

# Monetary Statistics — II/2023



Czech National Bank — Monetary Statistics — II/2023

The information are based on monetary statistics of the CNB harmonized with monetary statistics of European System of Central Banks (ESCB) (Tables 3 – 13, Table 16) and non-harmonised information according to ESCB respectively (Tables 14 – 15), unless otherwise stated.

The data are not seasonally adjusted and the last period data are always preliminary. The published data may be subject to inaccuracy in the last decimal place due to rounding.

The data quoted in this Publication are included in the ARAD time series system: [https://www.cnb.cz/cnb/STAT.ARADY\\_PKG.STROM\\_SESTAVY?p\\_strid=AAAG&p\\_sestuid=&p\\_lang=EN](https://www.cnb.cz/cnb/STAT.ARADY_PKG.STROM_SESTAVY?p_strid=AAAG&p_sestuid=&p_lang=EN) (Time series database ARAD >> Statistical data >> Money and financial statistics >> Monetary statistics >> Monetary Statistics Publication), with the exception of the data on cost-of-borrowing indicators for euro area countries which are available under this following link: <http://sdw.ecb.europa.eu/reports.do?node=1000004934>.

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## I. KEY INTEREST RATES AND FINANCIAL MARKET INTEREST RATES

### I.1 TABLE 1 – KEY INTEREST RATES

(in %)

	CNB			ECB
	from 1 April 2022 onwards	from 6 May 2022 onwards	from 23 June 2022 onwards	from 21 Decemberr 2022 onwards
2W repo rate	5.00	5.75	7.00	2.50
Deposit facility	4.00	4.75	6.00	2.00
Marginal lending facility	6.00	6.75	8.00	2.75

### I.2 TABLE 2A – MONEY MARKET INTEREST RATES

(in %, monthly average)

	2021	2022		
	December	October	November	December
<b>CZEONIA</b>				
overnight	2.31	6.49	6.54	6.54
<b>PRIBOR</b>				
1 month	3.28	7.13	7.11	7.11
3 months	3.50	7.28	7.27	7.26
6 months	3.75	7.36	7.32	7.26
1 year	3.96	7.45	7.39	7.28

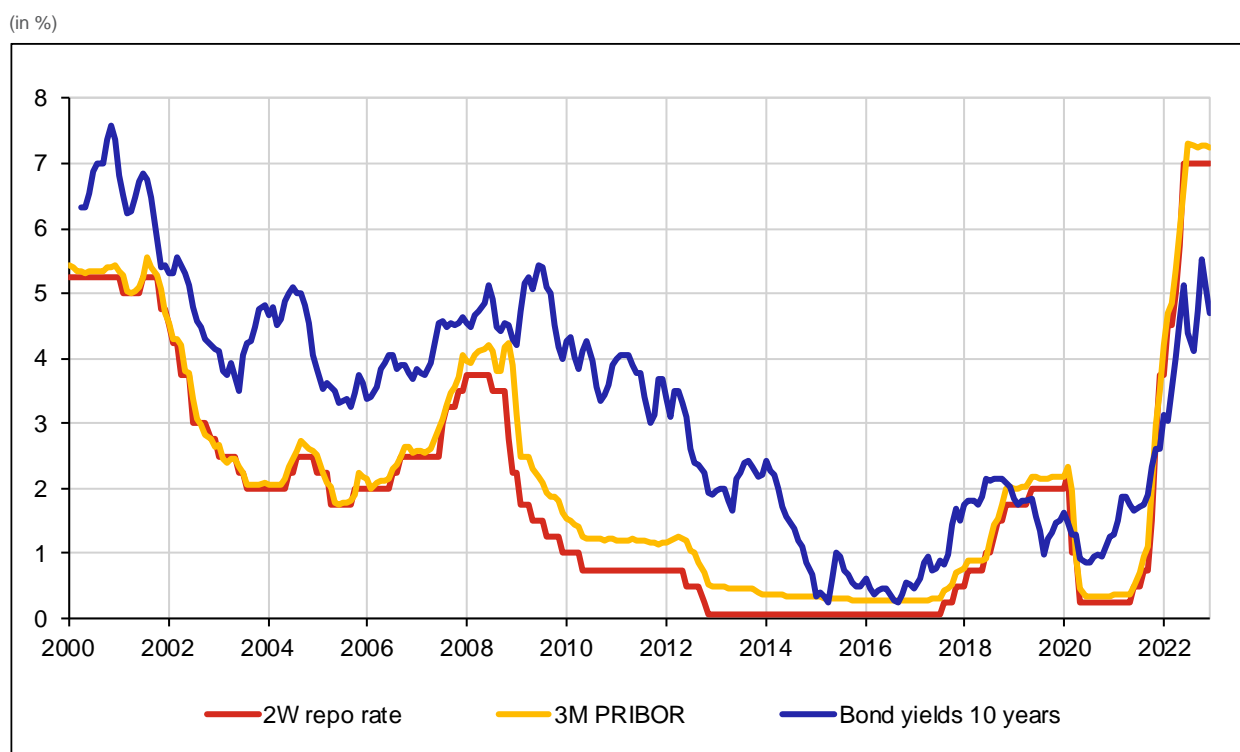
### I.3 TABLE 2B – CAPITAL MARKET INTEREST RATES

(in %, monthly average)

	2021		2022					
	December		October		November		December	
	CZ	Euro area	CZ	Euro area	CZ	Euro area	CZ	Euro area
<b>Bond yields</b>								
2 years	3.07	-0.54	6.18	2.19	5.68	2.32	5.19	2.55
5 years	2.84	-0.20	5.69	2.73	5.31	2.66	4.90	2.76
10 years (Maastricht)	2.62	0.28	5.52	3.19	5.11	2.94	4.71	3.00

Source: Czech National Bank, European Central Bank.

Graph I.1 Financial market interest rates in CZ



## I.4 COMMENTARY ON TABLES 1 – 2

*Commentary on key interest rates (Table 1) and financial market interest rates (Table 2): December 2022.*

### I.4.1 Key interest rates

All the rates of the Czech National Bank (CNB) were changed on the basis of the CNB Bank Board's decision in late June 2022. They were all raised by 1.25 percentage points. Specifically, the 2W repo rate increased to 7.00%, the discount rate to 6.00% and the Lombard rate to 8.00%. The key interest rate of the European Central Bank (ECB) was raised to 2.50% with effect from 21 December 2022. The ECB's Lombard rate also increased by 0.50 percentage point (to 2.75%) as of the same date as the ECB's key rate. The ECB's discount rate rose by the same amount to 2.00%.

### I.4.2 Financial market interest rates

All the four monitored interest rates on the Czech interbank deposit market declined or were flat in month-on-month terms in December. The 1M PRIBOR was unchanged from November at 7.11%. The 3M PRIBOR fell by 0.01 percentage point to 7.26%. The 6M PRIBOR dropped from 7.32% in November to 7.26% in December. The 1Y PRIBOR recorded the largest decrease, down by 0.11 percentage point to 7.28%. The CZEONIA interest rate (i.e. the rate on unsecured O/N deposits placed by banks and foreign bank branches on the interbank market, including deposits placed in the CNB's deposit facility) was also flat at 6.54%.

All the three monitored interest rates on the Czech capital market decreased markedly between November and December. The yield on the 2Y Czech bond fell by 0.49 percentage point to 5.19%. The yield on the 5Y bond decreased by 0.41 percentage point to 4.90% and that on the 10Y bond declined by 0.40 percentage point to 4.71%. The yield on the 2Y euro area bond increased by 0.23 percentage point to 2.55%. The yield on the 5Y euro area bond rose by 0.10 percentage point to 2.76%. The yield on the 10Y bond grew by 0.06 percentage point to 3.00%. The largest differential between Czech and euro area bond yields was recorded for the 2Y bond, reaching 2.64 percentage points.

## II. MONETARY DEVELOPMENTS

### II.1 TABLE 3 – KEY MONETARY INDICATORS

(CZK billions, unless otherwise indicated)

	2021			2022								
	December			October			November			December		
	Stocks	Flows <sup>4)</sup>	Annual growth rates (%)	Stocks	Flows <sup>4)</sup>	Annual growth rates (%)	Stocks	Flows <sup>4)</sup>	Annual growth rates (%)	Stocks	Flows <sup>4)</sup>	Annual growth rates (%)
M1	5 057.1	-80.7	5.8	4 872.1	-6.5	-5.5	4 869.6	4.3	-4.9	4 799.2	-63.6	-4.6
M3 <sup>1)</sup>	5 611.0	-115.8	7.1	6 113.9	43.4	7.5	6 133.5	27.4	7.6	5 953.8	-172.0	6.7
Loans to private sector <sup>2)</sup>	3 509.1	20.4	9.9	3 742.2	26.8	10.0	3 752.1	15.4	9.6	3 709.2	-34.6	8.0
Net foreign assets <sup>3)</sup>	2 545.6	-12.8	3.7	2 330.0	24.2	-1.3	2 292.7	-32.9	-1.0	2 202.6	-4.3	-0.7

1) Monetary aggregates comprise monetary liabilities of MFIs vis-à-vis non-MFI Czech residents excluding central government. M1 is the sum of currency in circulation and overnight deposits; M2 is the sum of M1, deposits with an agreed maturity of up to two years and deposits redeemable at notice of up to three months; and M3 is the sum of M2, repurchase agreements, money market fund shares/units and debt securities up to two years.

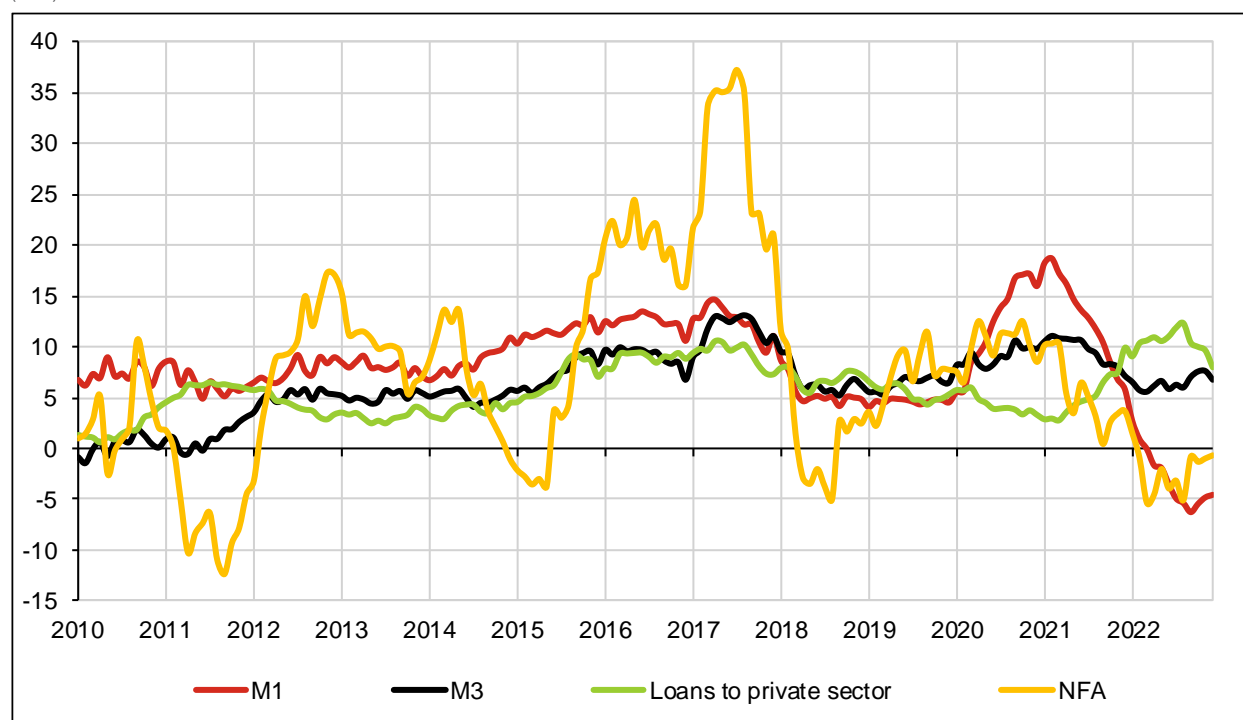
2) Including all resident sectors without general government (S.13) and MFIs sector (S.121, S.122 and S.123 according to ESA2010).

3) Net foreign assets (NFA) represent balance of financial claims and liabilities of the MFI sector vis-à-vis non-residents.

4) Net value of flow data calculated by adjusting the difference between end-of-period levels for the effect of non-transactions-related factors.

#### Graph II.1 Annual growth rates

(in %)



## II.2 TABLE 4 – MONETARY AGGREGATES AND COUNTERPARTS

(CZK billions, unless otherwise indicated)

	2021			2022								
	December			October			November			December		
	Stocks	Flows <sup>1)</sup>	Annual growth rates (%)	Stocks	Flows <sup>1)</sup>	Annual growth rates (%)	Stocks	Flows <sup>1)</sup>	Annual growth rates (%)	Stocks	Flows <sup>1)</sup>	Annual growth rates (%)
<b>COMPONENTS OF M3</b>												
(1) <b>M3 (items 1.3, 1.6 and 1.8)</b>	5 611.0	-115.8	7.1	6 113.9	43.4	7.5	6 133.5	27.4	7.6	5 953.8	-172.0	6.7
(1.1) Currency in circulation	691.2	-2.6	3.5	681.0	0.6	-2.1	678.3	-2.7	-2.2	673.4	-4.9	-2.6
(1.2) Overnight deposits	4 365.9	-78.0	6.1	4 191.1	-7.1	-6.0	4 191.3	7.0	-5.3	4 125.8	-58.7	-5.0
(1.3) <b>M1 (items 1.1 and 1.2)</b>	5 057.1	-80.7	5.8	4 872.1	-6.5	-5.5	4 869.6	4.3	-4.9	4 799.2	-63.6	-4.6
(1.4) Deposits with agreed maturity up to 2 years	286.9	-16.1	63.6	829.4	39.2	250.6	864.9	36.4	190.0	830.3	-33.6	194.3
(1.5) Deposits redeemable at notice up to 3 months	198.0	3.2	-3.9	214.4	-1.1	9.5	205.3	-9.1	5.4	187.8	-17.5	-5.1
(1.6) Other short term deposits (items 1.4 and 1.5)	484.9	-12.9	27.1	1 043.8	38.2	142.0	1 070.2	27.3	117.4	1 018.1	-51.1	112.5
(1.7) <b>M2 (items 1.3 and 1.6)</b>	5 542.0	-93.6	7.3	5 915.9	31.7	5.9	5 939.8	31.6	5.9	5 817.3	-114.7	5.6
(1.8) Marketable instruments <sup>2), 3)</sup>	69.0	-22.2	-	197.9	11.7	-	193.7	-4.2	-	136.5	-57.3	-
<b>COUNTERPARTS OF M3</b>												
<b>MFI liabilities</b>												
(2) Holdings deposits against central government	609.8	116.9	25.4	636.1	25.0	25.9	583.6	-52.2	18.4	624.3	41.3	2.5
(3) Longer-term financial deposits against other residents (items 3.1 to 3.4)	1 116.9	-6.4	10.0	870.6	11.6	3.6	871.6	-7.7	2.7	774.4	-5.7	2.5
(3.1) Deposits with agreed maturity over 2 years	232.5	4.6	1.2	219.1	-0.9	-3.7	218.2	-0.8	-4.2	222.8	4.6	-4.1
(3.2) Deposits redeemable at notice over 3 months	17.4	-3.7	-20.1	15.9	0.0	-39.8	24.8	8.8	17.6	24.8	0.0	42.5
(3.3) Debt securities issued with maturity over 2 years	126.5	15.9	58.9	164.0	11.8	75.3	178.3	15.3	62.9	182.9	5.5	47.2
(3.4) Capital and reserves	740.5	-23.2	8.5	471.5	0.8	-2.1	450.3	-31.0	-7.3	343.9	-15.8	-7.9
<b>MFI assets</b>												
(4) Credit to residents (items 4.1 and 4.2)	4 644.9	6.3	13.0	5 140.2	68.0	13.7	5 156.7	11.4	13.1	5 022.0	-120.8	10.3
(4.1) Credit to general government	1 051.8	-9.8	25.8	1 304.6	37.7	26.7	1 310.2	-4.4	25.0	1 221.2	-85.7	17.9
(4.2) Credit to private sector	3 593.1	16.1	9.7	3 835.6	30.3	9.8	3 846.5	15.8	9.5	3 800.8	-35.0	8.0
(5) Net foreign assets	2 545.6	-12.8	3.7	2 330.0	24.2	-1.3	2 292.7	-32.9	-1.0	2 202.6	-4.3	-0.7
(6) Other counterparts of M3 (residual) (=M3+items 2,3 - items 4,5) <sup>2)</sup>	147.3	1.2	-	150.3	-12.2	-	139.3	-11.0	-	127.9	-11.3	-

1) Net value of flow data calculated by adjusting the difference between end-of-period levels for the effect of non-transactions-related factors.

2) Given the significant variability of the underlying values, annual growth rates are not calculated.

3) Marketable instruments contain repo operations, MMF shares/units and debt securities with maturity up to 2 years.

## II.3 TABLE 5 – SECTOR BREAKDOWN OF COMPONENTS OF M3

(CZK billions)

	2021		2022					
	December		October		November		December	
	Stocks	Flows <sup>1)</sup>	Stocks	Flows <sup>1)</sup>	Stocks	Flows <sup>1)</sup>	Stocks	Flows <sup>1)</sup>
<b>(1) Overnight deposits</b>	4 365.9	-78.0	4 191.1	-7.1	4 191.3	7.0	4 125.8	-58.7
(1.1) Other general government	229.5	-69.7	303.7	-11.4	308.0	4.3	232.1	-75.9
(1.2) Other financial intermediaries <sup>2)</sup>	121.4	2.7	125.2	12.1	135.0	10.4	141.7	7.3
(1.3) Insurance corporations and pension funds	20.6	-2.8	23.2	0.3	23.1	0.0	16.6	-6.4
(1.4) Non-financial corporations	1 196.6	7.0	1 087.3	1.4	1 093.1	9.6	1 081.9	-7.2
(1.5) Households <sup>3)</sup>	2 797.9	-15.3	2 651.7	-9.4	2 632.1	-17.3	2 653.4	23.5
<b>(2) M2 - M1 (other short- term deposits)</b>	484.9	-12.9	1 043.8	38.2	1 070.2	27.3	1 018.1	-51.1
(2.1) Other general government	20.4	-24.2	87.3	2.2	74.0	-13.3	39.7	-34.4
(2.2) Other financial intermediaries <sup>2)</sup>	48.2	2.7	106.7	4.8	110.0	3.4	93.0	-16.9
(2.3) Insurance corporations and pension funds	12.0	3.4	14.5	-1.3	15.1	0.7	11.6	-3.5
(2.4) Non-financial corporations	114.0	-14.6	287.5	20.3	298.3	11.2	287.6	-10.2
(2.5) Households <sup>3)</sup>	290.3	19.9	547.8	12.2	572.8	25.3	586.2	13.8
<b>(3) Repurchase agreements (a part of M3 - M2)</b>	70.1	-22.6	198.2	11.2	193.9	-4.3	135.7	-58.2

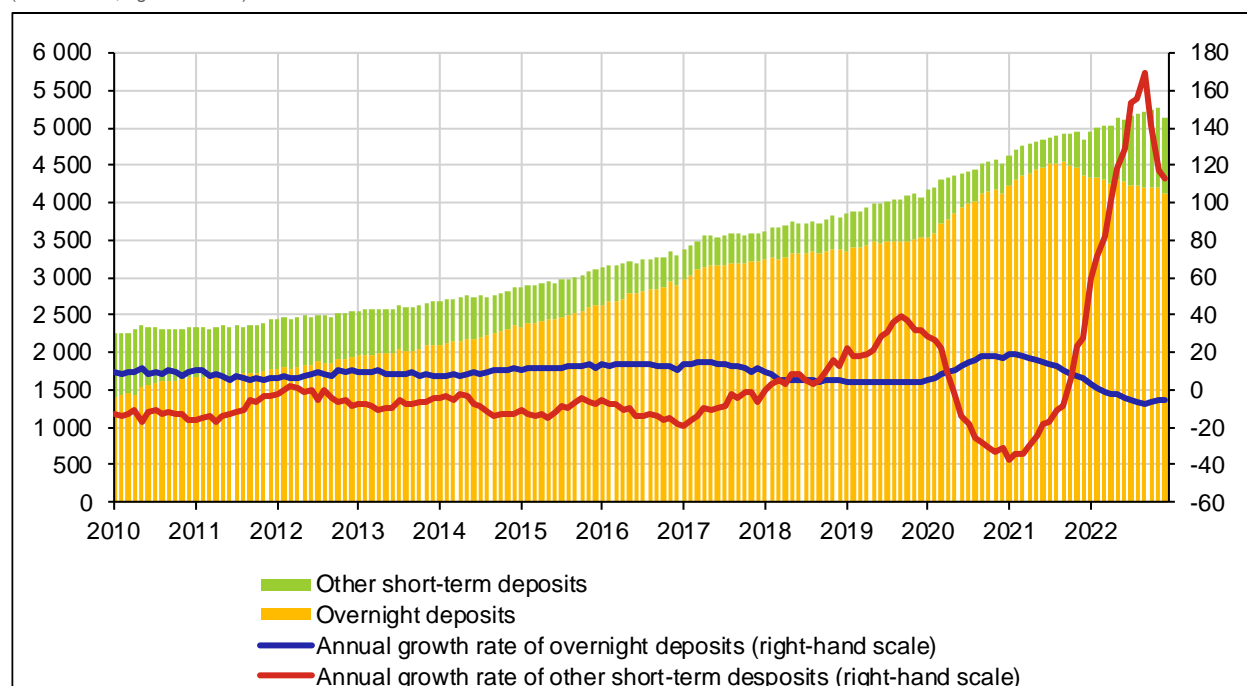
1) Net value of flow data calculated by adjusting the difference between end-of-period levels for the effect of non-transactions-related factors.

2) Including other financial intermediaries (without insurance corporations and pension funds) (S.124 and S.125 according to ESA2010), financial auxiliaries (S.126 according to ESA2010) and captive financial institutions (S.127 according to ESA2010).

3) Including households (S.14) and non-profit institutions serving households (S.15) according to ESA2010.

### Graph II.2 Overnight deposits and other short-term deposits and their annual growth rates

(CZK billions, right axis in %)



## II.4 TABLE 6 – LOANS TO PRIVATE SECTOR

(CZK billions)

	2021		2022					
	December		October		November		December	
	Stocks	Flows <sup>1)</sup>	Stocks	Flows <sup>1)</sup>	Stocks	Flows <sup>1)</sup>	Stocks	Flows <sup>1)</sup>
<b>(1) Loans to non-financial corporations</b>	1 199.8	-8.1	1 294.9	9.7	1 289.4	-1.3	1 244.1	-38.9
(1.1) up to 1 year	266.0	-4.4	315.3	0.1	316.6	2.9	275.8	-38.7
(1.2) over 1 year and up to 5 years	262.1	-9.8	277.4	3.9	267.9	-8.7	264.9	-1.9
(1.3) over 5 years	671.7	6.0	702.2	5.7	704.9	4.5	703.4	1.7
<b>(2) Loans to households<sup>2)</sup></b>	2 049.3	17.3	2 133.5	7.2	2 141.7	8.4	2 146.9	5.6
(2.1) Consumer credit	281.9	1.2	294.0	1.6	302.1	2.3	302.4	0.5
(2.2) Lending for house purchase	1 597.2	15.0	1 663.3	4.9	1 669.4	6.0	1 674.2	4.9
(2.3) Other lending	170.1	1.2	176.1	0.7	170.2	0.1	170.3	0.2
<b>(3) Loans to other financial intermediaries<sup>3)</sup></b>	258.1	10.3	311.1	9.5	318.8	8.7	315.7	-1.6
<b>(4) Loans to insurance corporations and pension funds</b>	1.9	0.9	2.7	0.5	2.3	-0.4	2.5	0.2

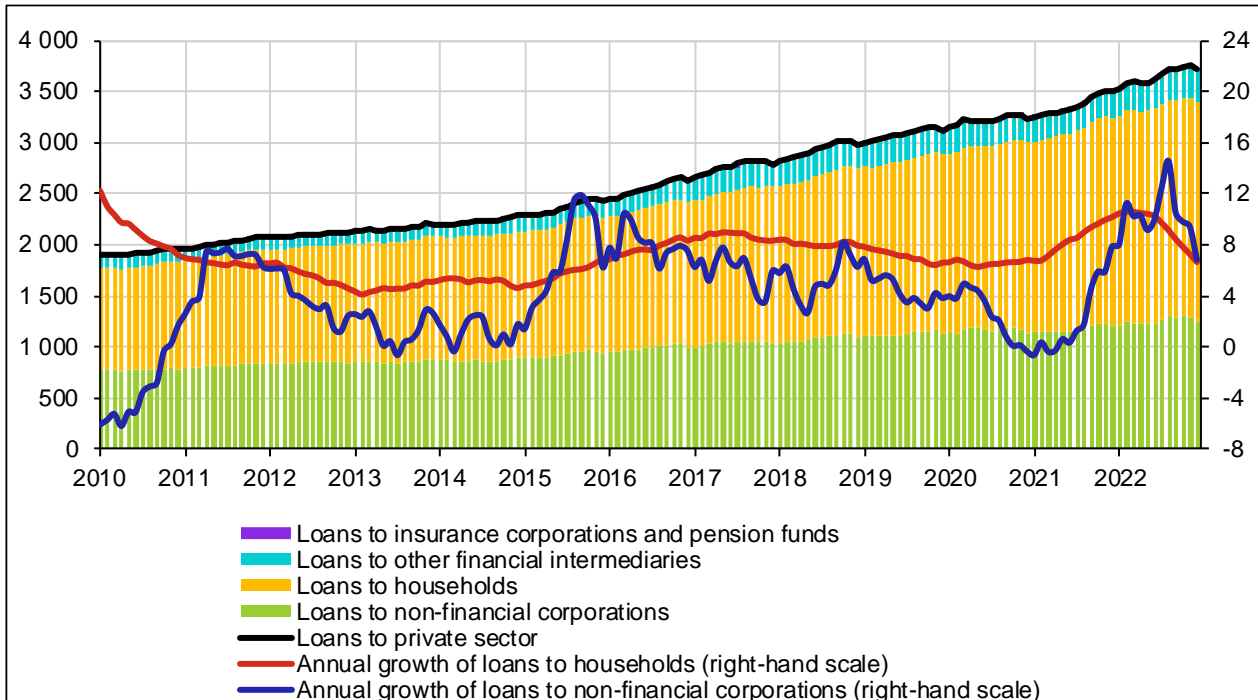
1) Net value of flow data calculated by adjusting the difference between end-of-period levels for the effect of non-transactions-related factors.

2) Including households (S.14) and non-profit institutions serving households (S.15) according to ESA2010.

3) Including other financial intermediaries (without insurance corporations and pension funds) (S.124 and S.125 according to ESA2010), financial auxiliaries (S.126 according to ESA2010) and captive financial institutions (S.127 according to ESA2010).

### Graph II.3 Loans to private sector and annual growth of loans to non-financial institutions and households

(CZK billions, right axis in %)



## II.5 TABLE 7 – CONTRIBUTIONS TO ANNUAL GROWTH OF M3

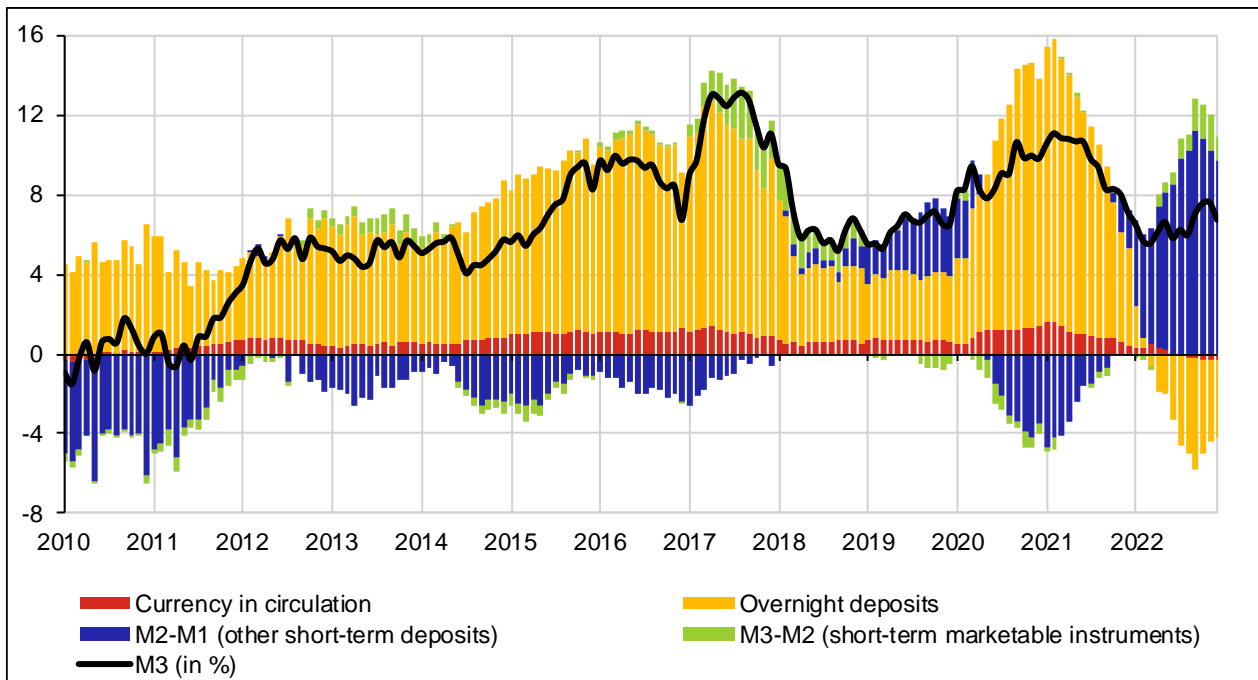
(in percentage points, unless otherwise indicated)

	2021		2022	
	December	October	November	December
M1	5.3	-5.0	-4.4	-4.2
of which: Currency	0.4	-0.3	-0.3	-0.3
Overnight deposits	4.8	-4.7	-4.1	-3.8
M2-M1 (=other short-term deposits)	2.0	10.8	10.2	9.7
M3-M2 (=short-term marketable instruments)	-0.1	1.7	1.8	1.2
M3 (in %)	7.1	7.5	7.6	6.7

Comment: Contributions to growth are the growth rates of M3 weighted by the share in total M3.

### Graph II.4 Contributions to annual growth of M3

(in percentage points, unless otherwise indicated)



## II.6 TABLE 8 – CONTRIBUTIONS TO ANNUAL GROWTH OF LOANS TO PRIVATE SECTOR

(in percentage points, unless otherwise indicated)

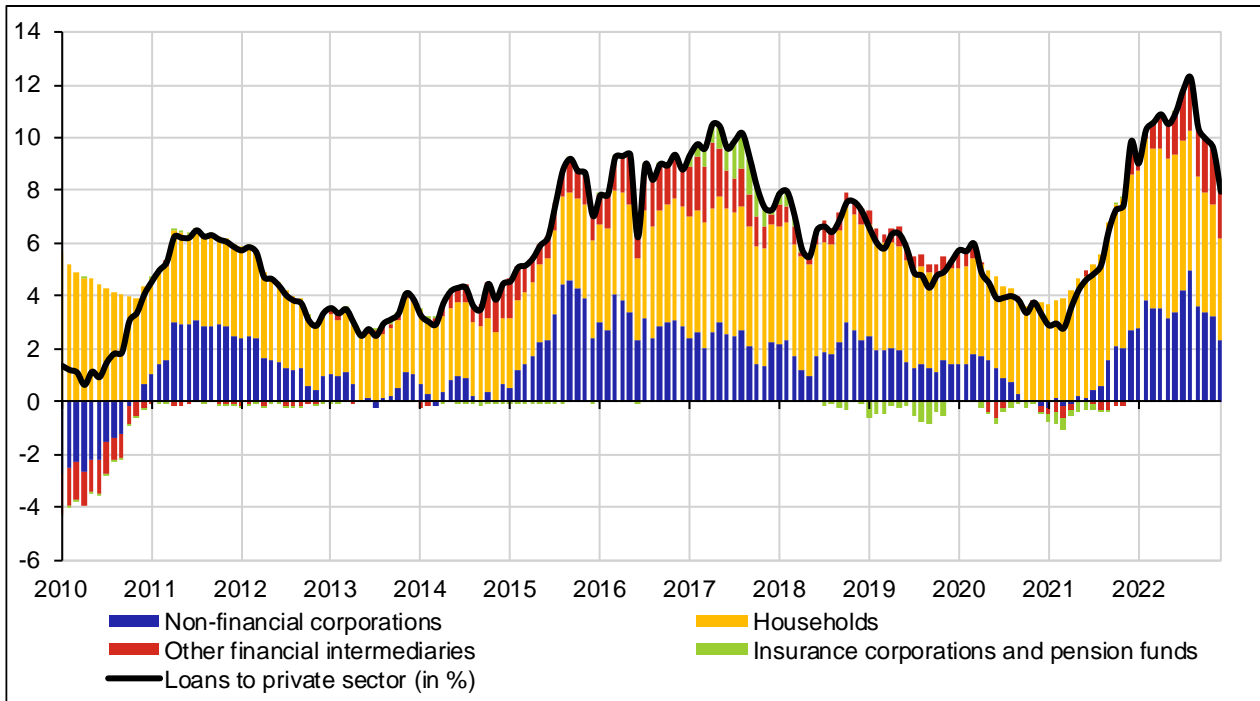
	2021	2022		
	December	October	November	December
Non-financial corporations	2.7	3.4	3.2	2.3
Households <sup>1)</sup>	5.9	4.5	4.2	3.8
Other financial intermediaries <sup>2)</sup>	1.2	2.0	2.2	1.8
Insurance corporations and pension funds	0.0	0.0	0.0	0.0
Loans to private sector <sup>3)</sup> (in %)	9.9	10.0	9.6	8.0

Comment: Contributions to growth are the growth rates of lending weighted by the share in total lending to private sector.

- 1) Including households (S.14) and non-profit institutions serving households (S.15) according to ESA2010.
- 2) Including other financial intermediaries (without insurance corporations and pension funds) (S.124 and S.125 according to ESA2010), financial auxiliaries (S.126 according to ESA2010) and captive financial institutions (S.127 according to ESA2010).
- 3) Including all sectors without general government (S.13) and MFIs sector (S.121, S.122 and S.123) according to ESA2010.

### Graph II.5 Contributions to annual growth of loans to private sector

(in percentage points, unless otherwise indicated)



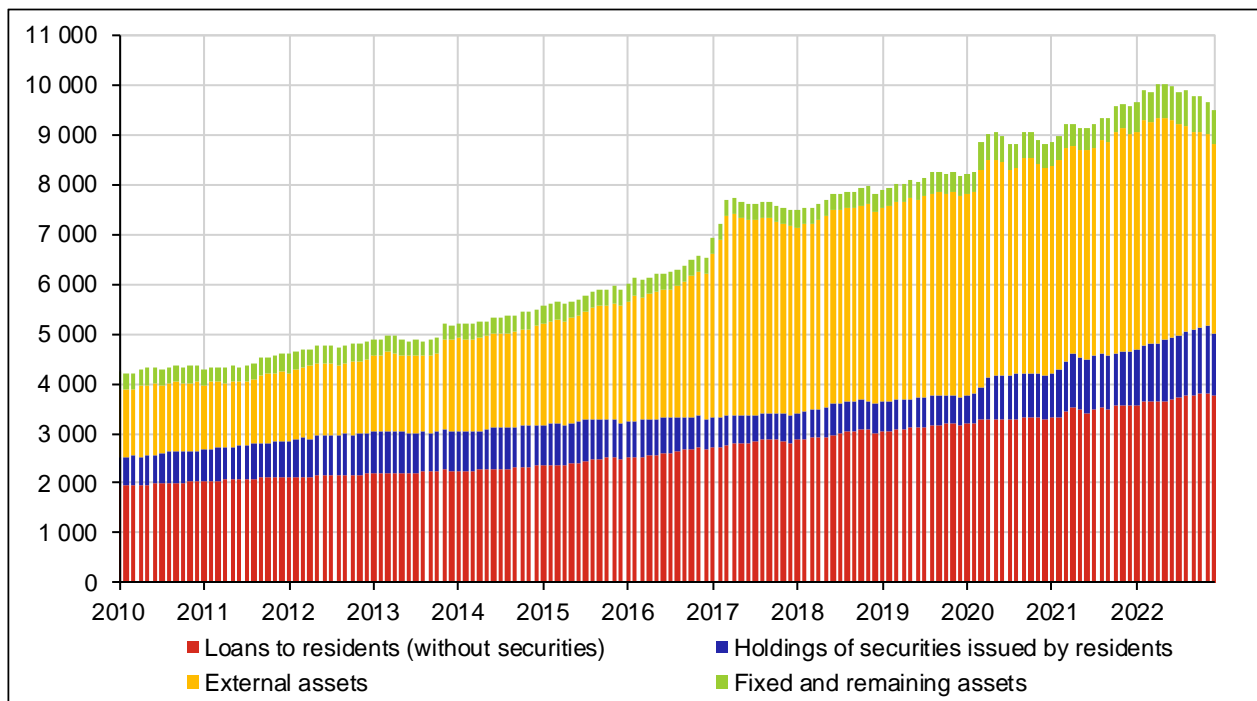
## II.7 TABLE 9A – BALANCE SHEETS OF MONETARY FINANCIAL INSTITUTIONS BY REPORTING INSTITUTIONS (ASSETS): DECEMBER 2022

(CZK billions)

	MFI		Consolidated balance sheet of MFIs
	CNB	Other MFIs	
<b>(1) Assets total</b>	<b>3 195.1</b>	<b>8 954.8</b>	<b>9 516.2</b>
(1.1) Loans to residents (without securities)	1.8	5 931.3	3 771.4
MFI	0.0	2 161.7	-
General government	0.0	62.2	62.2
Other residents	1.8	3 707.4	3 709.2
(1.2) Holdings of securities other than shares issued by residents	2.4	1 543.3	1 191.7
MFI	0.0	353.9	-
General government	2.4	1 156.7	1 159.0
Other residents	0.0	32.7	32.7
(1.3) Holdings of shares/other equity issued by residents	0.0	144.1	58.9
MFI	0.0	85.2	-
Other residents	0.0	58.9	58.9
(1.4) External assets	3 133.7	671.2	3 804.9
(1.5) Fixed assets	11.4	187.8	199.2
(1.6) Remaining assets	45.9	477.1	490.2

### Graph II.6 Consolidated balance sheet of MFIs: assets

(CZK billions)



## II.8 TABLE 9B – BALANCE SHEETS OF MONETARY FINANCIAL INSTITUTIONS BY REPORTING INSTITUTIONS (LIABILITIES): DECEMBER 2022

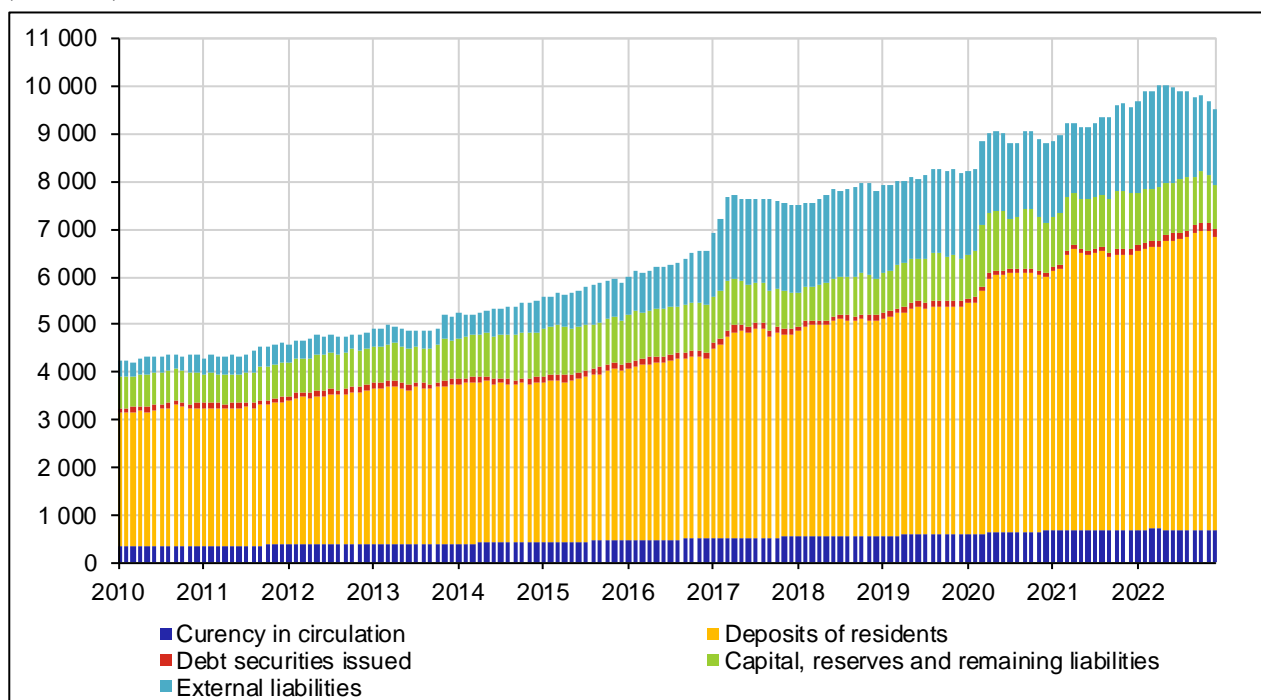
(CZK billions)

	MFI		Consolidated balance sheet of MFIs
	CNB	Other MFIs	
<b>(2) Liabilities total</b>	<b>3 195.1</b>	<b>8 954.8</b>	<b>9 516.2</b>
(2.1) Currency in circulation	706.3	-	673.4
(2.2) Deposits of residents	2 588.6	5 714.8	6 151.5
MFI	2 050.9	100.9	-
Central government	512.2	112.1	624.3
Other general government/other residents	25.5	5 501.7	5 527.2
(2.3) Debt securities issued	0.0	537.6	183.6
(2.4) Capital and reserves <sup>1)</sup>	-471.8	901.0	343.9
(2.5) External liabilities	331.9	1 270.3	1 602.3
(2.6) Remaining liabilities	40.1	531.2	571.4
(2.7) Excess of inter MFI liabilities	-	-	-9.9

1) Item Capital and reserves contains also MMF shares/units.

### Graph II.7 Consolidated balance sheet of MFIs: liabilities

(CZK billions)



## II.9 COMMENTARY ON TABLES 3 – 9

### *Commentary on monetary developments statistics<sup>1</sup> (Tables 3 – 9): December 2022.*

The evolution of the annual rate of growth of M3 was characterised by a downward trend from March 2021 (11.1% in February 2021) to March 2022 (5.5%). This trend halted in April when the rate rose by 0.6 percentage point from the previous month to 6.1%. The annual growth rate developed irregularly in the subsequent months, reaching 6.7% in December 2022 (down by 0.9 percentage point compared to November 2022). As a result of financial transactions, M3 fell by CZK 172.0 billion month on month in December 2022 (up by CZK 377.1 billion year on year), reaching CZK 5,953.8 billion.

#### II.9.1 Main components of M3

Individual components of the annual rate of growth of M3 showed mixed developments in December 2022. The contribution of currency in circulation remained flat for the second consecutive month (-0.3 percentage point in October, November and December). The contribution of overnight deposits increased again slightly but remained negative (up from -4.1 percentage points in November to -3.8 percentage points in December). The contribution of other short-term deposits, which reached its highest level since 2003 (i.e. the start of the time series) in September 2022, decreased gradually in the following three months (from 10.8 percentage points in October to 10.2 percentage points in November and 9.7 percentage points in December). The contribution of short-term marketable instruments decreased slightly (from 1.8 percentage points in November to 1.2 percentage points in December).

Owing to financial transactions, overnight deposits decreased by 1.4%, or CZK 58.7 billion, month on month in December. This was due mainly to strong decreases in deposits of insurance corporations and pension funds and deposits of other government (down by 27.7%, or CZK 6.4 billion, and by 24.6%, or CZK 75.9 billion respectively). Deposits of non-financial corporations recorded a very modest decline (down by 0.7%, or CZK 7.2 billion). By contrast, increases were recorded for deposits of other financial intermediaries (up by 5.4%, or CZK 7.3 billion) and also a slight increase for deposits of households (up by 0.9%, or CZK 23.5 billion).

Other short-term deposits (excluding overnight deposits) also recorded a month-on-month decrease of 4.8% (CZK 51.1 billion) in December, owing to financial transactions. All components contributed to the decline, except for deposits of households, which saw a slight decrease (up by 2.4%, or CZK 13.8 billion). A sharp decrease was recorded by deposits of other government (down by 46.4%, or CZK 34.4 billion). However, deposits of insurance corporations and pension funds also declined strongly (down by 23.1%, or CZK 3.5 billion), as did deposits of other financial intermediaries (down by 15.3%, or CZK 16.9 billion). Last but not least, deposits of non-financial corporations also decreased slightly (by 3.4%, or CZK 10.2 billion). The annual growth rate of other short-term deposits decreased by 4.9 percentage points to 112.5% in December. While the annual growth rate of deposits redeemable at notice of up to three months decreased (by 10.5 percentage points to -5.1%), that of deposits with agreed maturity of up to two years increased slightly (by 4.3 percentage points to 194.3%).

Marketable instruments, which consist of repos, money market fund shares/units and debt securities with maturities of up to two years, decreased by CZK 57.3 billion in December, to CZK 136.5 billion.

#### II.9.2 Main counterparts of M3

The annual rate of growth of loans to the private sector, which are the most important counterpart of M3, decreased from 9.6% in November 2022 to 8.0% in December. The annual growth rate of loans to non-financial corporations, a major component of this indicator, saw a month-on-month decrease of 2.6 percentage points from 9.4% in November 2022 to 6.8% in December. The annual growth rate of loans to households, another major component, was slightly above 10% from December 2021 to June 2022. However, it has gradually declined or remained flat since March 2022, falling to 6.6% in December (down by 0.6 percentage point from November).

As regards liabilities of monetary financial institutions, declines were recorded for the annual growth rate of deposits of central government in December (from 18.4% in November to 2.5% in December) and also marginally for the annual growth rate of longer-term financial liabilities (from 2.7% in November to 2.5% in December). As regards assets of monetary financial institutions, declines were recorded for the annual growth rate of loans provided to the government sector and purchased securities (from 25.0% in November to 17.9% in December), while the annual growth rate of net foreign assets rose marginally (from -1.0% in November to -0.7% in December).

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<sup>1</sup> All increases and decreases referred to in this commentary relate only to financial transactions adjusted for non-transaction effects.

### III. MONETARY FINANCIAL INSTITUTIONS INTEREST RATES

#### III.1 TABLE 10 – MFI INTEREST RATES ON NEW BUSINESS

(CZK billions, unless otherwise indicated)

	2021		October		2022		November		December	
	December		October		November		December		December	
	Interest rate (% p.a.)	Volume	Interest rate (% p.a.)	Volume	Interest rate (% p.a.)	Volume	Interest rate (% p.a.)	Volume	Interest rate (% p.a.)	Volume
<b>(1) Deposits from households<sup>1)</sup></b>										
(1.1) Overnight <sup>2)</sup>	0.29	2 675.5	1.19	2 509.6	1.28	2 490.0	1.33	2 508.4		
of which: current accounts	0.06	1 736.0	0.17	1 472.1	0.17	1 434.6	0.22	1 437.7		
(1.2) With agreed maturity	2.32	51.9	6.06	86.3	6.09	100.5	6.00	92.5		
of which: Up to 2 years	2.32	50.3	6.07	85.4	6.10	99.4	6.02	91.0		
(1.3) Redeemable at notice <sup>2), 3)</sup>	1.32	205.1	2.18	194.1	2.23	192.3	2.29	193.8		
(1.3.1) Up to 3 months' notice	1.41	188.0	2.31	178.5	2.37	176.9	2.42	178.4		
(1.3.2) Over 3 months' notice	0.25	17.1	0.63	15.6	0.66	15.4	0.72	15.4		
<b>(2) Deposits from non-financial corporat.</b>										
(2.1) Overnight <sup>2)</sup>	0.22	898.0	1.53	760.9	1.57	768.3	1.10	769.3		
of which: current accounts	0.20	814.7	0.92	621.1	0.92	621.0	0.81	673.8		
(2.2) With agreed maturity	2.47	118.8	6.46	221.4	6.48	234.7	5.78	206.5		
of which: Up to 1 year	2.47	118.7	6.46	221.3	6.48	234.6	5.78	206.1		
<b>(3) Loans to households<sup>1)</sup></b>										
(3.1) Consumer house pur. and other loans	3.76	70.8	6.81	30.9	6.81	32.4	6.59	29.7		
(3.1.1) Consumer credit	7.91	11.2	9.69	10.9	9.62	12.4	9.66	9.9		
(3.1.2) Lending for house purchase	2.92	55.2	4.86	16.7	4.84	17.4	4.88	17.2		
of which: Mortgage lending <sup>4)</sup>	2.85	51.7	4.63	14.9	4.61	15.5	4.68	15.6		
Saving for building purposes	4.08	2.4	6.64	1.4	6.64	1.5	6.62	1.4		
(3.1.3) Other lending	3.62	4.4	7.10	3.3	6.63	2.7	6.19	2.5		
(3.2) Overdraft <sup>5)</sup> and revolving loans <sup>2)</sup>	12.90	19.0	15.09	17.3	15.17	17.2	15.42	17.2		
(3.3) Credit cards <sup>2)</sup>	17.18	16.3	16.74	16.2	16.57	16.8	16.53	16.8		
<b>(4) Loans to non-financial corporations</b>										
(4.1) Total loans (all size categories)	4.45	51.4	9.09	37.7	8.27	29.4	8.97	44.2		
(4.1.1) Up to CZK 7.5 million	4.86	3.4	8.13	2.0	8.12	2.1	7.54	2.5		
of which: Up to 3 months rate fixation <sup>6)</sup>	5.75	1.4	9.74	0.9	9.52	0.9	9.40	0.9		
(4.1.2) CZK 7.5-30 million	4.71	6.5	7.85	2.8	8.03	3.1	8.03	4.2		
of which: Up to 3 months rate fixation <sup>6)</sup>	5.19	3.0	8.87	1.2	9.13	1.3	8.69	1.6		
(4.1.3) Over to CZK 30 million	4.38	41.5	9.26	32.9	8.31	24.2	9.17	37.5		
of which: Up to 3 months rate fixation <sup>6)</sup>	4.93	21.6	9.29	25.2	8.16	18.9	9.29	26.9		
(4.2) Overdraft <sup>5)</sup> , revolving and credit cards <sup>2)</sup>	5.38	203.3	8.99	181.6	8.95	178.6	9.01	163.9		
<b>(5) APRC<sup>7)</sup> on loans to households<sup>1)</sup></b>	3.95	66.4	7.02	27.6	7.12	29.7	6.89	27.2		
(5.1) Consumer credit	8.28	11.2	10.17	10.9	10.10	12.4	10.10	9.9		
(5.2) Lending for house purchase	3.07	55.2	4.95	16.7	5.01	17.4	5.04	17.2		
of which: Mortgage lending <sup>4)</sup>	2.98	51.7	4.67	14.9	4.66	15.5	4.75	15.6		

Comment: The interest rates applied by MFIs to CZK-denominated deposits and loans vis-à-vis households and non-financial corporations resident in the Czech Republic. New business refers to any new agreement between the customer and the MFI within given period.

- 1) Including households (S.14) and non-profit institutions serving households (S.15) according to the classification ESA2010.
- 2) For this instrument category the new business are equal to the outstanding amounts (end-of-period stocks).
- 3) Households deposits redeemable at notice include similar deposits of non-financial corporations of which volumes are negligible in this category.
- 4) Since 2019, the amendment to Act No. 190/2004 Coll., on Bonds, as amended, has been fully applied, under which a mortgage loan is a loan, which is secured at least partly by lien (right of pledge) over real estate (property).
- 5) Debit balances on current accounts. The total amount owed by the borrower is included, irrespective of whether is within or beyond any limit agreed beforehand.
- 6) The initial period of fixations is a predetermined period of time at the start of the contract during which the value of the interest rate cannot change. Period up to 3 months includes floating rates.
- 7) Annual percentage rate of charge (APRC) covers total costs of the credit to the client including charges etc.

### III.2 TABLE 11 – INTEREST RATES OF MONETARY FINANCIAL INSTITUTIONS – OUTSTANDING AMOUNTS

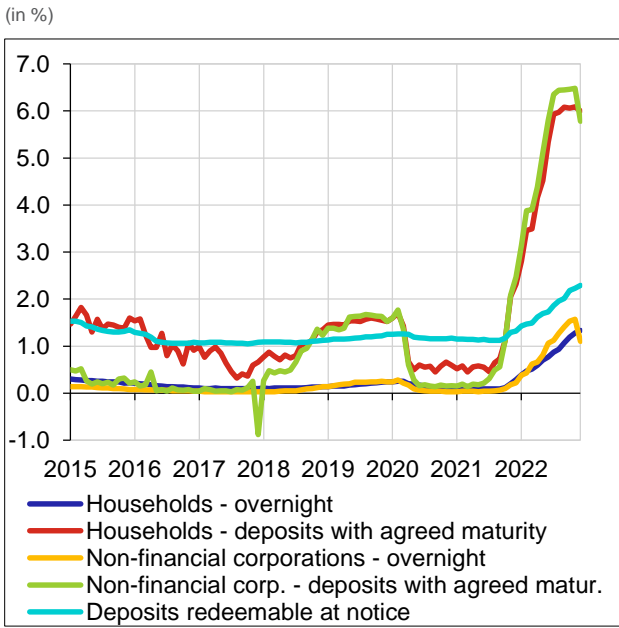
(CZK billions, unless otherwise indicated)

	2021		2022					
	December		October		November		December	
	Interest rate (% p.a.)	Volume	Interest rate (% p.a.)	Volume	Interest rate (% p.a.)	Volume	Interest rate (% p.a.)	Volume
<b>(1) Deposits from households<sup>1), 2)</sup></b>	0.45	3198.6	1.65	3268.6	1.76	3270.4	1.83	3304.5
(1.1) With agreed maturity	1.26	327.2	3.54	576.4	3.71	600.1	3.81	615.6
(1.1.1) Up to 2 years	1.90	104.9	4.95	368.5	5.12	392.0	5.24	403.1
(1.1.2) Over 2 years	0.96	222.3	1.03	207.8	1.07	208.1	1.11	212.6
<b>(2) Deposits from non-financial corp.<sup>2)</sup></b>	0.41	1 005.3	2.99	1 093.6	3.00	1 097.1	2.20	1 021.1
(2.2) With agreed maturity	1.95	97.7	6.13	246.8	6.17	249.5	5.57	238.1
(2.2.1) Up to 2 years	1.94	95.9	6.15	245.6	6.18	248.3	5.58	236.9
(2.2.2) Over 2 years	2.50	1.8	3.00	1.2	3.09	1.2	3.25	1.2
<b>(3) Loans to households</b>	3.27	2 044.2	3.54	2 125.6	3.58	2 133.9	3.61	2 138.9
(3.1) Lending for house purchase	2.41	1 596.4	2.65	1 661.9	2.68	1 668.0	2.71	1 672.8
of which: Mortgage lending <sup>3)</sup>	2.27	1 506.7	2.51	1 568.8	2.54	1 574.2	2.57	1 578.5
Saving for building purposes	4.78	78.9	4.97	83.5	5.01	84.0	5.05	84.4
(3.2) Consumer credit and other lending <sup>4)</sup>	6.45	447.8	6.86	463.7	6.91	465.9	6.95	466.1
of which: consumer credit	8.21	281.5	8.41	292.4	8.44	300.5	8.48	300.7
other lending	3.52	166.4	4.28	171.3	4.15	165.5	4.18	165.5
<b>(4) Loans to non-financial corporations</b>	4.67	788.0	7.32	714.2	7.31	705.6	7.33	681.5
(4.1) Up to 1 year	5.33	172.5	9.07	157.3	9.06	154.8	9.13	142.7
(4.2) Over 1 and up to 5 years	5.29	167.4	8.41	161.1	8.42	156.5	8.56	147.7
(4.3) Over 5 years	4.19	448.2	6.21	395.9	6.22	394.3	6.25	391.2

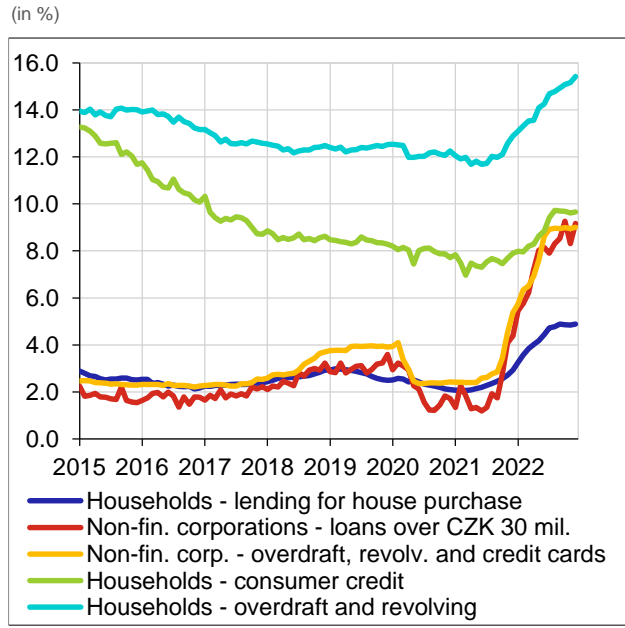
Comment: The interest rates that are applied by MFIs to CZK-denominated deposits and loans vis-à-vis households and non-financial corporations resident in the Czech Republic. Interest rates on outstanding amounts refer to the stock of all deposits and all loans at a specific moment.

- 1) Including households (S.14) and non-profit institutions serving households (S.15) according to the classification ESA2010.
- 2) Including overnight deposits and deposits redeemable at notice presented in Table 10. For this instrument category, new business and outstanding amounts coincide.
- 3) Since 2019, the amendment to Act No. 190/2004 Coll. on Bonds, as amended, has been fully applied, under which a mortgage loan is a loan, which is secured at least partly by lien (right of pledge) over real estate (property).
- 4) Consumer credit and other lending include bank overdrafts, revolving loans and credit cards presented in Table 10.

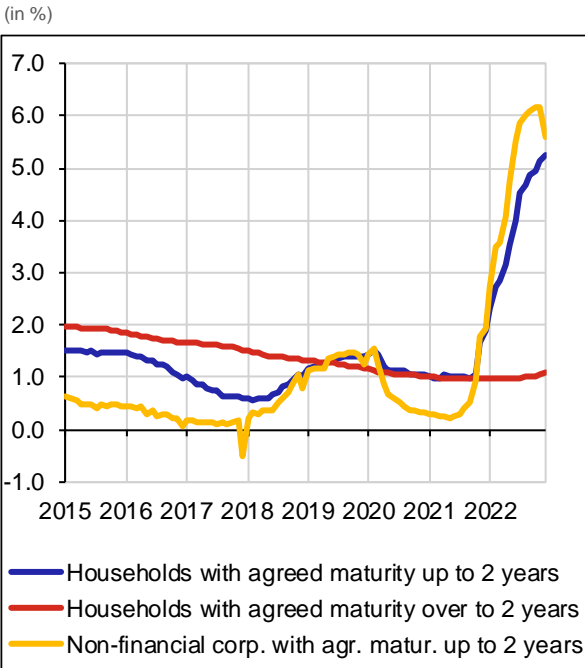
**Graph III.1 Interest rates of monetary financial institutions on new business (new business, deposits)**



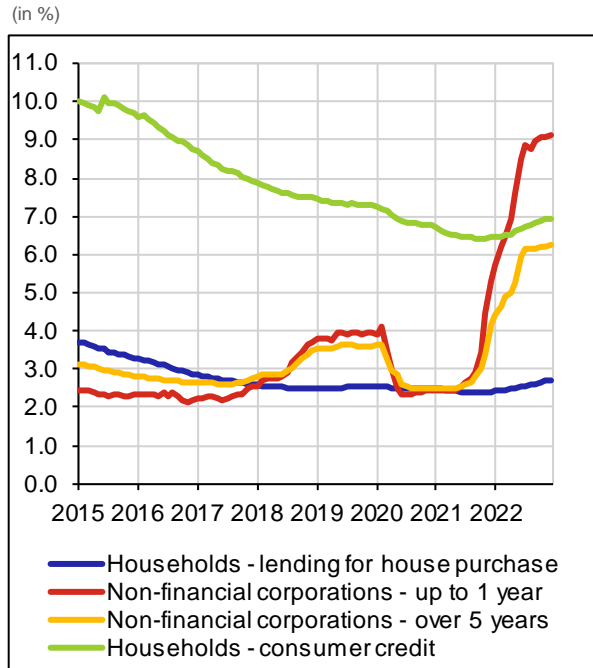
**Graph III.2 Interest rates of monetary financial institutions on new business (new business, loans)**



**Graph III.3 Interest rates of monetary financial institutions on outstanding amounts (outstanding amounts, deposits)**



**Graph III.4 Interest rates of monetary financial institutions on outstanding amounts (outstanding amounts, loans)**



### III.3 COMMENTARY ON TABLES 10 – 11

*Commentary on monetary financial institutions interest rates (Tables 10 – 11): December 2022.*

#### III.3.1 Interest rates on new business

In December, interest rates on new deposits of households recorded the largest change for deposits with agreed maturity. The interest rate on overnight deposits of households rose to 1.33%. The interest rate on current account deposits picked up to 0.22%. The interest rate on deposits with agreed maturity declined by 0.09 percentage point to 6.00%. The rate on deposits redeemable at notice rose to 2.29% (this rate is the only one to include, in addition to the household sector, also similar deposits of non-financial corporations, whose volumes are negligible in this category).

The interest rate on overnight deposits of non-financial corporations fell to 1.10%. The rate on current account deposits decreased to 0.81%. The rate on deposits with agreed maturity of up to one year (which as a rule account for 100% of all deposits with agreed maturity in this sector) saw a decrease of 0.70 percentage point, to 5.78%.

Within interest rates on new loans to households, other loans recorded the biggest change in December. Interest rates on loans to non-financial corporations saw the largest change for loans of over CZK 30 million.

The overall interest rate on consumer credit, loans for house purchase and other loans to households fell to 6.59%. Consumer credit was remunerated at 9.66%, up by 0.04 percentage point. The interest rate on loans for house purchase also rose by 0.04 percentage point to 4.88%. The rate on mortgage loans stood at 4.68%, up by 0.07 percentage point from November. Building society loans were remunerated at 6.62%, down by 0.02 percentage point. The rate on other loans dropped by 0.44 percentage point to 6.19%. The interest rate on overdrafts and revolving loans increased by 0.25 percentage point to 15.42%. The rate on credit card loans decreased by 0.04 percentage point month on month to 16.53%.

The interest rate on new loans to non-financial corporations (excluding overdrafts, revolving loans and credit cards) picked up by 0.70 percentage point to 8.97%. The rate on loans of up to CZK 7.5 million declined, down by 0.58 percentage point to 7.54%. Loans of over CZK 7.5 million and up to CZK 30 million were remunerated at the same rate as in November (8.03%). The interest rate on loans of over CZK 30 million increased by 0.86 percentage point, reaching 9.17%. Overdrafts, revolving loans and credit card loans were remunerated at 9.01%, up by 0.06 percentage point.

#### III.3.2 Interest rates on outstanding amounts

The average interest rates on outstanding amounts of deposits of households changed by just a few tenths of a percentage point in December, while the rates on deposits of non-financial corporations saw more significant changes.

Total deposits of households were remunerated at 1.83%, representing an increase compared to November. The interest rate on overnight deposits went up to 1.33%. The interest rate on deposits redeemable at notice rose to 2.29% and the rate on deposits with agreed maturity increased to 3.81%.

The interest rate on total deposits of non-financial corporations fell to 2.20%. The interest rate on overnight deposits also decreased, reaching 1.10%. The interest rate on deposits with agreed maturity fell to 5.57%.

Interest rates on outstanding amounts of loans to households changed by just a few basis points in December. The rates on outstanding amounts of loans to non-financial corporations saw more pronounced changes.

The overall interest rate on loans to households increased slightly to 3.61%. The rate on loans for house purchase also grew, reaching 2.71%. The interest rate on consumer credit and other loans rose to 6.95%.

The average interest rate on outstanding amounts of loans to non-financial corporations rose marginally to 7.33%. The interest rate on loans with maturity of up to one year saw an increase to 9.13%. The interest rate on loans with maturity of over one year and up to five years picked up to 8.56%. The rate on loans with maturity of over five years increased to 6.25%.

### III.4 COST-OF-BORROWING INDICATORS

The Czech National Bank has been publishing fully harmonised MIR statistics in accordance with Regulation ECB/2013/14 since January 2004. These statistics are used in the CNB's economic and monetary analyses and are reported to the ECB on a monthly basis. Over time, it has been found that in order to estimate the effectiveness of monetary policy pass-through across euro area and EU countries, it is necessary to use an accurate and comparable measure of the borrowing costs for non-financial corporations and households in those countries, in addition to the standard MIR indicators. For this reason, the euro area countries started to publish cost-of-borrowing indicators (CBI) in 2013. The CBIs were created to assess the effectiveness of monetary policy pass-through and economic forecasts and to compare economic conditions across the euro area countries. The Czech Republic voluntarily signed up to the publication of CBIs in June 2014.

The motive for implementing the CBIs was that aggregate indicators cannot be easily compiled for MIR statistics in some cases due to inhomogeneity in the definitions of the underlying instruments. For example, overdrafts<sup>2</sup> are recorded in the monthly statistics on new loan contracts ("new business"), but they have a higher periodicity and different characteristics. They cannot be left out if this segment is to be fully covered. Because of the difference in definitions, however, interest rates could previously be monitored only separately for individual instruments, not in aggregate form. The CBI calculation algorithm eliminates this shortcoming for certain instruments.

Four basic categories of underlying instruments were used to calculate the CBIs: interest rates on loans provided by banks to non-financial corporations and interest rates on loans provided by banks to households for house purchase. The MIR source statistics were used in two ways to construct the CBIs. Interest rates on long-term loans provided by banks to non-financial corporations and interest rates on short-term and long-term loans provided by banks to households for house purchase were obtained directly from the MIR statistics. In the case of interest rates on long-term loans provided by banks to non-financial corporations, two additional calculations had to be performed to make this aggregate indicator applicable. This involved accounting for the importance of overdrafts an important source of financing for firms and computing an estimate of the share of long-term loans with original and residual maturity of over one year and interest rate reset in the next twelve months, as these long-term loans are akin to short-term loans.

There are eight indicators: four basic ones and four derived ones. The basic indicators provide an assessment of the costs of borrowing broken down into short-term and long-term loans to households and non-profit organisations serving household for house purchase and to non-financial corporations. These four basic CBIs are used to compile the derived CBIs – short-term CBIs, long-term CBIs, CBIs for non-financial corporations as a whole and CBIs for households and non-profit institutions serving households as a whole. The CBIs cover CZK-denominated loans.

The CBIs are compiled on the basis of the existing MFI interest rate (MIR) and balance sheet statistics. The CBIs for households and non-profit institutions serving households (HH) are calculated using loans for house purchase (new business). Consumer credit and other loans are not included as their interest rates are too volatile across countries and thus not relevant for macroeconomic projections.

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<sup>2</sup> Overdrafts are debit balances on current accounts, revolving loans and card credit.

### III.5 TABLE 12 – DERIVED COST-OF-BORROWING INDICATORS IN THE CZECH REPUBLIC AND SPAIN

(in % p. a.)

	2021		2022					
	November		September		October		November	
	CZ	ES <sup>5)</sup>	CZ	ES	CZ	ES	CZ	ES
(1) Households - total <sup>1), 2)</sup>	2.71	1.44	4.88	2.21	4.83	2.51	4.82	2.70
(2) Non-financial corporations - total	4.24	1.45	8.64	2.32	9.01	2.77	8.53	3.01
(3) Total short-term cost of borrowing <sup>3)</sup>	4.27	1.45	8.80	2.25	9.16	2.70	8.64	2.91
(4) Total long-term cost of borrowing <sup>4)</sup>	2.86	1.47	5.13	2.49	5.13	2.88	5.13	3.12

1) MFI interest rate statistics cover CZK-denominated loans only. The rates on outstanding amounts are the rates applied to end of period balances.

2) Households comprise the household sector (S.14) and non-profit institutions serving households (S.15) under ESA2010.

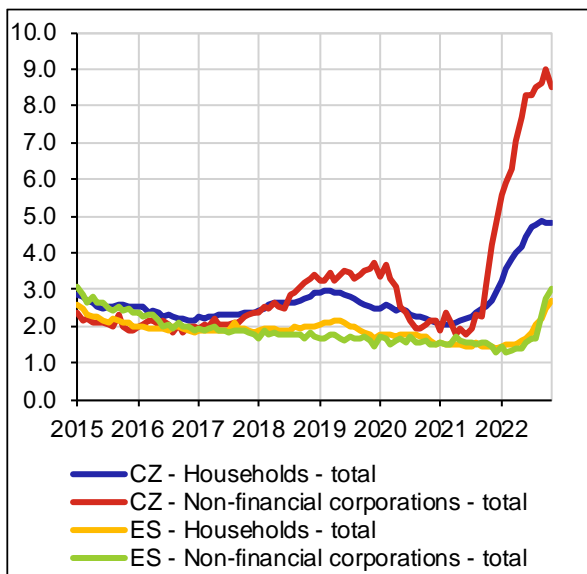
3) Short-term (ST) loans are loans with a floating rate or an initial rate fixation up to one year.

4) Long-term (LT) loans are loans with an initial rate fixation over one year.

5) ES = Spain ([link](#) to data).

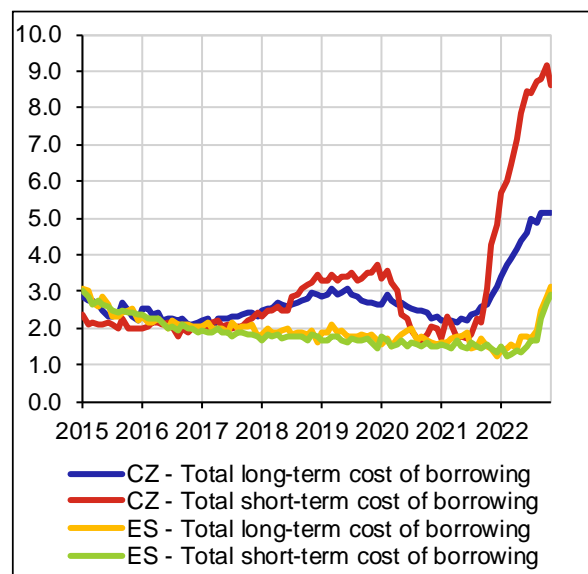
**Graph III.5 Cost-of-borrowing indicators of households and non-financial corporations**

(in %)



**Graph III.6 Long-term and short-term cost-of-borrowing indicators**

(in %)



### III.5.1 Recent developments in derived cost-of-borrowing indicators in the Czech Republic and Spain

All cost-of-borrowing indicators (CBIs) were higher for Czech loans than for Spanish loans in November 2022, with the differential reaching almost 4.00 percentage points on average. All the monitored CBIs in the Czech Republic and Spain rose year on year in November. Three Czech CBI of all CBIs monitored in the Czech Republic and Spain decreased in month-on-month terms. The Spanish CBI for households was the lowest in November. By contrast, the short-term CBI in the Czech Republic was the highest.

Compared to October, the cost of borrowing of Czech households fell by 0.01 percentage point. This was the second smallest monthly change among all the monitored CBIs in the Czech Republic and Spain. In Spain, this CBI was up by 0.19 percentage point month on month. In November, this CBI reached 4.82% in the Czech Republic and 2.70% in Spain. The differential between this CBI in the Czech Republic and Spain was 2.12 percentage points. In year-on-year terms, increases of 2.11 percentage points and 1.26 percentage point respectively were recorded in the Czech Republic and Spain.

The CBI for Czech non-financial corporations fell by 0.48 percentage point month on month to 8.53%, the second largest month-on-month change among all the monitored CBIs in the Czech Republic and Spain. The CBI for Spanish non-financial corporations was 3.01%, i.e. 5.52 percentage points lower than in the Czech Republic. This was the second largest differential among all the monitored CBIs in the Czech Republic and Spain. This Spanish CBI rose by 0.24 percentage point month on month. In year-on-year terms, this indicator increased by 1.56 percentage point in Spain and by 4.29 percentage points in the Czech Republic. The year-on-year change in this Czech CBI was the second largest among all the Czech and Spanish CBIs.

The total short-term cost of borrowing, which comprises both households and non-financial corporations, decreased by 0.52 percentage point month on month to 8.64% in the Czech Republic. The month-on-month change in this Czech CBI was the largest among all the Czech and Spanish CBIs. In Spain, this CBI was 5.73 percentage point lower. This was the largest differential among all the monitored CBIs in the Czech Republic and Spain. This indicator thus stood at 2.91% in Spain. This Spanish CBI rose by 0.21 percentage point month on month. In year-on-year terms, increases of 1.46 percentage point and 4.37 percentage points respectively were recorded in Spain and the Czech Republic. The year-on-year change in this Czech CBI was the largest among all the Czech and Spanish CBIs.

In the Czech Republic, the long-term cost of borrowing (comprising both households and non-financial corporations) was unchanged month on month at its October level of 5.13% in November, the smallest monthly change among all the monitored Czech and Spanish CBIs. In Spain, this CBI recorded a month-on-month increase of 0.24 percentage point. The long-term CBI in Spain was 3.12%, i.e. 2.01 percentage points lower than the Czech CBI. This was the smallest differential among all the monitored CBIs in the Czech Republic and Spain. This CBI increased by 2.27 percentage points year on year in the Czech Republic. In Spain, it rose by 1.65 percentage points.

## IV. INVESTMENT FUNDS EXCEPT MONEY MARKET FUNDS

### IV.1 TABLE 13 – AGGREGATED BALANCE SHEET OF INVESTMENT FUNDS

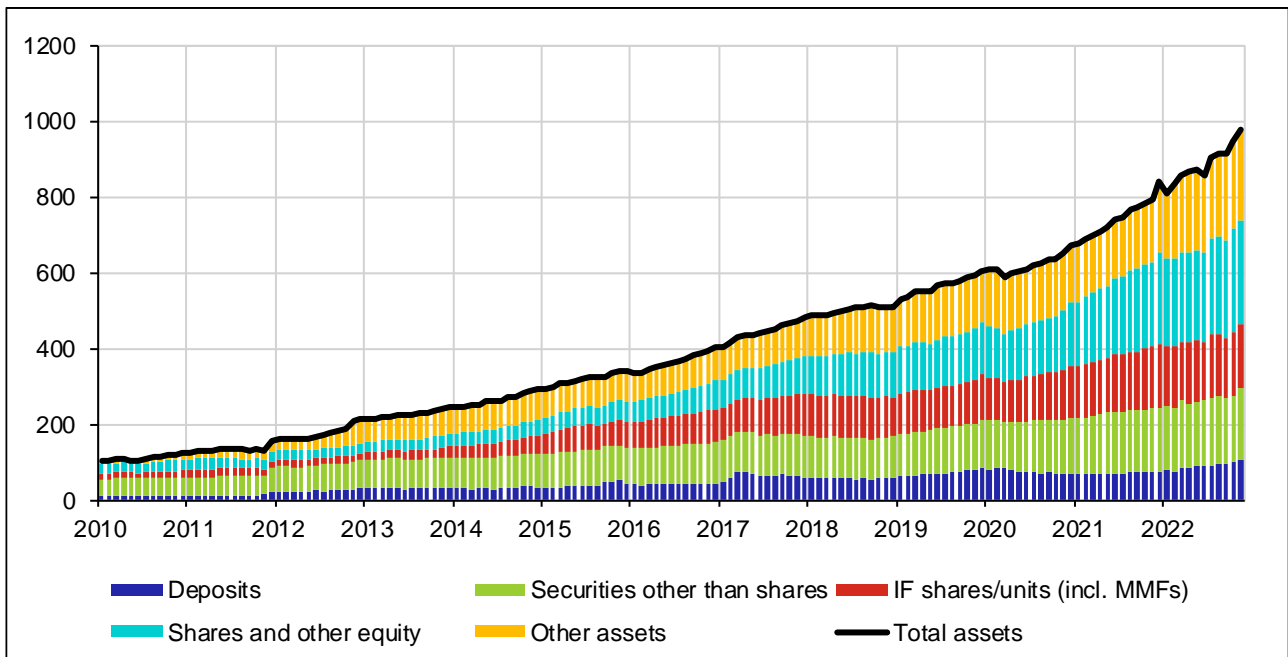
(CZK billions)

	2021		2022					
	November		September		October		November	
	Stocks	Flows	Stocks	Flows	Stocks	Flows	Stocks	Flows
<b>Total Assets</b>	793.0	9.6	918.1	14.8	949.6	23.0	978.7	14.6
(1.1) Deposits	75.9	1.7	96.5	0.4	100.0	3.5	108.0	8.1
(1.2) Securities other than shares	169.7	5.0	175.3	-0.3	178.0	2.7	189.1	5.6
Residents	108.7	4.1	123.0	0.6	123.9	2.2	133.9	5.6
Non-residents	60.9	0.9	52.3	-0.8	54.1	0.5	55.3	0.0
(1.3) Shares and other equity	220.6	-0.6	255.6	0.4	272.6	11.2	275.3	0.3
Residents	88.8	0.7	125.9	1.6	133.9	7.6	134.5	0.8
Non-residents	131.8	-1.3	129.6	-1.2	138.6	3.5	140.8	-0.5
(1.4) Investment fund shares (including MMFs)	161.5	1.9	158.9	2.4	167.5	6.7	170.0	-0.5
Residents	33.2	0.1	50.3	0.3	55.6	5.0	56.1	-0.6
Non-residents	128.3	1.8	108.6	2.1	111.9	1.7	114.0	0.1
(1.5) Other assets	165.3	1.8	231.9	11.8	231.5	-1.1	236.3	1.1
<b>Total Liabilities</b>	793.0	9.6	918.1	14.8	949.6	23.0	978.7	14.6
(2.1) Loans accepted	23.0	-0.7	28.2	-1.2	31.2	3.0	34.3	3.1
(2.2) Investment fund shares	735.1	8.1	830.9	14.2	871.4	30.0	895.2	8.6
(2.3) Other liabilities	34.9	2.2	59.0	1.8	47.0	-10.1	49.3	2.9

Comment: Investment Funds (IFs) represent Mutual and Investment Funds other than Money Market Funds which are residents in the Czech Republic. Funds of funds and funds of qualified investors are classified under the category of assets or funds in which they primarily invest. Data are published by the 15th calendar day of the second month following the reference period.

#### Graph IV.1 Balance sheet total – breakdown by asset items

(CZK billions)



## IV.2 COMMENTARY ON TABLE 13

### *Commentary on the aggregated balance sheet of investment funds (Table 13): November 2022.*

**Net assets value:** The net assets value of investment funds was CZK 895.2 billion at the end of November. This means an increase of CZK 23.8 billion compared to October (monthly transactions accounted for CZK +8.6 billion). Compared to the same period last year, the net assets value rose by 21.8%. The biggest month-on-month change in the net assets value was recorded for bond funds, up by CZK 11.9 billion to CZK 241.3 billion.

**Investment in bonds:** The value of bond holdings was CZK 189.1 billion at the end of November. Compared to the previous month, the total volume of bonds in the funds' portfolio increased by CZK 11.1 billion (monthly transactions accounted for CZK +5.6 billion). The proportion of debt securities in the funds' net assets value went up to 21.1% compared to the previous month.

**Investment in equity securities:** During the month under review, the volume of equity securities in the funds' portfolio increased. As of the end of the month, the value of holdings of equity securities amounted to CZK 445.3 billion, of which CZK 170.0 billion was investment in the shares and units of investment funds and CZK 275.3 billion was investment in shares and other equity. The value of equity securities grew by CZK 5.2 billion compared to October (monthly transactions accounted for CZK -0.2 billion). The proportion of equity securities in the funds' net assets value declined to 49.7% compared to the previous month.

**Other investment:** The value of funds invested in other assets increased in the period under review. The total volume of other investment was CZK 324.1 billion in November, of which CZK 61.7 billion was fixed investment and CZK 108.0 billion investment in deposits. The proportion of other investment in the funds' net assets value increased to 36.2% compared to the previous month.

**Reporting population:** At the end of November 2022, a total of 743 resident investment funds were active in the Czech Republic, of which 77 were equity funds, 67 bond funds, 75 mixed funds, 119 real estate funds, 392 other funds and 13 funds without an investment policy.

## V. FINANCIAL CORPORATIONS ENGAGED IN LENDING (FINANCIAL LEASING, HIRE PURCHASE AND PROVISION OF PERSONAL OR COMMERCIAL FINANCE, FACTORING AND FORFAITING)

### V.1 TABLE 14 – AGGREGATED BALANCE SHEET OF FINANCIAL CORPORATIONS ENGAGED IN LENDING

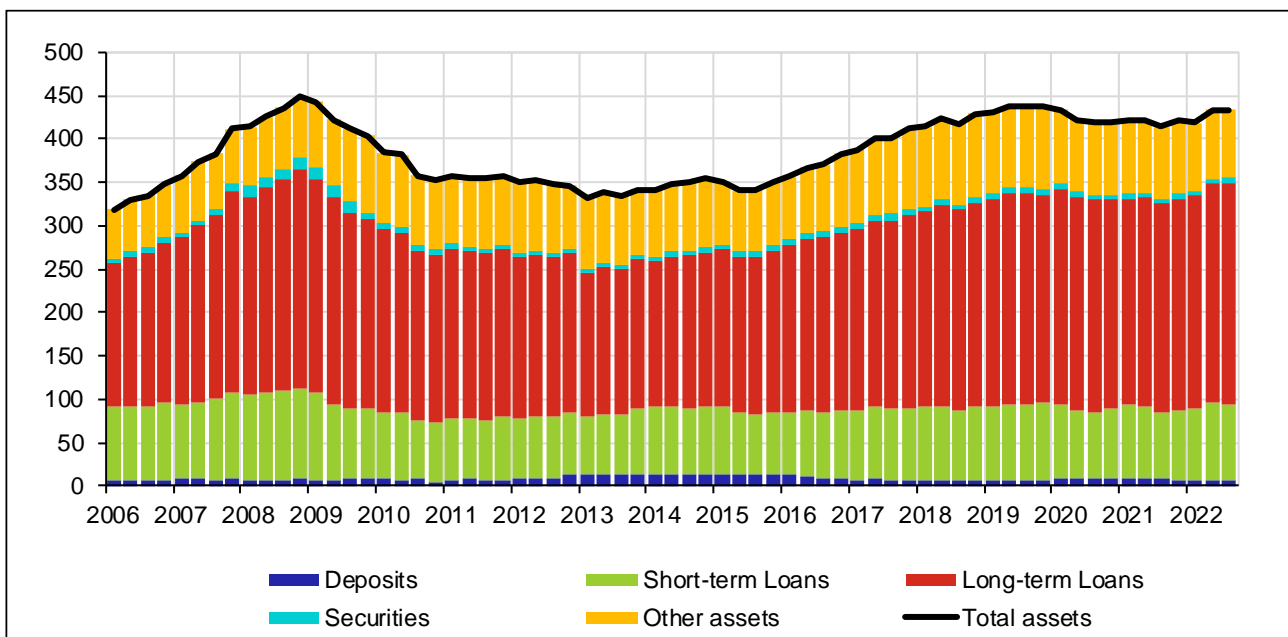
(CZK billions, end of period)

	2021		2022		
	September	December	March	June	September
<b>Total Assets</b>	414.0	420.8	418.8	433.8	434.3
(1.1) Deposits	8.1	6.1	7.4	6.5	7.4
(1.2) Loans provided	318.0	325.3	328.3	342.8	342.7
Residents	311.5	319.2	322.0	336.2	336.5
Non-residents	6.6	6.1	6.3	6.6	6.2
(1.3) Securities other than shares	0.5	0.3	0.3	0.3	0.3
(1.4) Shares and equity	4.9	4.9	4.8	5.0	4.9
Mutual fund shares/units (including MMFs)	0.1	0.1	0.1	0.1	0.1
Other shares and equity	4.8	4.8	4.8	4.9	4.8
(1.5) Other assets	82.6	84.2	78.0	79.2	79.0
<b>Total Liabilities</b>	414.0	420.8	418.8	433.8	434.3
(2.1) Loans taken	244.0	256.1	253.9	264.9	261.7
Residents	185.1	192.5	193.3	205.1	203.4
Non-residents	59.0	63.6	60.6	59.8	58.4
(2.2) Securities other than shares issued	23.5	21.1	20.8	24.3	25.6
(2.3) Own funds	108.5	105.3	104.6	104.6	106.5
(2.4) Other liabilities	38.0	38.3	39.5	40.1	40.4

Comment: Financial corporations engaged in lending - corporations classified within sector other financial intermediaries which are predominantly engaged in granting credit or loans or entering into agreements of similar nature, for example financial leasing, factoring, consumer credit, hire purchase, etc., (see Decree No. 314/2013 Coll.). Data are published by the 15th calendar day of the second month following the reference period.

#### Graph V.1 Balance sheet total – breakdown by asset items

(CZK billions)



## V.2 TABLE 15A – SUMMARY OF LOANS PROVIDED BY FINANCIAL CORPORATIONS ENGAGED IN LENDING TO RESIDENTS

(CZK billions, end of period)

	2021		2022		
	September	December	March	June	September
<b>(1) Non-financial corporations</b>	245.7	252.9	252.9	267.5	267.9
Up to 1 year	55.4	61.5	61.5	69.3	65.6
Over 1 year up to 5 years	124.6	126.9	123.0	127.5	130.6
Over 5 years	65.7	64.4	68.5	70.7	71.7
<b>(2) Financial corporations</b>	3.1	3.2	3.2	2.3	2.3
Up to 1 year	0.7	0.8	0.6	0.2	0.0
Over 1 year up to 5 years	2.2	2.1	2.3	1.8	1.5
Over 5 years	0.2	0.4	0.4	0.4	0.8
<b>(3) Government</b>	0.1	0.1	0.1	0.1	0.1
Up to 1 year	0.0	0.0	0.0	0.0	0.0
Over 1 year up to 5 years	0.0	0.0	0.0	0.0	0.0
Over 5 years	0.0	0.0	0.0	0.0	0.0
<b>(4) Households</b>	62.3	62.8	65.5	66.0	65.9
Up to 1 year	14.0	14.2	14.4	14.6	14.7
Over 1 year up to 5 years	34.6	35.5	34.9	35.0	34.8
Over 5 years	13.7	13.1	16.3	16.4	16.4
<b>(5) NPISHs</b>	0.3	0.3	0.2	0.2	0.2
Up to 1 year	0.0	0.0	0.0	0.0	0.0
Over 1 year up to 5 years	0.0	0.0	0.0	0.0	0.0
Over 5 years	0.2	0.2	0.2	0.2	0.2

Comment: Financial corporations engaged in lending - corporations classified within sector other financial intermediaries which are predominantly engaged in granting credit or loans or entering into agreements of similar nature, for example financial leasing, factoring, consumer credit, hire purchase, etc., (see Decree No. 314/2013 Coll.). Data are published by the last working day of the second month following the reference period.

### V.3 TABLE 15B – BREAKDOWN OF LOANS PROVIDED BY FINANCIAL CORPORATIONS ENGAGED IN LENDING TO HOUSEHOLDS

(CZK billions, end of period)

	2021		2022		
	September	December	March	June	September
<b>(1) Total</b>	62.3	62.8	65.5	66.0	65.9
<b>(1.1) Consumer credit</b>	47.5	47.8	47.4	47.6	47.6
Up to 1 year	13.0	13.2	13.4	13.7	13.7
Over 1 year up to 5 years	26.3	26.5	25.9	25.9	25.8
Over 5 years	8.2	8.1	8.0	8.1	8.1
<b>(1.2) Lending for house purchase</b>	0.4	0.4	0.3	0.3	0.3
Up to 1 year	0.0	0.0	0.0	0.0	0.0
Over 1 year up to 5 years	0.0	0.0	0.0	0.0	0.0
Over 5 years	0.4	0.3	0.3	0.3	0.3
<b>(1.3) Other loans</b>	14.4	14.7	17.8	18.1	18.0
Up to 1 year	1.0	0.9	0.9	1.0	1.0
Over 1 year up to 5 years	8.3	9.1	8.9	9.1	9.0
Over 5 years	5.1	4.7	7.9	8.0	8.0

Comment: Financial corporations engaged in lending - corporations classified within sector other financial intermediaries which are predominantly engaged in granting credit or loans or entering into agreements of similar nature, for example financial leasing, factoring, consumer credit, hire purchase, etc., (see Decree No. 314/2013 Coll.).

### V.4 COMMENTARY ON TABLES 14 – 15

*Commentary on the aggregated balance sheet of financial corporations engaged in lending (Tables 14 – 15): September 2022.*

Financial corporations engaged in lending had total assets of CZK 434.3 billion as of 30 September 2022, up by CZK 0.4 billion in quarter-on-quarter terms. Compared to 2021 Q3, total assets increased by CZK 20.3 billion (or 4.9%) year on year.

The largest asset item was loans provided, amounting to CZK 342.7 billion, of which CZK 336.5 billion was provided to residents. Compared to the previous quarter, total loans provided declined by CZK 0.1 billion in 2022 Q3. In year-on-year terms, loans increased by CZK 24.7 billion.

The largest part of loans provided to residents consisted of loans to non-financial corporations amounting to CZK 267.9 billion, i.e. 79.6% of total loans to residents. Compared to the previous quarter, loans to non-financial corporations grew by CZK 0.4 billion. In year-on-year terms, they increased by CZK 22.2 billion.

The second largest category of loans to residents consisted of loans to households, totalling CZK 65.9 billion. They were down by CZK 0.2 billion compared to the previous quarter. These loans accounted for 19.6% of loans granted to residents.

## VI. PENSION FUNDS

### VI.1 TABLE 16 – QUARTERLY AGGREGATED BALANCE SHEET OF PENSION FUNDS

(CZK billions, end of period)

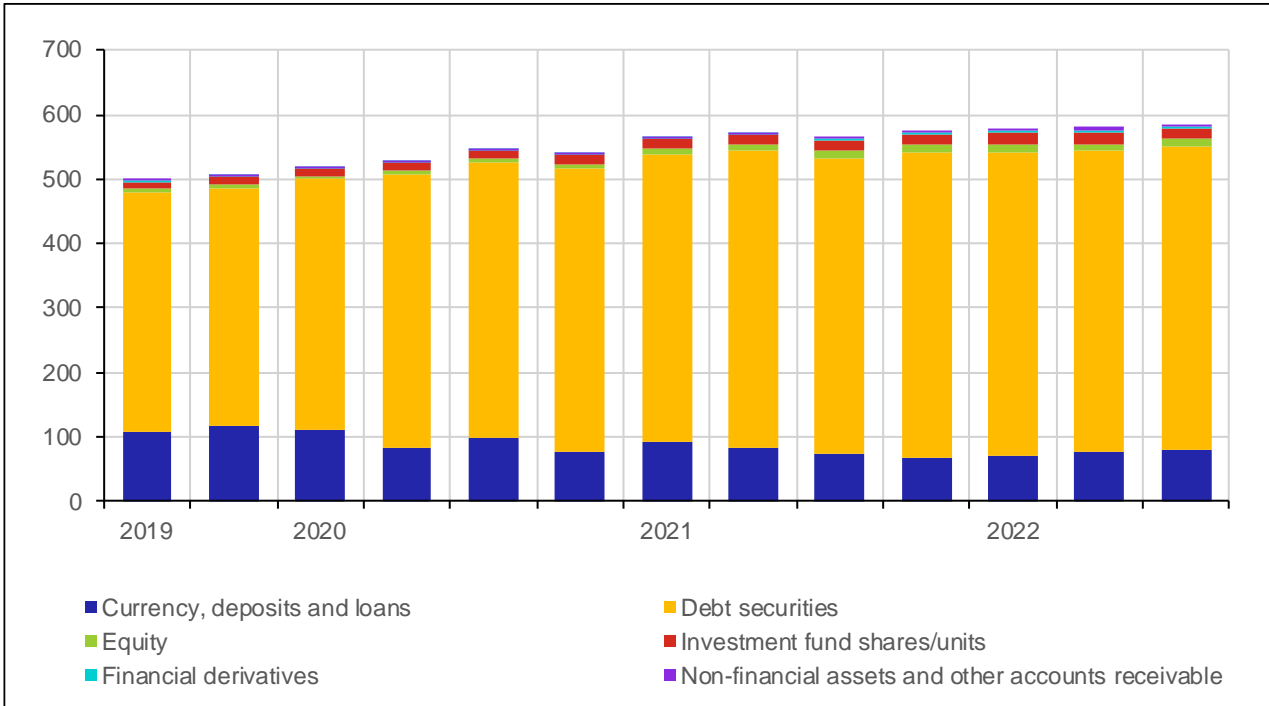
	2021				2022			
	September		March		June		September	
	Stocks	Quarterly transactions <sup>1)</sup>	Stocks	Quarterly transactions <sup>1)</sup>	Stocks	Quarterly transactions <sup>1)</sup>	Stocks	Quarterly transactions <sup>1)</sup>
<b>(1) Total assets</b>	564.4	-7.0	578.0	11.6	580.3	11.7	585.8	7.3
(1.1) Currency, deposits and loans	75.1	-9.6	72.5	3.4	78.3	5.8	81.7	3.3
(1.2) Debt securities	458.4	0.9	469.9	4.4	464.8	1.9	467.6	3.5
Residents	408.0	0.4	424.3	5.3	421.6	3.3	427.0	5.7
Monetary financial institutions	6.3	0.3	6.4	0.4	7.5	1.1	8.0	0.6
General government	395.0	0.3	411.1	4.8	408.0	2.3	413.1	5.4
Others	6.7	-0.2	6.8	0.1	6.1	-0.2	5.8	-0.3
Non-residents	50.4	0.5	45.5	-0.9	43.3	-1.4	40.6	-2.2
Monetary financial institutions	15.7	0.2	14.2	-0.9	14.4	0.5	14.2	-0.1
General government	9.6	-0.2	8.6	-0.2	6.7	-1.7	6.6	0.0
Others	25.1	0.4	22.7	0.2	22.2	-0.2	19.9	-2.2
(1.3) Equity	10.5	0.7	11.9	1.4	11.8	0.9	12.6	1.6
Residents	1.3	0.0	1.4	0.0	1.4	0.1	1.3	0.1
Non-residents	9.2	0.7	10.5	1.5	10.4	0.9	11.3	1.5
(1.4) Investment fund shares/units	16.4	1.0	17.0	1.2	16.9	1.3	17.1	0.5
Residents	1.5	0.0	1.8	0.0	1.6	0.0	1.6	0.0
Non-residents	14.8	1.0	15.2	1.2	15.2	1.3	15.4	0.5
(1.5) Financial derivatives	1.3	-0.1	3.0	0.2	3.0	0.0	3.6	0.6
(1.6) Non-financial assets and other accounts receivable	2.8	0.2	3.7	0.8	5.5	1.8	3.3	-2.3
<b>(2) Total liabilities</b>	564.4	-7.0	578.0	11.6	580.3	11.7	585.8	7.3
(2.1) Loans received	0.2	-14.2	0.0	0.0	0.0	0.0	0.0	0.0
(2.2) Pension fund reserves	554.1	6.3	569.5	7.1	571.7	6.0	575.2	4.5
(2.3) Equity	2.3	-0.5	1.0	-0.6	0.5	-0.4	2.3	1.7
(2.4) Financial derivatives	0.8	0.1	0.8	0.1	1.9	1.2	1.8	-0.1
(2.5) Other accounts payable	7.0	1.2	6.7	5.1	6.1	5.0	6.4	1.2

Comment: Pension funds (PFs) are participation or transformed funds whose assets are managed by pension management companies and that are residents of the Czech Republic.

- 1) Net value of flow data calculated by adjusting the difference between end-of-period levels for the effect of non-transactions-related factors.
- 2) Other counterparties comprise other financial institutions (S.125 + S.126 + S.127), insurance corporations (S.128) and non-financial corporations (S.11) according to ESA2010.

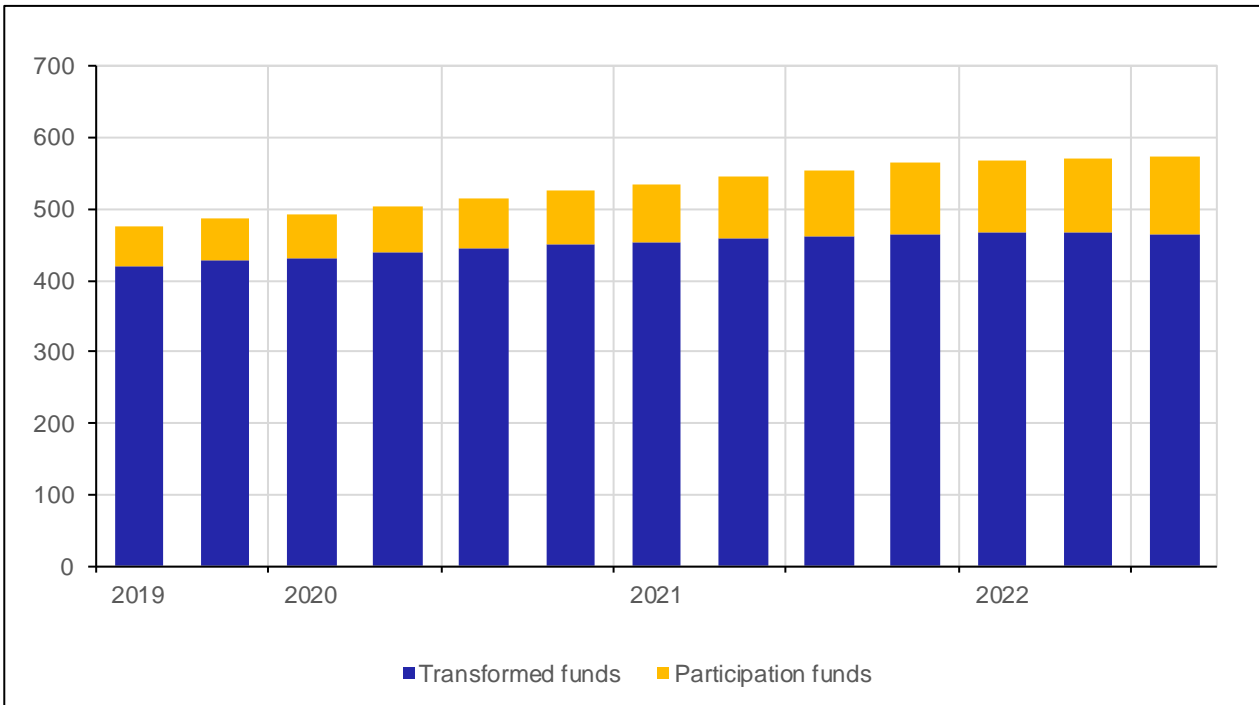
**Graph VI.1 Balance sheet total – breakdown by asset items**

(CZK billions)



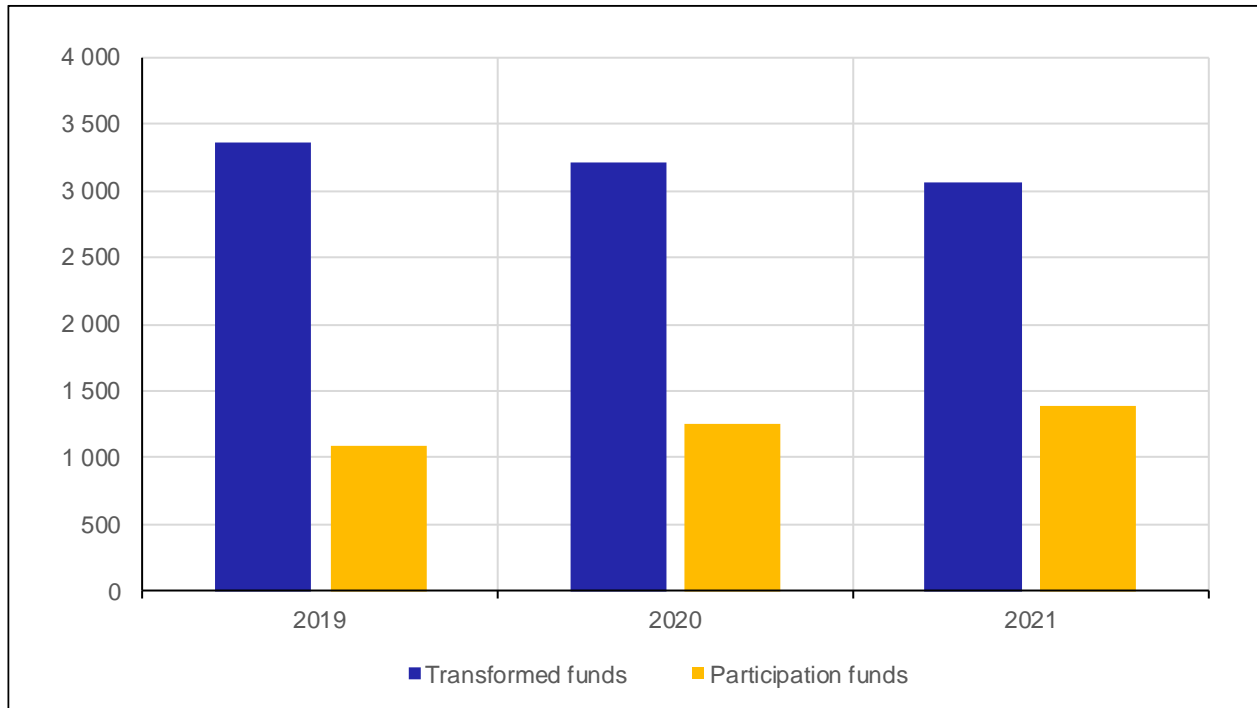
**Graph VI.2 Volume of pension entitlements in transformed and participation funds**

(CZK billions)



### Graph VI.3 Number of members in transformed and participation funds

(in thousands)



## VI.2 COMMENTARY ON TABLE 16

### *Commentary on the aggregated balance sheet of pension funds (Table 16): September 2022.*

At the end of September 2022, a total of 44 resident pension funds were active in the Czech Republic, eight of them transformed funds and 36 participation funds.

The balance sheet total of pension funds is gradually increasing and amounted to CZK 585.8 billion as of 30 September 2022. This represents an increase of CZK 5.5 billion compared with the previous quarter. Quarterly transactions stood at CZK 7.3 billion. Compared with the same period last year, the balance sheet total rose by CZK 21.4 billion (or 3.8%) year on year.

Debt securities had the largest share in the structure of pension funds' assets (79.8%). They stood at CZK 467.6 billion at the end of September, an increase of CZK 2.7 billion compared with the previous quarter. Investments in government bonds accounted for CZK 419.7 billion and investments in bonds of monetary financial institutions for CZK 22.2 billion of the total volume of bonds. As regards the country of the issuer, bonds issued by Czech entities are predominant. Their share in total bonds held was slightly above 90% in all the monitored periods of 2022. Deposits and loans provided are another important item on the asset side. They increased to CZK 81.7 billion in the period under review. This represents 13.9% of total assets.

Equity securities grew by CZK 1.0 billion to CZK 29.7 billion in the period under review. Quarterly transactions amounted to CZK 2.1 billion. Listed shares accounted for CZK 12.4 billion, unlisted shares for CZK 0.3 billion and shares and investment fund units for CZK 17.1 billion of total equity securities.

Pension entitlements, i.e. the capital that pension funds hold in order to meet the future pension claims of their participants, are the largest item on the liabilities side. They amounted to CZK 575.2 billion as of 30 September 2022, an increase of CZK 3.5 billion compared with the previous quarter and CZK 21.1 billion on a year earlier.

Resident pension funds had 4,445,967 members at the end of 2021, of which 4,408,643 were active members, 15,855 deferred members and 21,469 retired members. The total number of members dropped by 13,189 compared with 2020. The number of members in transformed funds fell by 153,373, while the number of members in participation funds rose by 140,184.

## VII. GLOSSARY

**Harmonisation of statistics:** the Treaty establishing the European Community tasked the European Central Bank (ECB) with ensuring harmonised statistics according to Article 5 of the Statute of the European System of Central Banks. The national central banks of EC Member States therefore collect statistical information according to a uniform definition, from which the ECB then compiles aggregate data for euro area monetary policy. Although Council Regulation No 2533/98, which specifies the requirements for statistical data collection, only concerns euro area countries, the ECB also receives full data sets from the non-participating countries (e.g. the Czech Republic) in order to monitor their economic and financial development.

**Monetary statistics:** financial macrostatistics of constituent sub-sectors of the sector S.12 based exclusively on the “host country” principle. According to this principle, a resident reporting unit is an institution resident in a given economic territory. The reporting population includes

- 1) institutions incorporated and located in the territory, including subsidiaries of parent companies located outside that territory,
- 2) branches of institutions that have their head office outside that territory.

**APRC:** annual percentage rate of charge, i.e. the rate including interest expenses and all related costs of the credit to the client (fees etc.).

**Investment funds:** for the purposes of monetary and banking statistics, investment funds comprise investment funds other than money market funds which are resident in the Czech Republic. These are undertakings the sole object of which is collective investment, i.e. pooling investor funds and investing them under conditions stipulated in the Act on Management Companies and Investment Funds (No. 240/2013 Coll.). Such undertakings may be constituted under the Act either as unit trust managed by an investment company or as investment funds.

**Consolidated balance sheet of the MFI sector:** the basic statistical tool of monetary statistics. It is based on the residency principle and is obtained by netting out inter-MFI positions on their aggregated balance sheet.

**Consumer credit:** loans granted to households for personal use in the consumption of goods and services.

**Contribution to annual growth rate:** the growth rate of a selected component weighted by its share in the total growth rate.

**Deposits redeemable at notice:** deposits that can be withdrawn by clients only after the expiry of a period of notice agreed in advance, which starts at the moment of notification of the intention to withdraw the deposit.

**Deposits with agreed maturity:** deposits that cannot be withdrawn by clients before a predefined maturity.

**Financial corporations engaged in lending (FCLs):** FCLs mean corporations classified within sector S.125 other financial intermediaries which are predominantly engaged in granting credit or loans or entering into agreements of similar nature, for example financial leasing, factoring, consumer credit, hire purchase, etc. (see Decree No. 314/2013 Coll.)

Type of services:

- 1) financial leasing – it is financial service, when lessee acquires the right to use good in exchange for rental payment over predetermined term. All risk and rewards of ownership are transferred from lessor to lessee. After lapse of predetermined term ownership of good is transferred from lessor to lessee.
- 2) factoring – it is financial service consisting in purchase of short-term receivables (with maturity 30-90 days) before their maturity date. Receivables are transferred on factoring company – factor- by supplier of goods or services.
- 3) other lending – this category encompasses granting credit or loans or agreements of similar nature different from financial leasing and factoring. It deals especially with consumer credit, hire purchase, consumption loans, etc.

**Growth rate:** the percentage change in the monitored variable over the reference period, calculated from the volumes of monthly financial transactions and the outstanding amounts at the beginning of each month.

**Household sector:** institutional units included in the sectors of households (S.14) and non-profit institutions serving households (S.15) under ESA2010.

**Housing loans:** loans granted to households for the purpose of purchasing/investing in housing, including building and home improvements.

**Interest rate fixation:** a period of interest rate fixation, i.e. a period at the beginning of a contract for which the agreed interest rate cannot be changed. Period up to 1 year includes floating rates.

**MFI longer-term financial liabilities:** comprise deposits with an agreed maturity of over two years, deposits redeemable at a period of notice of over three months, debt securities issued with an original maturity of more than two years and the capital and reserves of the Czech MFI sector.

**Monetary aggregates:** comprise the monetary liabilities of monetary financial institutions to non-MFI Czech residents except central government. The narrow monetary aggregate M1 includes currency in circulation (excluding cash at banks' cash desks) and overnight deposits. The intermediate monetary aggregate M2 comprises M1, deposits redeemable at a period of notice of up to and including three months and deposits with a maturity of up to and including two years. The broad monetary aggregate M3 comprises M2, money market fund shares/units, debt securities with a maturity of up to two years and repurchase agreements.

**Monetary financial institutions (MFIs):** financial institutions forming the money-issuing sector. Under Community law, these include the central bank, resident credit institutions, and all other resident financial institutions whose business is to receive deposits and/or close substitutes for deposits from entities other than MFIs and, for their own account (at least in economic terms), to grant credit and/or invest in securities. In the Czech Republic, MFIs include the central bank, banks, money market funds and credit unions.

**Money-holding sector:** all residents' institutional units except central government (S.1311) and monetary financial institutions (S.121, S.122 and S.123) under ESA2010.

**Money-issuing sector:** all institutional units included in the sectors of the central bank (S.121) and other monetary financial institutions (S.122 and S.123) under ESA2010.

**Money-neutral sector:** an institutional sector comprising the central government sector (S.1311) under ESA2010.

**Money market funds (MMFs):** are collective investment undertakings that have been authorised pursuant to Article 4 of Regulation (EU) 2017/1131 of the European Parliament and of the Council<sup>3</sup> and that issue shares/units which are close substitutes for deposits.

**Net external assets:** comprise external assets of Czech MFIs (such as monetary gold, non-koruna banknotes, securities issued by non-residents and loans granted to non-residents) minus external liabilities of the Czech MFI sector (such as non-residents' holdings of deposits, repurchase agreements, money market fund shares and units, and debt securities with a maturity of up to and including two years issued by MFIs and held by non-residents).

**Non-MFIs:** all resident sectors excluding MFIs, i.e. general government (S.13), non-financial corporations (S.11), financial institutions other than MFIs (S.124, S.125, S.126, S.127, S.128, and S.129) and households and non-profit institutions serving households (S.14 and S.15) under ESA2010.

**Other financial intermediaries (OFIs):** entities included in the sectors of other financial intermediaries except insurance corporations and pension funds (S. 125), financial auxiliaries (S.126), captive financial institutions and money lenders (S.127), insurance corporations (S.128), and pensions funds (S.129) under ESA2010.

**Private sector:** a sector comprising all institutional sectors except general government (S.13) and monetary financial institutions (S.121, S.122 and S.123) under ESA2010.

**Rates on new business:** interest rates agreed by the bank and the client for all agreements negotiated during the reference period.

**Rates on outstanding amounts:** interest rates applied to end-of-period balances.

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<sup>3</sup> Regulation (EU) 2017/1131 of the European Parliament and of the Council of 14 June 2017 on money market funds.

**Reclassifications:** comprise any changes in the MFI balance sheet resulting from changes in the reporting population, corporate restructuring, reclassifications of assets and liabilities, and corrections of reported errors.

**Residents:** all domestic and foreign legal entities and natural persons, including branches of foreign banks and foreign owners of buildings and land, whose centre of economic interest is in the given territory. Foreign legal entities and natural persons are considered residents after at least one year of economic activity in the territory, with the exception of foreign bank branches and owners of buildings and land, who become residents at the moment they perform a valid legal act (in the case of foreign owners of buildings and land, this only applies in connection with transactions relating to the building or land in question).

**Transaction (flow) data:** values related to the whole period which are calculated as the difference between the balances at the end of the current and the previous period adjusted for non-transaction effects, i.e. effects connected with reclassifications, valuation changes and exchange rate variations over the period. These factors result in breaks in time series, thereby affecting the comparability of end-of-period balances. Transaction (flow) data only reflect those changes that arise from transactions, i.e. from accepting financial assets or providing financial liabilities.

**Unit trusts other than money market funds:**

- 1) Equity funds – funds investing mainly in shares and other equity.
- 2) Bond funds – funds investing mainly in securities other than shares.
- 3) Mixed funds – funds investing in equity and debt securities without a clear preference for either approach.
- 4) Real estate funds – funds investing mainly in real estate.
- 5) Hedge funds – funds applying more or less unlimited investment strategies in order to achieve positive absolute yields, whose managers are remunerated based on the fund's performance in addition to their salary.
- 6) Other funds – investment funds other than equity funds, bond funds, mixed funds, real estate funds or hedge funds.

Funds of funds and funds of qualified investors are classified under the aforementioned categories according to their investment strategies.

## VIII. TECHNICAL NOTES

### VIII.1 CALCULATION OF GROWTH RATES

The growth rate for the reference period is calculated from the volumes of monthly financial transactions and the outstanding amounts at the beginning of each month. Monthly transactions are calculated from differences in outstanding amounts adjusted for reclassifications, other revaluations, exchange rate variations and other changes which do not arise from transactions. This data thus reflects only those changes that arise from accepting financial assets or providing financial liabilities. Reclassifications and other non-transaction corrections are introduced into the transaction statistics to preserve the comparability of the gradual monitoring results, thereby enabling calculation of the indices of expected outstanding balances of the monitored variables and determination of their growth rates.

#### VIII.1.1 Method of calculation

- 1) The month-on-month percentage change  $a_t^M$  for month t is calculated as:  $a_t^M = \left( \frac{F_t^M}{L_{t-1}} \right) * 100$
- 2) The annual growth rate for month t, i.e. the change for the last 12 months ending with month t, is calculated as the product of the twelve coefficients for each previous month:  $a_t = \left[ \prod_{i=0}^{11} \left( 1 + \frac{F_{t-i}^M}{L_{t-1-i}} \right) - 1 \right] * 100$ , where

$$F_t^M = (L_t - L_{t-1}) - C_t^M - E_t^M - V_t^M,$$

$F_t^M$  – transactions in month t,

$L_t$  – outstanding amount at the end of month t,

$C_t^M$  – reclassifications in month t,

$E_t^M$  – exchange rate variations in month t,

$V_t^M$  – valuation changes in month t.

The calculation of the annual growth rate from the month-on-month growth rates thus enables transaction changes and non-transaction effects in the individual months to be taken into account.

- 3) Growth rates for other reference periods are derived from formula (2).

### VIII.2 CALCULATION OF THE CONTRIBUTION TO THE ANNUAL GROWTH RATE OF A MONITORED VARIABLE (E.G. M3)

If  $a_t(M3)$  represents the annual growth rate of M3 for the year ending with month t, and  $F_{t-i}(M1)$ ,  $F_{t-i}(M3 - M2)$  and  $F_{t-i}(M2 - M1)$  are the monthly transactions of the components M1, M2-M1 and M3-M2 in month t-i, the contribution of M1 to the annual growth rate of M3, for example, is calculated as:  $\frac{\sum_{i=0}^{11} F_{t-i}(M1)}{\sum_{i=0}^{11} [F_{t-i}(M1) + F_{t-i}(M2 - M1) + F_{t-i}(M3 - M2)]} * a_t(M3)$ .

# List of abbreviations and codes

## Codes

CBI	cost-of-borrowing indicators
CNB	Czech National Bank
ECB	European Central Bank
ESA2010	European System of National and Regional Accounts
Eurozone	the European Union member states that have adopted the EUR
FCL	financial corporations engaged in lending (financial leasing, hire purchase and provision of personal or commercial finance, factoring and forfaiting)
IF	investment funds excluding money market funds
LTIR	yield of the 10-year bond
M1, M2, M3	monetary aggregates
MFI	monetary financial institutions
MMF	money market funds
NFA	net foreign assets
NISH	non-profit institutions serving households
non-MFI	all institutions excluding MFIs
OFI	other financial intermediaries

**Institutional sectors and subsectors according to ESA2010**

S.11	non-financial corporations
S.121	central bank
S.122	deposit-taking corporations, except the central bank
S.123	money market funds
S.124	non-MMF investment funds
S.125	other financial intermediaries, except insurance corp. and pension funds
S.126	financial auxiliaries
S.127	captive financial institutions and money lenders
S.128	insurance corporations
S.129	pension funds
S.13	general government
S.1311	central government
S.14	households
S.15	non-profit institutions serving households

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