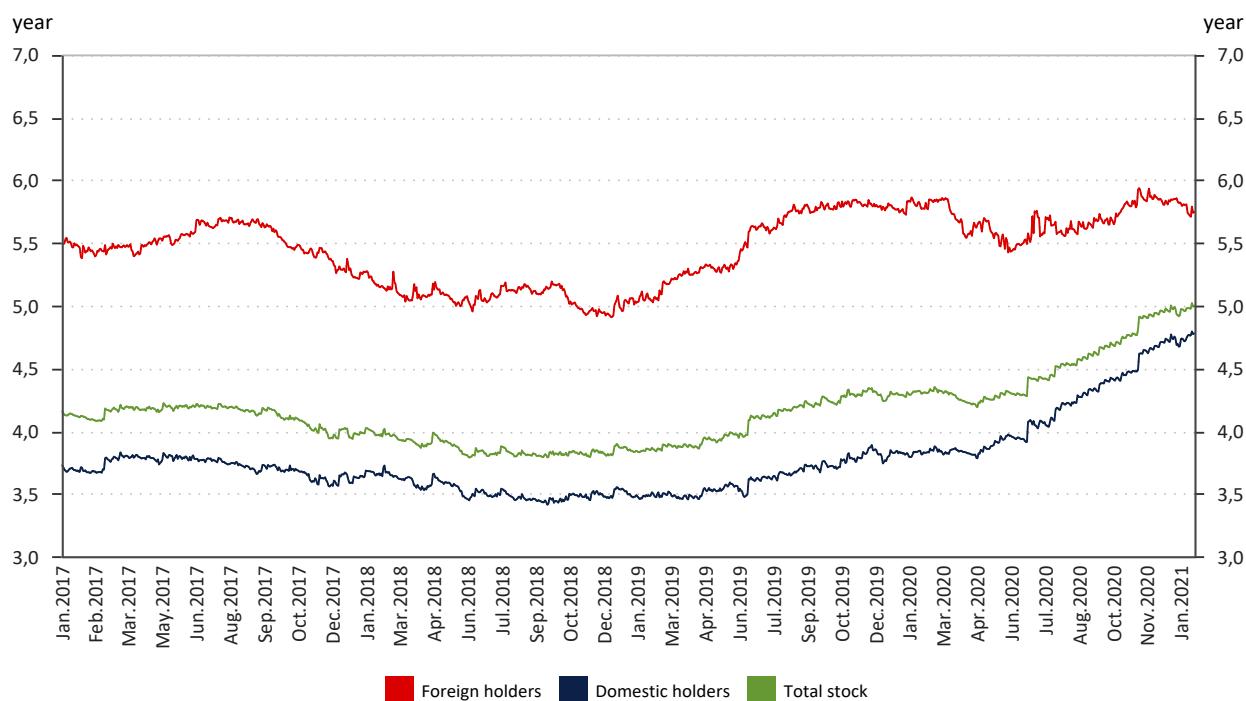
94. Government securities held by non-residents and the proportion to the total amount outstanding

Source: MNB.

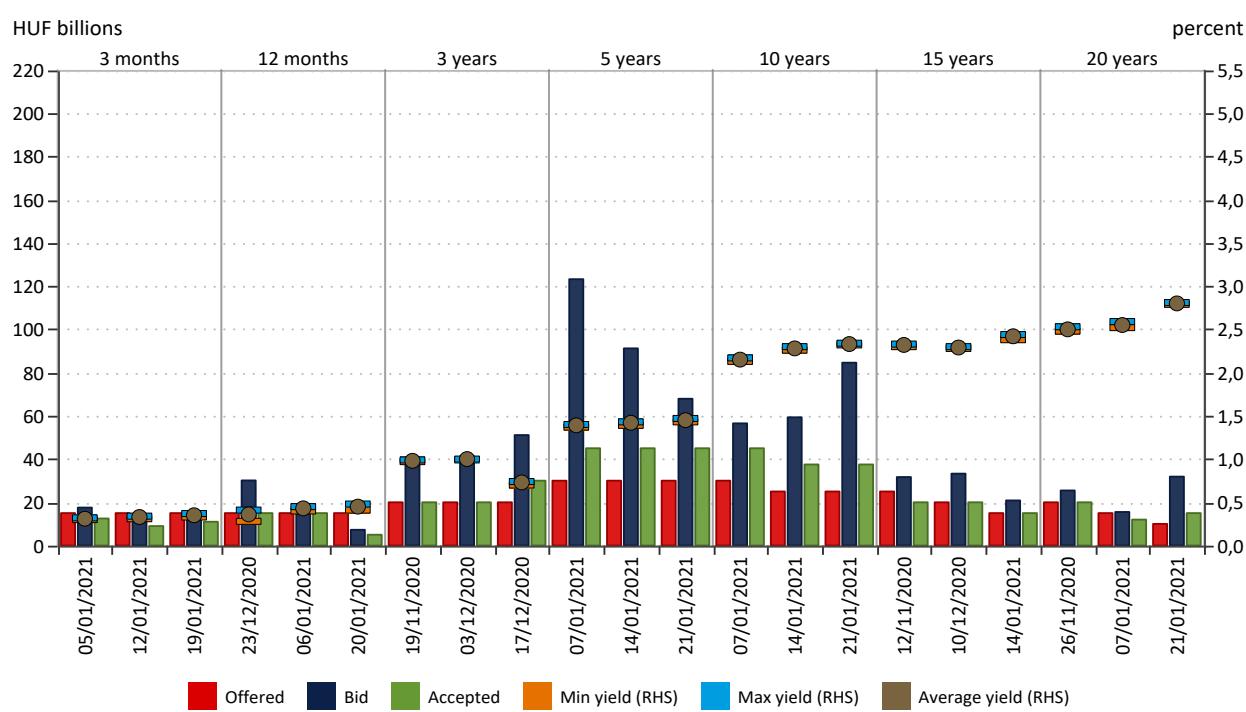
95. Government securities held by non-residents and the share of the total amount (last months)

Source: MNB.

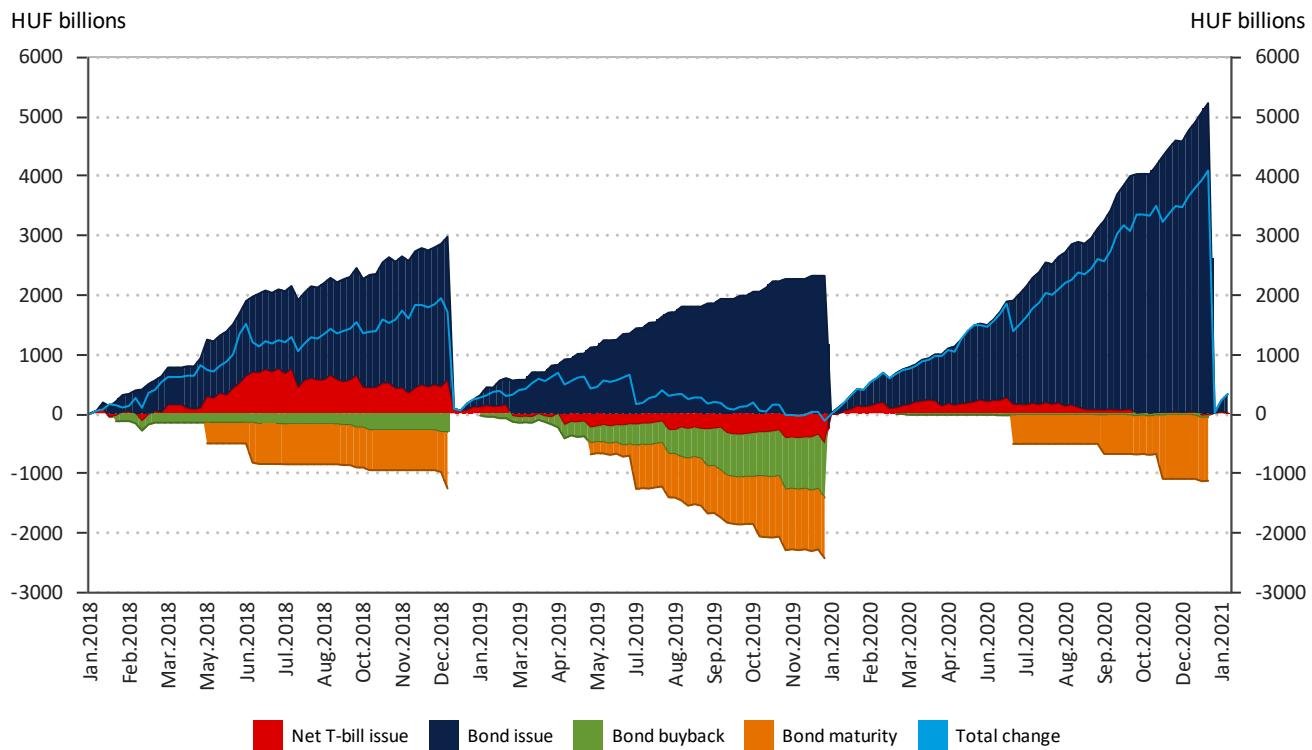
96. The average time to maturity of government security portfolio of residents and non-residents



97. The turnover and yield data of the Hungarian primary T-bill and T-bond issues

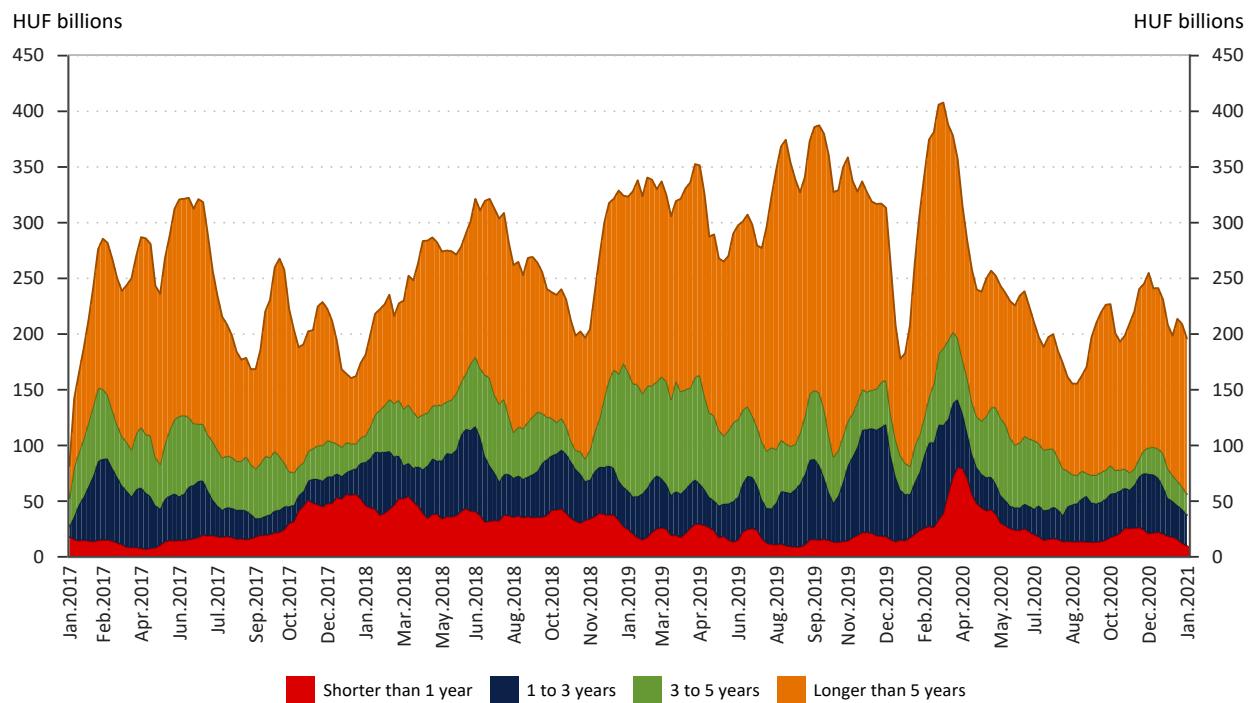


98. Government securities issues, buybacks, redemptions

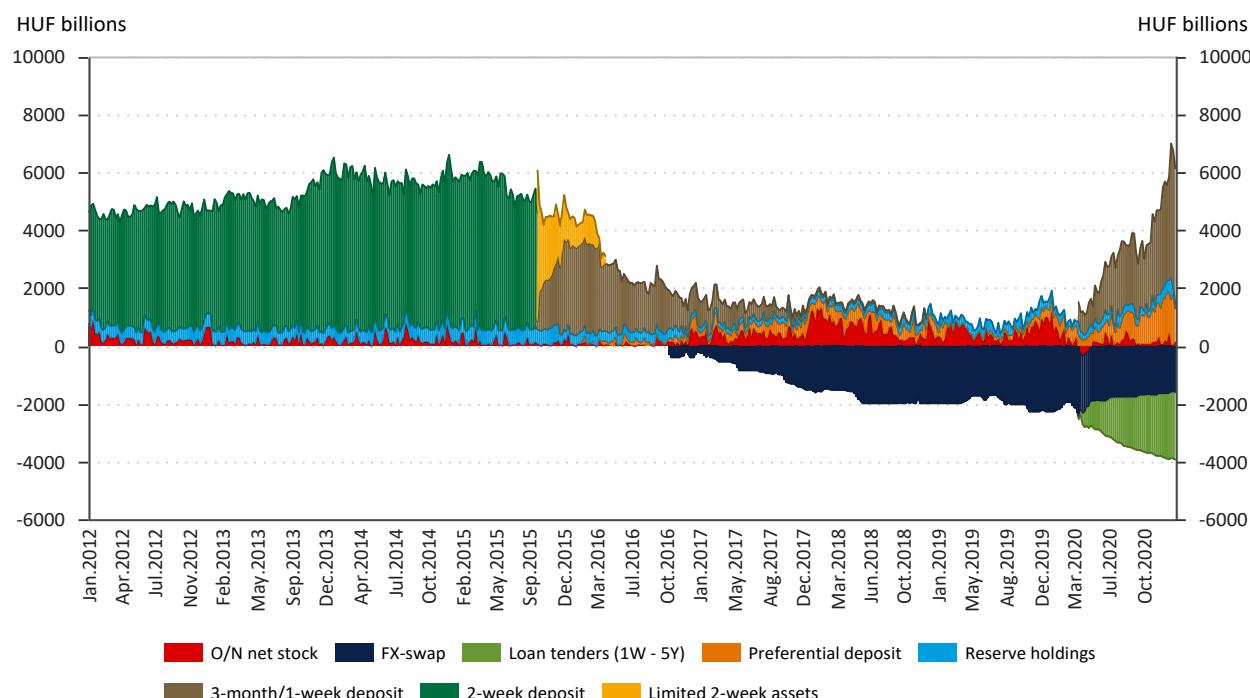


Source: MNB.

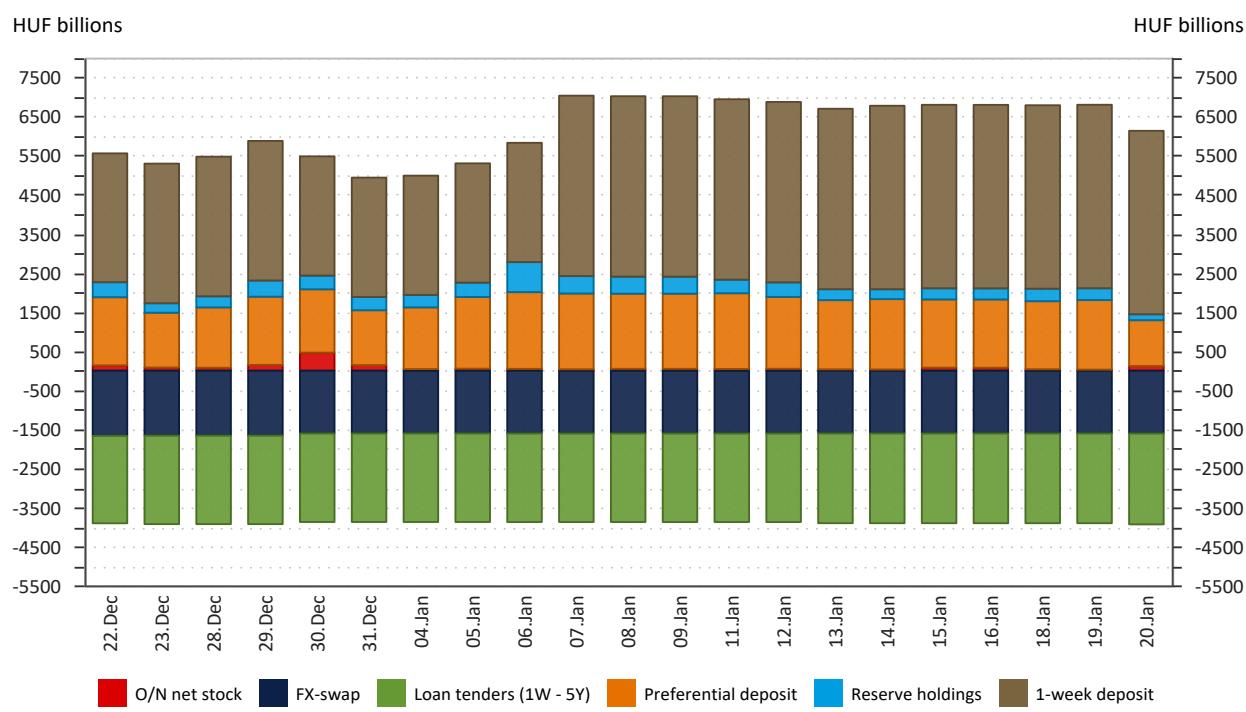
99. Turnover on the secondary market of government securities



Source: MNB, KELER.

100. Selected assets and liabilities of the MNB

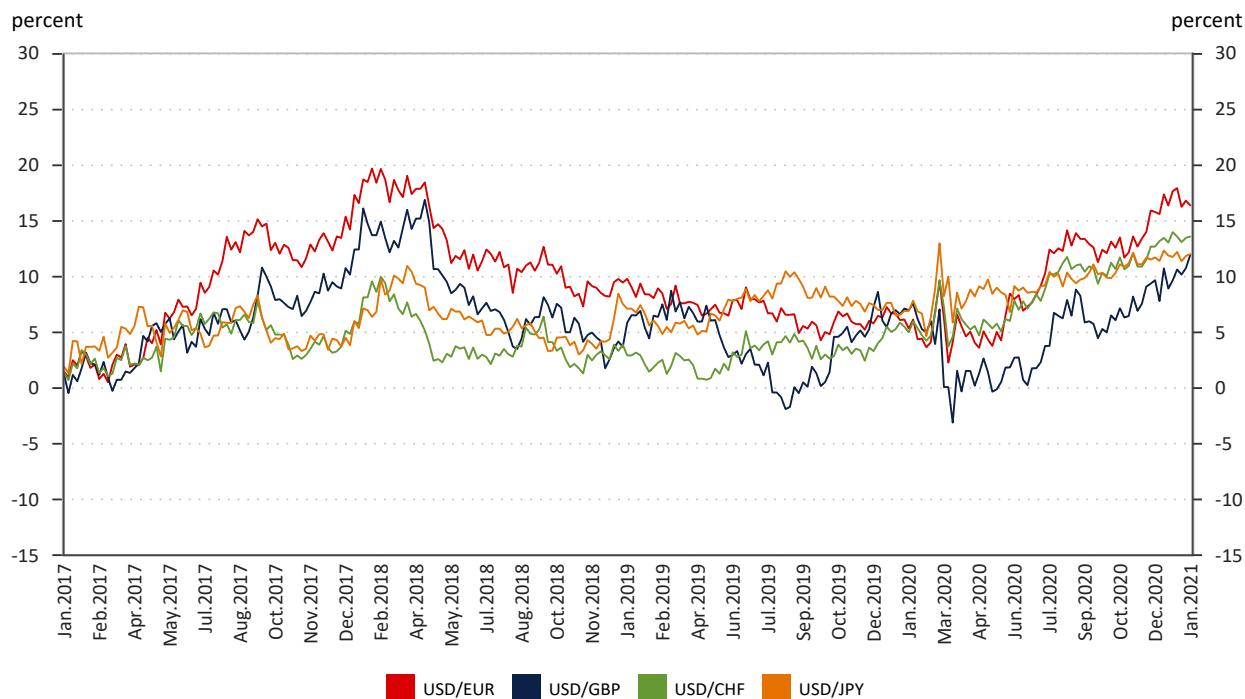
Source: MNB.

101. Use of selected facilities of the MNB beside the main instrument

Source: MNB.

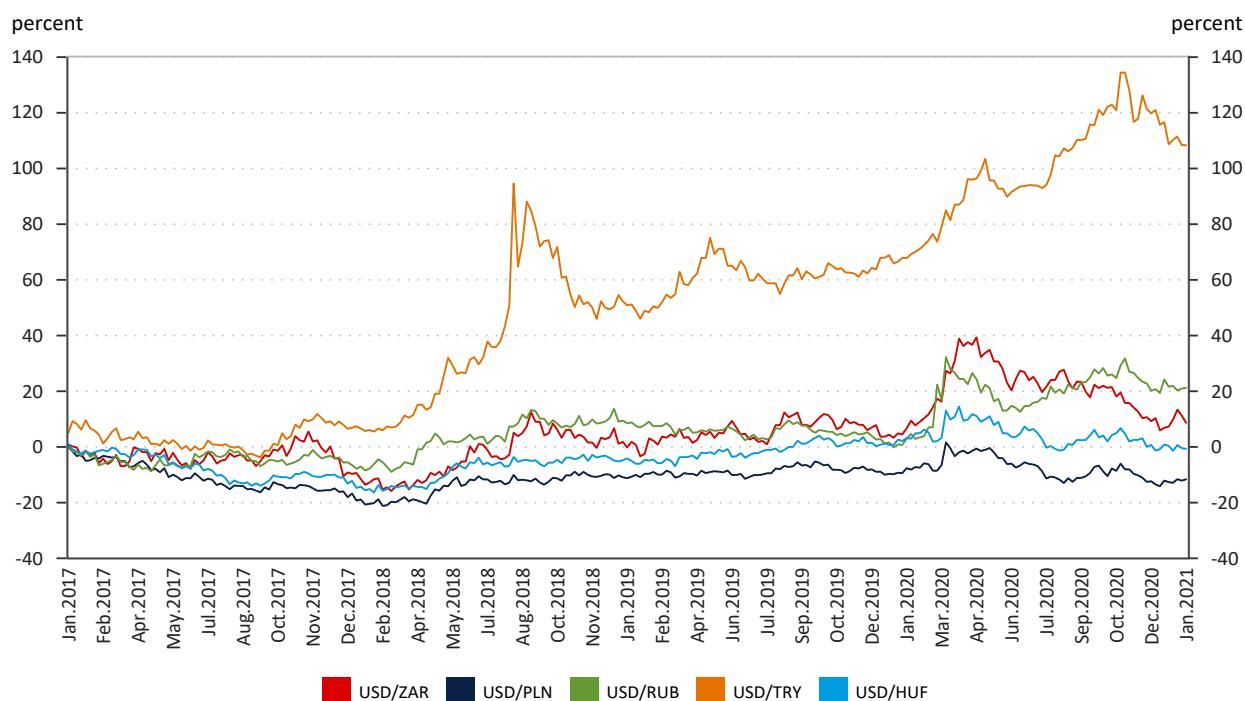
102. International developments*Overview*

Indicator	1 month ago	1 week ago	Current
Fed base rate (%)	0.25	0.25	0.25
ECB base rate (%)	0.00	0.00	0.00
10-year T-bond yield (%)	0.94	1.08	1.11
10-year euro yield (%)	-0.55	-0.54	-0.50
VIX Index (%)	23.4	23.7	21.4
EMBI Global spread (bp)	330	329	326
SP 500 Index	3690	3768	3852
DAX Index	13587	13788	13907
NIKKEI Index	26436	28698	28523
USD/EUR exchange rate	1.22	1.21	1.22
USD/JPY exchange rate	103.57	103.89	103.51
CHF/EUR exchange rate	1.08	1.08	1.08
Brent oil (USD per barrel)	51.2	55.1	56.1

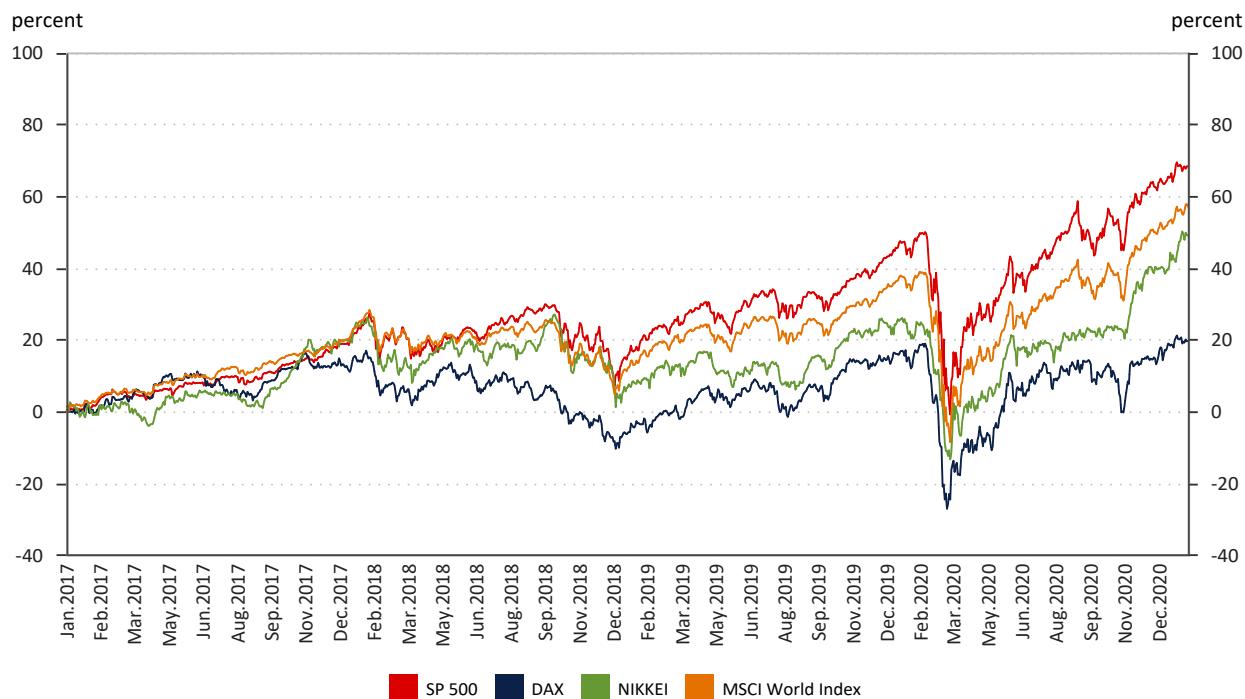
103. Major currencies versus the dollar

Source: Refinitiv

Note: cumulative change. Positive values indicate USD depreciation.

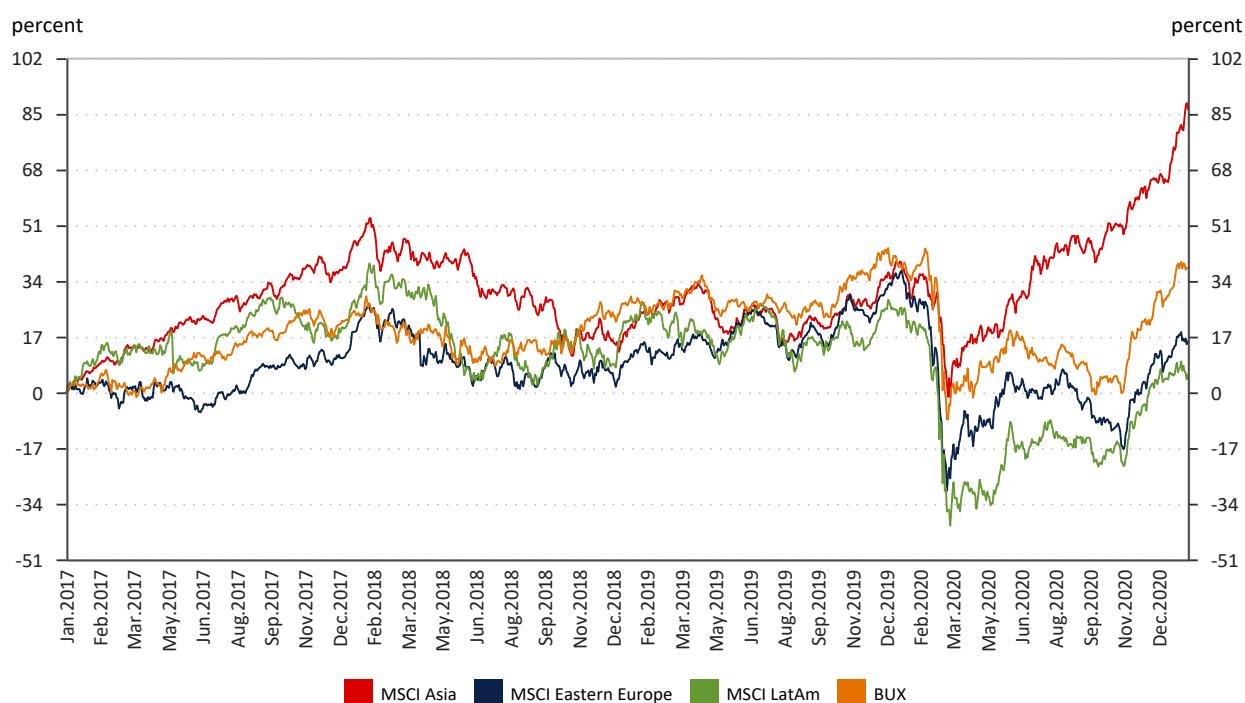
104. Emerging currencies versus the dollar

Source: Refinitiv Notes: positive value means depreciation of the emerging currency. Cumulative change.

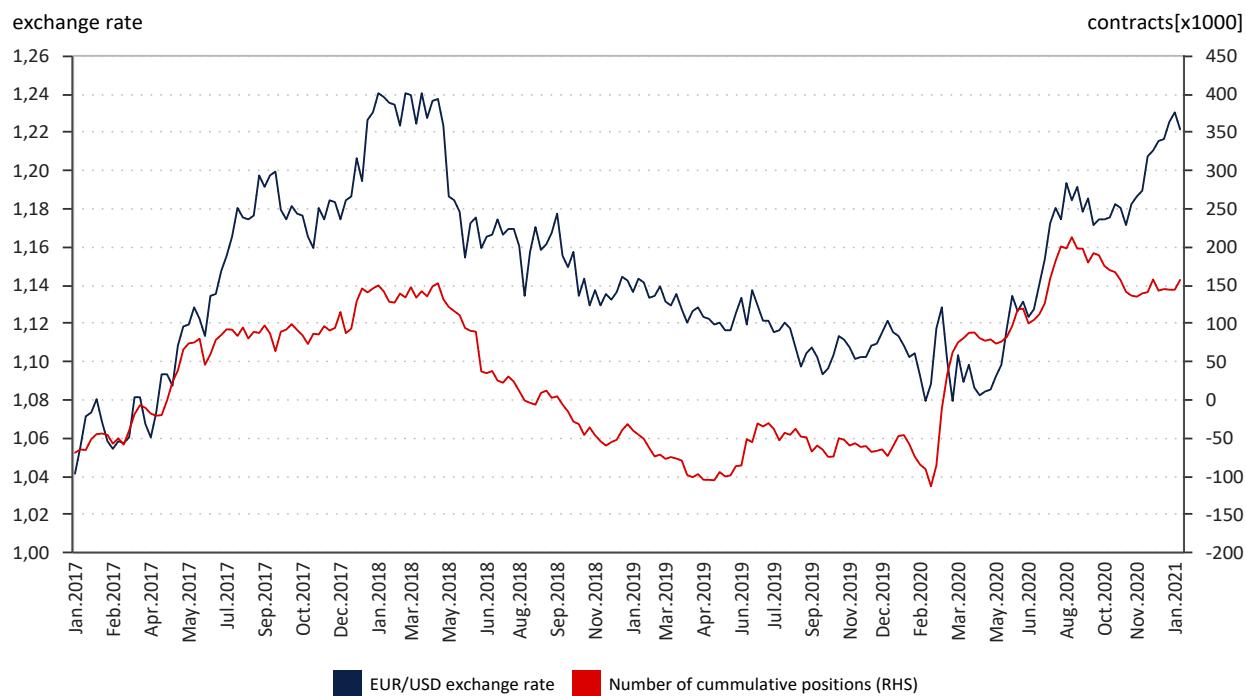
105. Developed market stock indices

Source: Refinitiv

Notes: cumulative change.

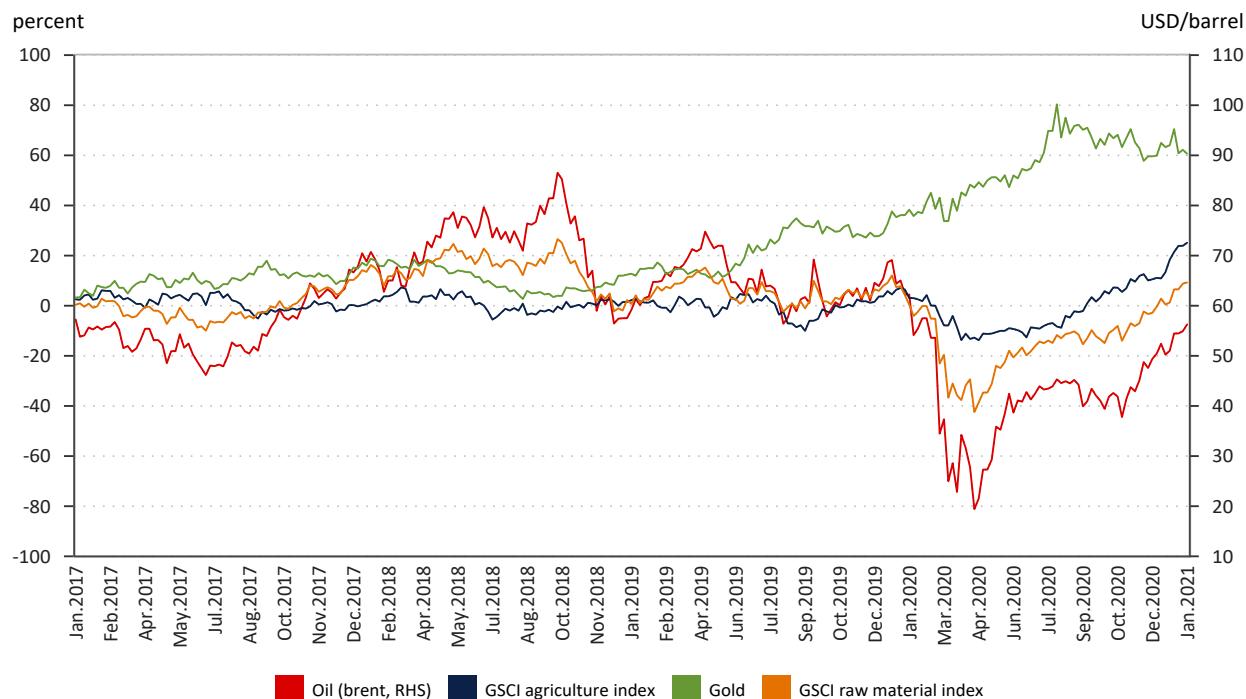
106. Emerging stock exchange markets

Source: Refinitiv Datastream Note: cummulative change, MSCI stock indices.

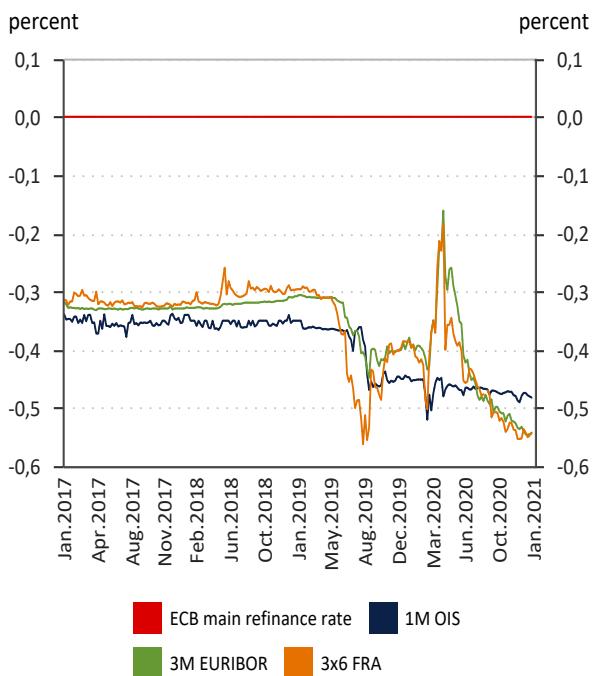
107. EUR/USD exchange rate and speculative positions

Source: Bloomberg, CFTC.

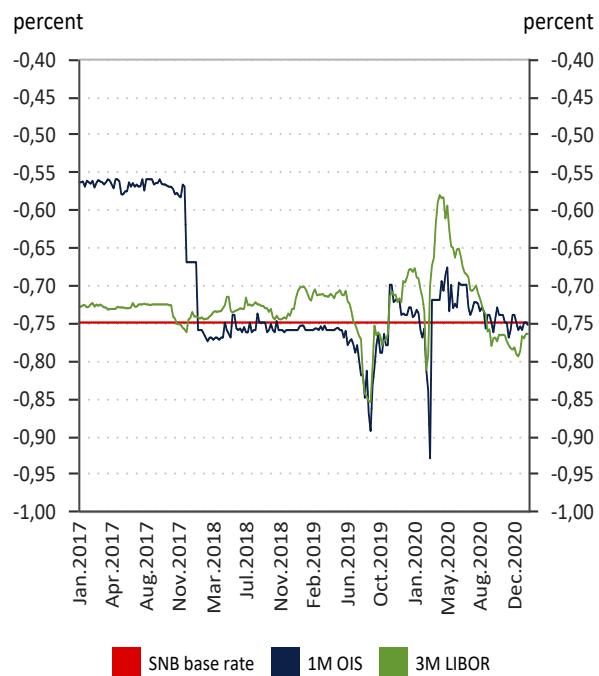
Notes: Speculative position is defined as a net of long and short transactions. Positive value means the majority of open positions on euro strengthening. Weekly data by Commodity Futures Trading Commission.

108. Price of raw materials

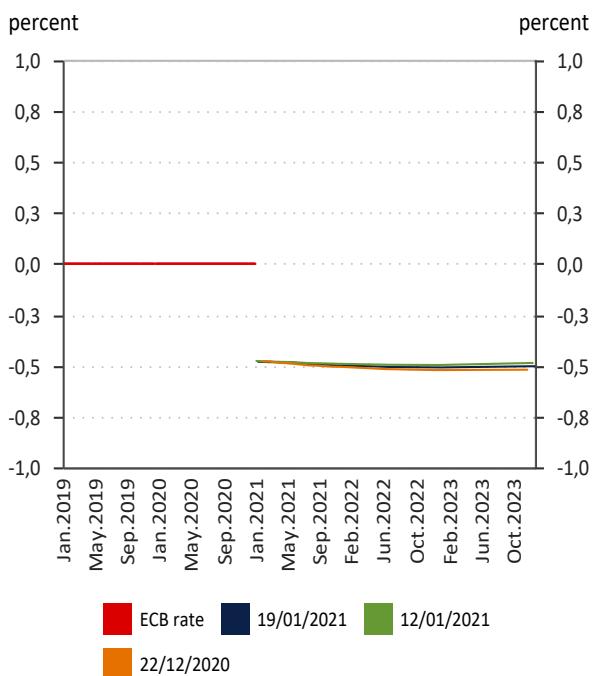
Source: Refinitiv Datastream Note: cumulative change except the Brent oil where the scale is nominal.

109. Short term interbank rates in the eurozone

Source: Refinitiv.

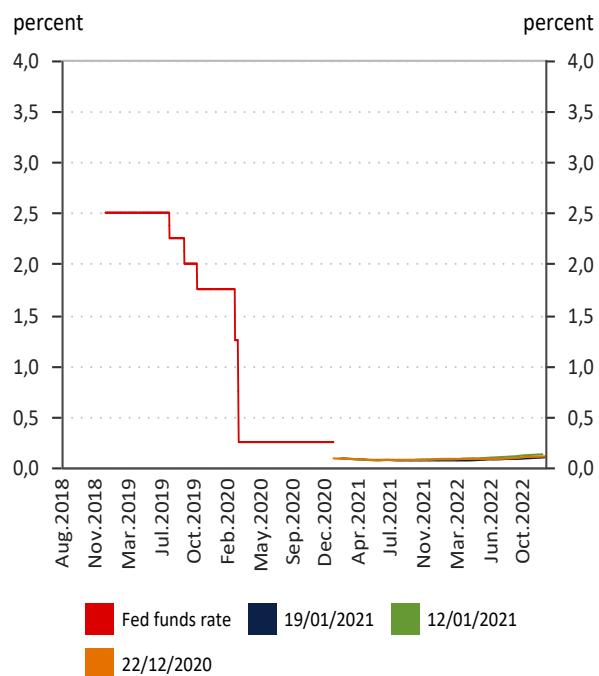
110. Short term interbank rates in Switzerland

Source: Refinitiv, Bloomberg.

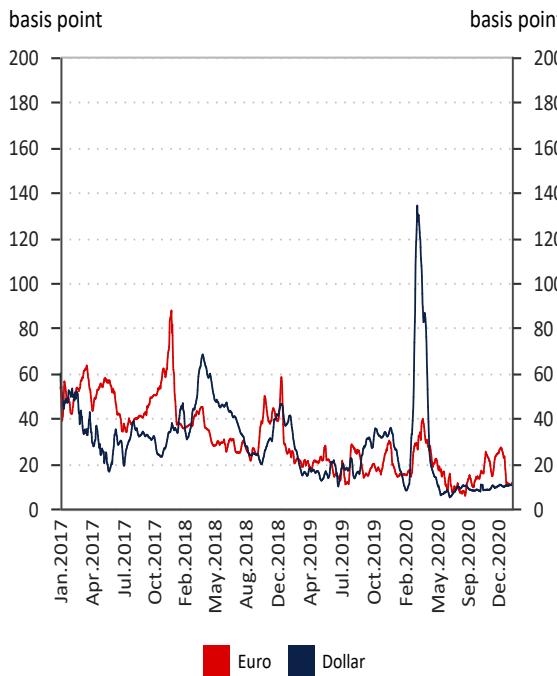
111. Forecasts on ECB policy rate

Source: ECB.

Note: Calculated 3-months forward yield curve based on German government bonds.

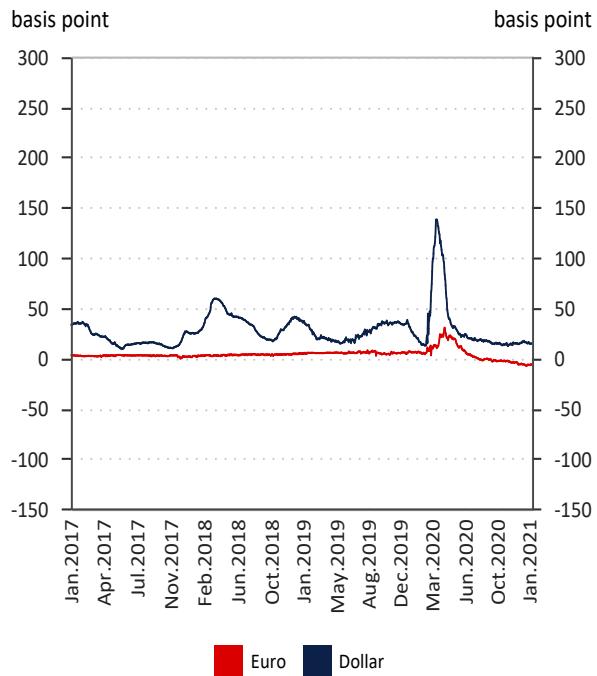
112. Forecasts on Fed policy rate

Source: Bloomberg.

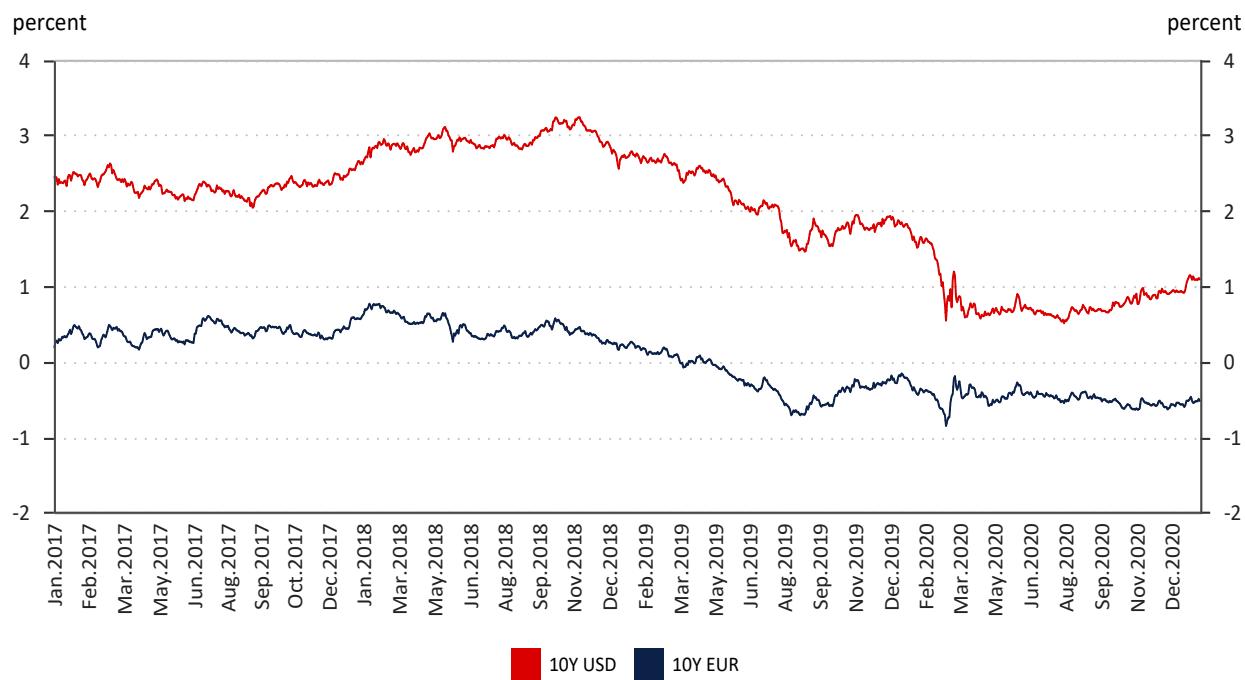
113. 3M interbank and government bond yield spread

Source: Refinitiv.

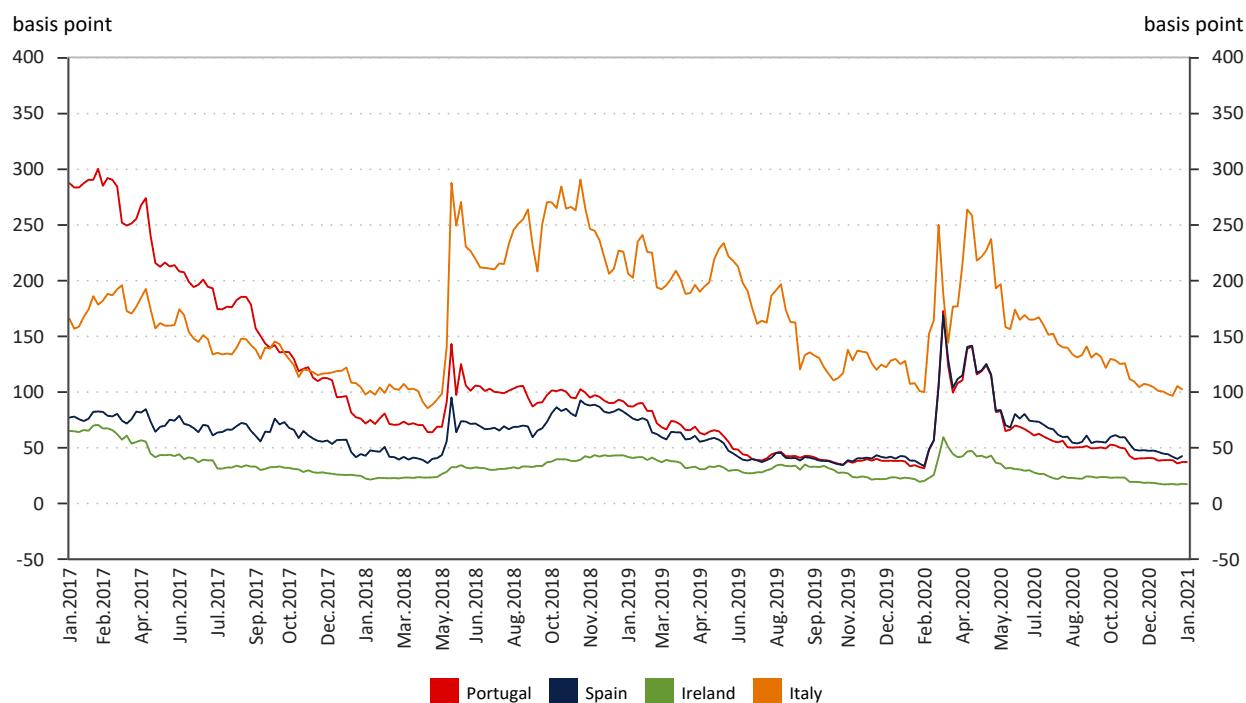
Notes: Spread between 3-month interbank rates and 3-month T-bill yield.

114. 3M interbank and OIS yield spread

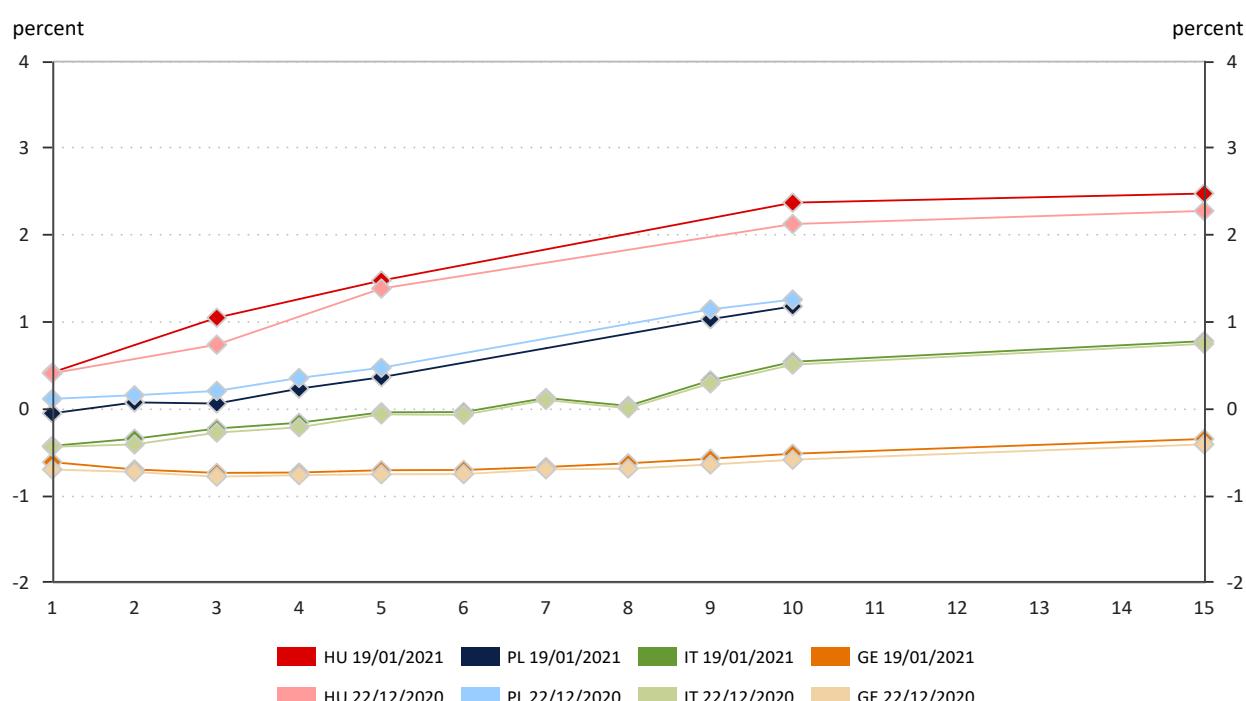
Source: Refinitiv.

115. Long term euro and dollar benchmark yields

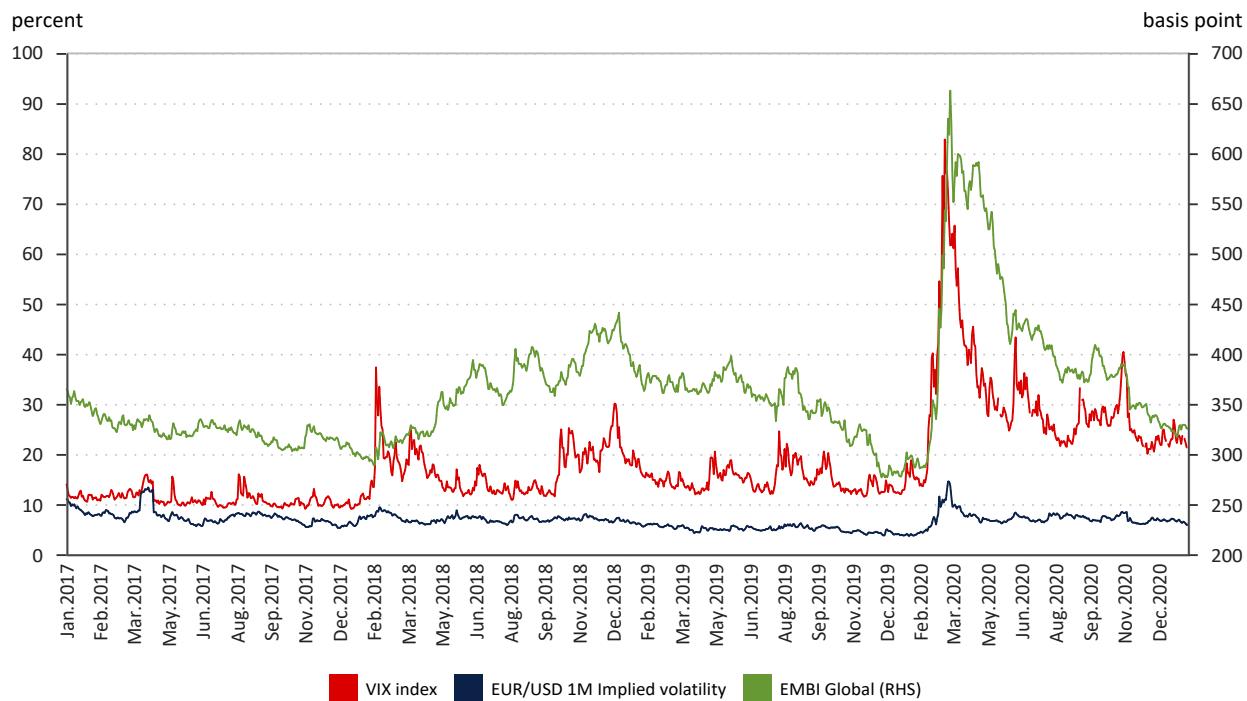
Source: Refinitiv.

116. 5Y sovereign CDS in the eurozone periphery

Source: Refinitiv.

117. Benchmark yield curves of Hungary, Poland, Italy and GermanySource: Bloomberg
Note: X axis is displayed in years.

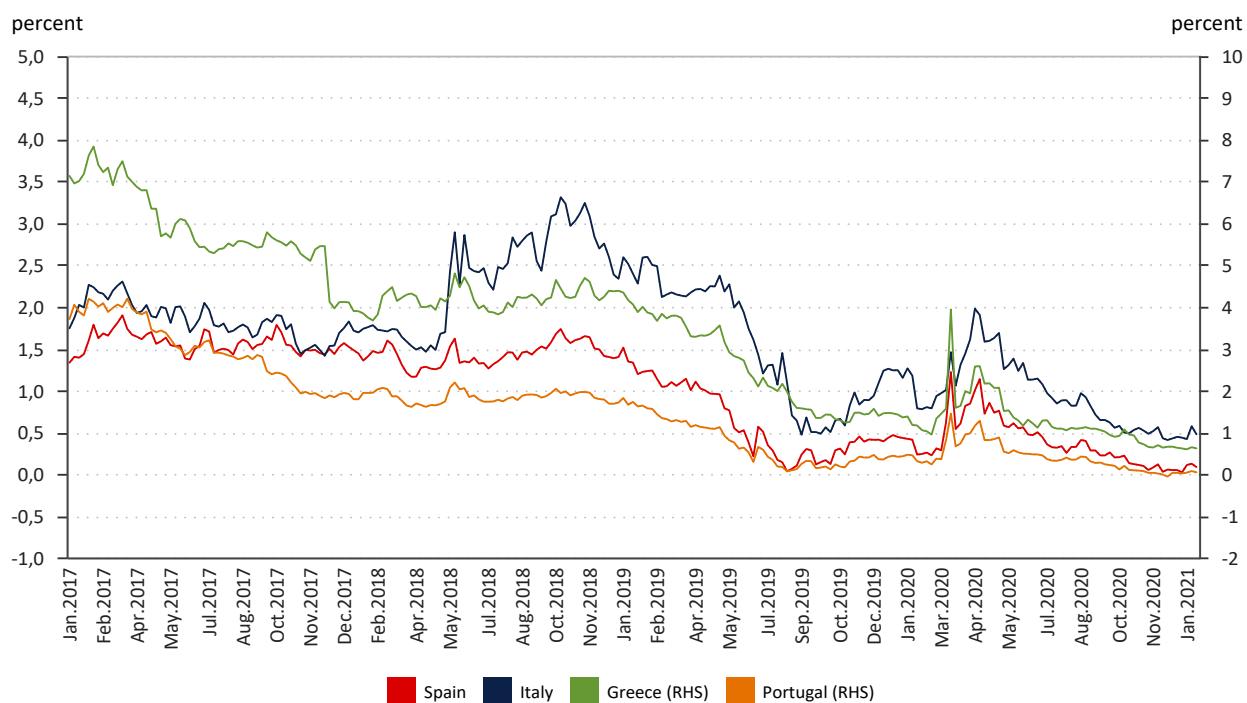
118. Main risk indicators



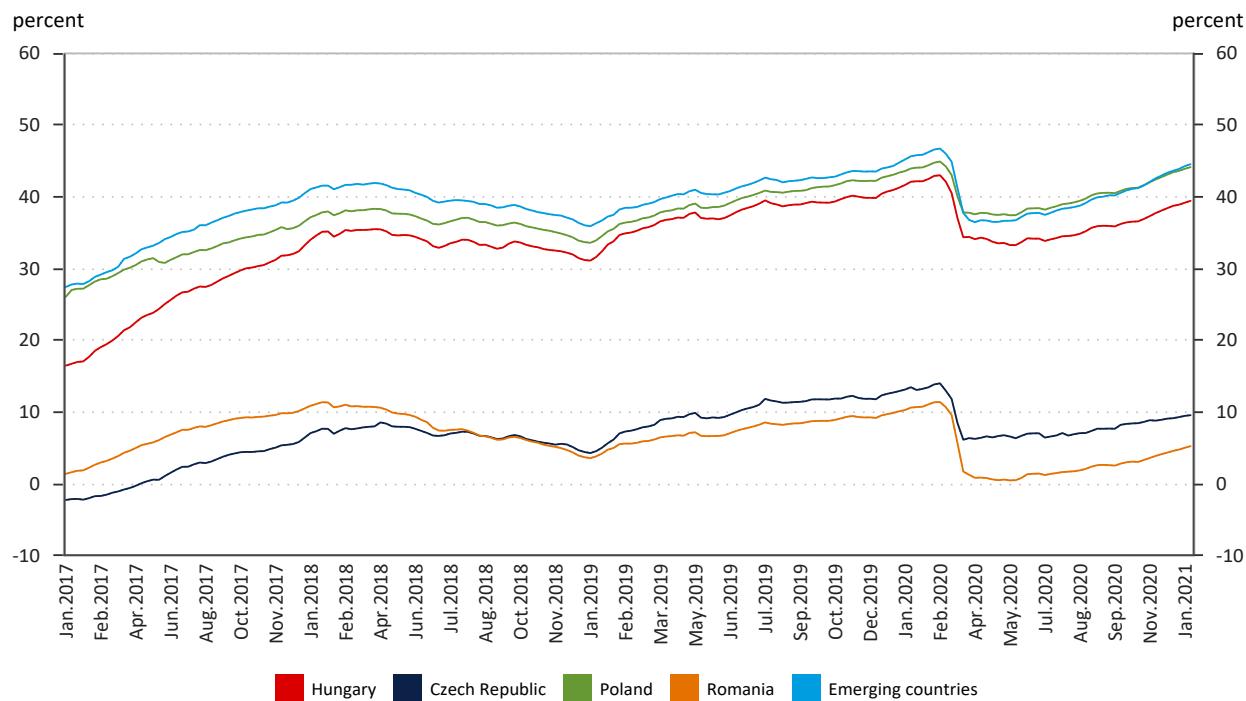
Source: Refinitiv Datastream

Note: An upward move indicates declining risk appetite or increasing risk aversion. VIX is the implied volatility of SP500 index.

119. Long term government bond yields in the Eurozone periphery

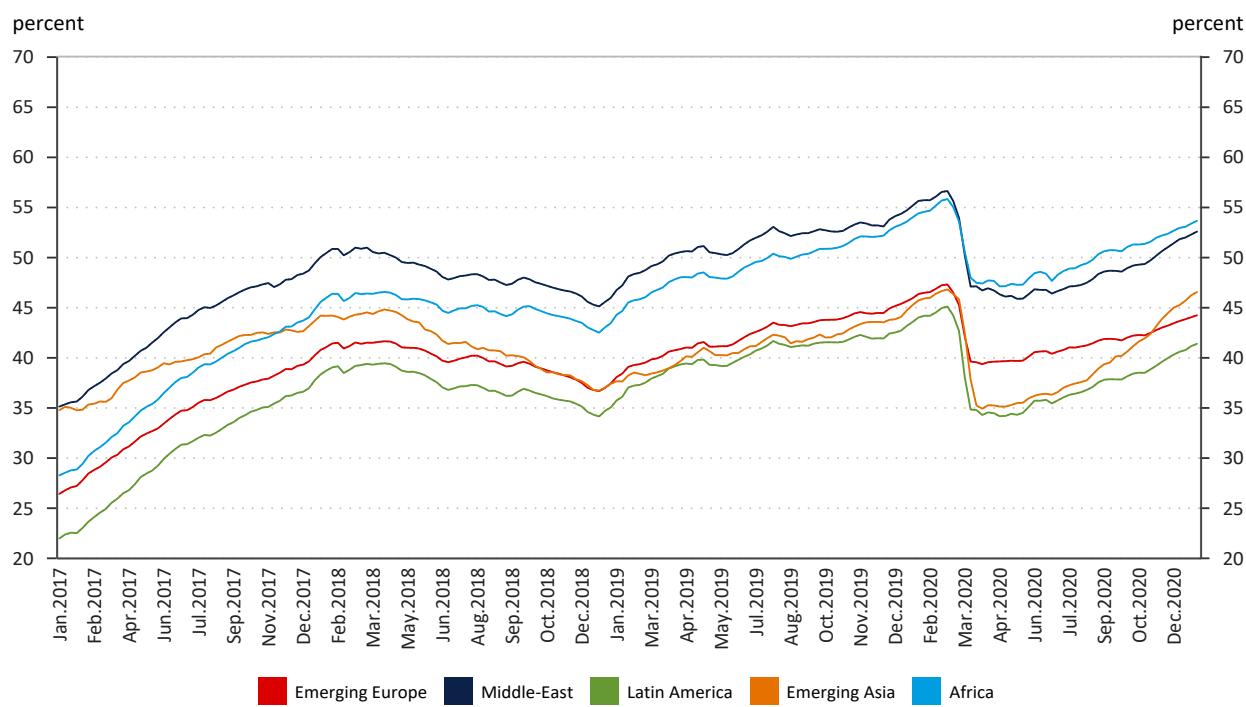


Source: Bloomberg.

120. Emerging bond-market flows

Source:EPFR

Note: Percentage change of asset under management, 1/1/2011=0

121. Global bond-market flows

Source:EPFR

Note: Percentage change of asset under management, 1/1/2011=1