



KASE indexes and indicators



As of September 01, 2022





Creates indicators and indexes



Benchmark for market participants



Administrates indicators and indexes



Calculates indicators and indexes

Types of KASE indexes

Stock market

Equity market	Corporate bond market	
KASE Index	KASE_BMC KASE_BMY	KASE_BAC KASE_BAY
Equity market benchmark (8 shares)	Main market	Alternative market
IE_FXBF - ETF traded on KASE Index		

GS Market			
GS risk-free yield curve	KZGB_CPs	KZGB_CPm	KZGB_CPl
	KZGB_DP1s	KZGB_DPm	KZGB_DPl
	KZGB_Ys	KZGB_Ym	KZGB_Yl

Money market

TONIA – risk-free rate determined by market participants within the working group for determining indicators of the foreign exchange market with the participation of second-tier banks.			
TWINA	TRION	SWAP-1D (USD)	SWAP-2D (USD)
TCI	TCR_1m	TCR_3m	TCR_6m
MM Index – weighted average profitability of the one-day currency swap transactions and TONIA			

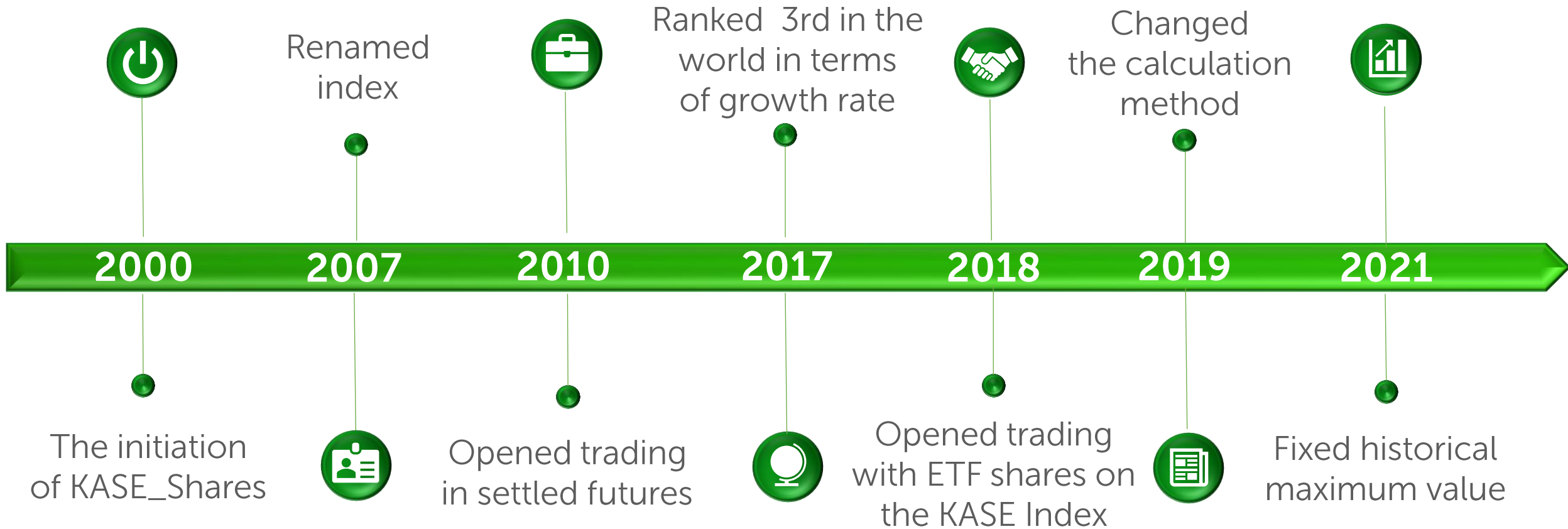


01

**Stock market
indicators**

History of KASE Index

KASE Index – index of the most liquid shares - companies of residents of the Republic of Kazakhstan



Methodology of KASE Index

KASE Index – an index of the stock market reflecting the change in the total market value of the most liquid shares of the official list of the KASE issued by the largest and financially stable resident companies of the Republic of Kazakhstan.

Conditions of inclusion in the list:

In each of 6 months the trading volume	≥ 40 mln ₸ (~ 84 K \$)
In each of 6 months the proportion of successful days	≥ 70%
In each of 6 months transactions were made	≥ 5 members of the KASE
Capitalization of the issuer	25 bn ₸ (~ \$ 53 mln)
Issuer's equity capital	>0
Positive net income	2 years
Issuer	resident of the RK

Criteria of being in the list

In each of any 4 out of 6 months the trading volume	≥ 20 mln ₸ (~ 42 K \$)
In each of any 4 out of 6 months the proportion of successful days	≥ 50%
In each of any 4 out of 6 months transactions were made	≥ 5 members of the KASE
Capitalization of the issuer	25 bn ₸ (~ \$ 53 mln)
Issuer's equity capital	>0
Positive net income	2 years
Issuer	resident of the RK

The representative list of the KASE index is reviewed once a quarter and published on the exchange's website until January 16, April 16, July 16, October 16.

The KASE index is calculated by the formula

$$\text{Index KASE} = \frac{MC_n}{D_n}, \text{ where}$$

MC_n – the total market value of the shares included in the representative list at the time of calculation of n, in tenge;

D_n – the value of the total market value of all shares of the representative list on the first day of calculation of the KASE Index, adjusted taking into account the changes in the representative list and the initial value of the KASE .

KASE Index nowadays

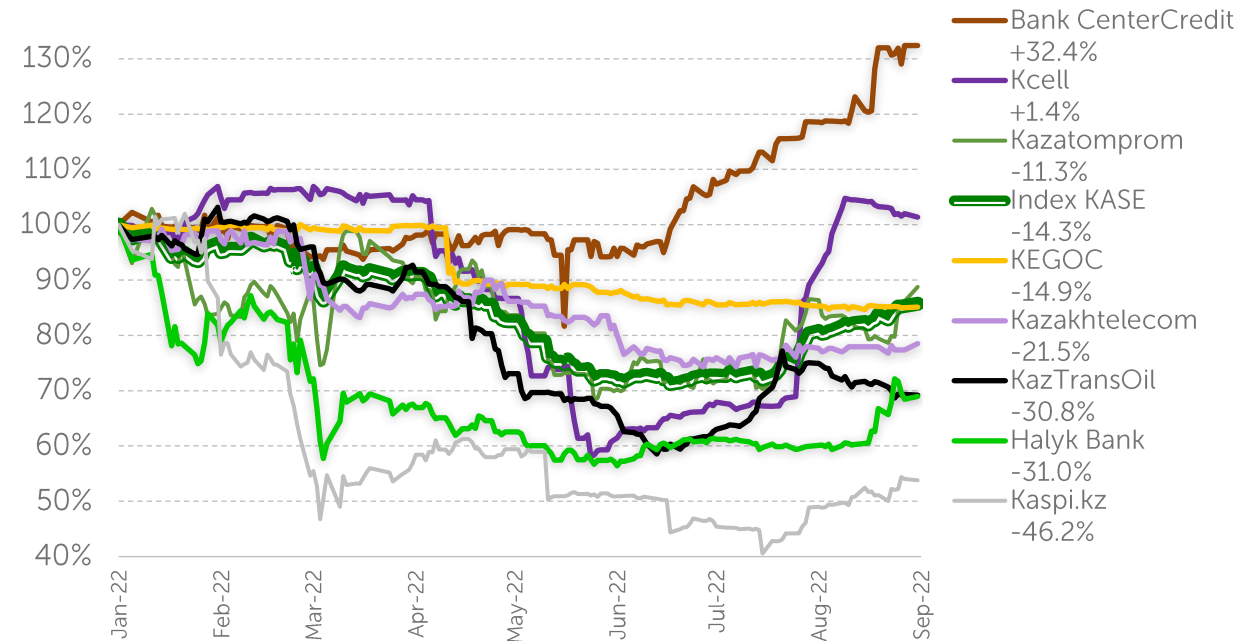


KASE Index universe

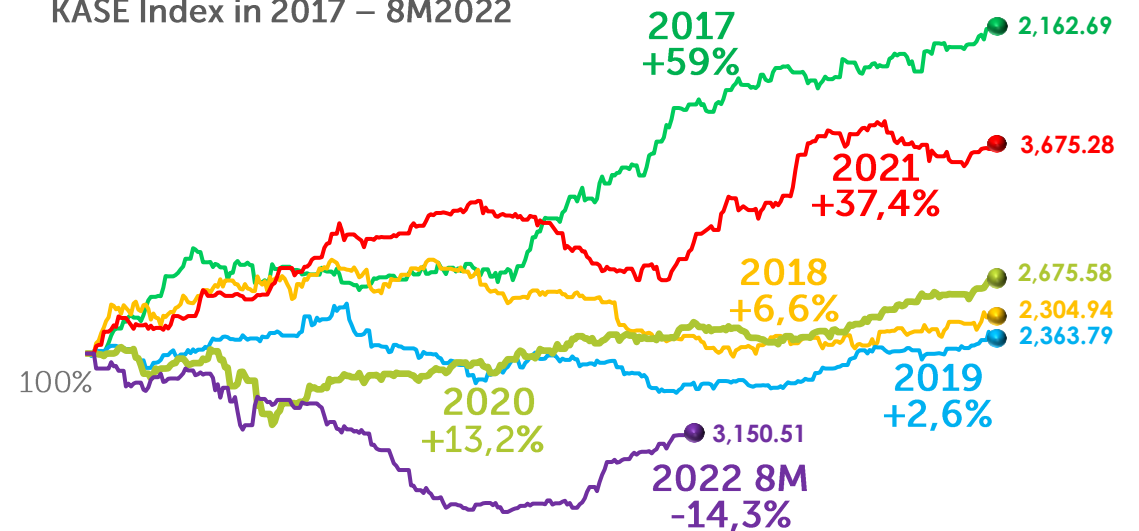
Company	Free float, %	Portion, %	Capitalization of common shares, bn ₸
Bank CenterCredit JSC	40.4	9.6	99.2
Kcell JSC	34.1	16.0	329.2
Halyk Savings Bank of Kazakhstan JSC	30.5	16.2	1,388.2
NAC Kazatomprom JSC	25.0	14.4	3,877.0
Kaspi.kz JSC	23.9	15.5	5,389.3
Kazakhtelecom JSC	16.3	11.4	290.5
KEGOC JSC	10.0	10.0	412.6
KazTransOil JSC	10.0	7.0	290.9
Total			12,076.8

From May 05, 2022, common shares of Kaspi.kz JSC have been included in the representative list of the KASE Index

Dynamics of KASE Index components



KASE Index in 2017 – 8M2022



Indicators of the corporate bond market

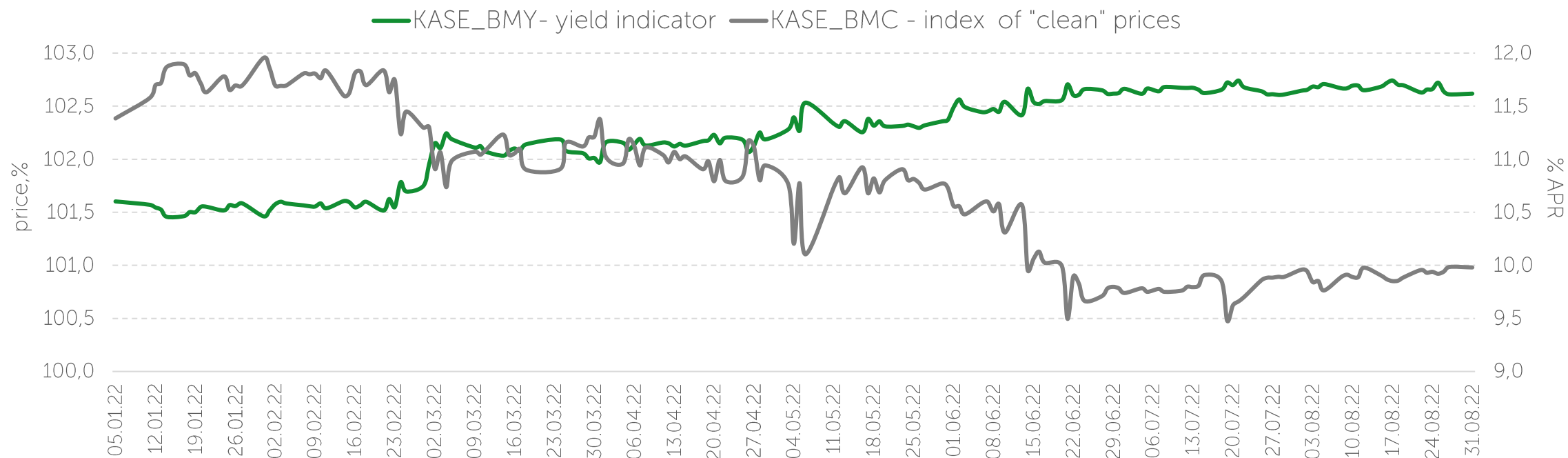


Indicators of the corporate bond market –

capitalization-weighted reflecting changes in prices and yield indicators of the most liquid bond issues of Kazakhstani companies

Indicators of the KASE_BM* and KASE_BA* series are formed according to the following criteria:

- denominated in tenge;
- non-indexed according to the change in the exchange rate of the tenge to foreign currency;
- traded at "clean prices"



Source: KASE

Government securities market (1/2)

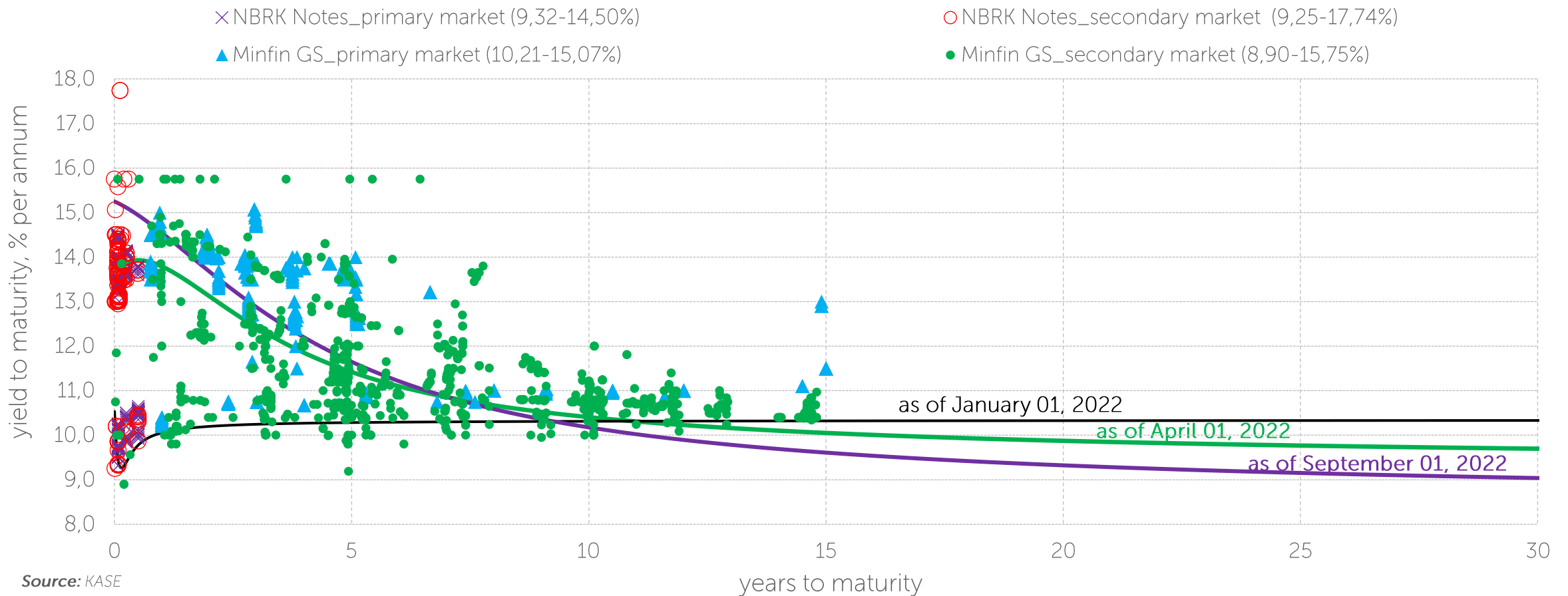


- 2011: Polynomial trend
- 2017: Changed analyze period
- 2019: Parametric Nelson Siegel model

GS yield curve – the main indicator of the financial market of Kazakhstan for evaluating bonds of various types

For the purpose of forming the GS curve, deals made on KASE are taken into account:

- transactions with GS
- special trading sessions
- transactions on offering of short-term notes of the NBRK



Source: KASE

Government securities market (2/2)

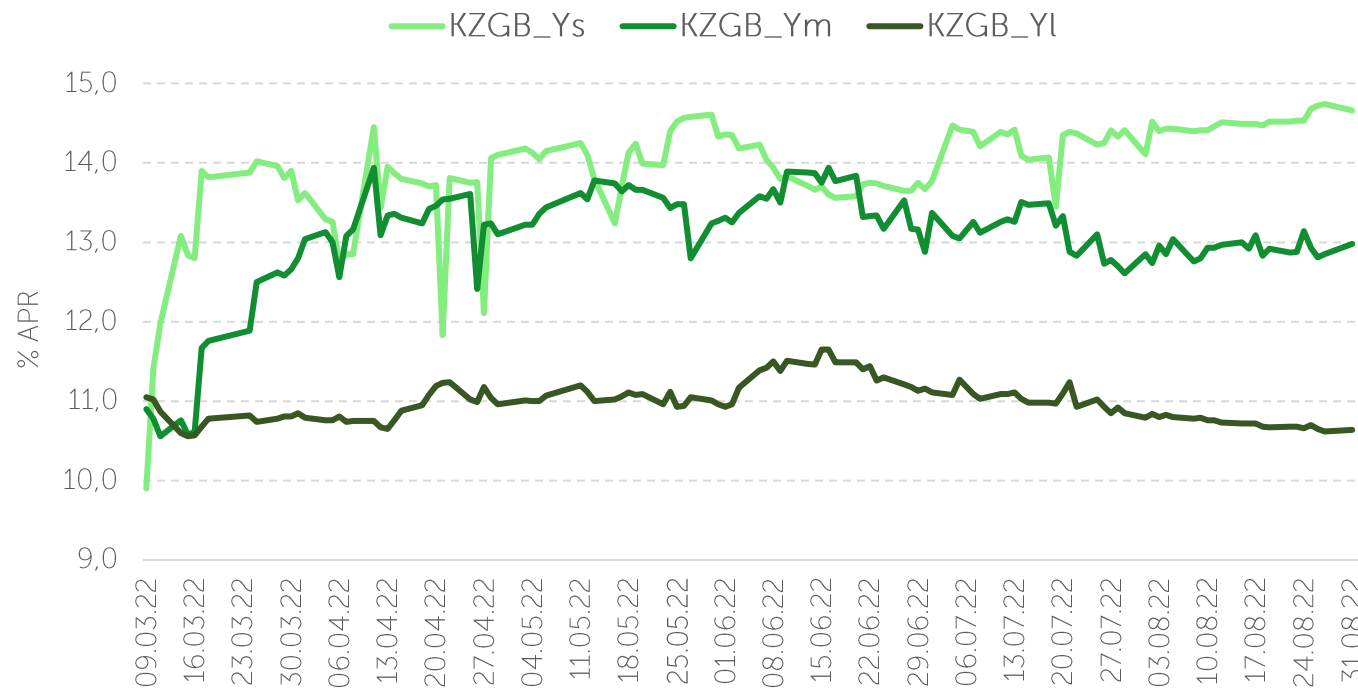
Scheduled start: 09 March 2022

GS indexes – indicators of the government securities market of the Republic of Kazakhstan are segmented by duration.

Duration	Index of "clean prices" KZGB_CP	Index of "dirty prices" KZGB_DP	Yield index KZGB_Y
up to 1 year (s)	KZGB_CPs	KZGB_DPs	KZGB_Ys
from 1 year to 5 years (m)	KZGB_CPm	KZGB_DPm	KZGB_Ym
over 5 years (l)	KZGB_CPl	KZGB_DPl	KZGB_Yl

GS indices are formed from the official list of the Exchange by the GS type according to the following criteria:

- non-indexed;
- fixed coupon;
- issued in accordance with the legislation of the Republic of Kazakhstan.



The image features a decorative background on the left side with a green and blue color scheme. It contains intricate circuit-like patterns, including lines and nodes, overlaid on a grid of semi-transparent squares. Some of these squares contain small, faint numbers. A large, stylized number '02' is positioned in the upper right quadrant of the image, rendered in a green-to-blue gradient. The right side of the image is a plain white background.

02

Money market indicators

Money market indicators(1/3)

The repo rate indicators represent the conjuncture of a dynamically developing segment and the important constitute of the Kazakhstani money market - the exchange REPO market.

Repo indicators provide participants with objective information about money market rates

New product
New financial product with floating rate



2022



2001

The initiation of TONIA

TONIA – weighted average interest rate of auto-repo deals with a GS Basket with maturity of one day



2010

The initiation of TWINA

TWINA – weighted average interest rate of auto-repo deals with a GS Basket with maturity of seven days



2020

Reformed TONIA
The initiation of TRION

TRION – weighted average interest rate of auto-repo deals with a GS Basket with maturity of one day



2021

Starting calculation of TCI,TCR

TONIA Compounded Indicators calculated every calendar day based on the last calculated value of the TONIA indicator

LIBOR cessation

Important dates:

1 st January 2022	1 st July 2023
EUR LIBOR - Overnight, 1W, 1M, 2M, 3M, 6M and 12M	Overnight and 12M USD LIBOR
CHF LIBOR - Spot Next, 1W, 1M, 2M, 3M, 6M and 12M	
JPY LIBOR - Spot Next, 1W, 2M and 12M	
GBP LIBOR - Overnight, 1W, 2M and 12M	
USD LIBOR – 1W and 2M settings	



Alternative rates to LIBOR:

Administrator	Indices
Federal Reserve Bank of New York	SOFR
Bank of Japan	TONA
Bank of England	SONIA
European Central Bank	€STR
Kazakhstan Stock Exchange	TONIA



The top and the bottom 5 % of the traded volumes are detected as outliers and removed from the observations;

1. The volume of each transaction ≥ 1 mln KZT;
2. The total volume of the eligible transactions \geq KZT 100 bn.

TONIA is calculated by the formula :

$$\text{TONIA} = \frac{\sum_{i=1}^n (V_i \times Y_i)}{\sum_{i=1}^n V_i}, \text{ where}$$

Y_i - the umpteenth interest rate;

V_i - the volume corresponding to the rate Y_i ;

n - the number of transactions.

Methodology of TONIA

If volume of the eligible transactions does not meet the condition, TONIA is defined as the level of the NBRK Refinancing Rate plus the mean of the spread of the Benchmark to the Refinancing Rate over the previous five publication days.

Formula is:

$$\text{TONIA} = \text{BRate}_d + \frac{\sum_{i=1}^5 (\text{TONIA}_i - \text{BRate}_i)}{5}, \text{ where}$$

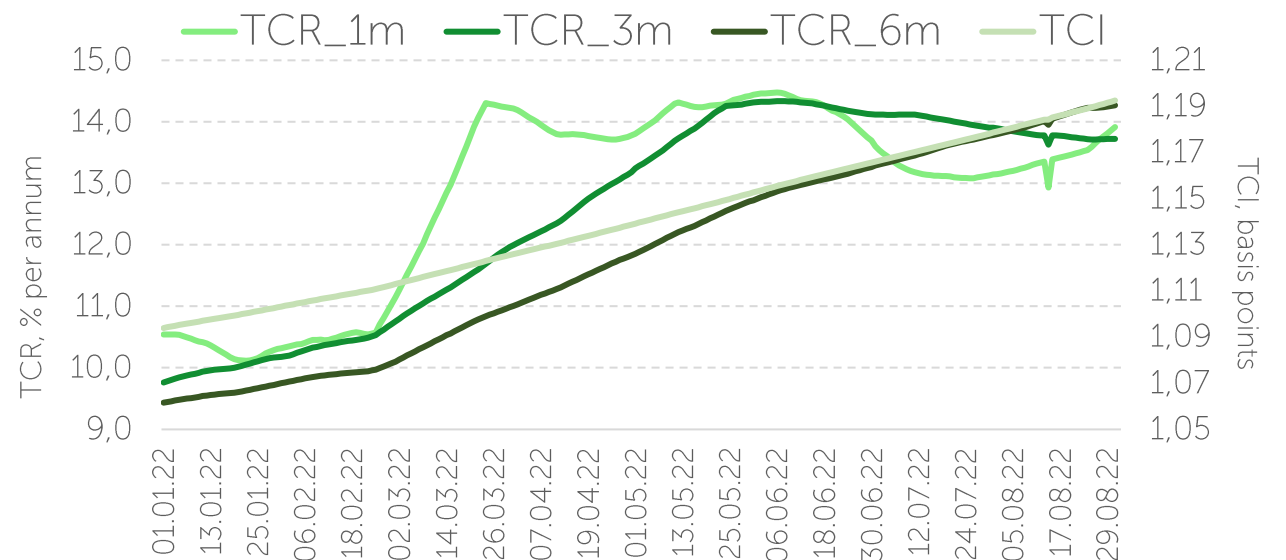
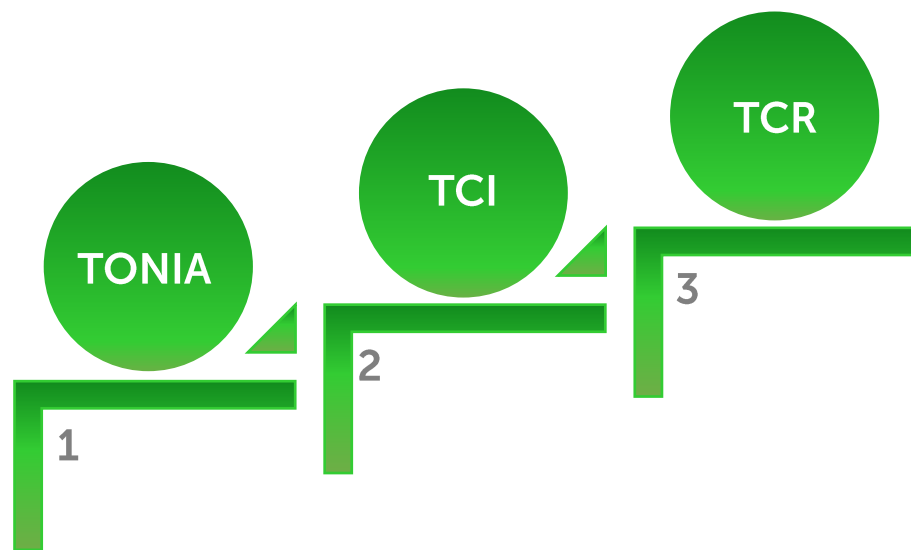
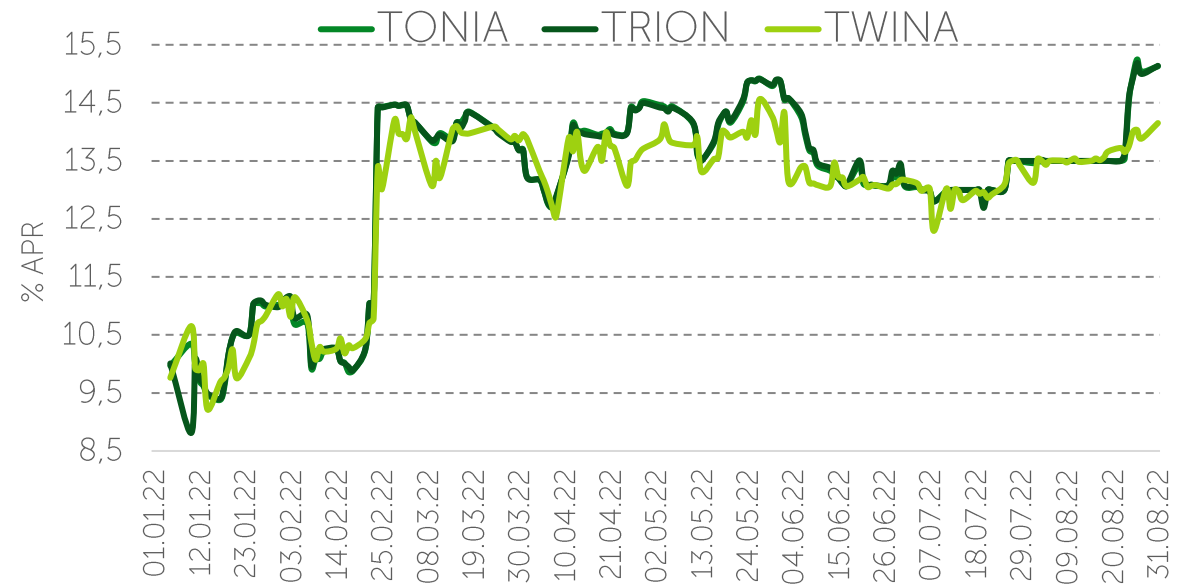
BRate – the Refinancing Rate effective on the day of TONIA calculation;

TONIA_i – the value of the TONIA indicator for each of the five trading days of the KASE preceding the settlement date.

Money market indicators(2/3)

TONIA VS TONIA Compounded

	TONIA	TCI
Calculation base	repo transactions with the GS Basket for one day	TONIA
How you can use	as the reference rate in calculating the interest in a variable rate agreement	as the tool to create new financial products
Update time	on business days	daily



New product



Started the calculation and publication of the TCI

Ministry of Finance of the Republic of Kazakhstan

Trading code: **MTM036_0001**
Issue volume: **50,0 bn KZT**
Maturity date: **05.08.25**



European Bank
for Reconstruction and Development

Trading code: **EBRDe14**
Issue volume: **12,5 bn KZT**
Maturity date: **11.11.24**



Trading code: **TMJLb10**
Issue volume: **150,0 bn KZT**
Maturity date: **22.07.24**

Money market indicators(3/3)

Start date: 09 June,2014

SWAP1D

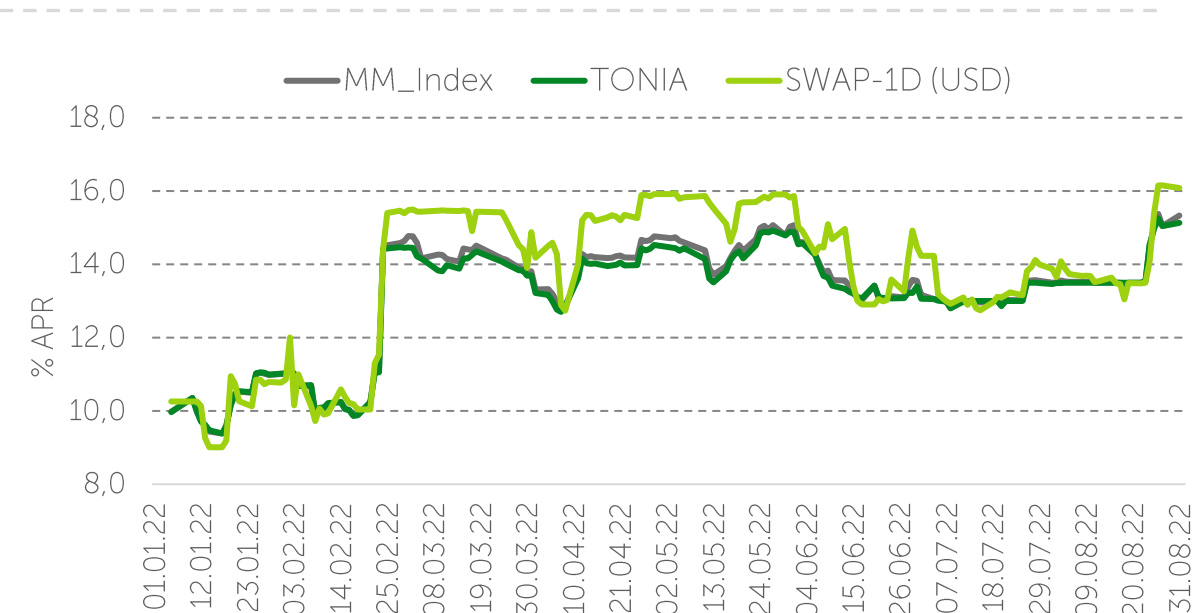
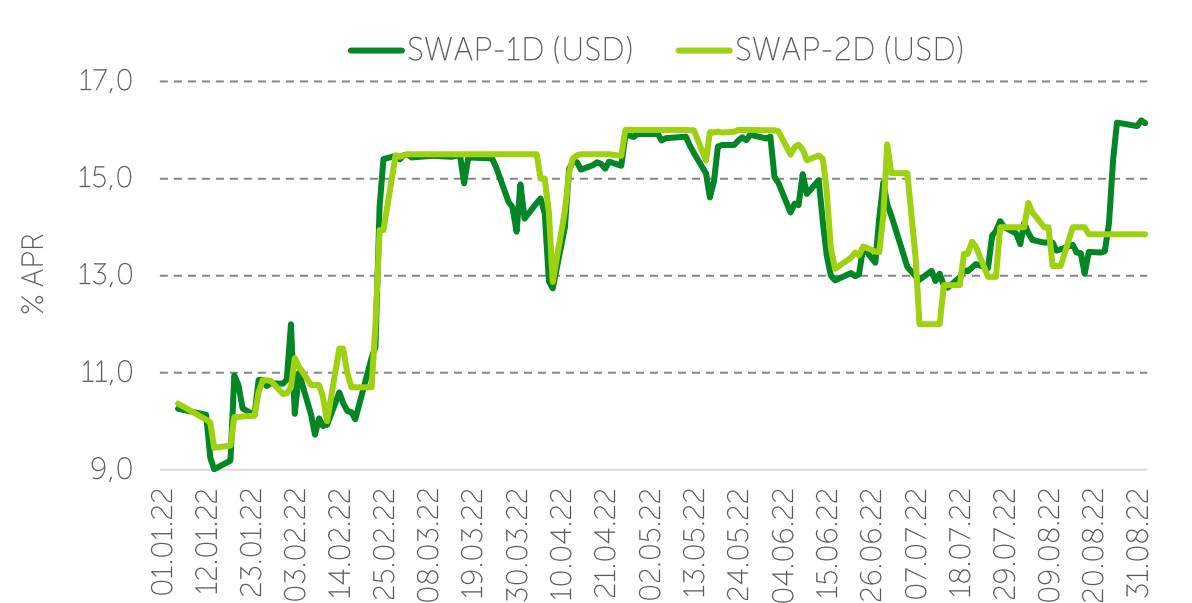
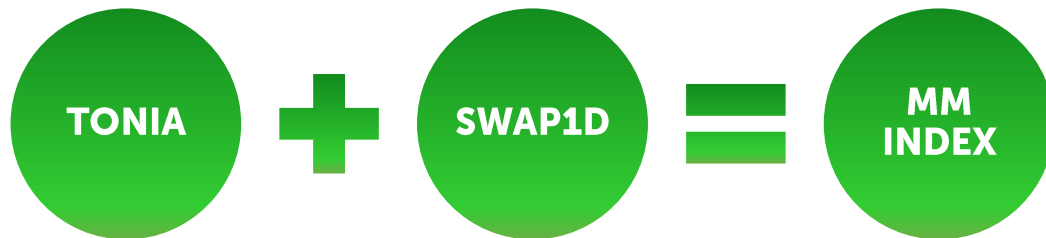
one business day currency swap yield indicator

SWAP2D

Yield indicator of the two business days currency swap

Money Market Index (MM Index)

Money market composite index



Thank You!

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