Review of the securities market of the Republic of Kazakhstan

2021





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Kazakhstan: Facts and Figures

- ✓ Sovereign Credit Ratings/ Investment Grade:
 - Standard & Poor's BBB-/stable/A-3 (03.09.2021)
 - Fitch BBB/stable/F2 (04.02.2022)
 - Moody's Baa2/stable (11.08.2021) Kazakhstan has become one of the five countries in the world whose rating has been upgraded, while ratings have been revised for 144 countries
- According to the World Bank's classification by income level in 2018 Kazakhstan is among the upper-middle-income countries, it means gross national income per capita from \$4.046 to \$12.535 (gross national income per capita in Kazakhstan in 2020 year \$9.055,8)
- Territory 2,7 m sq. km:
 - worldwide the 9th place
 - amongst the CIS countries the 2nd place
- Population 18.4 m
- Natural resources mainly comprised of mineral resources, oil and gas

Kazakhstan in the World Ranking of Explored Resources

- the world's largest uranium producer
- 2nd place in the world in reserves of chromium, lead and zinc
- 3rd place in the world in manganese reserves
- 5th place in the world in copper reserves
- TOP 10 in the world for coal, iron and gold reserves

Kazakhstan's stock market: position on the world markets map



Source: Committee on Statistics of the Ministry of National Economy of the RK, National Bank of the RK, KASE, World Bank

70 types of resources have been explored

60 elements are currently

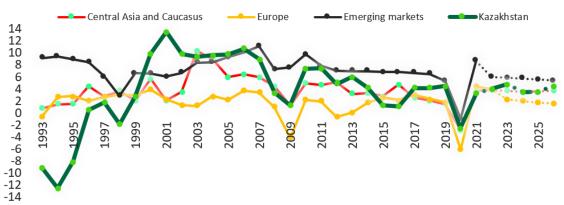
being produced

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Indicator	2015	2016	2017	2018	2019	2020	2021
GDP, billion USD	184.4	137.3	162.9	170.5	181.7	171.2	188.9*
Change in GDP, % (YoY)	+1.2	+1.1	+4.1	+4.1	+4.5	-2.6	+4.0
Inflation, % (YoY)	13.6	8.5	7.1	5.3	5.4	7.5	8.4
Unemployment, %	5.1	5.0	4.9	4.9	4.8	4.9	4.9
Average USD/KZT rate	221.73	342.16	326.00	344.71	382.75	412.95	426.03
Money supply (M3), billion USD	15 368	21 367	20 960	24 271	24 327	17 071	30 099,3
National Fund Assets, billion USD	63.4	61.2	58.3	57.7	61.8	58.7	55.3

Real GDP Growth (% change)



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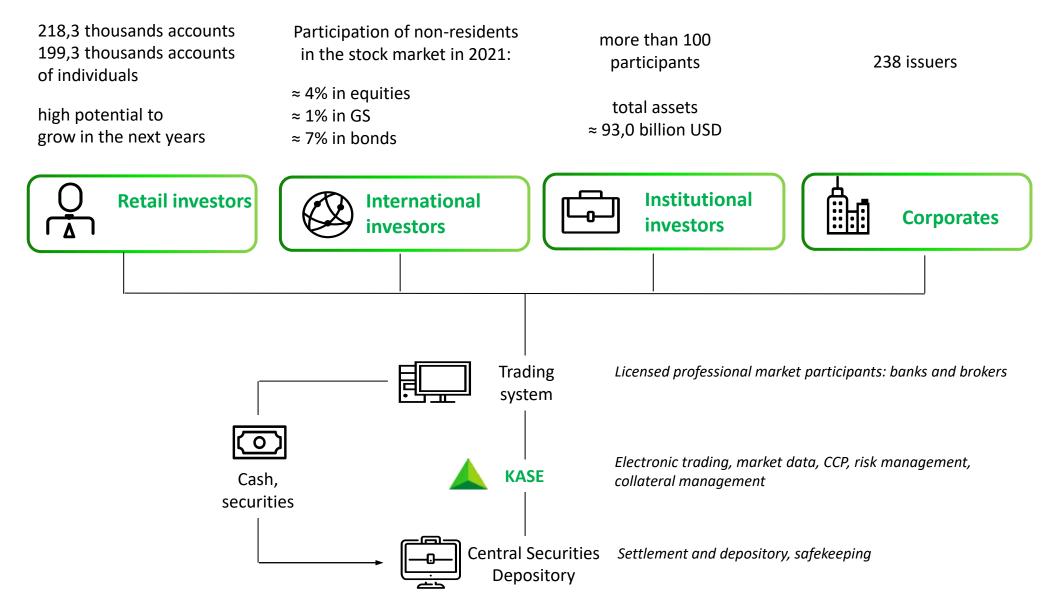
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04

Execution of GS transactions by nonresidents

Local Markets Infrastructure







Role of KASE in Kazakhstan's financial system

Offers a range of exchange services and technological solutions:

- listing
- subscription
- pre-trading
- trading
- post-trading (clearing, settlement)
- dissemination of market data

Provides a wide range of instruments on convenient terms:

- securities, currency pairs and futures
- repo transactions and currency swaps
- possibility of multicurrency payments
- support for popular settlement terms (T + 0, T + 1, T + 2) to get quick liquidity
- relatively low trading fees

Provides effective interaction within the financial system:

- raising of capital by companies
- saving and increasing of capital by investors
- cross-trading in different classes of financial instruments
- risk hedging
- flexible tariff policy
- market pricing
- maintaining liquidity through market-makers

Guarantees the fulfillment of the financial obligations of the participants:

- services of the Central Counterparty in the foreign exchange market and the derivatives market
- modern risk management model
- high speed of settlements











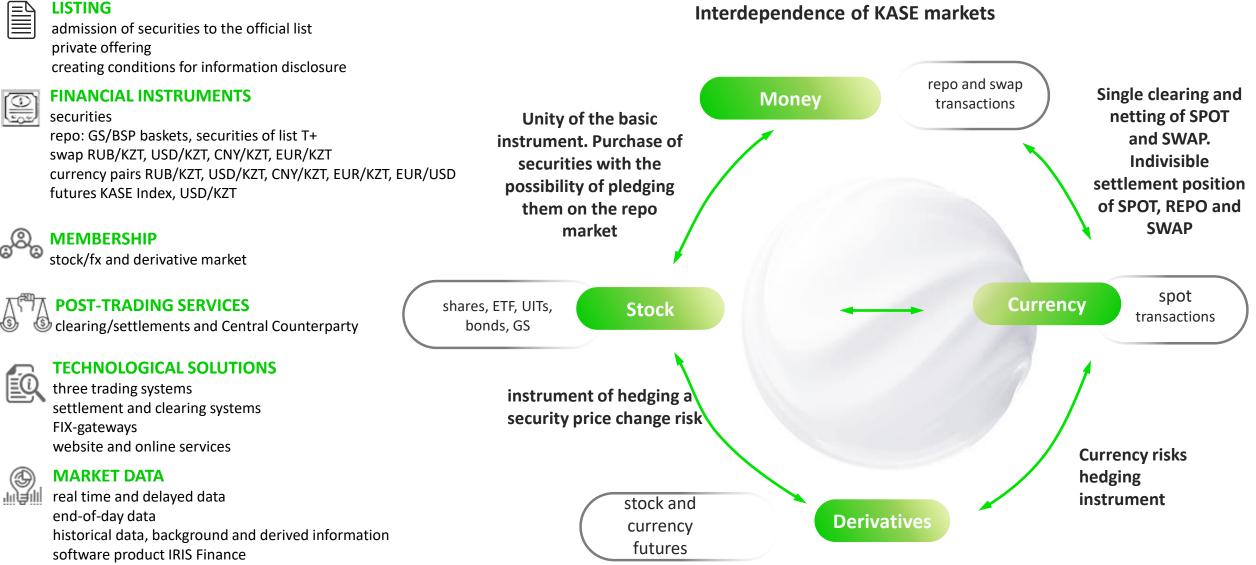
KASE Services

admission of securities to the official list

LISTING

K SE

Interdependence of KASE markets

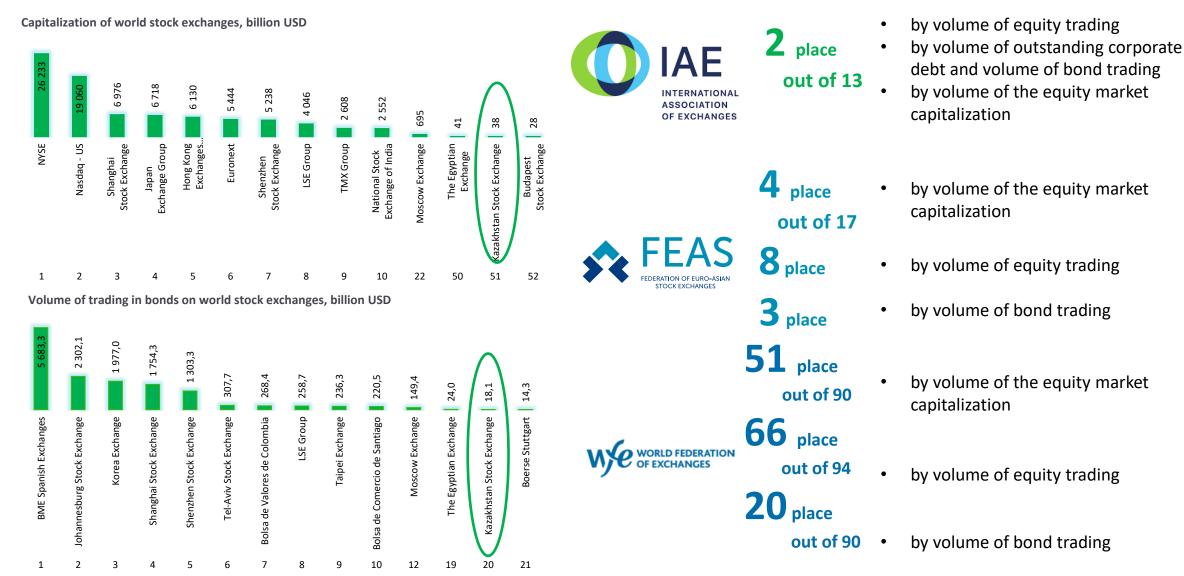


- information product Web-Quotes
- Telegram bot
- **KASE MOBILE** application

KASE 's positions in the global exchange community



Position of Kazakhstan in 2020



Source: World Federation of Exchanges (WFE)

Structure of the trading lists as of January 1, 2022



1 469 instruments, including 904 securities issues,268 instruments in T+ list

	Stock Market		Money Market	FX	Derivatives
Equities	Fixed Income	Structured Products	Swap	Spot	Stock
IPO / Auctions	Auctions	Secondary market	RUBKZT	RUBKZT	KASE Index
Redemption	Secondary market	Investment Funds	USDKZT	USDKZT	USDKZT
Secondary market	Government Bonds	ETF	CNYKZT	CNYKZT	Since the 7 th of July 2021:
Large cap	Municipal bonds	EIF	EURKZT	EURKZT	KZAP
Small cap	NBRK notes		Repo	EURUSD	HSBK
Dual listing	GB of foreign countries		Equities		
GDRs	Corporate Bonds		Bonds		
	corporate bonus		Government Bonds		
	IFI Bonds				
64	197	7			
105	513	18	529	16	20
Settlements					
T+2	T+2	T+2	от T+1 to T+1Y	T+0	T+1W
T Q illiquid equalities	T O illiouid econsities	T .0	от T+0 to T+90	T+1	T+1M
T+0 – illiquid securities	T+0 – illiquid securities	T+0		T+2	T+3M
					T+6M

KASE Members



- **50** total KASE members
- 22 second-tier banks (out of 22) RK residents
- 20 Brokerage firms (out of 20)
- **44** local participants
- 4 foreign participants
- 2 international financial institutions
- 12 participants providing direct market access services

In 2021 KASE members were accepted:



Альфа Банк

admitted to KASE membership in category "Foreign currencies" FIFST Heartland Securities



K S E

admitted to KASE membership in category "Derivatives"

Corporates that have concluded agreements on the trust management of pension assets





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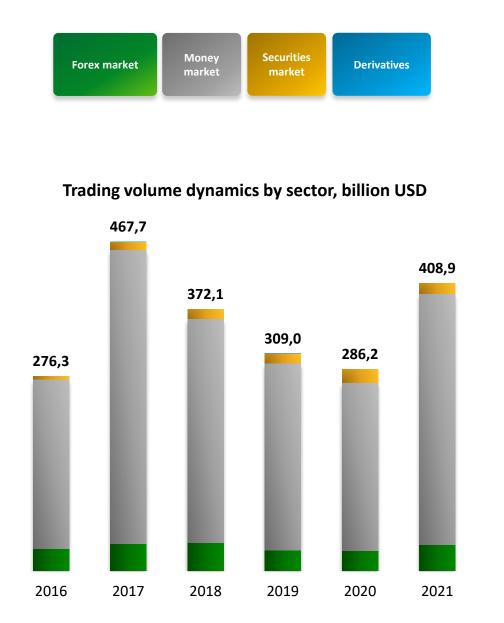


KASE indexes family



	Equity ma	irket	Corporate bond market		
	KASE index		KASE_BMC KASE_BMY	KASE_BAC KASE_BAY	
	Equity market benchmark (7 stocks)		Main market	Alternative market	
Ctool monitot	IE_FXBF - ETF traded on KASE Index		Joint indexes		
Stock market	GS market		Index S&P/OIC Co	omCec 50 Shariah	
	GS risk-free yield curve		KCEL shares are among shares and securities of the 50 largest companies that comply with Sharia law, which are traded on the exchanges of the member states of the Organization of Islamic Cooperation		
	Risk-free yield b	benchmark	Vienna Stock Exchange (WBAG) calculates the Kazakh Traded Index (KTX), which includes shares traded on KASE, in accordance with the WBAG methodology		
	TONIA – a risk-free rate determined by market participants within the working group to determine indicators of the foreign exchange market with participation of second-tier banks.				
Money market	TWINA TRION		SWAP-1D (USD)	SWAP-2D (USD)	
	TCI	TCR	3WAL-ID (020)	SWAF-20 (050)	
	MM Index – average weighted yield of one-day currency swap and TONIA				

Volume and structure of the market



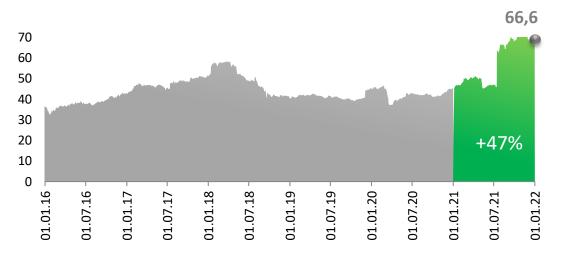


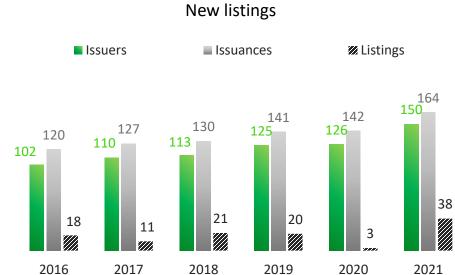
Equities



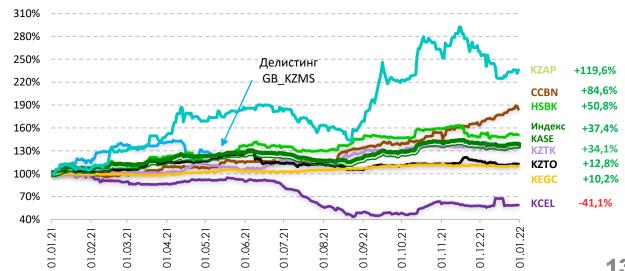
Transactions volume, million USD







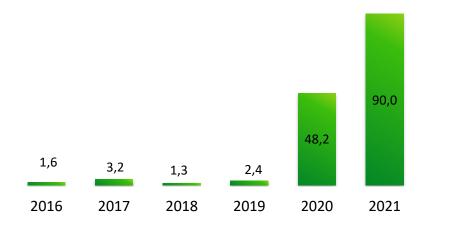
Index KASE dynamics



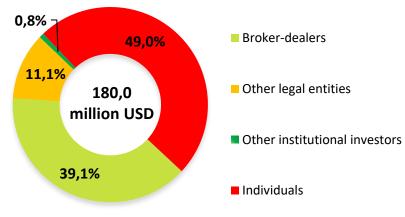
Securities of Investment Funds



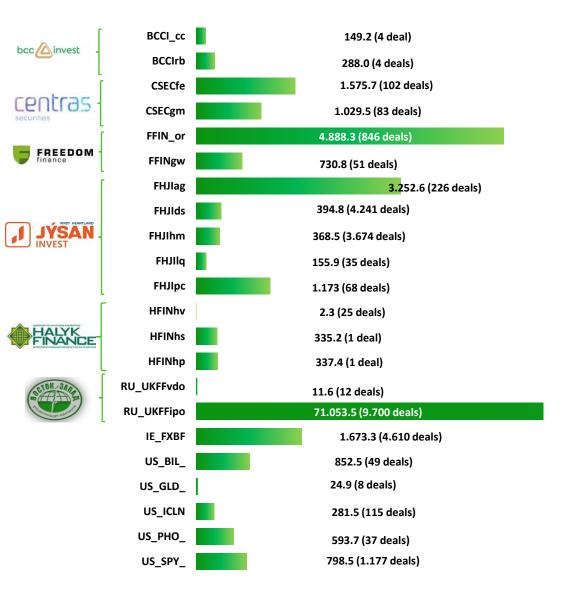




Shares of main types of investors for 2021*

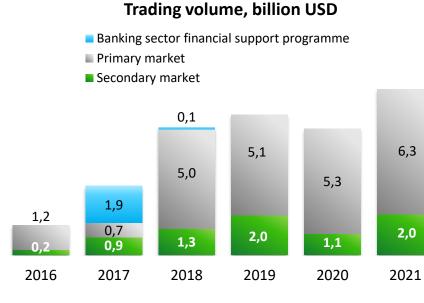


Trading volume for 2021 by instruments, thousand USD

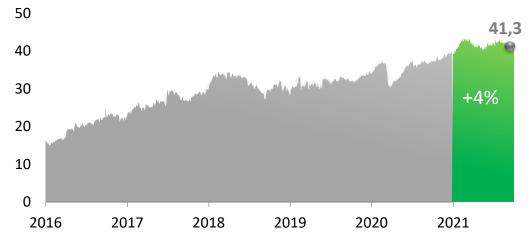


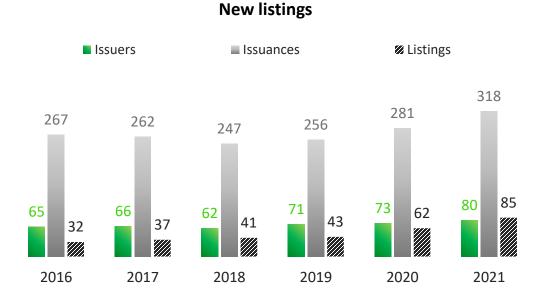
Corporate bonds



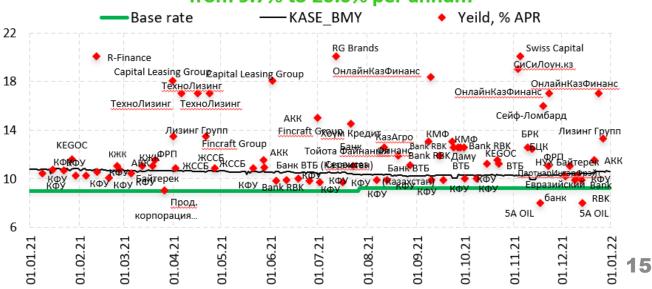


Amount of government debt (at face value). traded on KASE, billion USD



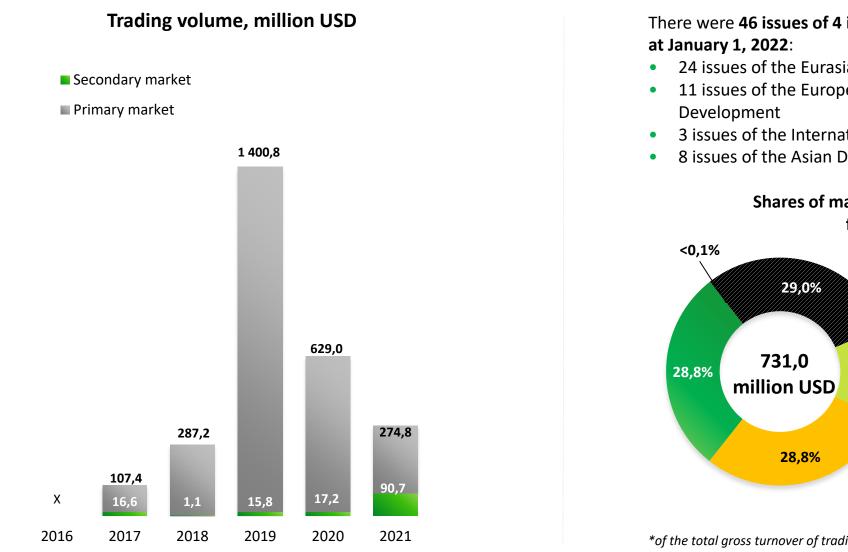


Market placements of corporate bonds for 2021 from 9.7% to 20.0% per annum



IFO bonds

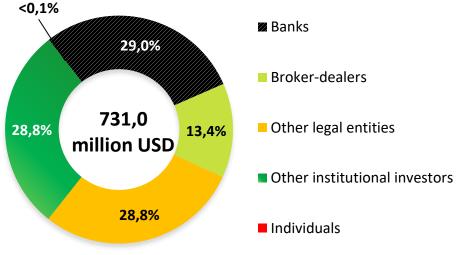




There were **46** issues of **4** institutions in KASE Official List as

- 24 issues of the Eurasian Development Bank
- 11 issues of the European Bank for Reconstruction and
- 3 issues of the International Finance Corporation
- 8 issues of the Asian Development Bank

Shares of main types of investors for 2021*



^{*}of the total gross turnover of trading in IFI bonds

Money market indicators

Launched: December 28, 2020

TONIA

main risk-free benchmark in the money market

TRION/TWINA

additional money market indicators

Launched: September 15, 2021

TCI

TONIA composite index calculated every calendar day based on the last calculated value of TONIA indicator

TCR

TONIA compounded rate calculated every calendar day based on TCI values.

TCR is calculated for 1, 3 and 6 months

In working progress

IOSCO Principles for Financial Indicators

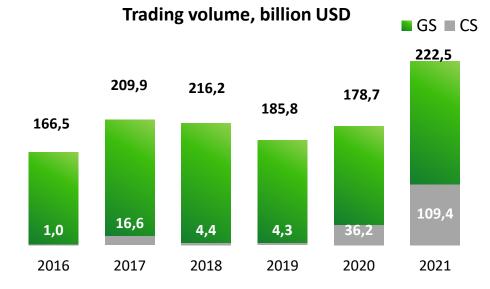
Currently, KASE is working on the issue of the possible accreditation of the Exchange as an index administrator, for compliance with the principles for IOSCO financial indicators according to the standards of the European regulator

new risk-free benchmark in the money market based on the principles of reliability of indicators compliant with the best international practices tasks in reaching the development of Kazakhstan's financial market, promotion of cross-border transactions linked to Kazakhstan's money market indicators

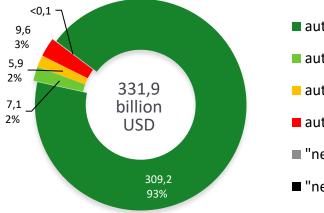
promotion of Kazakhstan in international indexes and classifiers



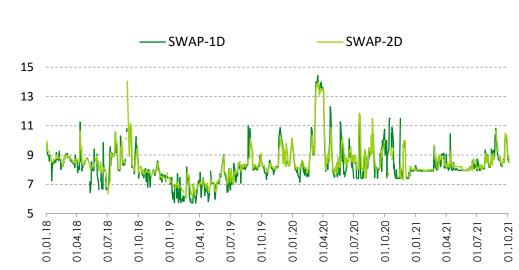
Money market



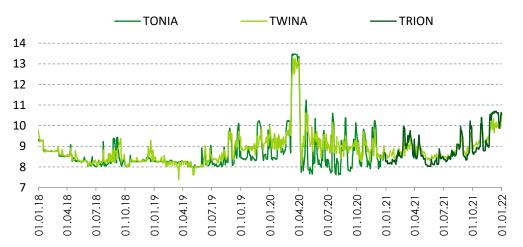
Repo market instruments, billion USD



auto repo with GS basket
auto repo with BSP basket
autorepo on foreign GS
autorepo on CS
"nego" repo on CS
"nego" repo on GS



Repo market indicators, %



Swap market indicators, %

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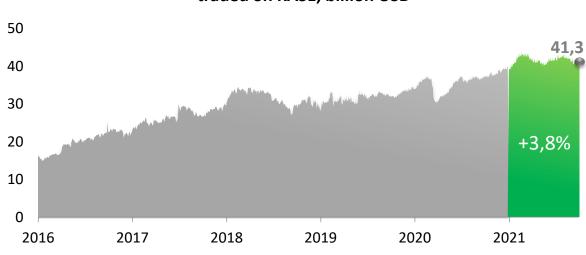
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Execution of GS transactions by nonresidents

Government debt traded on KASE



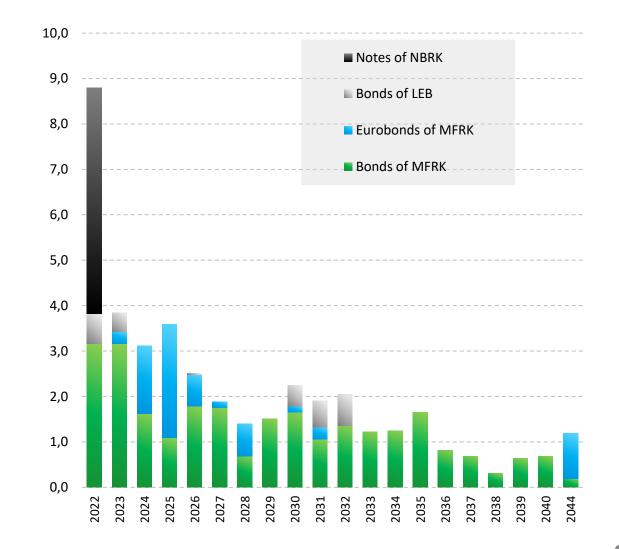


Amount of government debt (at face value), traded on KASE, billion USD



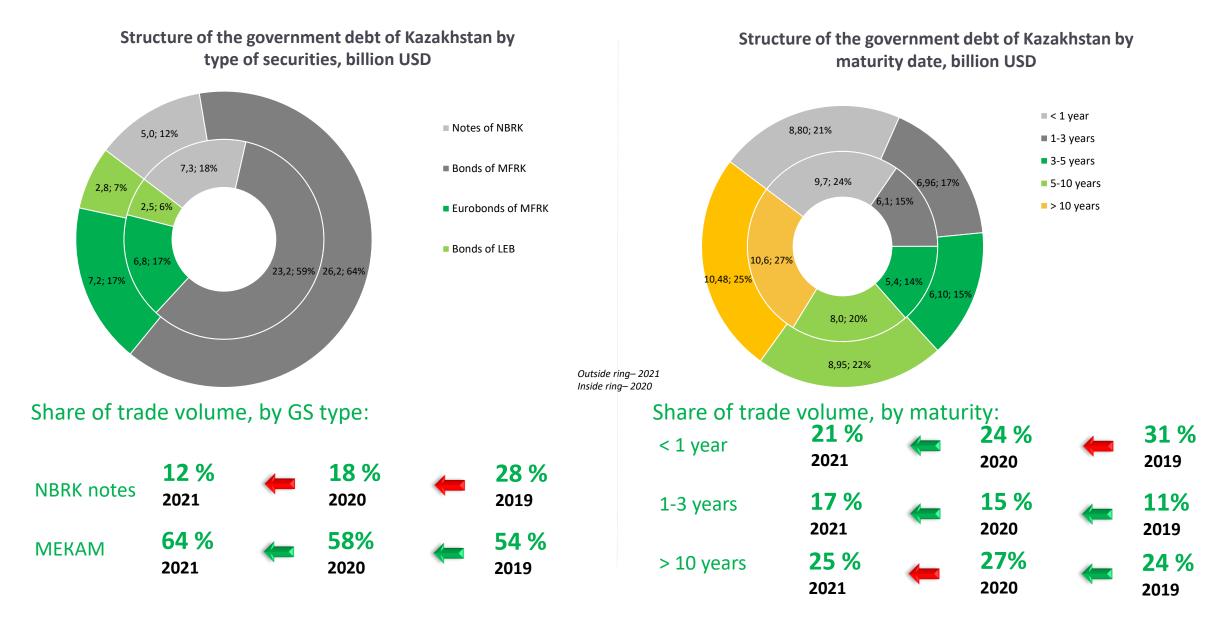


Public Debt Redemption, billion USD



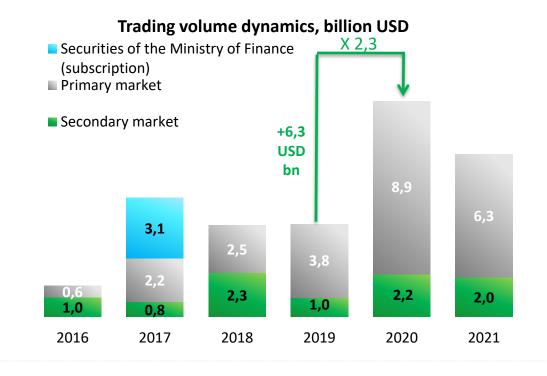
Structure of the government debt of Kazakhstan traded on KASE

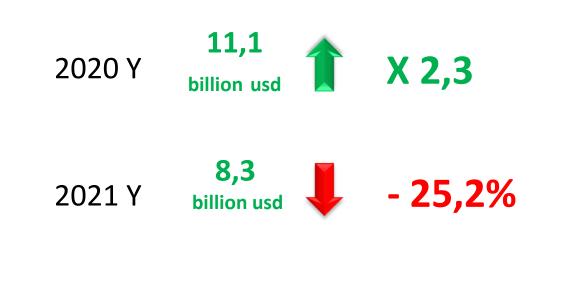


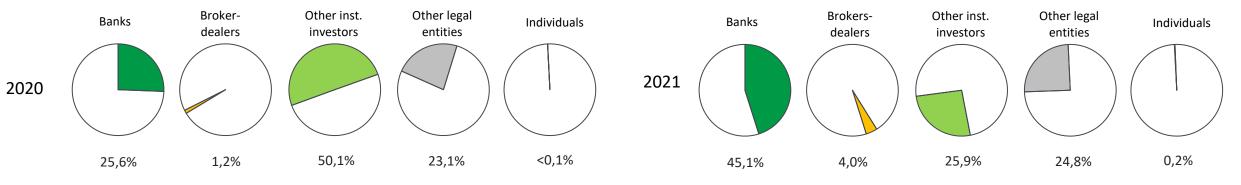


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Trading volume dynamics in Government Securities Market





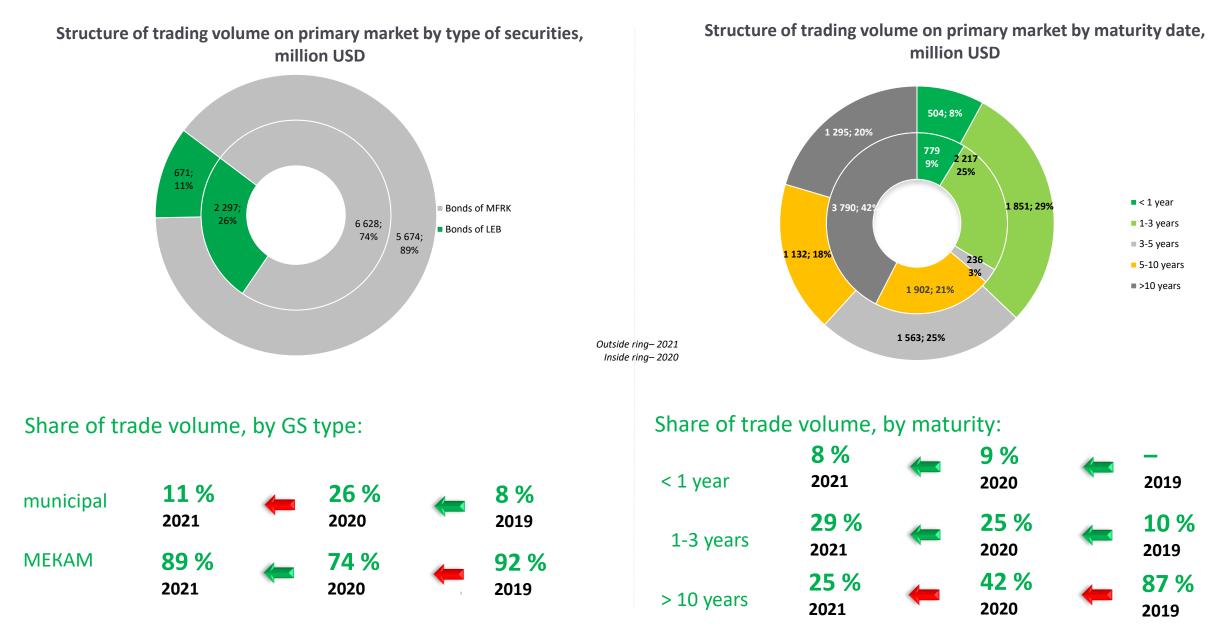


* of the total gross turnover of GS trades; the category - initiator of specialized trades is excluded from the calculation

K SE

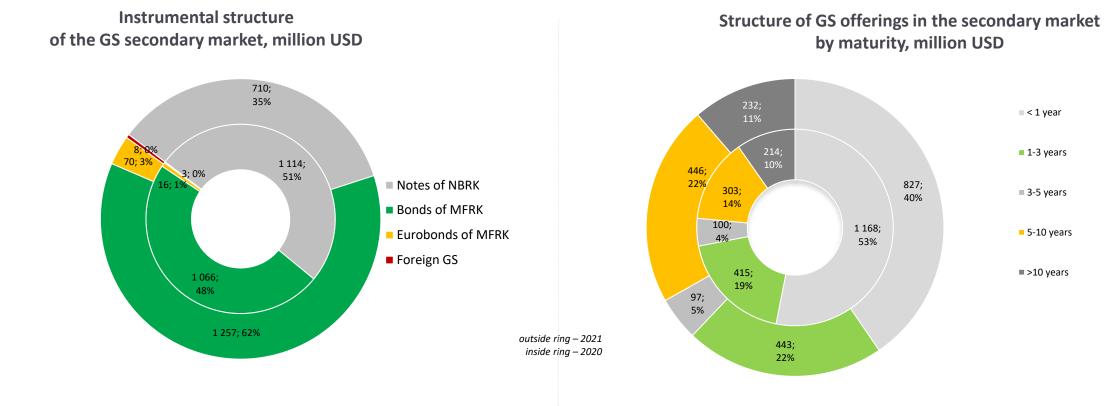
Trading volume Primary Market







Trading volume Secondary Market



1-3 years

> 10 years



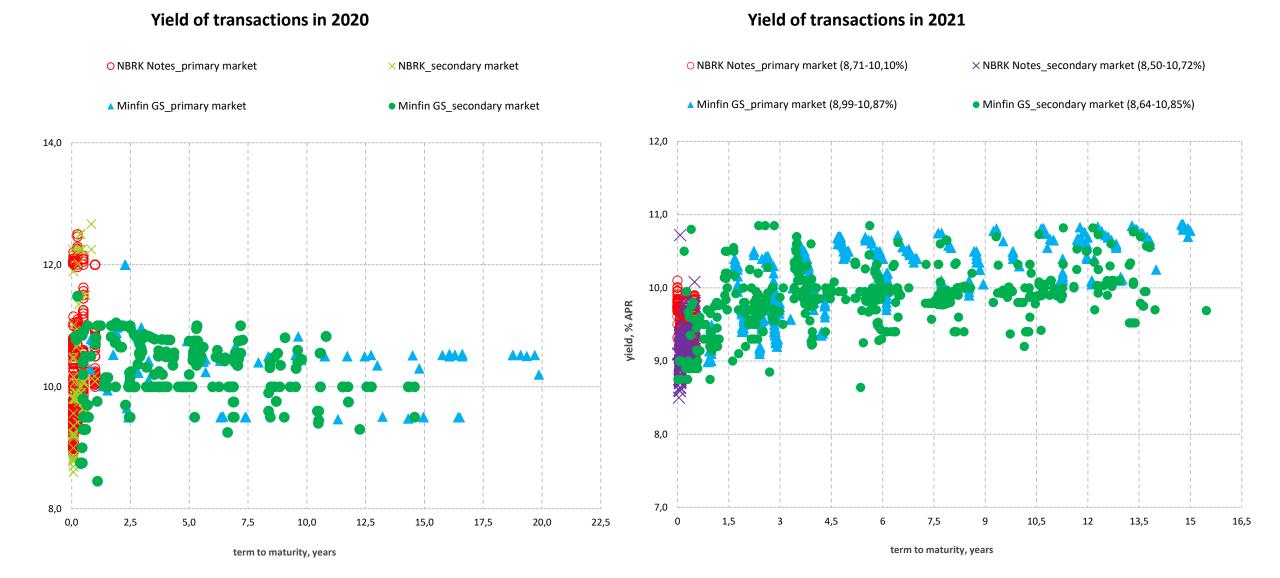




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Yield of transactions on the government securities market





Source: KASE

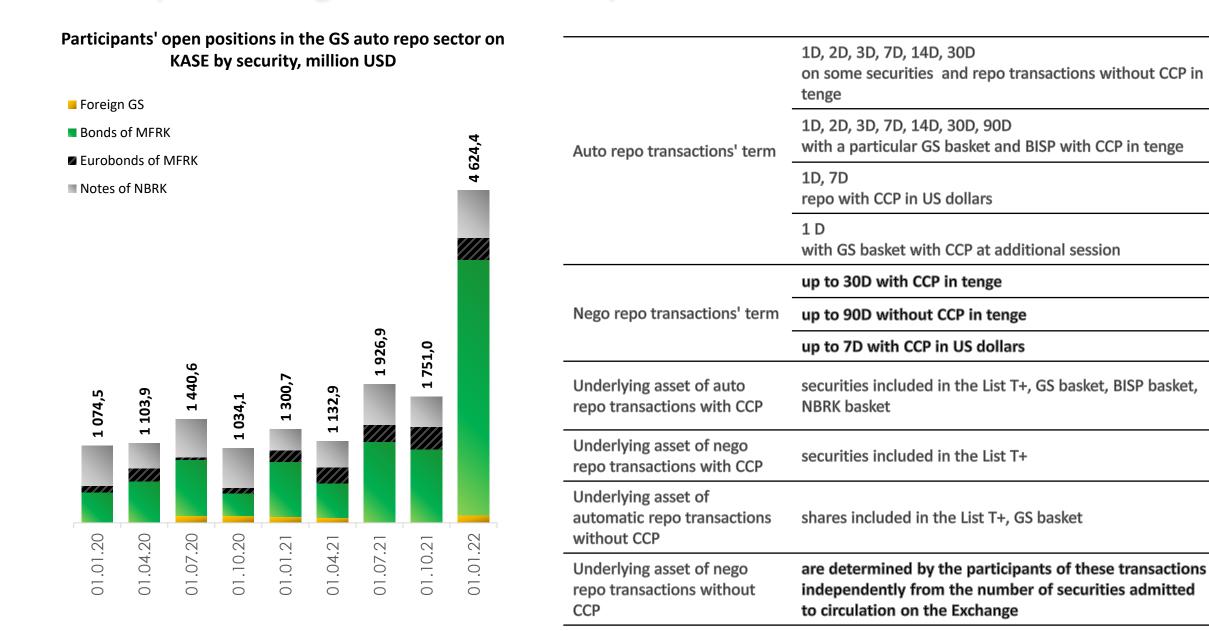
KSE

Yield of deals by GS type

Туре	Description	2020 year		2021	
		primary	secondary	primary	secondary
NBRK notes	Short-term notes with a maturity of 7 to 360 days. The terms of the auctions and the volumes of issues are regulated by the National Bank of the Republic of Kazakhstan and are announced in the conditions of the auctions	8,9%-12,5%	8,6%-12,7%	8,71%-10,10%	8,50%-10,72%
MEKKAM of MF of RK	Discount short-term treasury bonds	9,8%-10,8%	8,74%-10,5%	8,99%-10,40%	8,64%-10,85%
MEOKAM of MF of RK	Medium-term treasury bonds with a maturity of 2-3 years	9,5%-12,0%	8,45%-11,0%	9,95-10,87%	8,75%-10,85%
MEUKAM of MF RK	Long-term treasury bonds with maturities of up to 10 years	9,5%-11,0%	9,3%-11,5%	8,99%-10,87%	8,64%-10,85%
MEUJKAM of MF RK	Long-term savings treasury bonds with a maturity of more than 10 years. Indexed to inflation for the past coupon period		-	-	-
Eurobonds of MF RK	Treasury bills with different maturities issued in foreign currencies in accordance with foreign legislation	-	0,94%-2,94%	-	0,60%-7,92%
Municipal bonds of akimdiks of RK	Obligations of local akami's executive bodies (akimdiks)	0,35%-6,09%	-	4,25%-10,80%	-

Participants' obligations in the GS repo sector





Measures for development of the GS market



The volume of public debt owned by non-residents of the Republic of Kazakhstan, million USD 2500 2000 1500 million USD 1000 500 0 jan.18 nay.18 nov.18 jan.19 may.19 jul.19 sep.19 jan.20 jan.20 jul.20 sep.20 jul.20 sep.20 nov.21 mar.21 jul.18 sep.18 Jan.22 nay.21 jul.21 sep.21

Market-makers on the GS market:





CENTERCREDIT

- ✓ currently there are three market-makers
- ✓ the volume of mandatory quotations is ≈ 1,158 thousand USD at par value*
- \checkmark the spread is 1% of the price of the mandatory purchase quotation
- $\checkmark\,$ timeout for a market-maker is 150 minutes during the trading day

I. Building a risk-free yield curve

In 2021, the MoF plans to issue government securities in the amount of about 6,4 billion USD with maturities from 1 to 15 years.

II. Improving the Public Debt Management Policy

 Active work is conducted with the MoF to improve the public debt management policies

III. Increasing the liquidity of the secondary GS market

- An incentive program for market-makers on government securities launched at KASE
- ✓ UAPF and funds managed by the NB from time to time participate in the secondary market

IV. Infrastructure development and globalization of GS of the Republic of Kazakhstan

- ✓ Work is underway to include GS in the international index of developing countries JP Morgan GBI-EM
- ✓ The settlement process within the international line with Clearstream was converted from FoP to DvP. Settlements are in tenge.
- ✓ Negotiations are underway to create a settlement infrastructure with Euroclear (at the stage of defining a project implementation model)

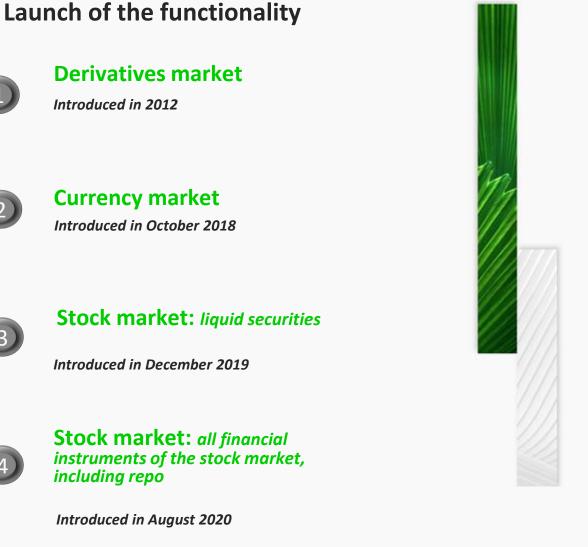
Central counterparty

Introduced in 2012

(2)

3





Transition to new trading systems



Derivatives market

Scheduled for 2021



Currency market Introduced in November 2020



Stock market: *liquid* securities

Introduced in December 2019



Stock market: all financial instruments of the stock market, including repo

Introduced in August 2020

Introduced in August 2020

including repo

CCP's risk management



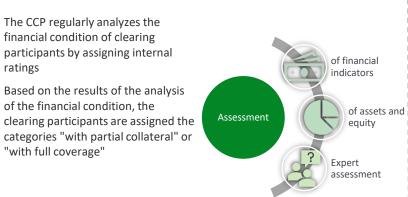
Clearing funds and CCP's protection levels



FI risk-parameters system

- Price boundaries are set for instruments on a daily basis.
- Orders that do not fall within the boundaries are automatically rejected
- Price boundaries depend on the collateral rate calculated by the CCP for each asset
- If orders approach the price boundary, the boundaries move in the direction from the center and in the direction of the market movement
- After the boundaries shift online, the collateral rate changes
- Based on the results of the shift of boundaries, the risk of participants and positions is reassessed at a single limit

Requirements for the financial condition of clearing participants

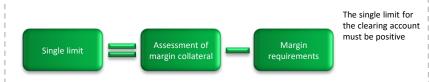


Admission of financial instruments to deals with partial collateral

The CCP monitors the quality and liquidity of FIs admitted to deals with partial collateral (List T+) and accepted as collateral for deals with partial collateral (List of collateral T+), based on the results of which FIs can be included or excluded from the List T+ and/or the Collateral List T+

Control of the collateral sufficiency

Market	Margin collateral	Method of measuring the collateral sufficiency	Guarantee contributio ns
Currency	• Money (KZT, USD)	Single limit	\checkmark
Stock	 Financial instruments, included in the Collateral List T+ Money (KZT, USD) 	Single limit	\checkmark
Derivatives	• Money (KZT)	Supported margin	\checkmark



As a security for the fulfillment of obligations of clearing participants with full coverage, the CCP establishes requirements for full coverage of net obligations on all clearing accounts of such a CP.

Revaluation of collateral value for CP with partial collateral

Revaluation of collateral is performed daily both during the clearing session and during trading (if the price boundaries were changed)

For calculation of collateral, risk limits have been established.

The volume of market/interest rate risk, taking into account revaluation, is calculated as the distance to the corresponding border.

In the case of a covered sale (the participant has an obligation to deliver securities and the security is in the participant's account), the market risk is considered covered.

The amount of collateral of the clearing participant depends on the volume of the position.

If the volume of the position (deposited collateral) is less than the concentration limit, then the initial margin rate is applied.

If the position volume has exceeded the concentration limit, then the initial margin rate is applied to the volume equal to the concentration limit, the concentration rate is applied to the volume in excess of the amount of the concentration limit.



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Execution of GS transactions by nonresidents

Schedule of trading on the GS market



10:30 - 17:30
11:20 – 17:00
11:20 – 17:30
15:30 – 17:00
17:30 – 18:45
10:30 – 17:00

Trading methods:

- continuous counter auction (Order-Driven Market)
- negotiated deals mode
- primary offering auctions (special trading sessions)

Modes:

- ▲ T+ GS (deals are settled on the second business day)
- TO GS (deals are settled on the conclusion day)

Repo transactions with GS:

- ▲ auto repo (in the basket) with CCP and without CCP
- negotiated repo with CCP and without CCP

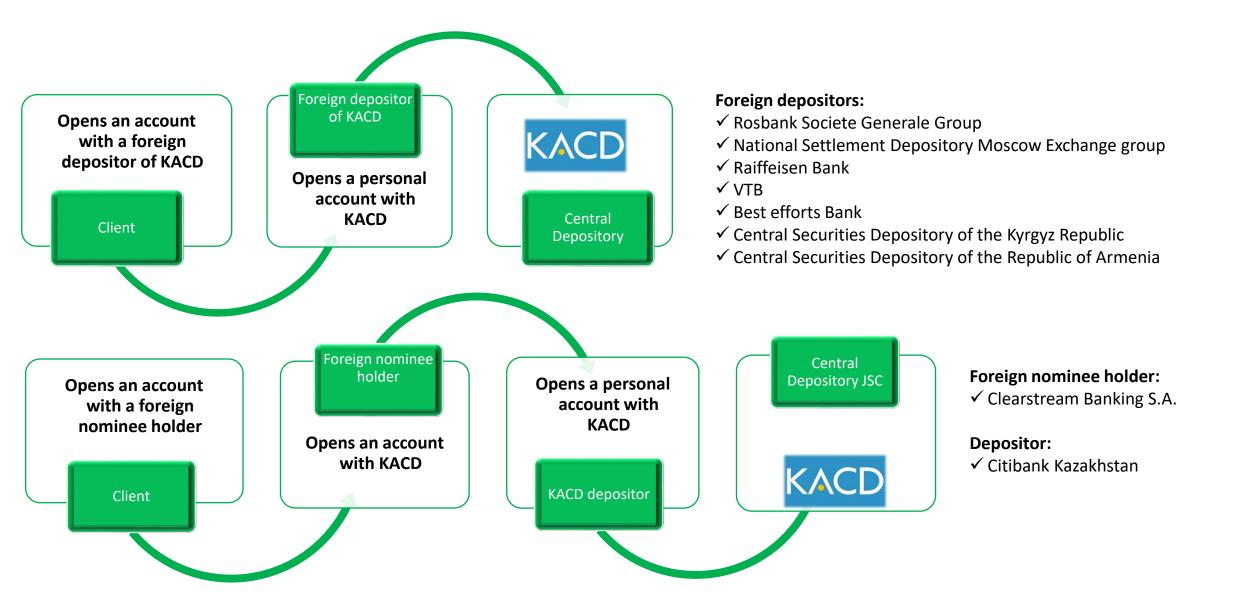
Collateral on the GS market:

In the ASTS+ trading and clearing system, there are two categories of clearing participants in the stock market, taking into account a single limit:

- ▲ with full coverage
- ▲ with partial coverage

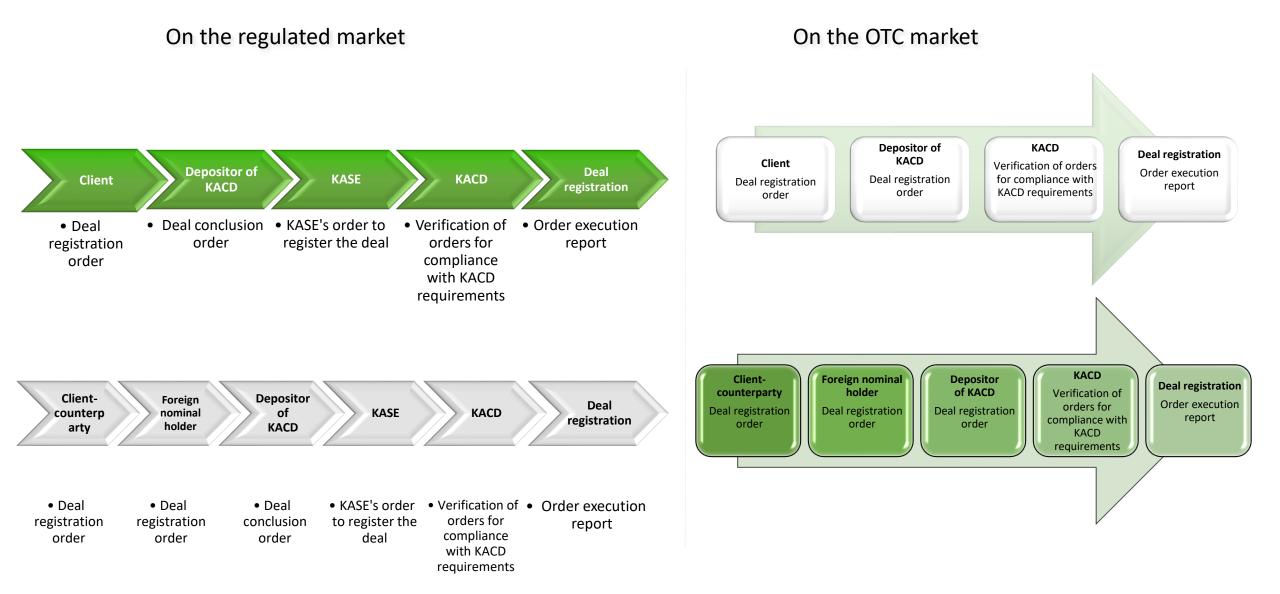
The admission of securities accepted as collateral for deals with partial collateral on the government securities market is established for securities included in **the Collateral List T+**. The current list is provided in the section of the main menu "Evaluation and Parameters", subsection "Risk parameters of financial instruments".

Access of non-residents to services of the Central Securities Depository



K

Registration of deals with GS of the Republic of Kazakhstan



K SE

Modes of settlement of deals with GS of the Republic of Kazakhstan



Market: regulated

T+0

Settlement method: gross-settlements (DVP-1)

Settlement bank: National Bank of the RK

Central Depository

Collateral: full pre-deposit of assets

Instruments: any financial instruments, except for those traded under the T+2 scheme



Market: regulated

Settlement method: net-settlements (DVP-3)

Settlement bank: Central Depository

Collateral: margin requirements

Instruments: financial instruments included in the list, on deals with which KASE carries out clearing activities



T+n

Market: regulated

Settlement method: gross-settlements (DVP-1, FOP)

Settlement bank: National Bank of the RK Central Depository

Collateral:

there is no preliminary deposit of assets (the availability of assets is checked immediately at the time of registration of the deal)

Instruments:

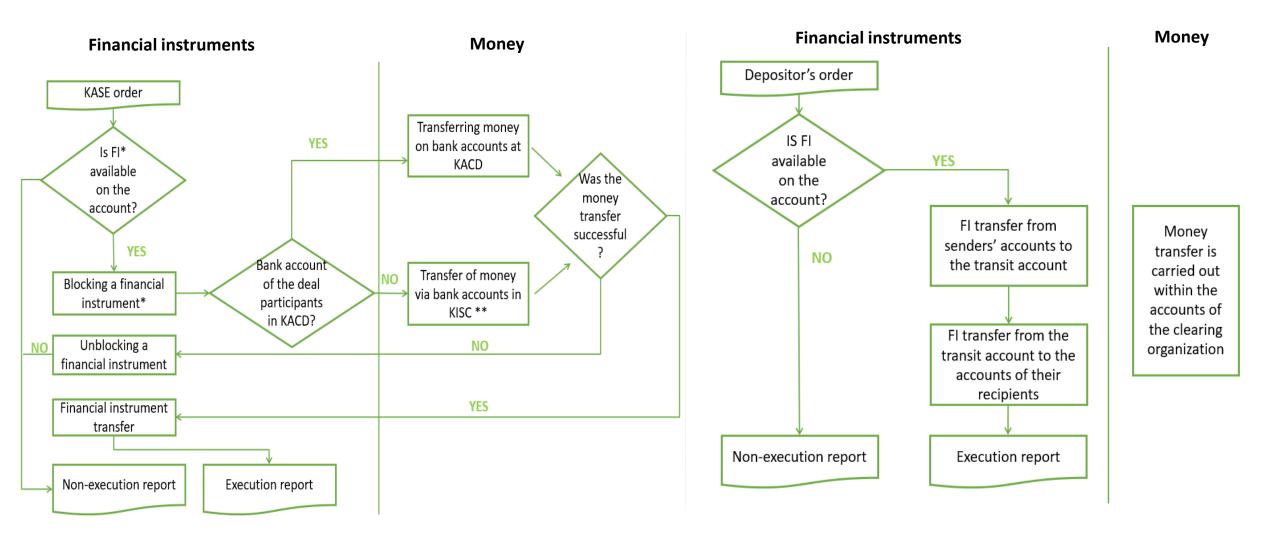
any financial instruments

Settlements in the organized market



T+0

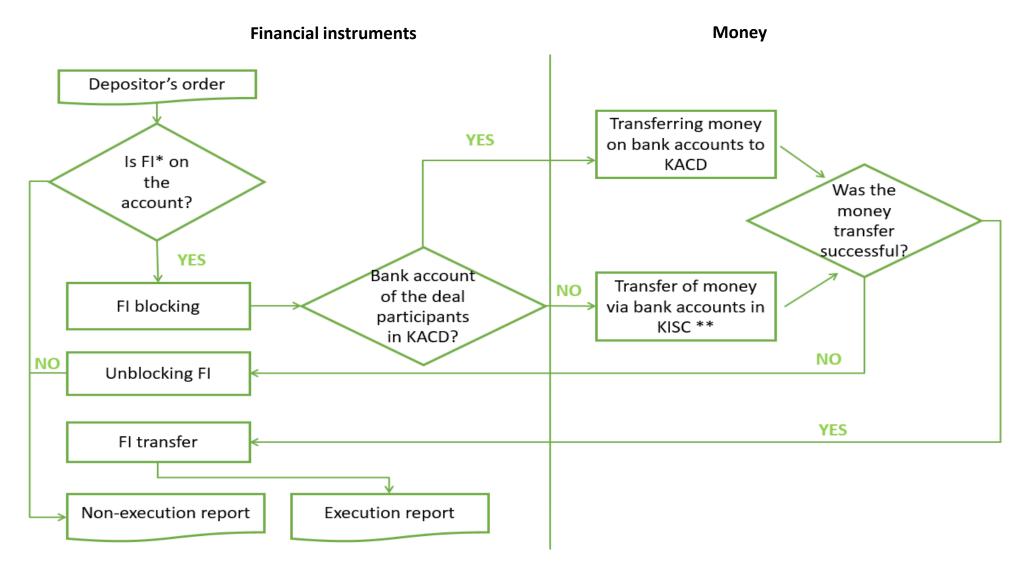
T+2



Settlements in the unorganized market

KSE

T+n (Delivery versus payment settlements)



Access of non-residents to Kazakhstan's capital markets via Clearstream (CBL)



Settlements on government securities have been carried out through the international system Clearstream (CBL) can be executed through the national central depository (local settlement) or directly between counterparties CBL (internal settlement), as well as Free of Payment (FoP delivery without payment) or Delivery versus Payment (DvP delivery versus payment). Trades are conducted with CBL approved asset class:

✓ Government bonds issued by the Ministry of Finance

MEOKAM State medium-term treasury bond;

• MEUKAM State long-term treasury obligations

- ✓ Bonds issued by the National Bank of Kazakhstan
- Short-term discounted bonds and bonds with maturities of 7, 14, 28, 91, 182, 270 or 364 days;
- o Bonds on KASE: notes of the National Bank of Kazakhstan



Thank you for attention !

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Казақстан қор биржасы Казахстанская фондовая биржа Kazakhstan Stock Exchange