

MOEX'S GLOBAL BUSINESS OVERVIEW



01MOEX makes
Russian assets

easily available

to international

investors

1000+
INTERNATIONAL
INVESTORS

~5000

LOCAL

INSTRUMENTS

MOEX MARKET ACCESS SERVICES:

- 17 hours of daily trading on all markets
- ICM reduces credit risk of local intermediaries
- SMA for low latency trading with minimal operational risk
- Best in class connectivity solutions for HFT & algo traders
- Opening and closing auctions

FX MARKET

- 40%: share of international investors on spot via CLOB, speed bump, RFS modes
- Largest liquidity pool for RUB pairs
- Top 5 global FX platform according to Euromoney survey

DERIVATIVES MARKET

- 48%: share of international investors
- Top 7 global derivatives platform
- · Global liquidity providers work as market makers

EQUITIES AND FIXED INCOME MARKET

- 48%: share of international investors in equities
- 5% share of closing auction on equities market as a proxy for global funds
- 14%: share of international investors in bonds

MONEY MARKET

- 8%: share of international investors
- Wide range of instruments for on-exchange repo and SLB in different currencies

02

MOEX has a proven track record in onboarding international instruments and growing trading activity 13+ MLN RUSSIAN INVESTORS

~1000 GLOBAL INSTRUMENTS **FX MARKET**

- Trading links to non-RUB FX liquidity pools available since December 2018
- 17 currency pairs, including RUB and non-RUB pairs with USD, EUR, CNY, HKD, GBP, CHF and other currencies

DERIVATIVES MARKET

- Major global benchmarks make up some 30% of trading volumes: Brent oil (ICE benchmark), SPDR S&P 500 ETF Trust, Light Sweet Crude Oil (CME), gold (LBMA Gold Price), non-ferrous metals (LME)
- · Single-stock derivatives on Baidu, Alibaba, Deutsche Bank, BMW, Daimler, Siemens and Volkswagen

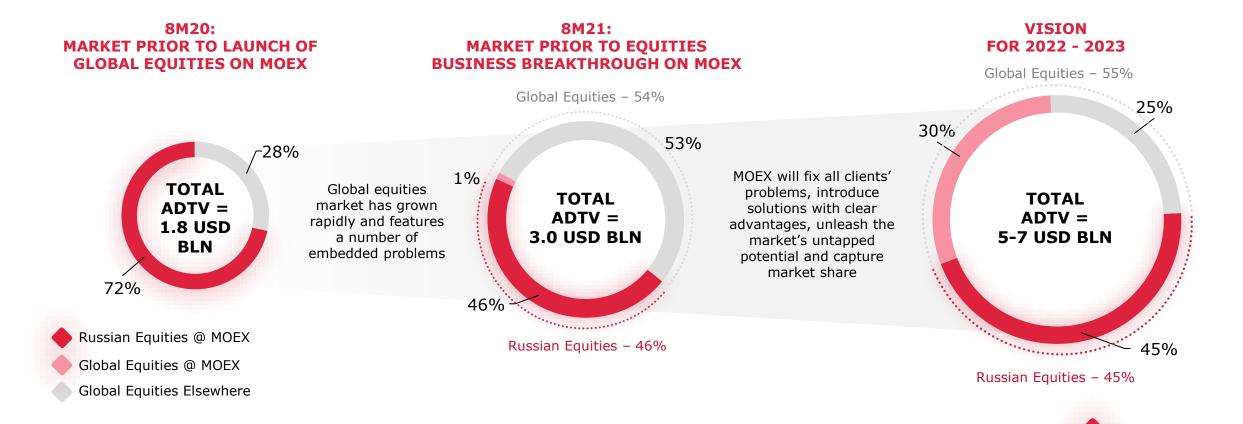
EQUITIES AND FIXED INCOME MARKET

- 281 Top global equities via nearly 60 brokers, including leading ones
- 59 Russian-law and Foreign-law ETFs on global benchmarks (e.g. S&P 500)
- 100 Eurobonds with a steady growth in ADTV and the share in overall Fixed Income Market volumes

MONEY MARKET

- \cdot Repo with Eurobonds and global fixed income instruments
- Repo with global equities

OUTLOOK FOR EQUITIES TRADING IN RUSSIA



GLOBAL EQUITIES TRIGGER
ACTIVITY in associated ETFs,
derivatives, repo, custody
business lines and indexes

02

The breakthrough in global equities' trading will enable MOEX to BUILD AN ECOSYSTEM OF GLOBAL ASSET CLASSES...

03

...Facilitating the emergence of a RICH ASSORTMENT OF TRADING STRATEGIES across multiple asset classes 04

Thus, GLOBAL EQUITIES CREATE
A SYNERGISTIC EFFECT for
MOEX's global business

PROBLEMS AT OTHER LOCAL TRADING VENUES

TECHNOLOGICAL FIXES AND ADVANTAGES OF MOEX SOLUTIONS

NARROW CIRCLE OF LIQUIDITY PROVIDERS, **MOSTLY ASSOCIATED** WITH THE VENUE

Wide range of WORLD-**CLASS LIQUIDITY PROVIDERS** - including HFTs - with level playing field of business opportunities

ELIMINATED **OPERATIONAL RISK** exposure to external liquidity access infrastructure borne by market participants

Modified pre-order collateral controls **MINIMIZE OPPORTUNITY COST** for liquidity providers

The setup ensures BEST PRICES AND SPREADS amid high volumes on a consistent basis

TECHNOLOGICAL FIXES AND ADVANTAGES OF MOEX SOLUTIONS

1 NARROW CIRCLE OF LIQUIDITY PROVIDERS, MOSTLY ASSOCIATED WITH THE VENUE



LIQUIDITY SPLIT ACROSS
TWO SEPARATE POOLS:
ONSHORE AND OFFSHORE

ONE LIQUIDITY POOL with 3 different types of market participants: liquidity providers, market makers, end clients

ALL CATEGORIES of domestic and foreign clients such as retail, funds, banks, brokers and other institutions

...TO UNLEASH THE UNTAPPED POTENTIAL

YKEIKADE

PROBLEMS AT OTHER LOCAL TRADING VENUES

TECHNOLOGICAL FIXES AND ADVANTAGES OF MOEX SOLUTIONS

NARROW CIRCLE OF LIQUIDITY PROVIDERS, MOSTLY ASSOCIATED WITH THE VENUE

LIOUIDITY SPLIT ACROSS TWO SEPARATE POOLS: ONSHORE AND OFFSHORE



MARKET MICROSTRUCTURE **INCOMPATIBLE WITH THE PRINCIPLE OF BEST EXECUTION:**

 Shuffled sequence and priority of orders

- Cancelled trades, lost orders
- Systematically volatile start of the main session
- Non-transparent status of order execution

MOEX algorithm rests upon BEST EXECUTION principle with correct order sequence regardless of liquidity type

Advanced, ultra LOW-LATENCY INFRASTRUCTURE of top HFTs will use quote-back option in less than 3% of instances

UNIQUE LINKS TECHNOLOGY with pre-match and quote-back features ensures that order stays until executed

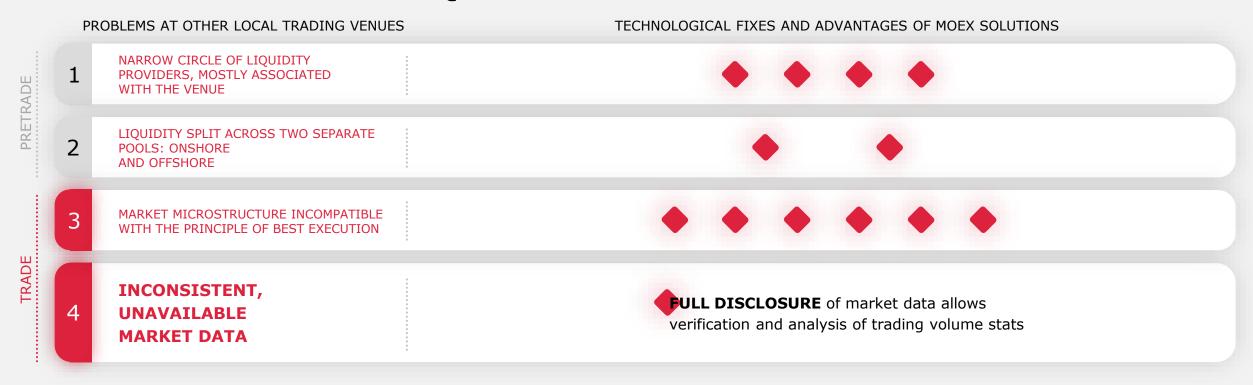
OPENING AUCTION stabilizes the start of the main session via liquidity accumulation

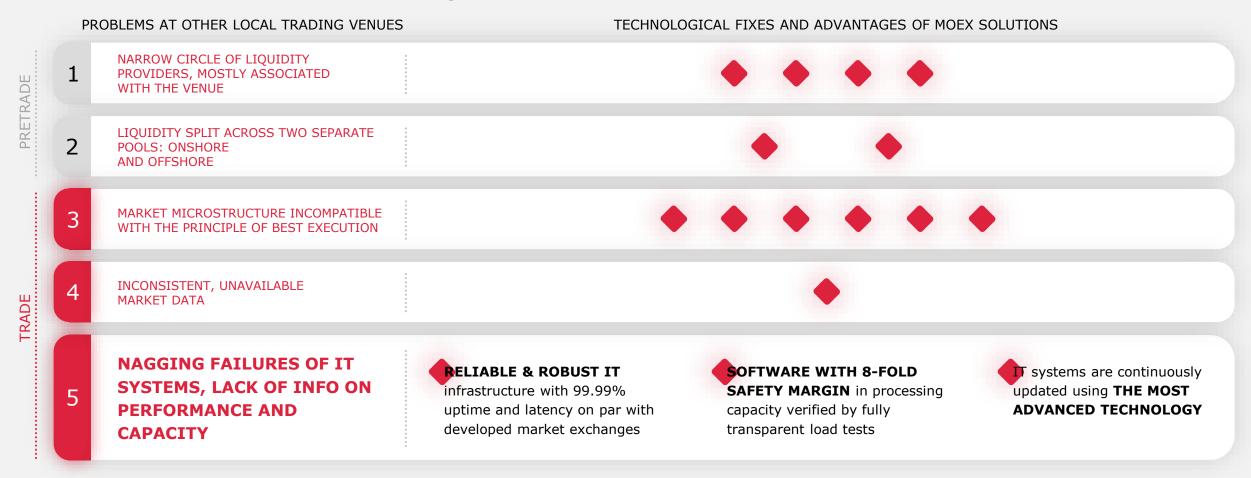
Trade cancellation is completely ruled out, PROTECTING THE END **CLIENT** financially and reducing market risk

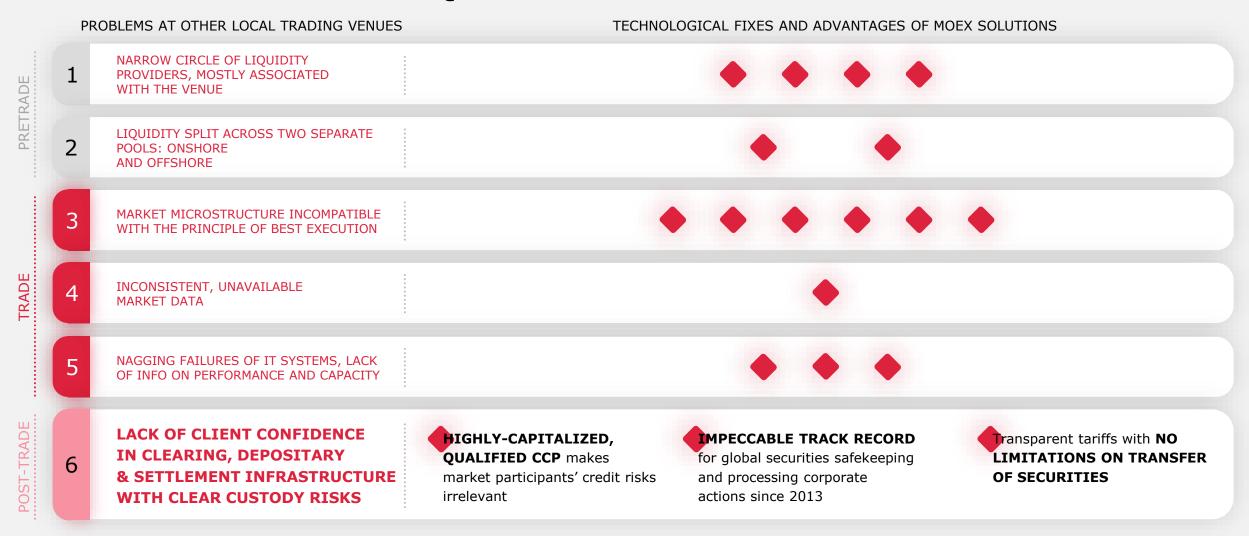
Front-end IT solutions that allow for TRANSPARENCY OF ORDER EXECUTION status

...TO UNLEASH THE UNTAPPED POTENTIAL

PRETRADE







	PR	OBLEMS AT OTHER LOCAL TRADING VENUE	UES TECHNOLOGICAL FIXES AND ADVANTAGES OF MOEX SOLUTIONS		
PRETRADE	1	NARROW CIRCLE OF LIQUIDITY PROVIDERS, MOSTLY ASSOCIATED WITH THE VENUE			
PRETI	2	LIQUIDITY SPLIT ACROSS TWO SEPARATE POOLS: ONSHORE AND OFFSHORE			
	3	MARKET MICROSTRUCTURE INCOMPATIBLE WITH THE PRINCIPLE OF BEST EXECUTION			
TRADE	4	INCONSISTENT, UNAVAILABLE MARKET DATA			
	5	NAGGING FAILURES OF IT SYSTEMS, LACK OF INFO ON PERFORMANCE AND CAPACITY			
POST-TRADE	6	LACK OF CLIENT CONFIDENCE IN CLEARING, DEPOSITARY & SETTLEMENT INFRASTRUCTURE WITH CLEAR CUSTODY RISKS			
	7	TAX CLAIMS, EXCESSIVE TAXATION AND COMPLIANCE RISKS	to IRS, no intermediaries administration for the convenience of end clients TRS-VERIFIED FATCA COMPLIANCE on the Group level; Qualified Intermediary status for NCC and NSD		

NEAR-TERM PRODUCT AND SERVICE DELIVERIES IN GLOBAL EQUITIES

2021



RUB and USD order books with market-makers cater to all client categories



Accelerated onboarding of global equities at a pace of ~200 per month



Automated administration of W-8BEN tax forms for the convenience of clients



Fully functional repo upon obtaining QDD status



Early hours trading (from 6:50 to 10:00) to align with Asian markets



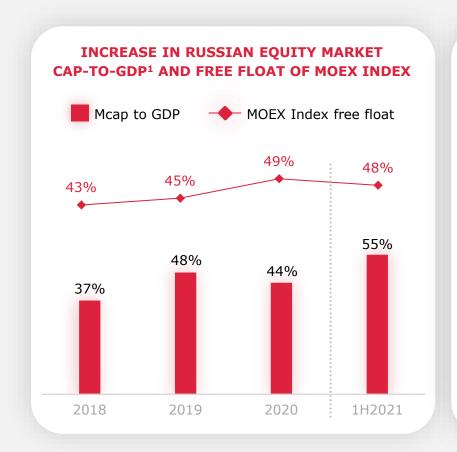
Innovative links with global liquidity providers

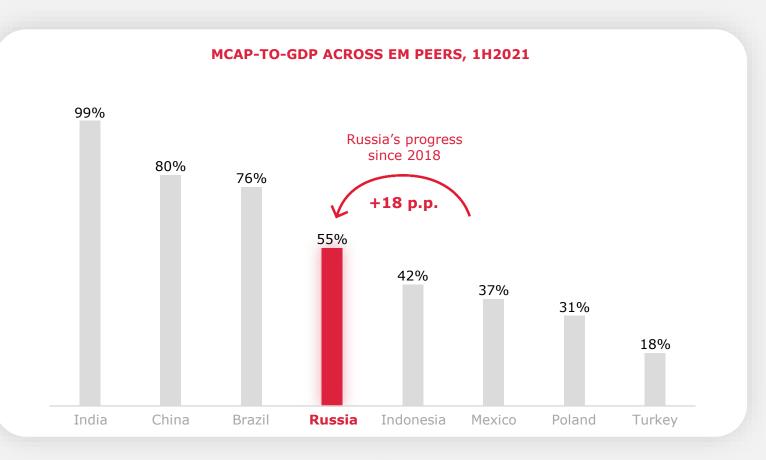


RUSSIAN EQUITY MARKET DEVELOPMENT AS A PROXY



GLOBAL EQUITIES ARE AN ESSENTIAL PART OF THE SURGING RUSSIAN EQUITY MARKET





of Mcap to GDP growth is thanks to new names which came via IPOs and secondary listings on MOEX (total market cap of 6%)

~50%

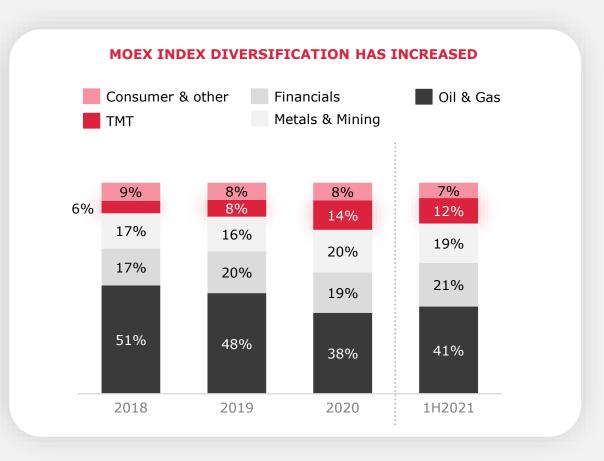
New listings, IPOs, SPOs significantly contributed to free float growth to ~50%



Therefore, market activity helped propel the Russian market towards BRIC peers on MCap/GDP scale

RUSSIAN EQUITY MARKET: NEW QUALITY NAMES ARE COMING TO MARKET AND MEETING THE DEMAND





Listings of Russian companies incorporated abroad accelerated in 2020 with 17 total names listed



In 2020-2021, the value of IPOs reached RUB 317 bln, SPOs - RUB 197 bln, combining for an equivalent of some USD 7 bln in new equity capital

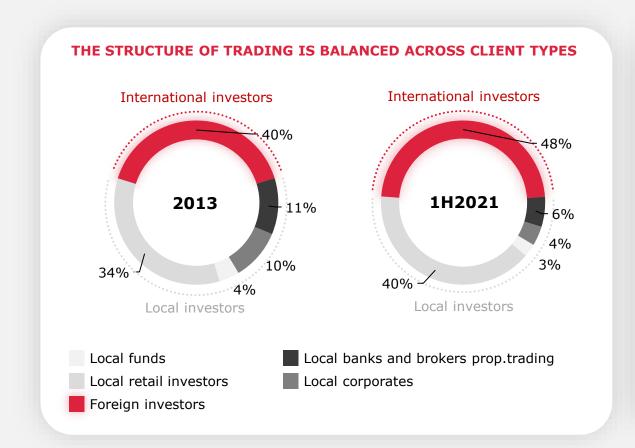
The weight of nonresource names in the MOEX Index increased from 32% at end-FY18 to 40% by end-1H21, while the weight of TMT doubled

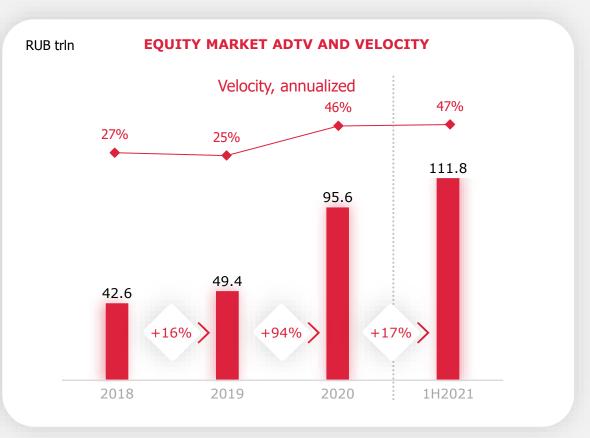
> 10% issuers trading on

Of 220 Russian equity MOEX today, ~10% listed in the last 5 years; their ADTV is 6% of total in 1H21

There's an IPO/SPO pipeline of another 10 names in the near-term

MOEX EQUITY MARKET HAS ALL INVESTOR TYPES, GROWING ADTV AND VELOCITY





RETAIL CLIENTS AND LARGEST INTERNATIONAL FUNDS TRADE

on MOEX equity market through Russian and all leading global banks and brokers

MOEX INFRASTRUCTURE CATERS TO ALL CLIENT TYPES.

This balanced market structure supports growth of Equity market's ADTV and velocity

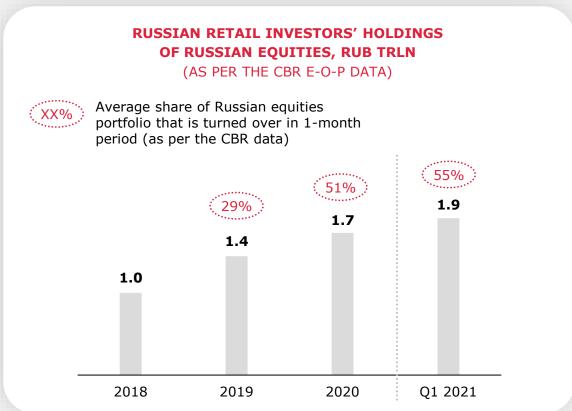
80%

MOEX has a central position in Russian equities pricing and liquidity with a market share vs LSE exceeding 80%



EQUITY INVESTOR BASE CONTINUES TO GROW AND RETAIL EXHIBITS RATIONAL INVESTMENT BEHAVIOR





2 months

An average retail investor fully turns her/his portfolio over approximately every two months



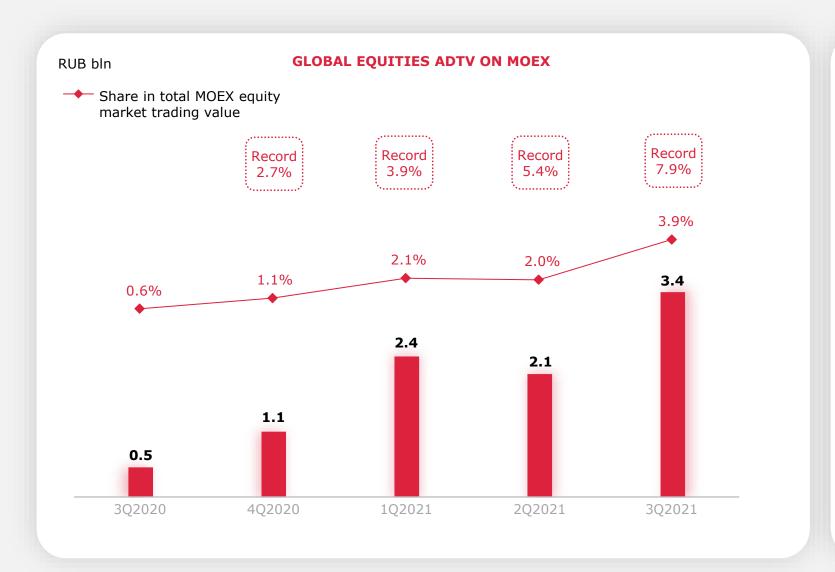
Thus, retail investors in Russian equities exhibit rational investment behavior as opposed to gambling/gaming, which is positive for longevity

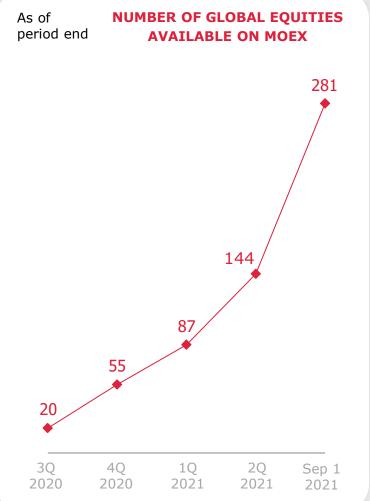


GLOBAL EQUITIES ON MOEX: CURRENT STATUS AND PLANS



THE YEAR OF GLOBAL EQUITIES ON MOEX: TRADING ACCELERATES FOLLOWING UNIVERSE BROADENING



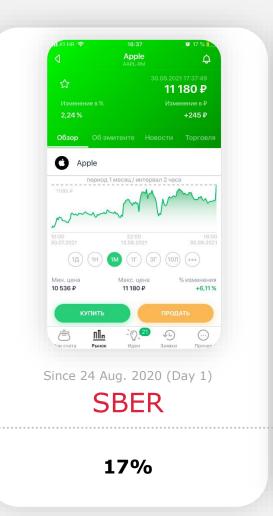


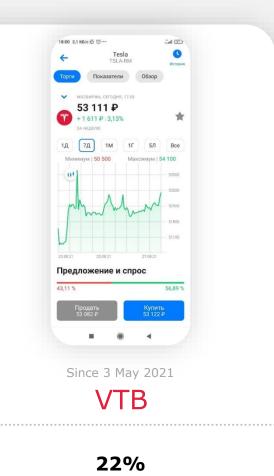
TOP BROKERS PROVIDE ACCESS TO GLOBAL EQUITIES AT MOEX, INCLUDING VIA MOBILE APPS

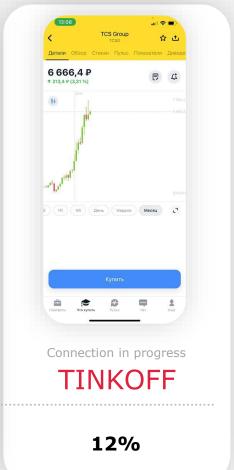


TOP 3

THE SHARE IN TOTAL EQUITY TRADING VOLUMES BY RETAIL







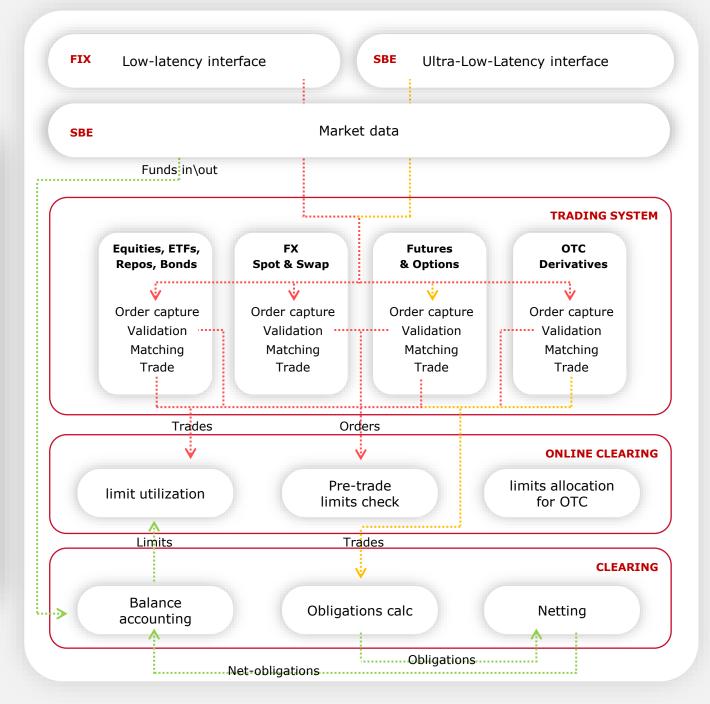
51% of total equity trading volumes by retail

EQUITIES TRADING INFRASTRUCTURE



WORLD-CLASS IT INFRASTRUCTURE (1/2)

MARKETS WE OPERATE FEATURE: 110 MLN INDEX of processed orders a day produce 200,000 transactions per second that result in RUB 3.8 TRN ADTV across all MOEX markets and an equivalent of 9x Russia's GDP in annual trading volumes



WORLD-CLASS IT INFRASTRUCTURE (2/2)



01

VAST TECH EXPERTISE:

all-electronic trading since 1997 with quarterly updates that utilize the **most** advanced technologies to improve latency, reliability, throughput and provide FIFO order processing

02

STATE-OF-THE ART IT:

systems on all markets have undergone complete rebuilds over the last 5 years or less; Modern IT architecture installed in 2016 makes all key systems run independently

03

IMPECCABLE RELIABILITY

of IT infrastructure with 99.99% uptime of trading systems; Software processing capacity features 8-fold safety margin 04

LATENCY ON PAR WITH TOP-5 DM EXCHANGES

despite a unique set of embedded pre-order risk checks; on track for further latency improvement in trading to ~100 microseconds

05

TECHNOLOGICAL TRANSPARENCY

with major IT decisions taken in cooperation with market participants

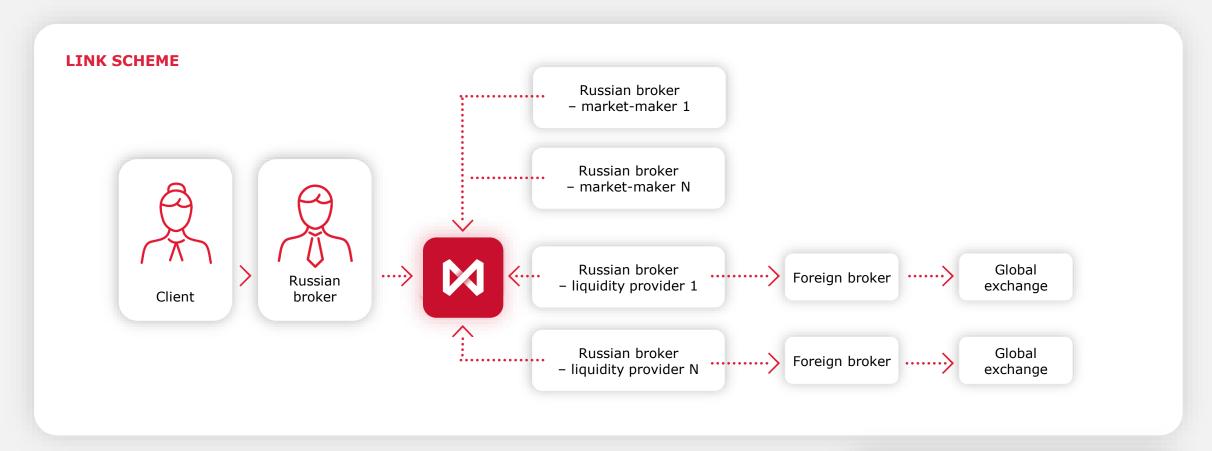
06

WORLD-CLASS CYBER SECURITY

and business continuity certified under ISO 27001, 22301



PLANS: LINKS WITH GLOBAL EXCHANGES



2 TYPES OF PARTICIPANTS:

market makers and liquidity providers

LIQUIDITY PROVIDERS -

largest Russian brokers with specific requirements

FOREIGN BROKERS -

largest HFTs



WORLD-CLASS COMPLIANCE IS MANDATORY FOR GLOBAL EQUITIES TRADING



MOEX HAS ALL ESSENTIAL COMPLIANCE CONTROLS AND SYSTEMS IN PLACE FOR GLOBAL SECURITIES TRADING

MILESTONES		SPECIFIC IMPACT	DELIVERY YEAR	
1	AUTOMATION AND IMPROVEMENT OF COMPLIANCE RISK MANAGEMENT	Preventing various types of risk for MOEX and all trading clients (anticorruption, regulatory, tax, sanctions, and unfair business practices)	2020-2021	
2	AI SYSTEM TO PREVENT INSIDER TRADING AND MARKET MANIPULATION	Monitoring of trading members using artificial intelligence – fully scalable technology for proactive behavioral control rather than identification of actual incidents.	2021	
3	BEST PRACTICES IN COMPLIANCE UNDER ISO 37301:2021 (PREVIOUS ISO 19600)	Securing reputation and trust of clients and other related parties, especially global ones. Building compliance beyond internal risk management, i.e.: to support counterparties, create business opportunities and ensure continuous improvement.	2021	
4	FATCA / QI TARGET STRUCTURE FOR THE GROUP	Optimizing client interaction for FATCA identification purposes, providing single point of contact to all MOEX Group companies.	2021	
5	AUTOMATION OF FATCA / QI PROCESSES	Minimizing client risks by automation of tax withholding and reporting to IRS (US tax authority) for all international securities.	2021-2022	



For example, several years ago two large US-listed companies operating in Russia received total fines of more than USD 1.6 bln for non-compliance with FCPA rules related to corruption cases in Uzbekistan.

FATCA AND QI COMPLIANCE

01

NSD has an impeccable track record since 2013 when QI status was obtained. NSD successfully completed Certification of effective internal controls in 2018 year with the IRS.

02

MOEX member FFIs constitute FATCA Consolidated Compliance Group (FATCA CCG) and QI Consolidated Compliance Group (QI CCG) to ensure effective compliance with FATCA and US tax requirements.

03

Formation of CCG is fully in line with US regulations and IRS requirements. This structure facilitates development and maintenance of common standards and methodology, information sharing between member FFIs and elimination of process duplication.

04

MOEX is the only group in Russia whose members are QIs with primary withholding responsibility. NCC and NSD withhold and pay US tax by themselves. The benefits of such approach are: faster processing and disclosure procedure, elimination of risks related to miscalculation of taxes/breakdown, different treatment of certain payments, etc.

05

NSD processes U.S. withholdable payments amounting to hundreds of USD mln per annum; this amount grows every year.

06

In 2021, NSD successfully passed independent QI review by a British consulting firm. The result of the review is compliant status, eligible for the certification of effective control to be completed by the end of the year. On 1 Aug 2021, NSD launched a marketing period with free acceptance of W-8BEN forms*. Starting 27 Sep 2021, NSD is launching a service for automated analysis and acceptance of W-8BEN forms.

FATCA CCG

MOEX

- Member FFI
- FATCA Status: Participating Foreign Financial Institution
- Ch3 Status: Non-qualified Intermediary

QI CCG

NSD

- Lead FI for FATCA, Compliance FI for FATCA CCG
- Compliance FI for QI CCG
- FATCA Status: Participating FFI
- · Ch3 Status: Qualified Intermediary

NCC

- Member FFI
- FATCA Status: Participating FFICh3 Status: Qualified Intermediary

GLOSSARY:



PARTICIPATING FOREIGN FINANCIAL INSTITUTION (FFI) – FATCA compliant FFI in non-IGA jurisdiction that has joined FATCA by signing FFI agreements with the IRS

QUALIFIED INTERMEDIARY

(QI) – non-US intermediary that has entered into a qualified intermediary withholding agreement with the IRS and gained permission to withhold and pay US tax to the IRS.

* - marketing period will be closed on 31 January 2022, accepted form is valid for 3 years

KEY ASPIRATIONS



KEY ASPIRATIONS IN GLOBAL EQUITY BUSINESS

Global equities traded

2500+

from all major jurisdictions



Global equities' direct contribution to MOEX F&C income

5-7%

+ synergies with other business lines





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- -perception of market services offered by the Company and its subsidiaries:
- -volatility (a) of the Russian economy and the securities market and (b) sectors with a high level of competition that the Company and its subsidiaries operate;
- -changes in (a) domestic and international legislation and tax regulation and (b) state policies related to financial markets and securities markets;
- -competition increase from new players on the Russian market;
- -the ability to keep pace with rapid changes in science and technology environment, including the ability to use advanced features that are popular with the Company's and its subsidiaries' customers;
- -the ability to maintain continuity of the process of introduction of new competitive products and services, while keeping the competitiveness;
- -the ability to attract new customers on the domestic market and in foreign jurisdictions;
- -the ability to increase the offer of products in foreign jurisdictions.
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