



## **XXV Russian Repo Market Study Full Year - 2021**

**May 2022**

**Moscow**

## Disclaimer

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**SRO NFA would like to thank the Bank of Russia, Moscow Exchange and NSD for the provided data that formed the basis of the study and for valuable input and insights during the preparation of the study.**

The study was prepared by Andrey Krylov, Head of Securities Markets, SRO NFA.

*For the avoidance of doubt, only [the Russian version of the study published on the website of SRO NFA](#) is the official version of this document. This translation has been prepared for informational purposes only.*



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## About the Russian Repo Market Study

This report contains the results of the XXV Russian Repo Market Study conducted by Self-regulatory organization “National Finance Association” (SRO NFA) within the framework of the project for the development of repo transactions.

The study presents data of the Russian repo market and its results of 2021 in quarterly dynamics and in some cases with earlier market data.

The objects of this Study are repo transactions of the Russian financial market participants on exchange and OTC repo market segments, including repo transactions in the external market.

The subject being analyzed is the volume and structure of the Russian repo market. In addition to assessing the volume of the Russian repo market and its structure, the study analyzes key trends of the repo market in a wide range of areas, including collateral, terms, settlement currency, and types of repo rates.

Based on the results of the Study the report accounts the certain parameters of transactions, settlement basis, as well as an overview of the local and external repo transactions.

The main source of information of the Study is data provided by Moscow Exchange and National Settlement Depository. The Bank of Russia provided data on repo transactions with the Bank of Russia.

The next study is scheduled on the Russian repo market results of the first quarter of 2022.





## Overview of the Russian Repo Market

The present chapter of the Russian Repo Market Study delivers the structure of the repo market and the volume of repo transactions in Q/Q dynamics for 2021 in comparison to 2020.

### 1. Repo market volume and general repo market structure

Data on the total volume of repo transactions and open-end repo positions in 2021 in comparison to the data of 2020 are presented in Table 1 and Table 2 below.

Table 1. The total volume of repo transactions in 2021 (Q/Q), bln. rubles.

Market segment	IQ 2021	% to IQ 2020	IIQ 2021	% to IIQ 2020	IIIQ 2021	% to IIIQ 2020	IVQ 2021	% to IVQ 2020	Total volume 2021	% to 2020
Ruble-denominated repo transactions with the Bank of Russia in the exchange market	25	-98%	99	-92%	52	+643%	296	+679%	472	-83%
Ruble-denominated repo transactions with the Bank of Russia in the OTC market	1 425	+81%	324	-74%	265	-	305	-88%	2 319	-50%
Repo transactions with the Russian Federal Treasury in the OTC market	3 598	+186%	8 446	+7%	16 839	+336%	11 924	+28%	40 807	+83%
Repo transactions with the Russian Federal Treasury in the exchange market	3 598	+19%	8 446	+7%	16 839	+336%	11 924	+28%	40 807	+70%
<b>Total ruble-denominated repo with the Bank of Russia and Russian Federal Treasury</b>	<b>8 646</b>	<b>+30%</b>	<b>17 315</b>	<b>-5%</b>	<b>33 995</b>	<b>+340%</b>	<b>24 449</b>	<b>+15%</b>	<b>84 405</b>	<b>+57%</b>
Exchange-traded interdealer repo	5 340	-38%	5 108	-38%	5 637	-45%	6 381	-24%	22 466	-36%
Repo transactions with CCP (two-sided transactions and open-trading transactions), including rollover repo with CCP transactions	67 557	+4%	77 872	+10%	84 715	+11%	91 930	+16%	322 074	+10%
<b>Total exchange-traded interdealer repo, including repo with CCP</b>	<b>72 897</b>	<b>-1%</b>	<b>82 980</b>	<b>+5%</b>	<b>90 352</b>	<b>+4%</b>	<b>98 311</b>	<b>+12%</b>	<b>344 540</b>	<b>+5%</b>
Foreign exchange repo transactions with the Bank of Russia	-	-	-	-	-	-	-	-	0	-
OTC repo transactions in the domestic market	13 818	+12%	17 595	+66%	17 511	+44%	21 687	+32%	70 611	+37%
OTC repo transactions in external markets buy/sell	1 521	-51%	2 133	-35%	766	-72%	889	-59%	5 309	-53%
OTC repo transactions in external markets sell/buy	263	-14%	454	+53%	270	-38%	357	+3%	1 344	-3%
<b>Total OTC repo transactions in external markets</b>	<b>1 784</b>	<b>-47%</b>	<b>2 587</b>	<b>-28%</b>	<b>1 036</b>	<b>-67%</b>	<b>1 246</b>	<b>-51%</b>	<b>6 653</b>	<b>-47%</b>
Repo transactions with Committee of finance of St. Petersburg	6	-60%	24	-44%	18	+80%	12	-55%	60	-37%
Other repo transactions	5	-98%	10	-97%	2	-98%	1	-99%	18	-98%
<b>The total volume of repo transactions</b>	<b>97 156</b>	<b>+1%</b>	<b>120 511</b>	<b>+8%</b>	<b>142 914</b>	<b>+30%</b>	<b>145 706</b>	<b>+14%</b>	<b>506 287</b>	<b>+14%</b>



Table 2. The volume of open positions in repo transactions at the end of Q4 2021 in bln. rubles in comparison to the corresponding timeframe of 2020.

Market segment	IVQ 2020	IVQ 2021	Comparative movements, %
Ruble-denominated repo transactions with the Bank of Russia in the exchange market	6	19	+217%
Ruble-denominated repo transactions with the Bank of Russia in the OTC market	836	100	-88%
Repo transactions with the Russian Federal Treasury in the OTC market	400	1 152	+188%
Repo transactions with the Russian Federal Treasury in the exchange market	400	1 152	+188%
<b>Total ruble-denominated repo with the Bank of Russia and Russian Federal Treasury</b>	<b>1 642</b>	<b>2 423</b>	<b>+48%</b>
Exchange-traded interdealer repo	223	201	-10%
Repo transactions with CCP (two-sided transactions and open-trading transactions), including rollover repo with CCP transactions	3 936	5 121	+30%
<b>Total exchange-traded interdealer repo, including repo with CCP</b>	<b>4 159</b>	<b>5 322</b>	<b>+28%</b>
Foreign exchange repo transactions with the Bank of Russia	0	0	-
OTC repo transactions in the domestic market	5 081	3 645	-28%
OTC repo transactions in external markets buy/sell	249	90	-64%
OTC repo transactions in external markets sell/buy	134	36	-73%
<b>Total OTC repo transactions in external markets</b>	<b>383</b>	<b>126</b>	<b>-67%</b>
Repo transactions with Committee of finance of St. Petersburg	0	0	-
Other repo transactions	1 175	0	-100%
<b>The total volume of open positions on repo transactions</b>	<b>12 440</b>	<b>11 516</b>	<b>-7%</b>

## 2. Repo transactions by type of activity

The structure of the total volume of transactions and the total volume of open-end positions in exchange-traded repo transactions by type of professional activity is presented in Fig. 1 – 2.

Fig. 1. Structure of the total volume of exchange repo transactions by type of activity, IVQ 2021, bln. rubles (%)

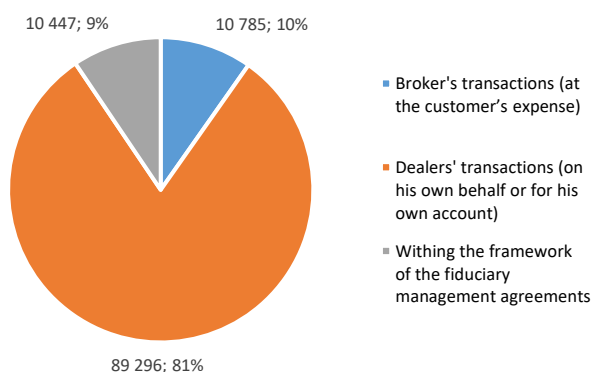
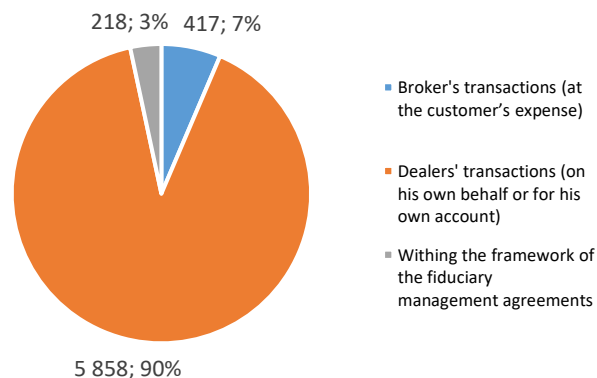


Fig. 2. Structure of the total volume of open-end positions in exchange-traded repo transactions by type of activity, IVQ 2021, bln. rubles (%)



The structure of the total volume of transactions and the total volume of open-end positions in the OTC repo market by type of professional activity is presented in Fig. 3-4.

Fig. 3. Structure of the total volume of OTC repo transactions in the domestic market by type of activity, IVQ 2021, bln. rubles (%)

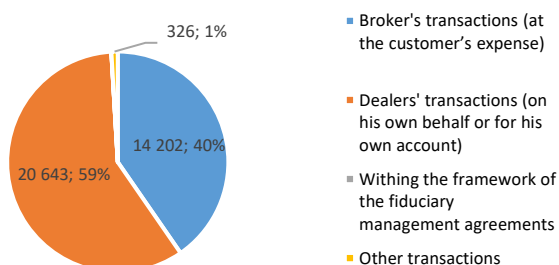


Fig. 4. Structure of the total volume of OTC repo transactions in the external markets by type of activity, IVQ 2021, bln. rubles (%)

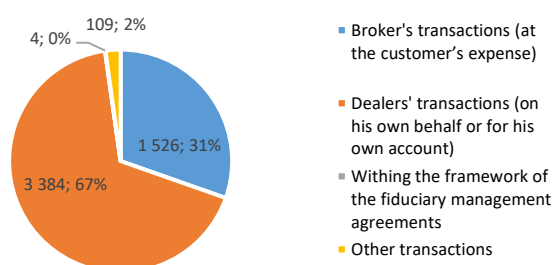


Fig. 5 and Fig. 6 shows the quarterly dynamics of the distribution of the total volume of exchange-traded and OTC repo transactions by types of professional activity.

Fig. 6. Dynamics of the distribution of the total volume of exchange repo transactions by type of activity, bln.rubles

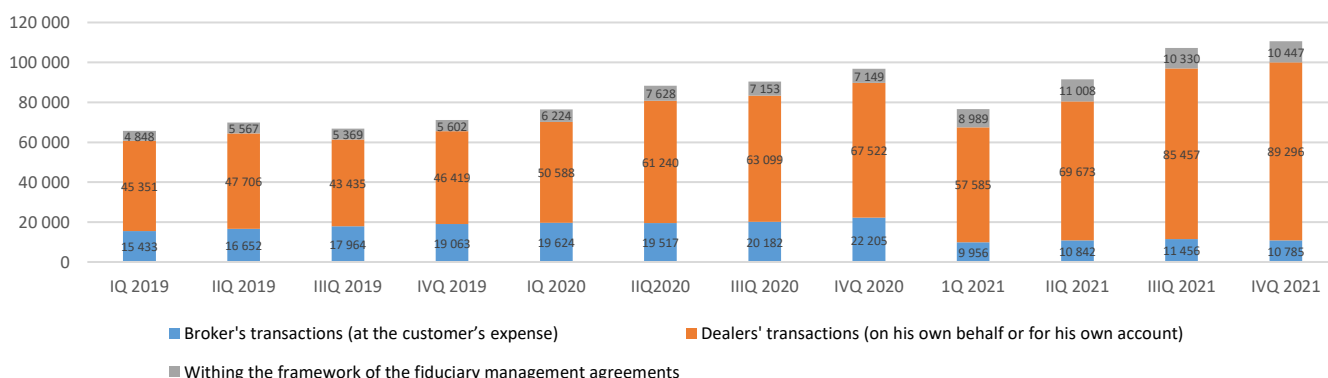
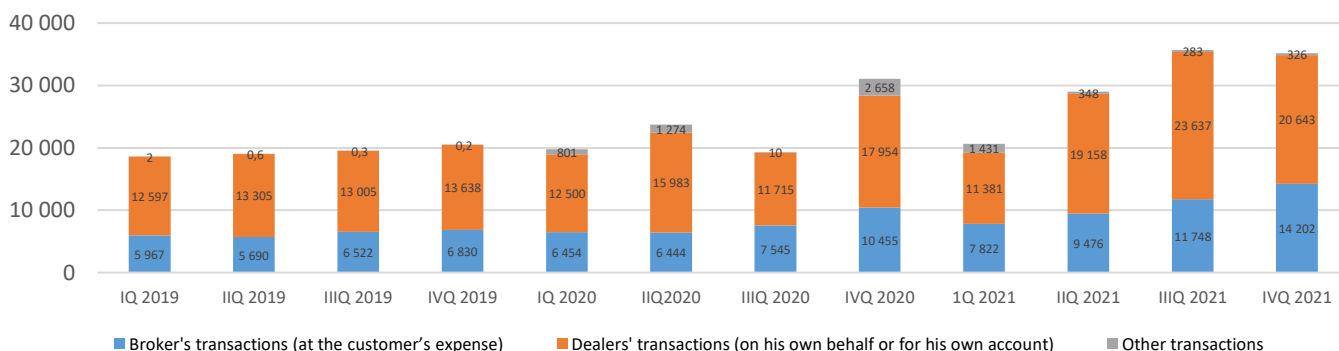


Fig 7. Dynamics of the distribution of the total volume of OTC repo transactions by type of activity, bln.rubles



### 3. Distribution of repo transactions by maturity

Data on the structure of the total volume of transactions and the total volume of open-end positions in repo transactions on the exchange repo market broken down by terms are presented in Fig. 7 - 8.



Fig. 7. Structure of the total volume of exchange-traded repo transactions by maturity, IVQ 2021, bln. rubles

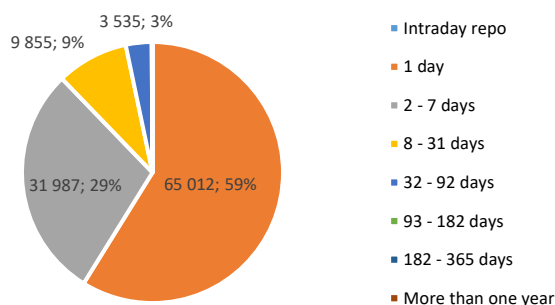
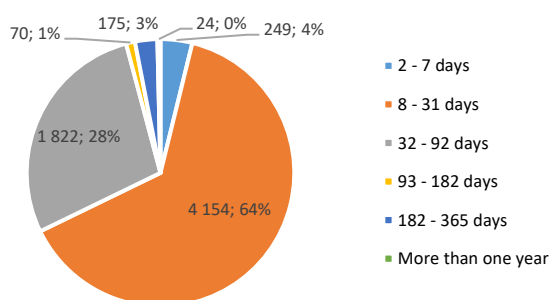


Fig. 8. Structure of the total volume of open-end positions on the exchange-traded repo by maturity, IVQ 2021, bln. rubles



Data on the structure of the total volume of transactions and the total volume of open-end positions in the OTC repo market transactions by maturity are presented in Fig. 9 - 10.

Fig. 9. Structure of the total volume of OTC repo transactions, IVQ 2021, bln. rubles, %

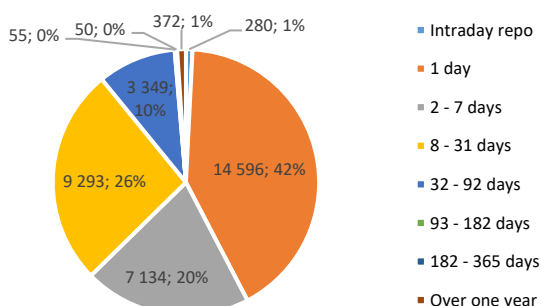


Fig. 10. Structure of the total volume of open-end positions in OTC repo transactions, 4Q 2021, bln. rubles, %

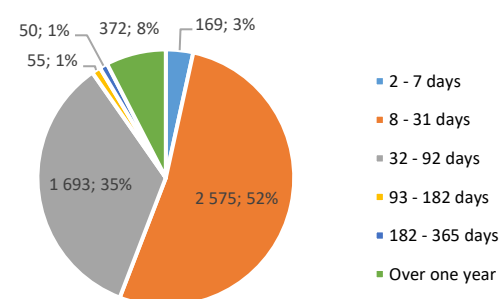


Fig. 11 - 13 show the quarterly dynamics of the distribution of the total volume of repo transactions by maturity.

Fig. 11. Distribution of the total volume of exchange-traded repo transactions, bln. rubles

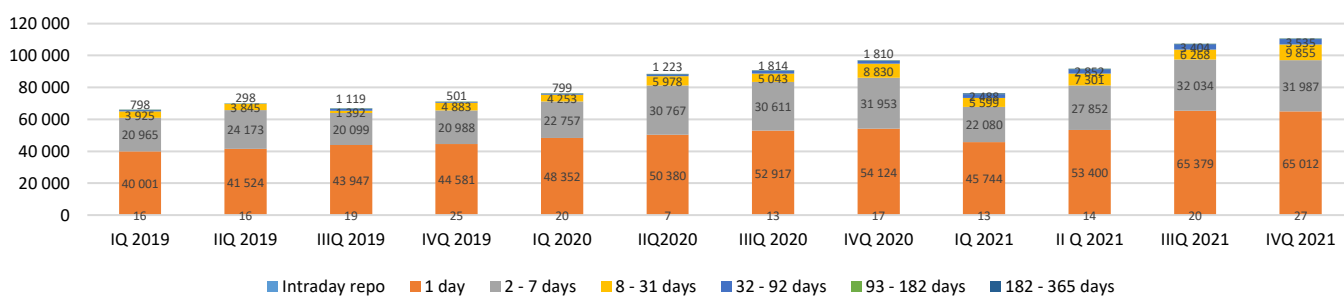


Fig. 12. Distribution of the total volume of OTC repo transactions in the domestic market, bln. rubles

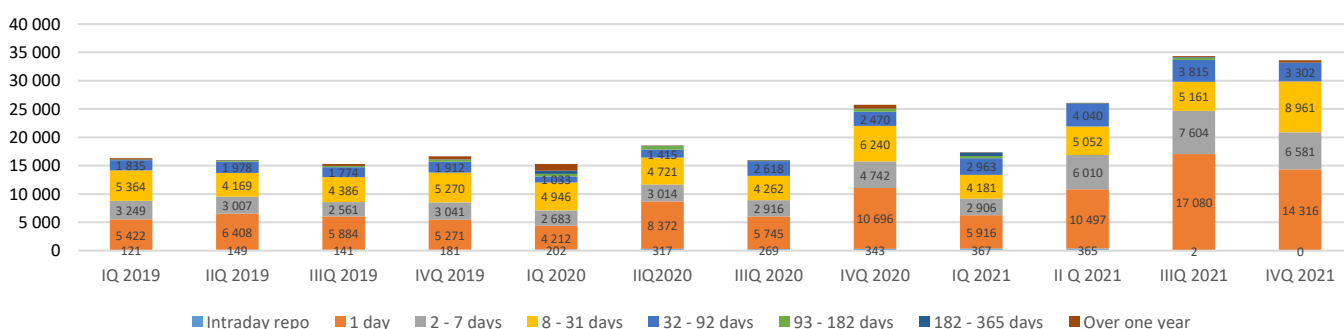
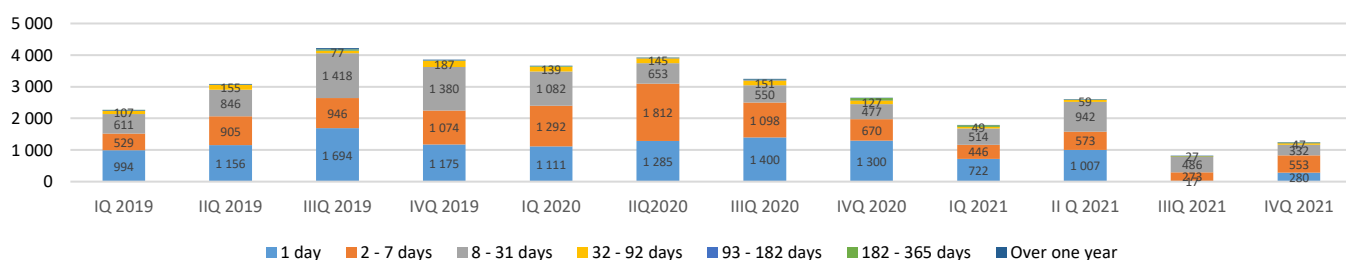




Fig. 13. Distribution of the total volume of OTC repo transactions in external markets, bln. rubles



## 4. Repo transactions by types of collateral

Data on the structure of the total volume of transactions and the total volume of open-end positions in repo transactions by types of securities used as collateral are presented in Fig. 14 - 19.

Fig. 14. Structure of the total volume of stock-exchange repo transactions by types of collateral, IVQ 2021, bln. rubles; %

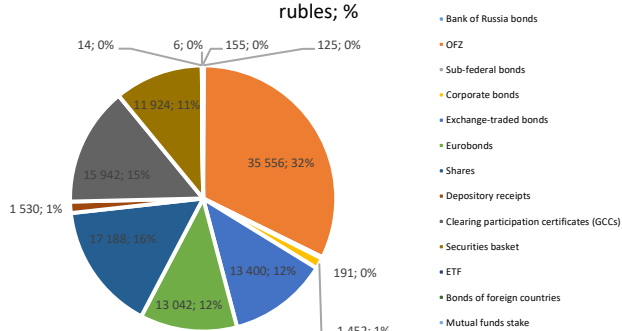


Fig. 15. Structure of the total volume of open-end positions of exchange-traded repo transactions by types of collateral, IVQ 2021, bln. rubles; %

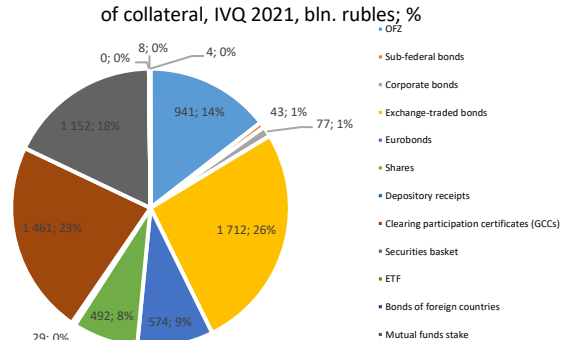


Fig. 16. Structure of the total volume of OTC repo transactions in the internal market by types of collateral, IVQ 2021, bln. rubles; %

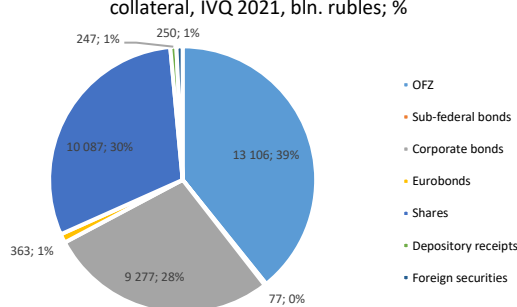


Fig. 17. Structure of the total volume of OTC repo transactions in the external market by types of collateral, IVQ 2021, bln. rubles; %

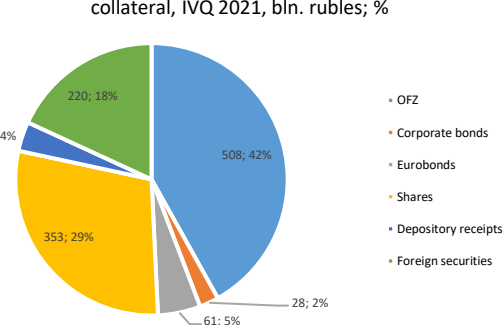


Fig. 18. Structure of the total volume of open-end positions of OTC repo transactions in the internal market by types of collateral, IVQ 2021, bln. rubles; %

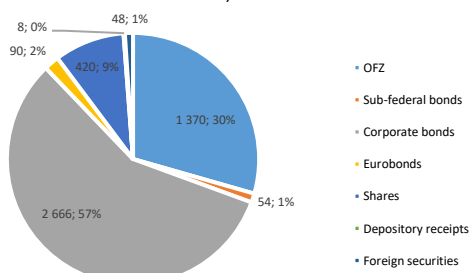
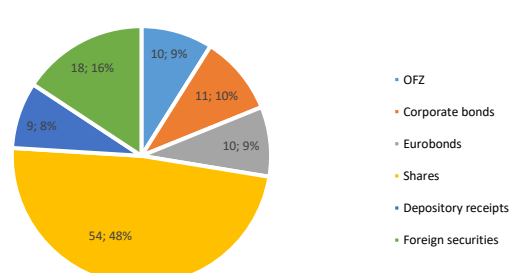


Fig. 19. Structure of the total volume of open-end positions of OTC repo transactions in the external market by types of collateral, IVQ 2021, bln. rubles; %



The distribution of the total volume of repo transactions by types of securities used as collateral is shown in Fig. 20 - 21.

Fig. 20. Distribution of the total volume of stock-exchange repo transactions by types of securities used as collateral, bln. rubles

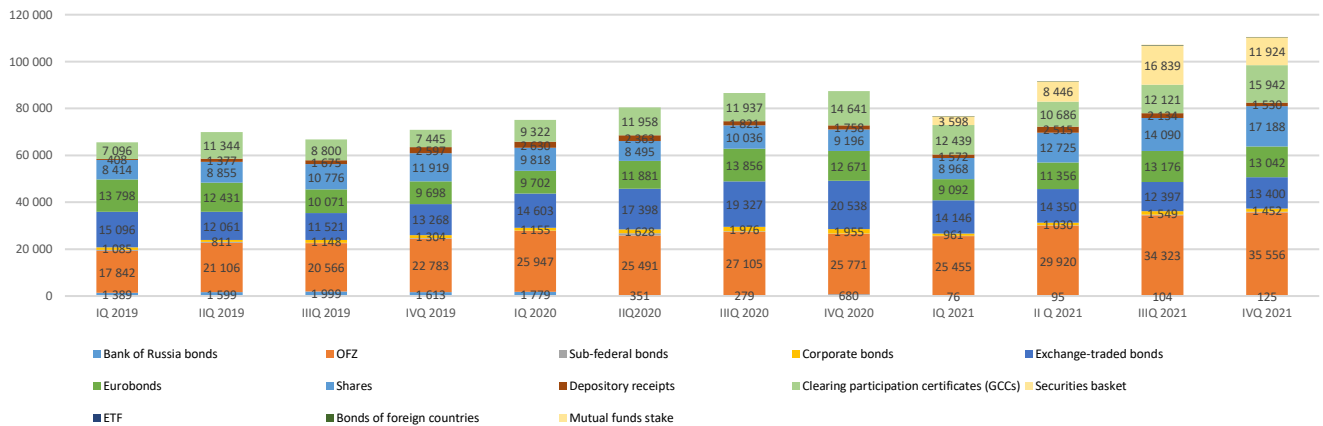
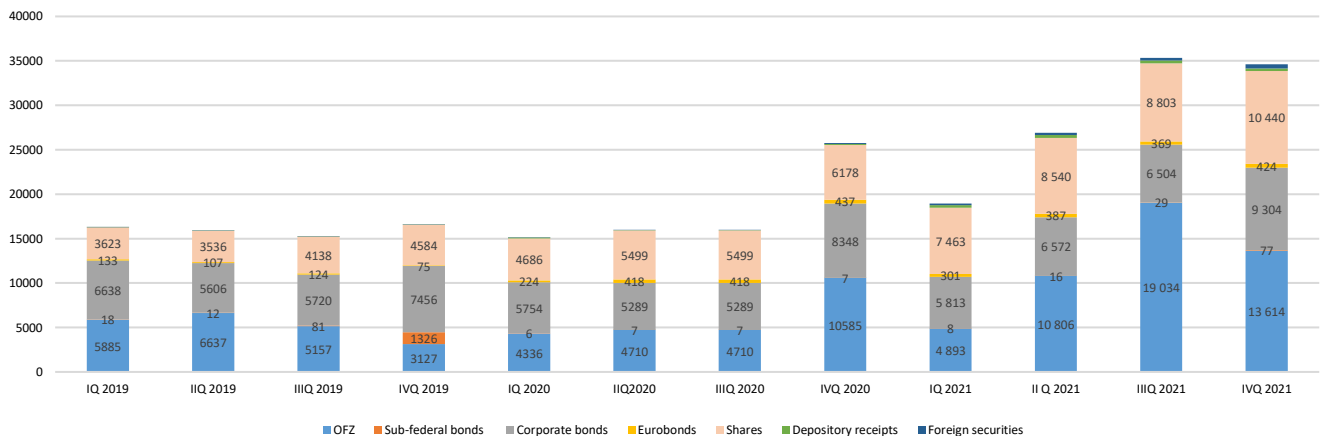


Fig. 21. Distribution of the total volume of OTC repo transactions by types of securities used as collateral , bln. rubles



## 5. Repo transactions by types of legal arrangements

The structure of the total volume of repo transactions and the total volume of open-end positions in repo transactions by types of legal arrangements are presented in Fig. 22 - 23.

Fig. 22. The structure of the total volume of repo transactions by types of legal arrangements, bln. rubles, %

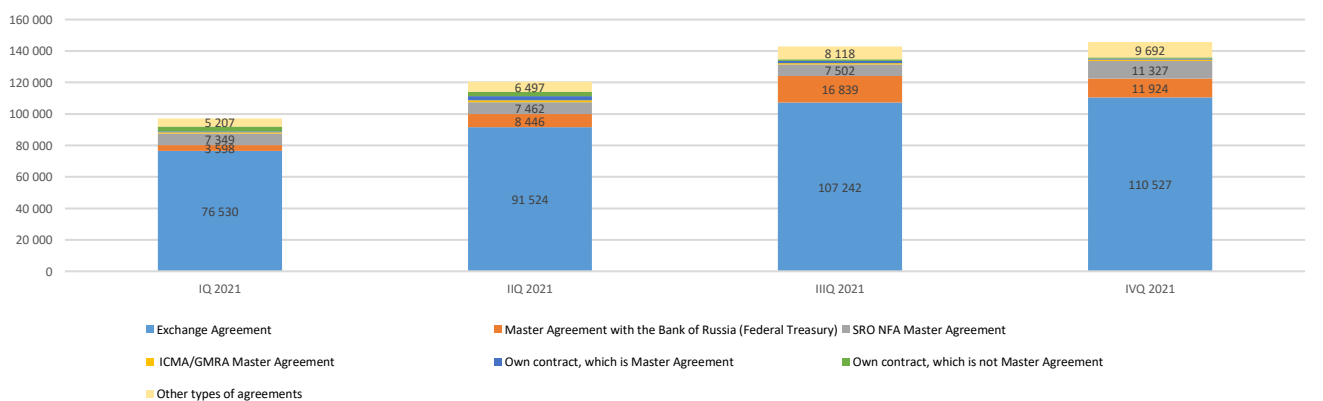
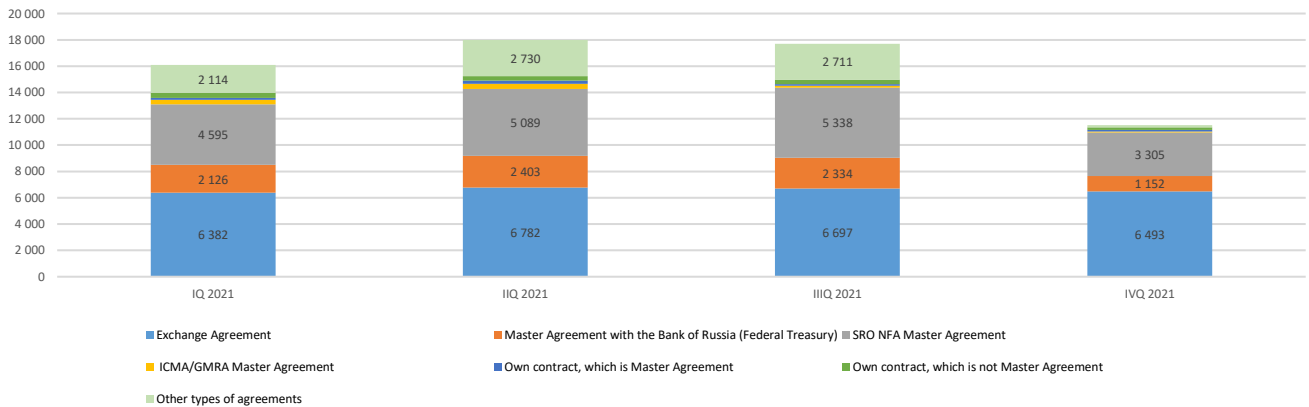


Fig. 23. The structure of the total volume of open-end positions in repo transactions by types of legal arrangements, bln. rubles, %



## 6. Repo transactions by types of counterparties

The dynamics of the distribution of the total volumes of exchange-traded and OTC repo transactions and the structure of the total volumes of open-end positions in exchange-traded and OTC repo transactions by types of counterparties are presented in Fig. 24 - 29.

Fig. 24. The dynamics of the distribution of the total volumes of exchange-traded repo transactions by types of counterparties, bln. rubles

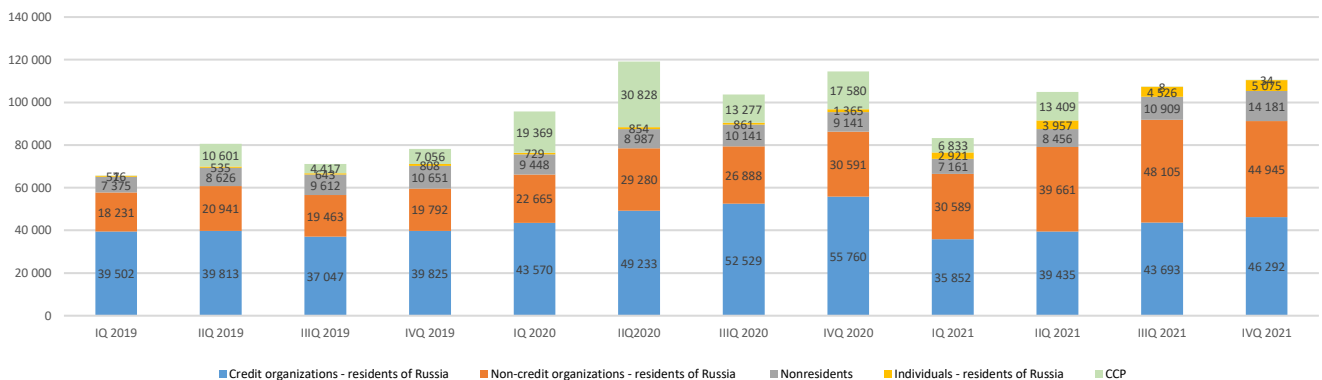


Fig. 25. The structure of the total volume of open-end positions in exchange-traded repo transactions by types of counterparties, bln. rubles

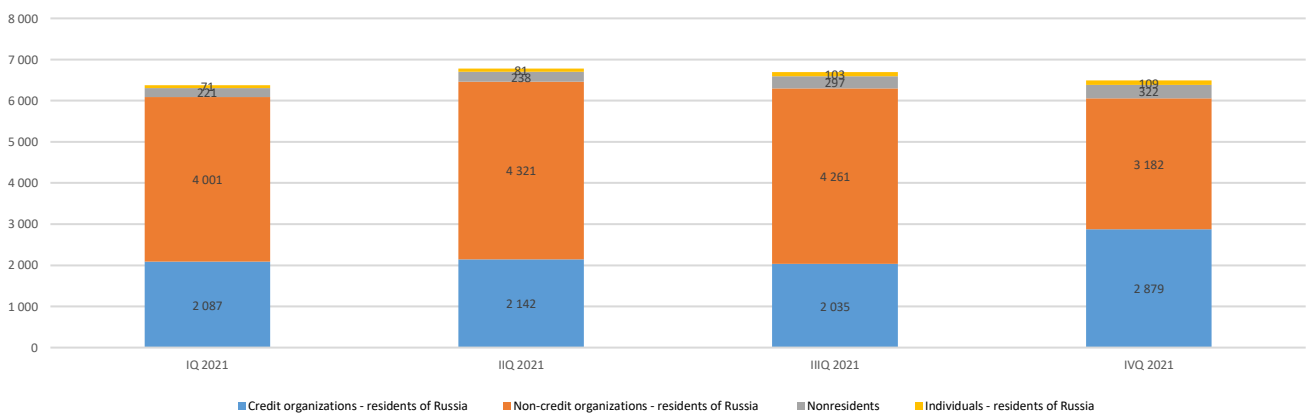


Fig. 26. Distribution of the total volume of OTC repo transactions (internal (IN) and external (EX) markets) by type of counterparties, bln.rubles. (direct repo)

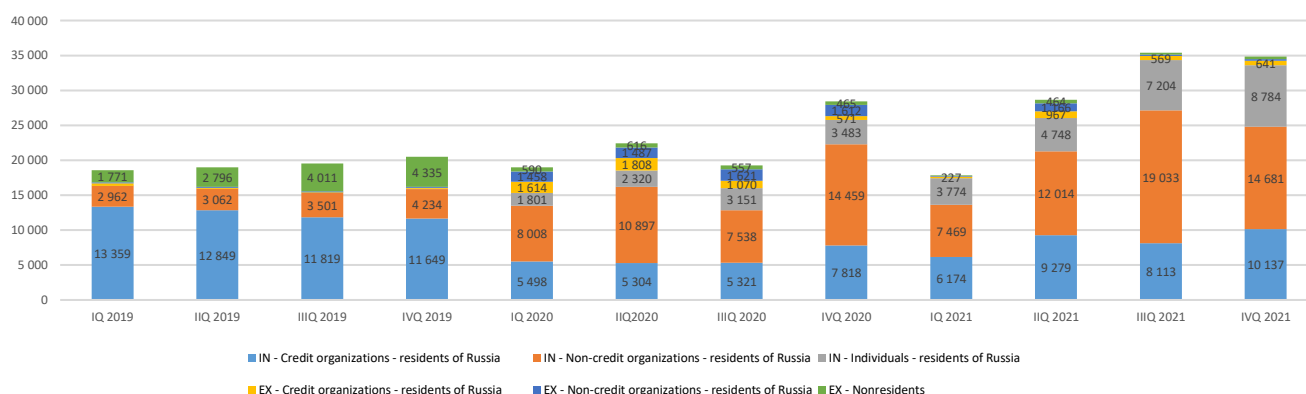


Fig. 27. Distribution of the total volume of OTC repo transactions (internal (IN) and external (EX) markets) by type of counterparties, bln.rubles. (reverse repo)

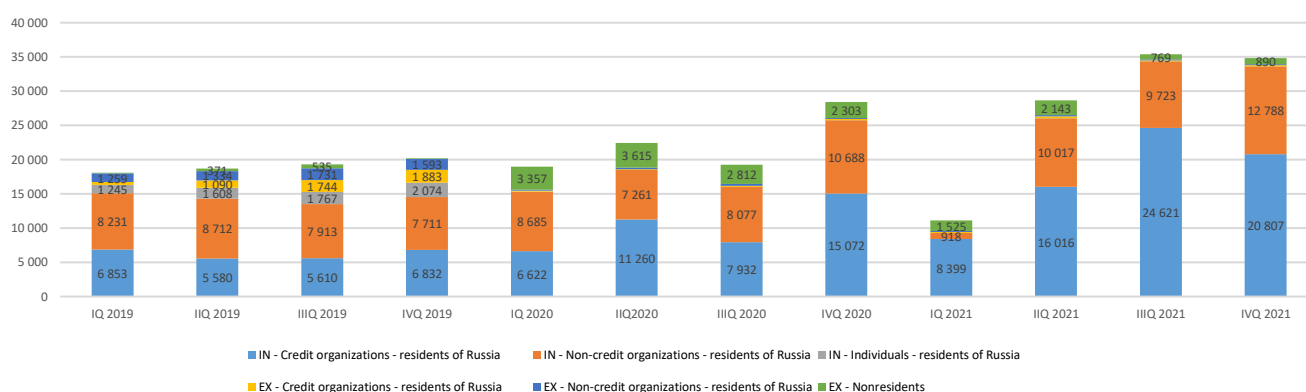


Fig. 28. Structure of the total volume of open-end positions of OTC repo transactions (internal (IN) and external (EX) markets) by type of counterparties, IVQ 2021, bln. rubles, % (direct repo)

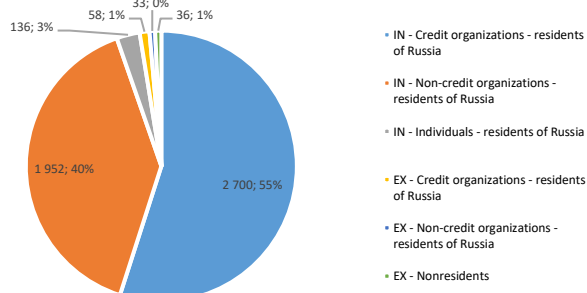
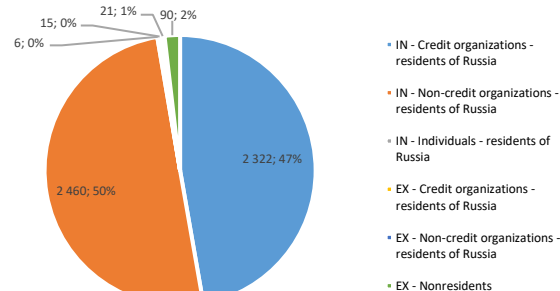


Fig. 29. Structure of the total volume of open-end positions of OTC repo transactions (internal (IN) and external (EX) markets) by type of counterparties, IVQ 2021, bln. rubles, % (reverse repo)



## 7. Repo transactions by types of currencies

The distribution performance of the total volume of transactions, structure of the total volume of open-end positions in exchange-traded repo transactions and distribution performance of the total volume of open-end positions, the total volume of OTC repo transactions in the context of the currency analysis are presented in Fig. 30 - 35.



Fig. 30. Currency analysis of exchange-traded repo, bln. rubles

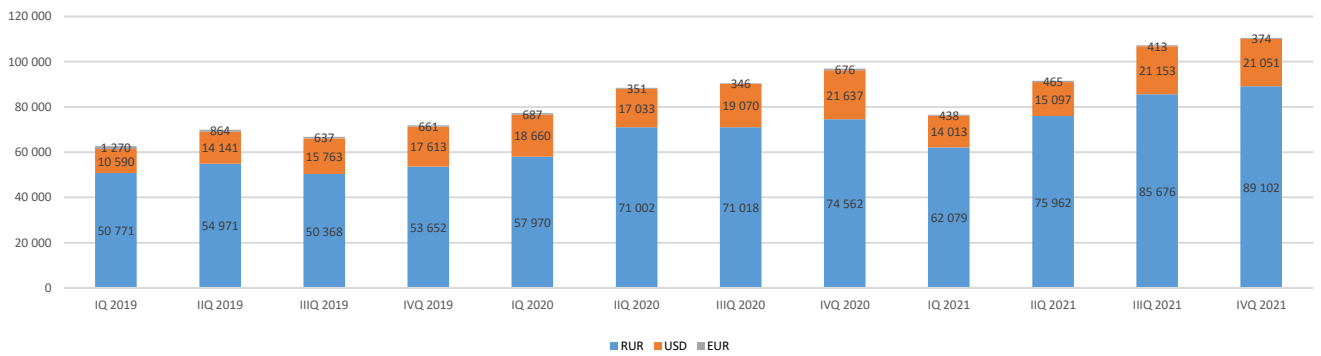


Fig. 31. Currency analysis of exchange-traded repo (open-end positions), bln. rubles

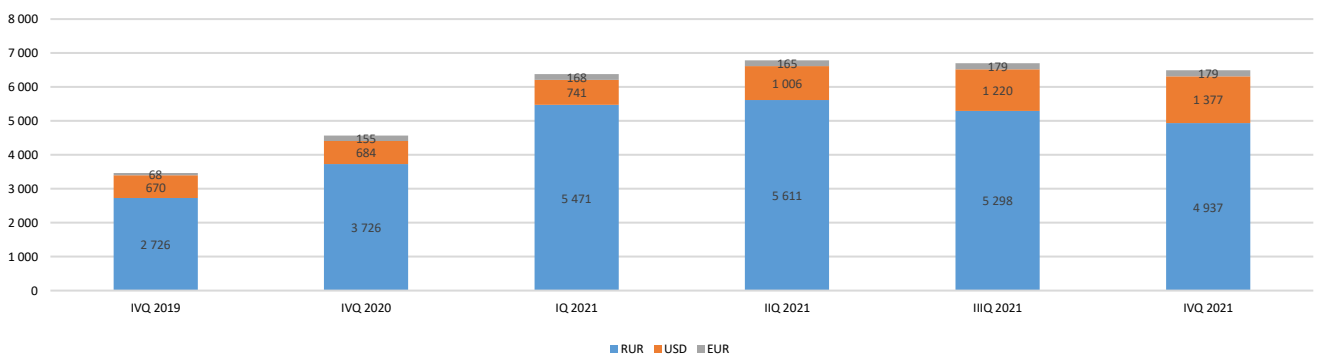


Fig. 32. Currency analysis of the total volume of OTC repo (internal market), bln. rubles

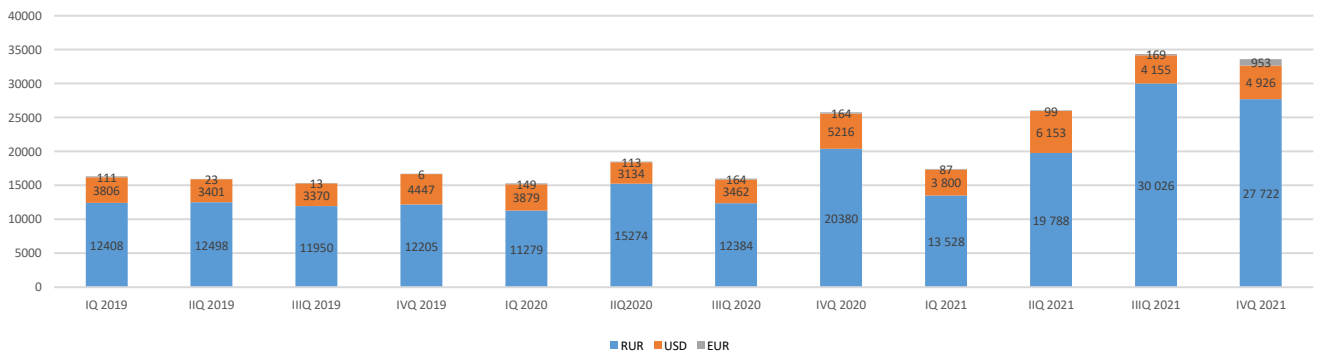


Fig. 33. Currency analysis of the total volume of OTC repo (external market), bln. rubles

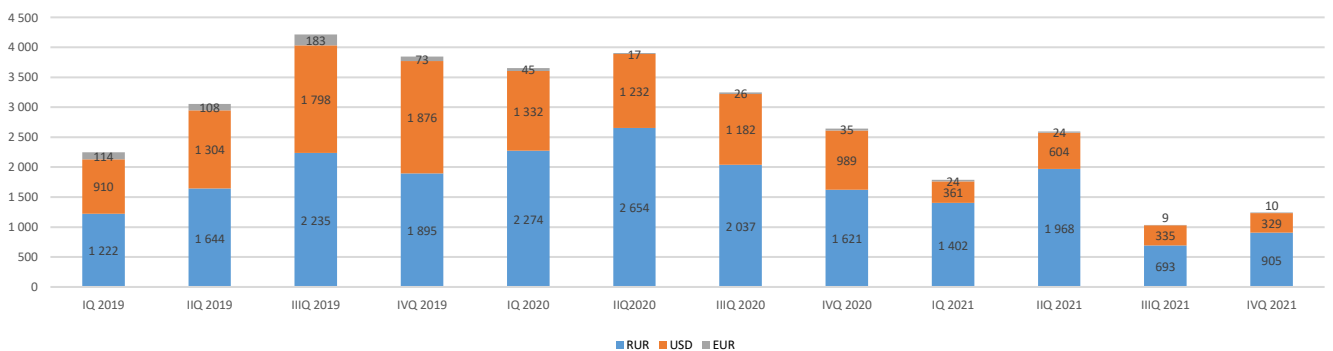




Fig. 34. Currency analysis of the total volume of open-end positions of OTC repo (internal market), bln. rubles

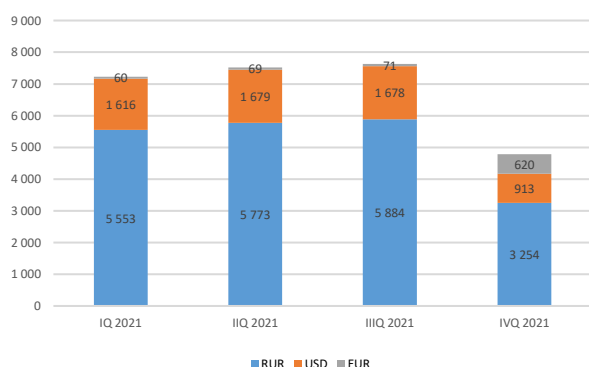
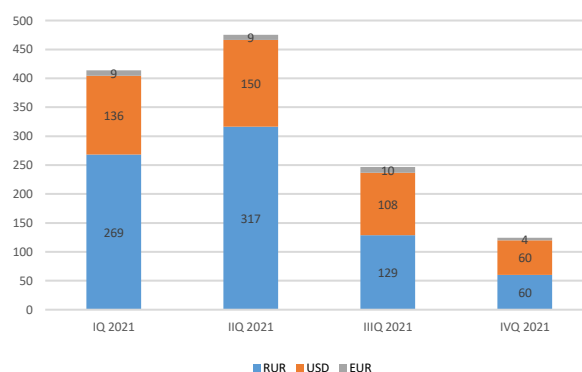


Fig. 35. Currency analysis of the total volume of open-end positions of OTC repo (external market), bln. rubles



## 8. OTC repo transactions by type of repo rates

The structure of the total volume of OTC repo transactions by type rates used in repo transactions is presented in Fig. 36 - 38.

Fig. 36. The dynamics of the structure of the total volume of internal OTC repo market by type of rates used, bln. rubles

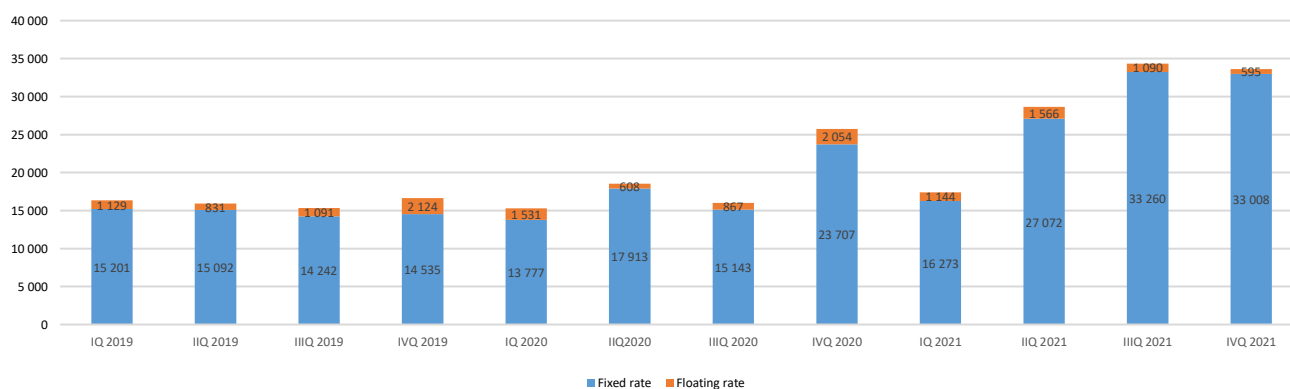


Fig. 37. Structure of the total volume of internal OTC repo market by the distribution of the floating rates, bln. rubles

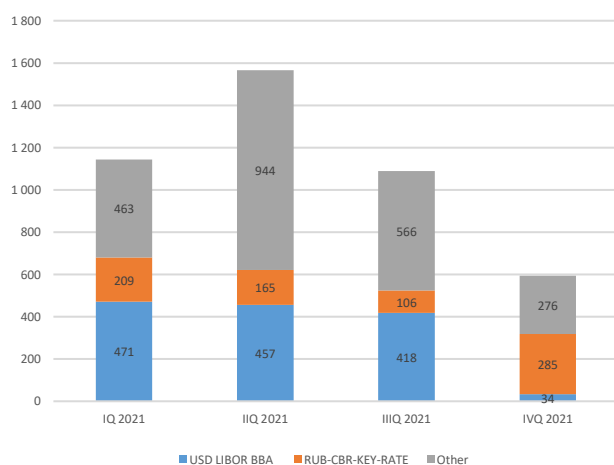
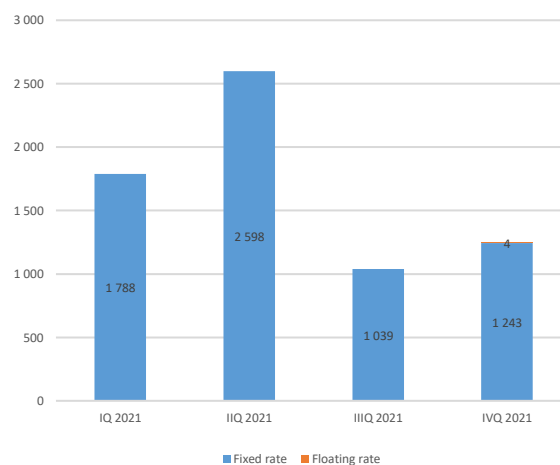


Fig. 38. The structure of the total volume of external OTC repo market by type of rates used, bln. rubles



## The analysis of Study results – Full Year 2021

The Russian Repo Market Study of the 2021 year shows the following:

1. The total volume of repo transactions in 2021 amounted to 506 287 billion rubles, which is 14% higher than in 2020. During 2021 the volume dynamics of repo transactions were differently directed.
2. The total amount of open-end positions of repo transaction in 4Q 2021 valued 11 516 billion rubles, which is 7% lower than in 2021.
3. Significant positive dynamics have shown the growth of ruble-denominated repo transactions with the Bank of Russia and Russian Federal Treasury in the exchange market in the 3<sup>rd</sup> and 4<sup>th</sup> quarters of 2021.
4. In 2021, the total amount of funds raised through OTC repo transactions in foreign markets amounted to RUB 6 653 billion rubles and showed a negative trend (-47% by 2020).
5. There is a general decrease in the volume of OTC repo transactions in 2021 both in the domestic and foreign markets.
6. The total volume of exchange-traded inter-dealer repo in 2021 decreased by 36% compared to 2020. The best positive dynamics was demonstrated by the repo market with a central counterparty (addressed and unaddressed transactions; including carryover by repo transactions with a central counterparty), which grew by 10% compared to 2020 and amounted to 322 074 billion rubles at the end of 2021.
7. The most significant volume of exchange transactions in the context of types of professional activity were dealer transactions (81%) and brokerage transactions (10%) in 4Q 2021. Dealer transactions also showed a larger volume (90%) than broker transactions (7%) in terms of types of activities in terms of total repo volume.
8. As in the exchange market, in 4Q 2021 in the OTC market, considering the structure of OTC repo transactions in the domestic and foreign markets, dealer transactions also had an advantage (59%), while brokerage transactions accounted for 40% of the total volume of OTC repo transactions in the domestic and foreign markets.
9. Exchange repo transactions for the maturity of 1 day and 1 week (2-7 days) accounted for 59% and 29%, respectively, of the total volume of transactions in the 4Q 2021. In the OTC market, OTC repo transactions for the maturity of 1 day, 1 week and 8-31 days accounted for 42% and 20% and 26%, respectively, of the total volume of transactions in the 4Q 2021.



10. Exchange repo transactions with OFZ as collateral in the analyzed period accounted for the largest share in the total volume of concluded REPO transactions. Significant volumes of transactions with similar shares in the total volume of repo transactions fall on repo transactions with exchange-traded bonds, GCC and Eurobonds.
11. OTC repo transactions in the domestic market with OFZ as collateral in the analyzed period accounted for the largest share in the total volume of concluded repo transactions. Significant volumes of transactions with similar shares in the total volume of repo transactions accounted for repo transactions with shares and corporate bonds in the 4Q 2021.
12. OTC repo transactions on the foreign market with shares as collateral accounted for the largest share in the total volume of concluded repo transactions (64%). A significant volume of transactions in the total volume of repo transactions in the external market also accounted for repo transactions with OFZs in 4Q 2021.
13. Exchange repo transactions accounted for 76% of the total volume of transactions in the context of types of legal arrangements of repo transactions in 4Q 2021. Repo transactions with the Bank of Russia and Russian Federal Treasury concluded using the Master Agreement and the Master Agreement developed by SRO NFA accounted for 8% of the total volume of transactions by type of legal arrangements.
14. The key share in exchange-based repo transactions in 2021 was occupied by transactions with credit institutions - residents of the Russian Federation and with non-credit institutions - residents of the Russian Federation, their ratio was stable in 2021.
15. In the OTC domestic repo market, the main share in the total volume of direct repo transactions (raising funds) falls on transactions with non-credit institutions - residents of the Russian Federation and credit institutions - residents of the Russian Federation.
16. In the OTC domestic repo market, the main share in the total volume of reverse repo transactions (provision of funds) falls on transactions with credit institutions - residents of the Russian Federation and non-credit institutions - residents of the Russian Federation.
17. In the period under review, the main share of the volume of exchange-based repo transactions fell on Russian rubles. Repo transactions in Russian rubles also prevailed on the OTC repo domestic and foreign markets.
18. In the OTC domestic and foreign repo markets, repo transactions with the fixed rate used prevailed.



## Annex 1: About the Russian Repo Council

Since 2003 SRO NFA is carrying out the project on the repo market jointly with the Bank of Russia, Moscow Exchange and the largest financial markets participants.

The main results of the project are the introduction of repo transactions into Russian legislation and supporting the adoption of a stimulative taxation regime of the repo transactions.

Within the framework of the project, the general regulatory framework was laid down, modern technologies were developed for the internal market repo transactions and the necessary service infrastructure was established.

In addition, the repo transactions have become the basis for the modern refinancing system formed by the Bank of Russia, which serves as the effective tool for liquidity management, both by the Bank of Russia and market participants.

On 18 December 2006 SRO NFA presented in Moscow the Russian Repo Council, which was created by SRO NFA with the support of the Bank of Russia and the Moscow Exchange.

The members of the Russian Repo Council are representing the Bank of Russia, SROs and leading participants of the Russian Repo market.

The main tasks of the Russian Repo Council are:

- creation of an expert platform for discussing key issues of the Russian repo market;
- the development of the Russian Repo Master Agreement;
- the development, implementation and maintenance of the methodology for the repo market;
- consolidation of the best practices in the repo market.

By the decision of the Russian Repo Council in July 2020, SRO NFA launched a new information product for financial market participants [Russian Register of Repo Dealers](#). The creation of the Russian Register of Repo Dealers is aimed at raising the awareness of financial market participants about professional participants in the repo market and contributing to the activation of operations in the repo market.

Since the launch of the project to develop the market for repo transactions, constant work has been carried out to improve all aspects of these transactions. SRO NFA and the Russian Repo Council actively cooperate with [ICMA](#) and the [European Repo and Collateral Council](#).

More detailed information on the activities of the Russian Repo Council is available at [https://new.nfa.ru/councils\\_and\\_committees/rossiyskiy-sovet-repo-rsr/](https://new.nfa.ru/councils_and_committees/rossiyskiy-sovet-repo-rsr/).



## Annex 2: Study Contributors



Self-regulatory organization «National Finance Association» (NFA) is a leading professional association that brings together about 220 Russian securities market participants from all eight Federal Districts of the Russian Federation. It was established in 1996 by major participants of the Russian securities market, with the support of the Ministry of Finance of the Russian Federation and the Central Bank of the Russian Federation. NFA members' operations hold about 80% of the Russian banking sector market share.

SRO NFA effectively implements all SRO functions regarding 6 kinds of professional activities on the securities market and also to special depositories.

SRO NFA is an Associate Member of the International Capital Market Association and represents Russian financial market participants. SRO NFA actively cooperates with the International Swaps and Derivatives Association (ISDA) and the National Association of Financial Market Institutions Investors (NAFMII). SRO NFA is also a member of the Asia Securities Forum (ASF).



Moscow Exchange operates one single multifunctional exchange trading venue in equities, bonds, derivatives, currencies, money market instruments and commodities. The Group also includes Russia's central securities depository 'the National Settlement Depository' and the National Clearing Centre, which performs the function of central counterparty, which allows Moscow Exchange to provide clients with a full cycle of trading and post-trading services.

The Money Market of Moscow Exchange is one of the most dynamically developing exchange market segments and provides a wide range of liquidity management tools.

The Money Market of Moscow Exchange consists of deposit and credit operations and repo operations, including repo and deposits with CCP, repo with clearing participation certificates, operations of the Bank of Russia and the Federal Treasury, inter-dealer repo and tri-party repo, involving the NSD's Collateral Management System.







National Settlement Depository (NSD) is a key component of the Russian financial infrastructure and is the registrar of financial transactions. NSD is recognized as the systemically important depository and systemically important repository by the Bank of Russia. NSD is the nationally and systemically important payment system operator and performs the functions of all payment infrastructure operators

NSD provides a wide range of settlement and depository (custody), including depository services, settlement services and repository services, information and technology services, collateral management.

NSD performs all of the exchange settlements and most of the OTC settlements, working with Russian and foreign securities. To date, NSD has opened accounts in central depositories and international settlement and clearing centres of 8 countries. NSD has correspondent accounts in the leading international and Russian banks. NSD servicing securities of the issuers from more than 40 countries.

