

July 2018

Investor presentation

# **History of MOEX**

1992 Moscow Interbank Currency Exchange (MICEX) established 1997
National Settlement
Depository (NSD)
established

2006
National Clearing
Centre (NCC)
established

2012
Launch of Central
Securities Depository
(CSD)

2013 **The Central Bank of Russia** becomes mega-regulator of financial markets

Currency  $\rightarrow$  Government securities  $\rightarrow$  REPO  $\rightarrow$  Corporate securities  $\rightarrow$  Derivatives



 $\rightarrow$  Commodities  $\rightarrow$  ...

1995
Russian Trading
System (RTS)
established

1997 MICEX Index launched 2011
Merger of MICEX and RTS

- Moscow Exchange
(MOEX) established

2013 **IPO** of Moscow Exchange (MOEX) 2013 & onwards
Persistent
development of
financial infrastructure



Operates in one of the worlds' largest economies and covers all major asset classes



Commitment to transparency and high standards of corporate governance



Uniquely diversified and vertically-integrated business model



Established track record of solid financial performance and attractive dividend policy



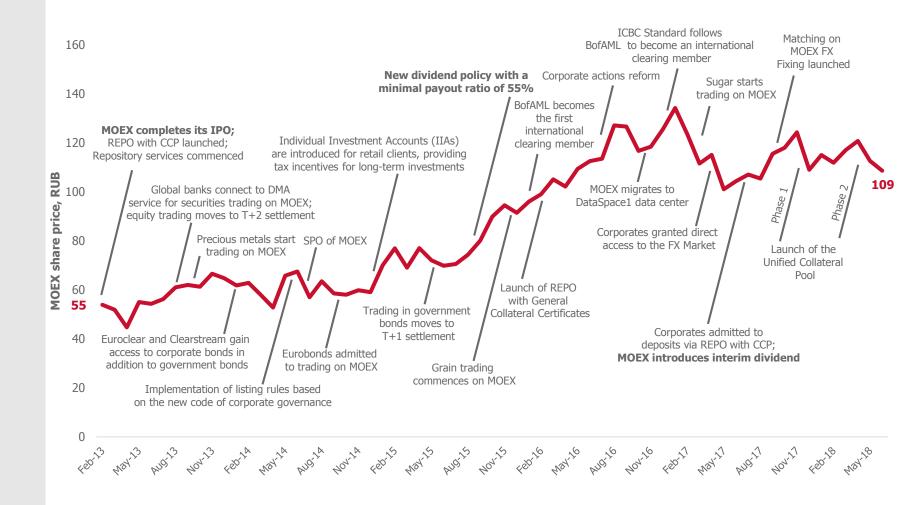
Resilient in alternating macro conditions, features lowcost product scalability



Successfully implemented infrastructure and regulatory reforms put MOEX on par with global peers



# **MOEX share price** performance and financial market reforms

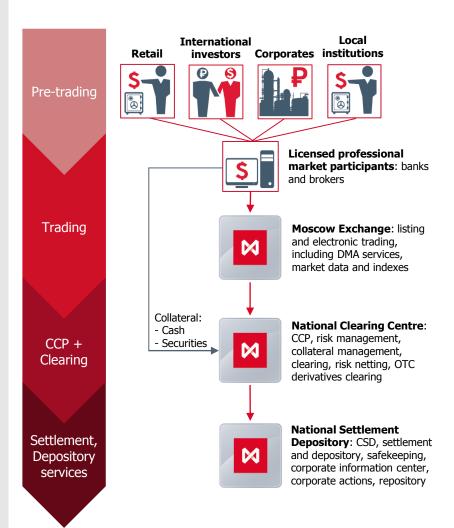




- Business overview
- Corporate governance and dividends
- Market position and competitive strategy
- Financial track record
- 1Q 2018 update



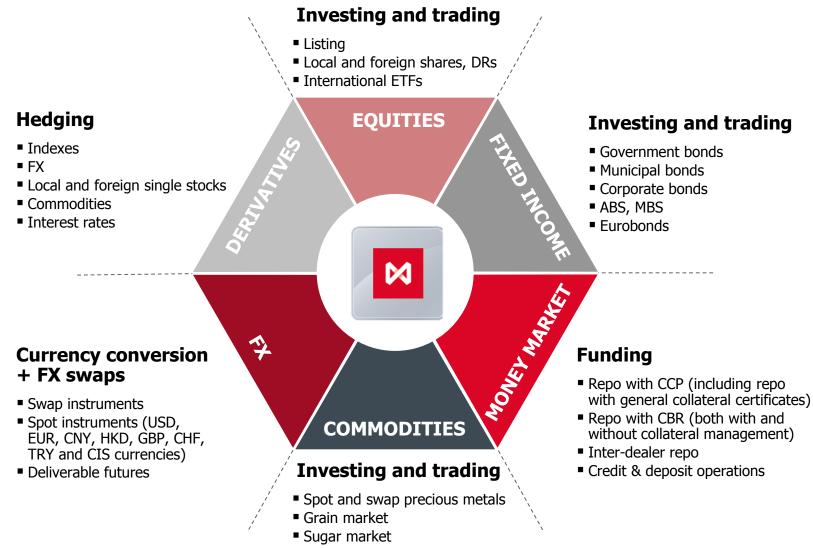
# On-exchange market: capturing the entire value chain



- MOEX captures the entire value chain for end-customers, offering a one-stop shop for listing, risk management, market data, multi-asset trading, clearing, settlement and custody.
- ✓ MOEX is **strategically positioned** to benefit from the development of Russia's capital markets in the coming years.
- ✓ Fully **vertically integrated infrastructure** with regulation and oversight by the Bank of Russia (CBR).
- ✓ Single-tier clearing system requires all participants to provide **eligible collateral** to trade any asset class, while pre-trade risk checks forestall any "fat fingers"/"flash crash" problems.
- The market has always been open for competition (except the CSD), but entry barriers are very high due to MOEX's post-trade infrastructure and on-exchange market efficiency.
  OTC is the key source of competition.
- ✓ Investors trade through brokers and banks, which are licensed locally and have access to MOEX markets. Foreign investors have DMA, SMA and ICM services at their disposal.

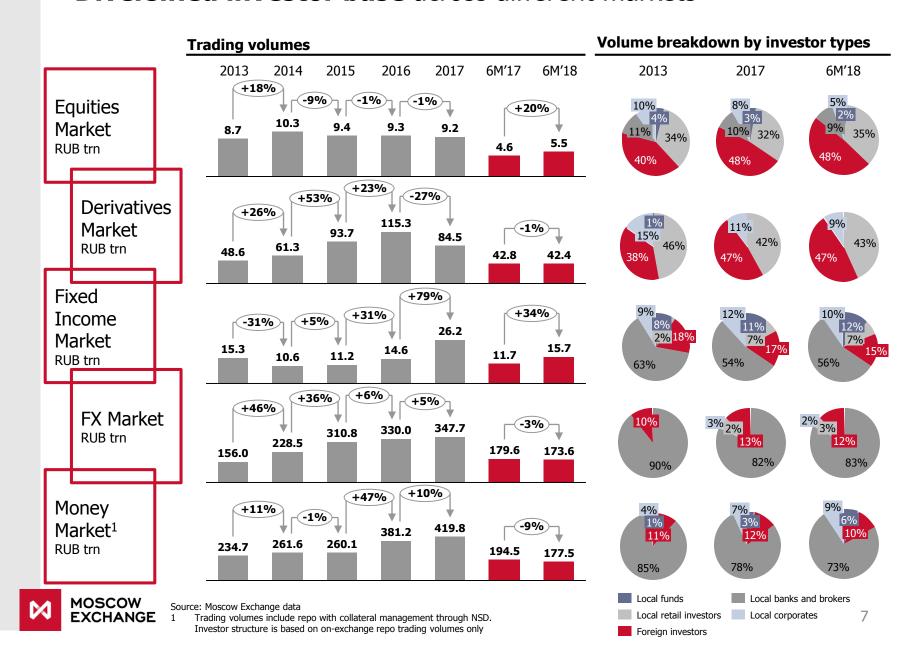


# **Highly diversified** product offering



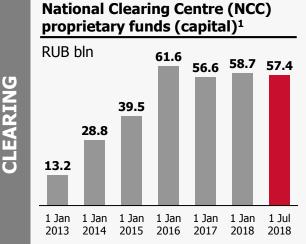


# **Diversified investor base** across different markets



# Robust post-trade infrastructure

Central Counterparty (CCP) and Central Securities Depository (CSD)



# RUB bln FX 1,400 Repo with CCP<sup>2</sup> 917 Derivatives 342 Fixed income 126 Equities 44 Commodities 0.5

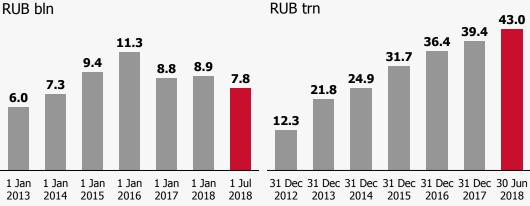
CCP cleared value based on

### Comments

- Well-capitalized NCC acts as a CCP for all asset classes
- Solid risk management has ensured smooth operations amid high volatility
- The only qualified CCP in Russia. The status was granted by the CBR in 2013
- BBB local currency rating from Fitch one notch higher than Russia's sovereign rating



# National Settlement Depository (NSD) proprietary capital<sup>3</sup> Assets on deposit<sup>4</sup>



### **Comments**

- NSD is the Central Securities Depository in Russia
- Safekeeping and settlement services
- Collateral management services for repo transactions
- Repository for OTC trades
- Links to Euroclear and Clearstream for Russian bonds and equities
- **AA-** rating from Thomas Murray<sup>5</sup>

Source: Moscow Exchange

- Figures in accordance with Russian Accounting Standards as reported to and disclosed by the CBR on a monthly basis. Figures from the end of 2015 onwards include skin in the game and other deductions in accordance with the regulation of CCPs by the CBR
  - 2 Including GCC repo
  - 3 Figures in accordance with Russian Accounting Standards as reported to and disclosed by the CBR on a monthly basis
  - 4 Assets on deposit based on Company's operational data
- 5 Thomas Murray is the leading global agency for depository services

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# Best-in-class corporate governance standards

- ✓ Out of 12 members of the 2018-2019 Supervisory Board, 7 are independent (58% vs a minimum threshold of 20%¹)
- ✓ Four of the six Supervisory Board committees are chaired by independent directors
- ✓ The 2018-2019 Supervisory Board does not include any executive directors
- ✓ MOEX was a pioneer to adopt the new criteria of Director Independence aligned with the new Corporate Governance Code

	Supervisory Board members	Strategy Planning	Audit	Nomination and Remuneration	Budget	Technical Policy <sup>2</sup>	Risk Management
8	Anatoly Braverman First Deputy CEO at Russian Direct Investment Fund	$\checkmark$			$\checkmark$		$\checkmark$
	Andrey Golikov - Deputy Chairman Deputy Chairman of the Supervisory Board at Moscow Exchange	$\checkmark$			Chair	$\checkmark$	
	Valery Goreglyad Chief Auditor at the Bank of Russia						$\checkmark$
9	<b>Yuriy Denisov</b> Chairman of the Supervisory Board at National Clearing Centre	$\checkmark$					Chair
	<b>Bella Zlatkis</b> Deputy Chairman of the Executive Board at Sberbank of Russia						
	Mikhail Bratanov Head of Securities Services in Russia and CIS at Société Generale			✓			
	Oleg Viyugin - Chairman Professor at Higher School of Economics	$\checkmark$		$\checkmark$			
	Maria Gordon Member of the Supervisory Board at Alrosa		$\checkmark$		$\checkmark$		
	Alexander Izosimov Director General at DRCAdvisors AB	$\checkmark$				$\checkmark$	
9	Anatoly Karachinsky President at IBS LLC					Chair	
	<b>Duncan Paterson</b> Company Secretary at Talent First Limited	$\checkmark$	Chair				
	Rainer Riess Director General at Federation of European Securities Exchanges (FESE)	Chair	✓	Chair			



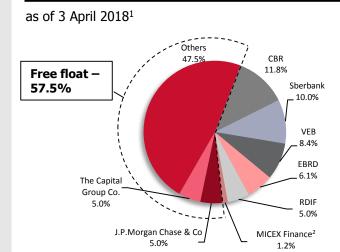


The threshold is for stocks listed in the First level of the Quotation list as per the Listing Rules of Moscow Exchange

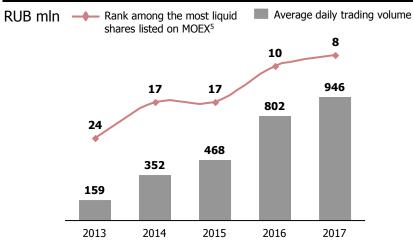
The Technical Policy committee includes key industry IT professionals

# Dispersed ownership with one of the **highest free-floats** in Russia

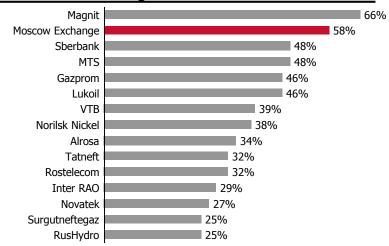
### Dispersed ownership with no controlling shareholder...



### **Growing liquidity of MOEX shares<sup>4</sup>**



### ...and one of the highest free-floats in Russia<sup>3</sup>



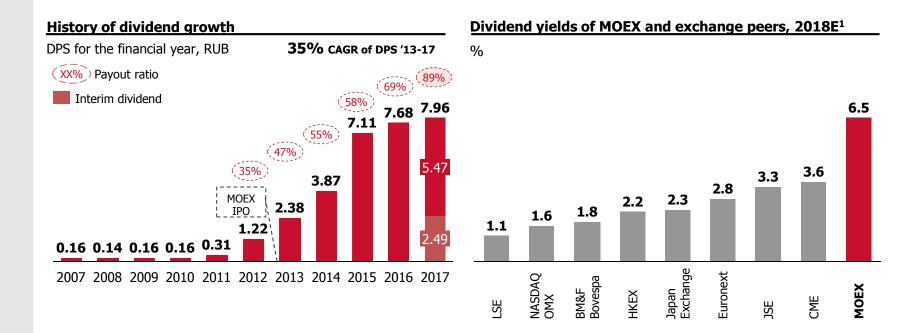
### Transparency and international recognition

- International index providers MSCI and MVIS include MOEX shares in their indices
- Voluntary disclosures and regular updates of investor materials, including monthly trading results
- Annual MOEX Forums in Moscow, New York, London and Shanghai have become well-know venues to maintain dialogue with international market participants
- Robust investor relations program:
  - √ 355 investor meetings in 2017
  - ✓ IR activities in Russia, the UK, Europe and the US to maintain dialogue with overseas investors
  - ✓ IR awards in Russia in 2014-2017



- Stakes of MICEX Finance, OppenheimerFunds, Capital Group, J. P. Morgan Chase & Co are as reported in most recent mandatory disclosure forms
- 100% owned subsidiary of the Moscow Exchange
- 3 Largest locally registered Russian companies by market capitalization included in the MOEX Index
- Trading volumes in the main trading mode (T0, T+2)
- 5 The ranking includes ordinary and preferred shares

# 2017: dividend payout of 89%



### **Comments**

- Dividend policy approved in September 2015 sets 55% of net profit as the minimum payout
- In 2017 Moscow Exchange switched to more frequent dividend payments, paying out its first ever interim dividend
- In April 2018 MOEX's AGM voted to pay out a dividend of RUB 7.96 per share, or 89% of 2017 net profit



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# **Leading positions in a global context** in 2017

### 2<sup>nd</sup> largest exchange in fixed income<sup>1</sup>

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Rank	Exchange	Country	Trading vol. (USD bln)	Incl. REPOs			
1	LSE Group	UK	9,196	×			
2	Moscow Exchange	Russia	4,818	√			
3	BME	Spain	4,804	$\checkmark$			
4	Korea Exchange	Korea	2,144	×			
5	Johannesburg SE	South Africa	2,083	$\checkmark$			
6	Nasdaq OMX	USA	1,704	$\checkmark$			
7	Oslo Borse	Norway	1,041	$\checkmark$			
8	Shanghai SE	China	355	×			
9	Bolsa de Valores de Colombia	Colombia	312	×			
10	Tel-Aviv SE	Israel	241	×			

### 5<sup>th</sup> largest exchange in derivatives<sup>2</sup>

Rank	Exchange	Country	Contracts traded (mln)
1	CME Group	USA	4,089
2	NSE India	India	2,482
3	BM&FBOVESPA	Brazil	1,638
4	Deutsche Boerse	Germany	1,597
5	Moscow Exchange	Russia	1,585
6	CBOE	USA	1,274
6 7	CBOE Nasdaq OMX	USA USA	1,274 1,101
•			•
7	Nasdaq OMX	USA	1,101

### Among top 25 exchanges by equity trading volumes globally<sup>3</sup>

Rank	Exchange	Exchange Country		Securities	Trading vol.
		- Country	(USD bln)	listed	(USD bln)
1	ICE&NYSE	USA	22,081	2,286	14,535
2	Nasdaq OMX	USA	10,039	3,933	12,138
3	Shenzhen SE	China	3,622	2,089	9,112
4	Shanghai SE	China	5,090	1,396	7,563
5	Japan Exchange	Japan	6,223	3,604	5,813
6	LSE Group	UK	4,290	2,498	2,330
7	HKEx	Hong Kong	4,226	2,118	1,957
8	Euronext	EU	4,371	1,255	1,943
9	Korea Exchange	Korea	1,731	2,134	1,920
10	Deutsche Boerse	Germany	2,245	499	1,482
25	Moscow Exchange	Russia	619	234	144

### 13th largest publicly listed exchange by Mkt Cap<sup>4</sup>

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Rank	Exchange	Country	Mkt Cap (USD bln)
1	CME	USA	57.3
2	ICE&NYSE	USA	43.4
3	HKEx	Hong Kong	38.8
4	Deutsche Boerse	Germany	25.7
5	LSE Group	UK	20.5
6	Nasdaq OMX	USA	15.7
7	BM&Fbovespa	Brazil	10.6
8	CBOE	USA	11.7
9	Japan Exchange	Japan	10.4
10	ASX	Australia	9.2
11	SGX	Singapore	5.7
12	Euronext	EU	4.5
13	Moscow Exchange	Russia	3.9

Sources: Moscow Exchange, WFE, Bloomberg

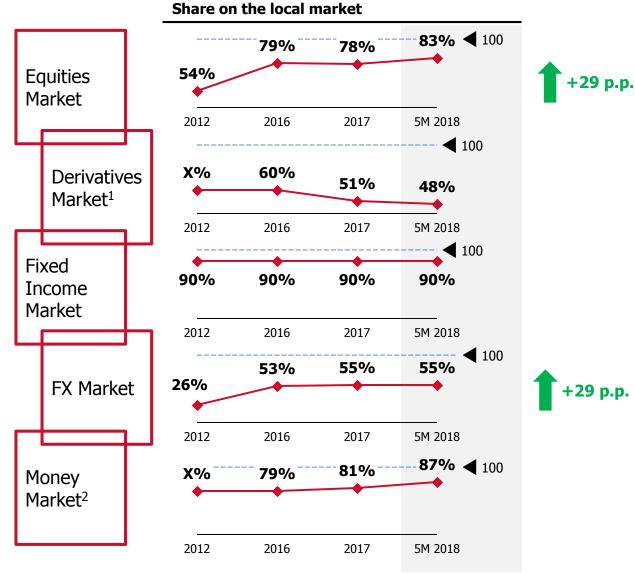
- 1 Due to different methodologies applied, data on fixed income trading may not be directly comparable among exchanges. Data for 2017
  - Data for 2017

<sup>4</sup> Market capitalization of public exchanges based on Bloomberg data as of 21 June 2018



Top equity trading exchanges are ranked by trading volume. Ranking without BATS (excluded due to absence of data for market capitalization and number of listed companies). Data for 2017

# High and increasing market share versus OTC trading





Source: Moscow Exchange data

Data before the launch of obligatory reporting to repository are unavailable

Repo trading volumes only. Data before the launch of obligatory reporting to repository are unavailable

# Competitive strategy 2015-2020: key pillars (1)

Market Diversification Optimization Sophistication Standardization penetration **Drivers and initiatives** Strategy ✓ Benefits from infrastructure put in place, tax and regulatory reforms (T+2, CSD and access of ICSDs, IIA) Aggressive growth: **Equities** development of the equity ✓ Growth of the retail investor base ✓ New listings and IPOs, repatriation of capital market ✓ Further simplification of access for international investors (SMA, ICM) ✓ Development of short-term and ultra short-term bonds, securitization ✓ Easier access to the bond market for corporates Aggressive growth: ✓ Growth of the retail investor base **Fixed income** bonds to substitute bank ✓ Benefits from completed reforms (shift to T+1 for OFZs, large block auctions, loans as a funding tool ✓ Development of an OTC platform ✓ Tariff reform to increase effective fees ✓ Development of commodity derivatives Agaressive growth through ✓ Approval of CFTC registration application in order to permit access for US **Derivatives** new asset classes and tariff market participants ✓ Options market development reform Synergies with spot markets via a unified collateral pool ✓ OTC derivatives clearing ✓ Growth of market data sales

Market data

Aggressive growth through enhancement of the product offering

- ✓ Improvement of data dissemination: development of a real-time and nonreal time data platform
- ✓ Development of the corporate information center
- ✓ Development of the pricing center
- ✓ Expansion of the repository offering



# Competitive strategy 2015-2020: key pillars (2)

Market Diversification Optimization Sophistication Standardization penetration **Drivers and initiatives** Strategy ✓ Development of international clearing membership Protecting market share **FX Market** ✓ Direct access of corporates to the market through further expansion ✓ Development of SMA services Protecting market share ✓ Further enhancement of the existing product portfolio – collateral **Money Market** through further product management services, repo with the General collateral pool ✓ Direct access of corporates to repo with CCP in the "net creditor" mode development Steady growth via ✓ Corporate actions reform **Depository services** development of new ✓ Launch of the corporate information center ✓ Expansion of the repository offering services ✓ Reduction of NII's contribution to revenue through implementation of the Gradual replacement of NII **Treasury business** single collateral pool as a fee-based service, including single account, single with F&C income limit transfer, netting, cross-margining functionality ✓ Focus on reliability of hardware Ongoing enhancement of Improved processes of software development and installation IT IT systems ✓ Initiatives to foster fintech startups that develop technologies complementary to MOEX's product offering



# **Global products and international investors**

### MOEX offers global products to Russian investors ...

### **Global Products**

Plans 2018

# FX Market ✓ Trading links with key FX platforms

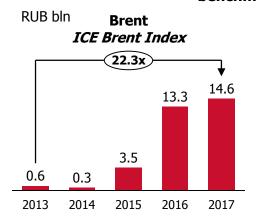
### **Derivatives Market**

✓ Major global benchmarks

### **Equities Market**

✓ Top global stocks

# Trading volumes of derivative contracts on international benchmarks on MOEX





### ... and Russian products to international investors

Plans 2018

### **FX Market**

**Derivatives Market** 

**Equities and Fixed Income Markets** 

- Development of SMA: introduction of pre-trade controls
- Development of ICM
- Tradable FX Fixing instruments for international participants
- Declaration of adherence to FX Global Code
- Launch of ICM: remote clearing membership for international banks
- Launch of SMA: introduction of pre-trade controls and cancellation of orders on disconnection
- Onboarding of international HFT clients
- Development of SMA
- Launch of ICM
- Onboarding of international HFT clients

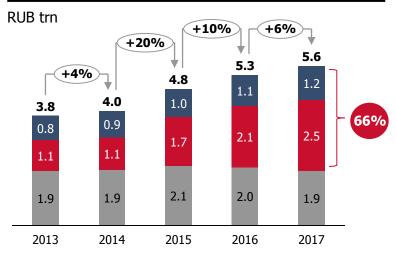


# Local institutional investors: the potential of **pension funds**

### **Pension assets in Russia**

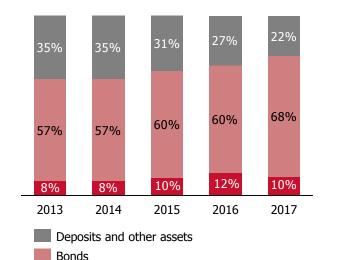
### Pension system asset allocation dynamics<sup>1</sup>

**Equities** 





- Non-state pension funds. Mandatory savings
- Non-state pension funds. Reserves



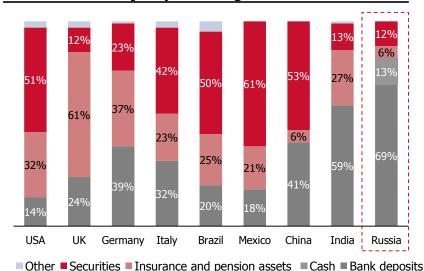
### Key highlights of the pension reform

- Bank of Russia became a regulator of the pension system in 2013
- Adopted changes in non-state pension fund regulation:
  - "One year non-loss" rule was abolished
  - Investment horizon of NPFs was extended to 5 years
  - Customers are now incentivized to stay with the fund for not less than 5 years
  - Guarantee fund mechanism (similar to the Deposit Insurance Agency in the banking system)
  - New allocations to NPFs remained under moratorium until 2019, which reduced growth potential and left room for organic growth only

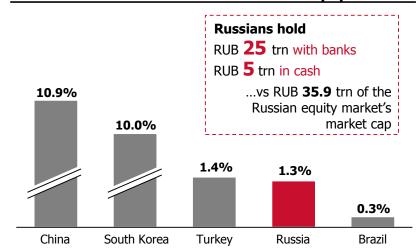


# **Retail money:** aiming to grow the culture of investing

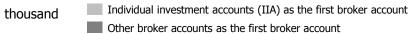
### Russians hold majority of savings in banks and cash<sup>1</sup>

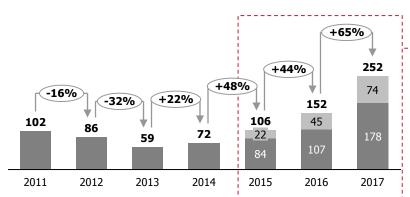


### Number of retail broker accounts as % of population<sup>2</sup>

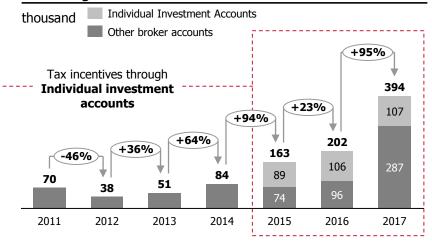


### Newly opened retail accounts of first-time (unique) clients





### Net change in the number of retail accounts



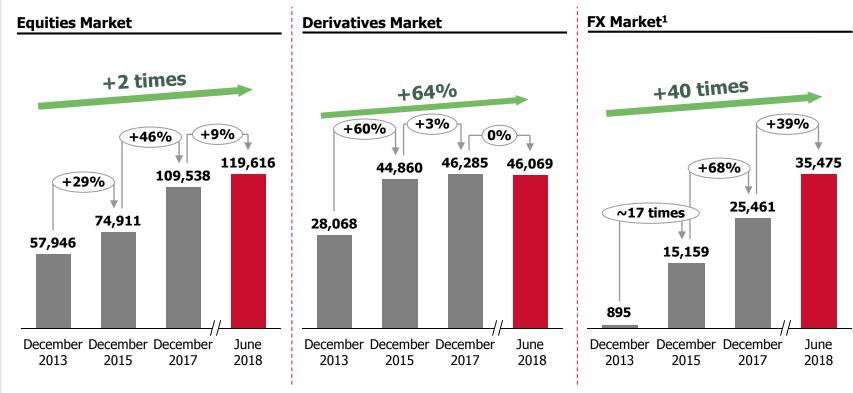


Sources: EIU, World Bank, IMF, central banks of South Korea, Turkey, Mexico, National Bureau of Statistics of China, Allianz, SZSE Factbook, CBR, Moscow Exchange

- As of the end of 2016
- Russia 2017, South Korea, Turkey, Brazil 2014, China 2015

# **Retail clients:** a growing segment of the Russian financial market

### Number of active retail client accounts



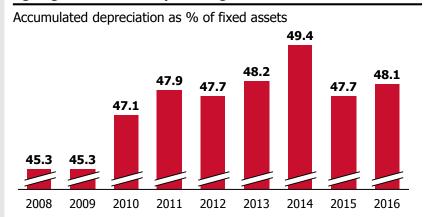
### **Recent regulatory changes:**

- Introduction of individual investment accounts for private investors since 2015: more than 366,000 accounts opened as of June 2018
- **Tax breaks** on capital gains on securities held for more than 3 years (up to RUB 9 mln for securities purchased after 1 Jan 2014)
- Retail investors allowed to remotely open a brokerage account. This simplifies the process for retail investors in Russia's farflung regions

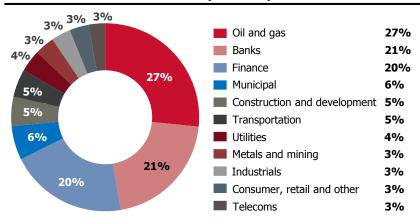


# **Bond market – why we are strong believers**

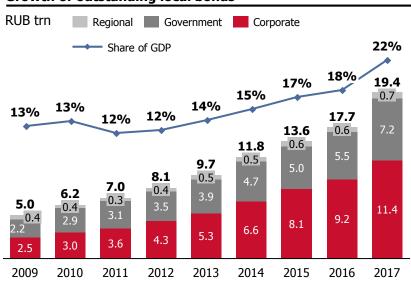
### Ageing fixed assets require long-term investments



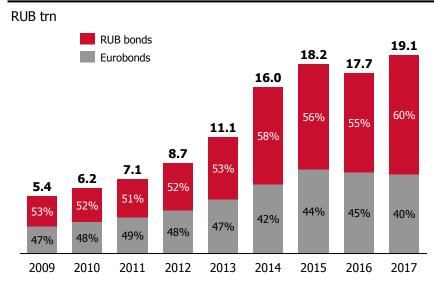
### Breakdown of bond issuers1 by industry



### **Growth of outstanding local bonds**



### Local bonds vs Eurobonds of Russian corporates<sup>2</sup>





Sources: Bank of Russia, Cbonds, Rosstat, Moscow Exchange

RUB-denominated bonds traded on MOEX's Bond Market in January 2018
Including banks and financial institutions. Data for 2017 as of 1 December 2017

# "Bondization": growing a deeper Bond Market

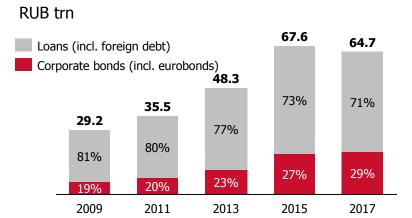
### **Completed in 2017**

- Issuance documents constructor for exchangetraded bonds was implemented in the user account, it reduces the time for preparation of each document to 15-20 minutes
- Bonds can now be admitted to trading without a prospectus
- 60 new exchange-traded bond programs were registered in 2017 (+56% vs 2016)
- On-exchange bookbuilding
- Increase of OFZ liquidity due to market-maker programs and change in tick size (+32% trading volumes in 2017 vs 2016)
- Cross-product OFZ spreads

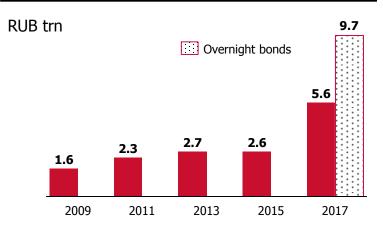
### Plans for 2018 and beyond

- OTC fixed income trading platform
  - Additional features not offered through electronic order book
  - MiFID II favors electronic OTC platforms due to transparency
  - The initiative takes advantage of data on ownership of more than 15,700 security issues kept by NSD
- Increase of market liquidity:
  - Transactions with bonds ex-date (coupon)
  - Further development of exchange bookbuilding

### Corporate loans vs corporate bonds in Russia



### **Bond primary market trading volume**





Source: Moscow Exchange, Cbonds

# **Corporates on the FX and Money Markets**

### **Direct access of Russian corporates to the FX and Money Markets**

# **Direct access to the FX Market**

Launched on 5 April 2017

### **Deposits with the CCP for corporates**

Launched on 24 July 2017



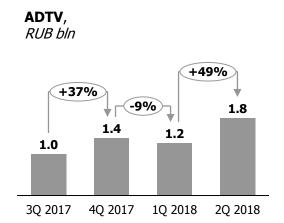
- trading volume since **RUB** launch bln
- **RUB** 1.4 **ADTV** bln

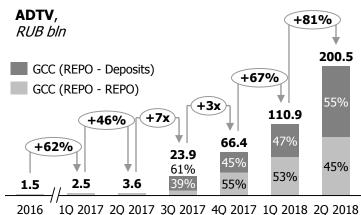
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Plans 2018+

- Relax criteria for corporates to join
- Attract 30-50 new corporates to the FX and Money Markets



Source: Moscow Exchange

# Trend of local placements continued

Major public capital raisings by Russian companies in 2016 were held exclusively on MOEX

Company	Date	Transaction type	Transaction value, RUB bln
Europlan	December 2016	SPO	15.0
RussNeft'	November 2016	IPO	32.4
FG Future	October 2016	IPO	11.7
Alrosa	July 2016	SPO	54.4
UWC	May 2016	SPO	5.0
Promsvyazbank	April 2016	SPO	2.6
Total 2016			121.1

**Capital raisings on MOEX in 2017** 

Company	Date	Transaction type	Transaction value, RUB bln
тмк	February 2017	SPO	10.0
Detski Mir	February 2017	IPO	21.1
Phosagro	February 2017	SPO	15.0
UWC	May 2017	SPO	1.9
Polyus <i>(dual)</i>	June 2017	SPO	52.3
Bank Saint Petersburg	July 2017	SPO	3.2
MVideo	July 2017	SPO	18.0
Iorilsk Nickel'	July 2017	SPO	23.8
Magnitogorsk Iron & Steel Works	September 2017	SPO	13.0
eroflot	September 2017	SPO	9.8
1egafon	October 2017	SPO	22.5
Obuv Rossii	October 2017	IPO	5.9
Credit bank of Moscow	October 2017	SPO	14.4
Globaltruck	November 2017	IPO	3.5
1agnit	November 2017	SPO	43.9
n+ <i>(dual)</i>	November 2017	listing	
Total 2017	210		258.3

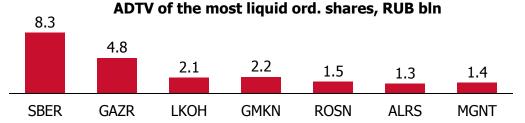
### Capital raisings on MOEX in 2018

Company	Date	Transaction type	Transaction value, RUB bln
X5 Retail Group	February 2018	listing	
Interrao	March 2018	SPO	4.2



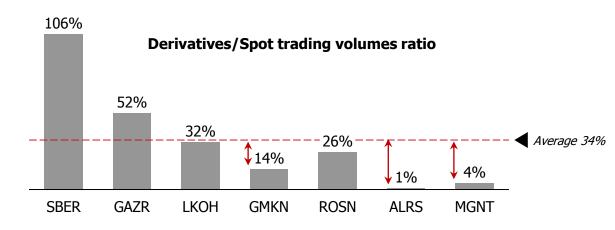
# **Indicative Quotation System on the Derivatives Market**





...the ratio of derivatives' volumes to spot trading volumes declines rapidly – like a *gap down* 

=> Trading in derivatives on a less liquid underlying can garner a greater share of this underlying's spot volumes





Allows to trade illiquid contracts without freezing collateral before a counterparty accepts a trade order



Seeks to improve liquidity in derivatives with liquid underlying assets

 $\odot$ 

Launched on 23 April 2018 for options only



There are plans to introduce IQS for illiquid futures contracts

**Indicative Quotation System** aims to unlock the potential of less liquid contracts



Data for 2017 26

# NCC is now regulated as a clearing organization and a CCP

Dec 2015	Dec 2016	Nov 2017	Dec 2017					
Changes to law "On Clearing" that regulate NCC as a CCP instead of a banking institution were approved	Bank of Russia developed a set of new regulatory ratios for the CCP	NCC applied for a new license, switching from banking regulation to CCP regulation	NCC operates and is regulated as a CCP, licensed as a non-banking credit organization					
Target capital	Target capital in FY 2018 that c	Target capital in FY 2018 that complies with new regulatory requirements: <b>RUB 55 bln</b>						
New regulation requires:								
Capital adequacy	At all times NCC's own capital shall exceed the sum of "skin in the game", the minimum capital to maintain 11% of RWA and a reserve of 75% of annual operating expenses							
Adequacy of total resources	At all times the sum of "skin in the game" and the guarantee fund shall exceed potential losses in the event of default of the two largest counterparties							
Adequacy of initial margin	Price fluctuations of each asset shall not exceed the initial margin amount in at least 99% of cases of price changes							
Liquidity ratio	The amount of liquid assets of the CCP at any time shall exceed the amount of potential losses in the event of default of the two largest counterparties							
Collateral concentration	A certain type of asset is eligible as collateral as long as its addition does not exceed 25% in total assets placed as collateral by market participants							



# **Update on the strategic UCP project**

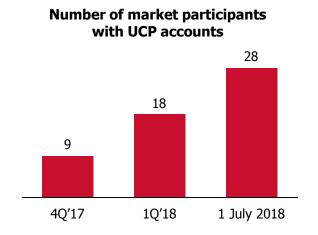
### Unified Collateral Pool (UCP) phase-in schedule

### **☑** Completed On track **End of 2018** Dec'17 2Q'18 Start of phase 1: Start of phase 2: Fully-functioning UCP Single account, Cross-margining bridge unification of between spot and collateral management derivatives Nov'18 Aug'18 2<sup>nd</sup> tariff revision: 1st tariff revision: - Repo with CCP - Repo with CCP - FX swaps

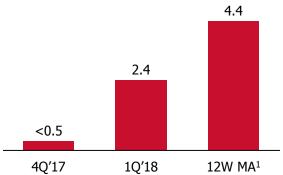
- FX swaps
- Derivatives

- In effect since 4 December 2017:
  - Netting of settlements
  - Unified collateral requirements
  - Single account for all markets
- 21 May 2018: launch of cross-margining across markets
- Schedule for fee revisions:
  - August and November 2018 in effect
  - July and October 2018 previous view

### **Phase 1: current progress**



# Share of F&C from UCP accounts as % of total trading F&C





# **E-voting and Blockchain** implemented on Moscow Exchange

### E-voting for equity and bond holders

- ✓ NSD has developed **e-voting platform for shareholders: www.e-vote.ru**
- ✓ **Sberbank, MOEX, Alrosa** the first Russian companies to provide shareholders with the opportunity to remotely participate in shareholder meetings (via online voting) in 2017
- ✓ E-voting for bondholders has been implemented and successfully tested

### **Blockchain technology**

✓ NSD used a **blockchain-based settlement platform** to complete an inaugural placement of a RUB 500 mln bond issue in 2017



# **New Products: Derivatives, Commodities and Equities**

### **Futures and options on Light Sweet Crude Oil**

**Futures on Light Sweet Crude reached an ADTV of RUB 36 mln** within the first few days after the launch on 25 April 2018. A comparable ADTV of Brent futures was achieved a month after the start of trading back in October 2008.

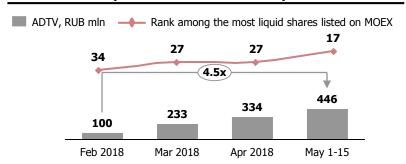


most popular underlying in the commodity segment since launch1

### Trading in grain swaps: funding for producers

### ADTV, RUB mln +46% 121 +72% +41% 83 +6x 24 17 4Q 2017 Mar 2017 2Q 2017 3Q 2017 10 2018 Apr-Mav 2018<sup>2</sup>

### **X5 Retail Group: a new issuer in the Equities Market**



### 2 new ETFs

New

- ✓ **ITI Funds** RTS Equity
- ✓ ITI Funds Russia-Focused USD

### Existing

Russian equity indices

FinEx RTS

**Russian Eurobonds** 

FinEx

Rus Eurobonds USD Rus Eurobonds RUB Foreign equity indices

FinEx
MSCI Australia
MCSI Germany
MSCI China
MCSI Japan

MSCI USA MCSI UK

MSCI USA IT

### **Commodities**

FinEx Gold USD

Foreign bonds & MM

**FinEx**Cash Equivalents



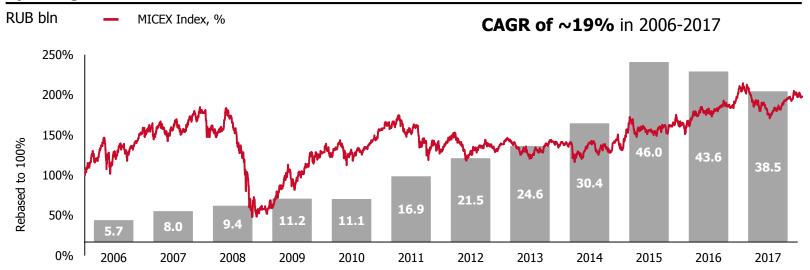
Between 25 April 2018 and 15 May 2018 Between 1 April 2018 and 15 May 2018

- Business overview
- Corporate governance and dividends
- Market position and competitive strategy
- Financial track record
- 1Q 2018 update



# MOEX business model continues to deliver

### Operating income<sup>1</sup>



### **Key highlights**

**Unique business model** allows MOEX to increase operating income regardless of the stage of the economic cycle:

- Business lines are diversified, while markets have limited growth correlation
- Growth drivers differ across markets and products

### Fee & commission income evolution<sup>1</sup>

■ Equities+ ■ Derivatives ■ FX ■ Money Market ■ Depository & Settlement ■ IT Services <sup>3</sup> Bonds <sup>2</sup>

6%	10%	8%	6%	8%	8%	7%	IT Services
18%	17%	18%	20%	19%	18%	20%	Depository & settlement
10% 16%	18%	20%	21%	22%	24%	27%	Money Market
8%	18%	19%	22%	24%	22%	100/	FX
	11%	12%	11%			18%	Derivatives
42%	27%	220/		8%	10%	9%	- Listing: 2% - Bonds: 8%
	2770	23%	20%	18%	18%	19%	Bonds: 8% Equities: 9%
2011	2012	2013	2014	2015	2016	2017	



According to Moscow Exchange Consolidated Financial Statements for the relevant period

RTS data is consolidated from 29 June 2011

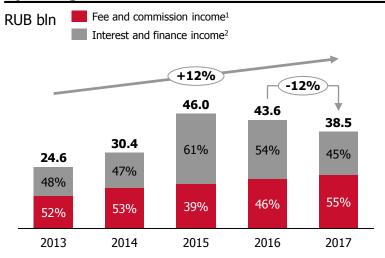
Includes Listing and other service fees related to the Securities Market

IT Services includes Information services, Sale of software and technical services and Other fee income

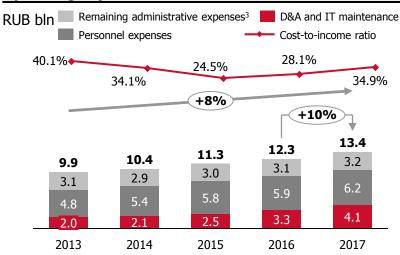
# **Summary of financials**



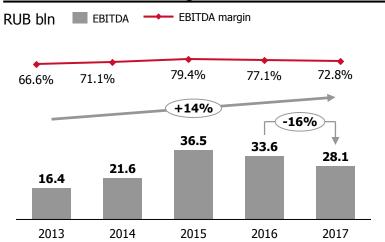
### **Operating income**



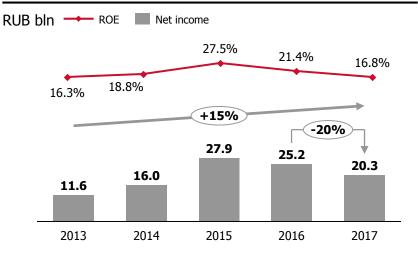
### **Operating expenses**



### **EBITDA and EBITDA margin**



### **Net income**





Source: Moscow Exchange

- Includes Other operating income
- Includes Interest and other finance income, Interest expense, Net loss on financial assets available-for-sale and Foreign exchange gains less losses
- Remaining administrative expenses are calculated as Administrative expenses less Depreciation of property and equipment, Amortisation of intangible assets and Equipment and intangible assets maintenance

# Fee & commission income: strong and sustainable growth

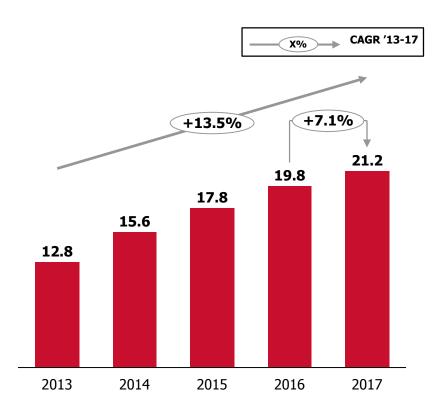
Fee and commission income (F&C)

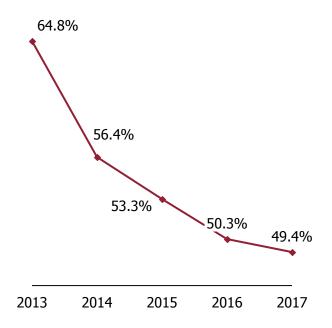
Cost (ex D&A) to fee income ratio

RUB bln

F&C growth is delivered in a cost efficient way

F&C income shows sustainable growth





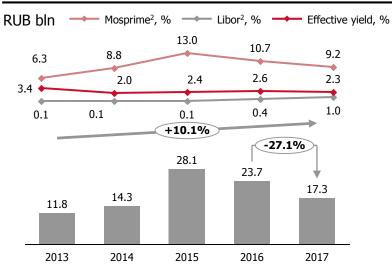


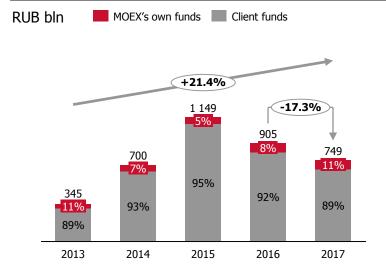
# **Interest and finance income**



### Interest and finance income<sup>1</sup>

### **Investment portfolio sources**<sup>3</sup>

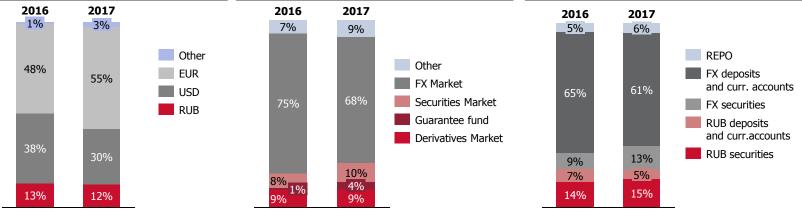




### **Client funds by currency**

### Client funds by source

### Investment portfolio by type of asset



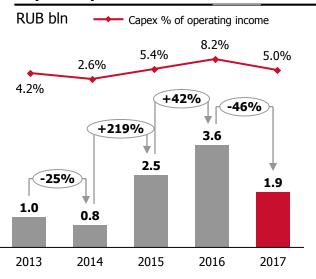


Source: NFEA, Bloomberg, Moscow Exchange operational information and Consolidated Financial Statements

- 1 Interest and finance income includes Interest and other finance income, Interest expense, Net loss on financial assets available-for-sale, Foreign exchange gains less losses
- Average overnight rate for the period
- Based on average daily investment portfolio sources for the period according to management accounts

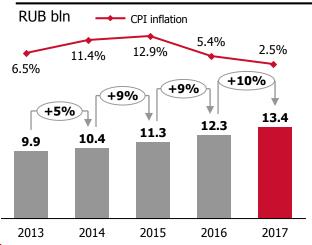
## **CAPEX and OPEX: 2017-2018**

### **Capital expenditures**



- In 2017, CAPEX was RUB 1.94 bln, including intangible asset additions of RUB 1.45 bln and fixed asset additions of RUB 0.49 bln.
- In 2018, capital expenditures are expected to be RUB 2.0-2.2 bln, in line with CAPEX for FY 2017. The split between maintenance CAPEX and CAPEX allocated to new projects is expected to be roughly equal (55% new projects/ 45% maintenance capex).
- 2018 CAPEX estimate does not include Ecosystem investments.

### **Operating expenses**



- The actual growth of OPEX in 2017 was 10%, below the latest guidance of 11-13% as a result of:
  - More conservative hiring
  - Stronger RUB
- In 2018, growth of operating expenses is expected to be in the range of 7-9%.



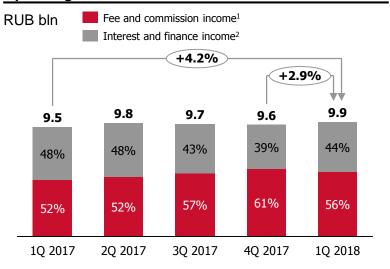
Source: Moscow Exchange, gks.ru

- Business overview
- Corporate governance and dividends
- Market position and competitive strategy
- Financial track record
- 1Q 2018 update

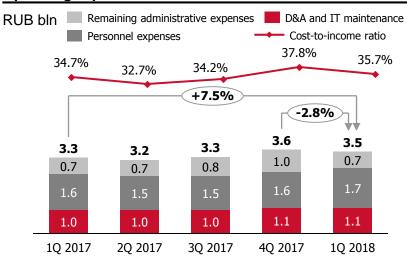


# 1Q 2018 summary of financials

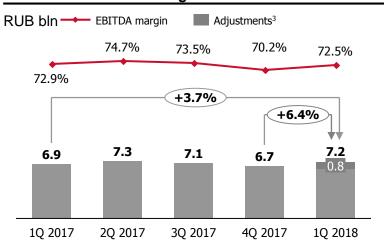
#### **Operating income**



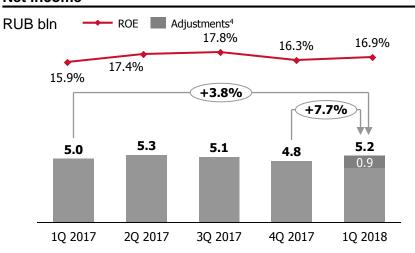
#### **Operating expenses**



### **EBITDA and EBITDA margin**



#### **Net income**





Source: Moscow Exchange

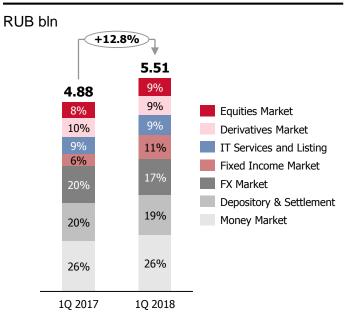
- Includes Other operating income
- 2 Includes Interest and other finance income, Interest expense, Net loss on financial assets available-for-sale and Foreign exchange gains less losses
- Adjustments are related to 1) IFRS 9 provisions change and 2) one-off provision
- 4 Adjustments are related to 1) changes in amortization schedules, 2) IFRS 9 provisions change and 3) one-off provision

## **Diversified fee and commission** income

### Fee & commission income performance

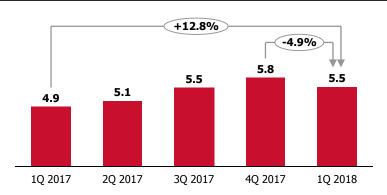
RUB min	1Q 2017	1Q 2018	Change YoY, mln	Change YoY, %
Money Market	1282.0	1438.2	156.2	12.2%
Depository and Settlement	991.0	1046.1	55.1	5.6%
FX Market	957.0	926.2	-30.8	-3.2%
Fixed Income Market	316.9	621.6	304.7	96.2%
IT Services and Listing <sup>1</sup>	440.7	508.8	68.1	15.5%
Derivatives Market	497.0	494.8	-2.2	-0.4%
Equities Market	396.8	470.0	73.2	18.4%

#### Fee & commission income breakdown

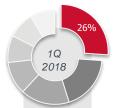


## Fee & commission income dynamics

**RUB** bln

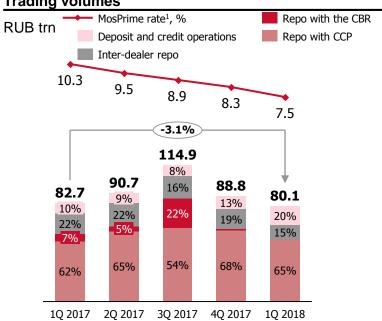




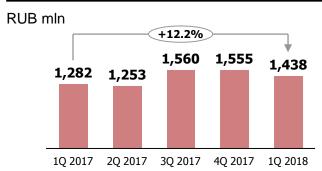


## **Money Market**



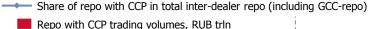


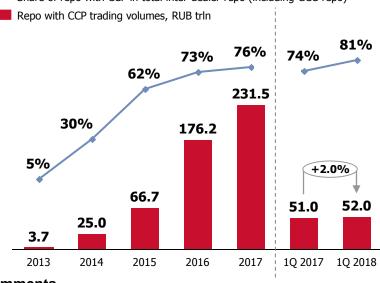
### Fee & commission income



### Trading volumes for repo with CCP





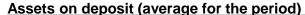


- F&C income increased 12.2% YoY thanks to a shift to highermargin repo with CCP (including GCC repo).
- Trading volumes contracted 3.1% YoY due to lower volumes of repo with the Bank of Russia.
- The average term of on-exchange repo was 3.1 days, up from 2.8 days in 1Q 2017 and flat QoQ (4Q 2017: 3.0 days).
- Strength of effective fees was due to longer average term of repo and some accruals from longer-term deals.

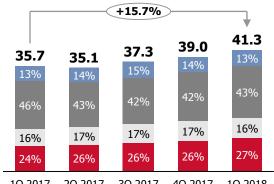




## **Depository and Settlement**



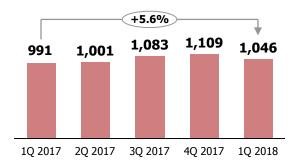




3Q 2017 1Q 2017 2Q 2017 40 2017 10 2018

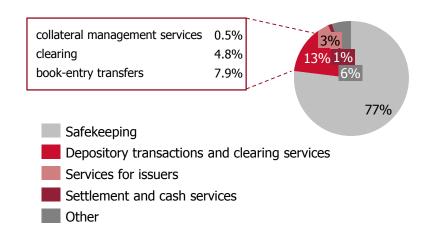
#### Fee & commission income

RUB mln



#### Fee & commission income breakdown

1Q 2018



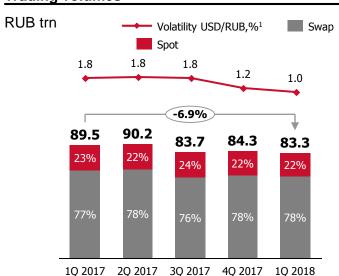
- F&C increased 5.6% YoY, primarily due to growth in average assets on deposit (+15.7% YoY).
- The growth in assets on deposit was universal across all asset classes. Corporate bonds on deposit grew by 29.4% YoY, OFZs (federal government bonds) grew by 17.1% YoY and equities grew by 8.4% YoY.
- While income from safekeeping remained strong, fees from repo with collateral management services through NSD declined due to lower volumes.





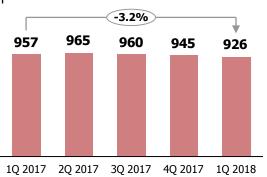
## FX Market

#### **Trading volumes**



#### Fee & commission income



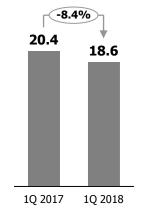


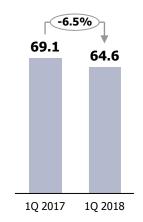
#### **Spot trading volumes**

## RUB trn

### Swap trading volumes

RUB trn





- F&C was down 3.2% YoY due to a contraction of trading volumes (-6.9% YoY).
- Swap trading volumes declined 6.5% YoY, spot trading declined 8.4% YoY.
- Sponsored Market Access to the FX Market continues to develop, with six participants to date.

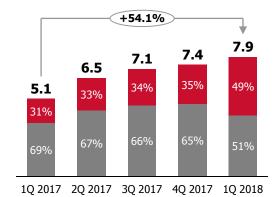




## **Fixed Income Market**

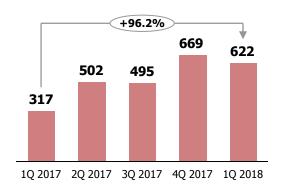
### Trading volumes<sup>1</sup>

RUB trn Government and CBR bonds (OFZ, OBR)
Corporate, municipal and other bonds

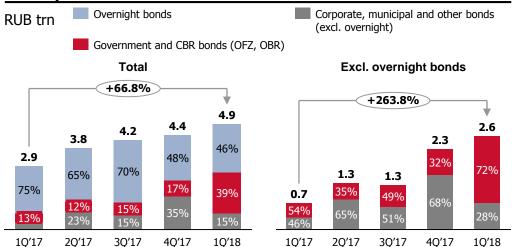


#### Fee & commission income

RUB mln



### **Primary market**



- Trading volumes were up by 54.1%.
- F&C rose 96.2% on the back of strong growth in placements.
- Primary placements grew 3.6x YoY (excl. overnight bonds).
- Placements of government bonds expanded 4.9x YoY.



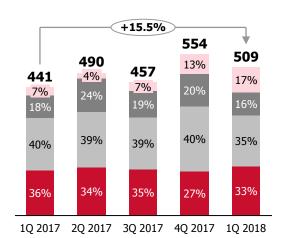


## **IT Services and Listings**

### IT Services and Listings<sup>1</sup>

#### RUB mln

- Other fee and commission income
- Listing and other fees related to Securities Market
- Information services
- Sale of software and technical services

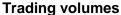


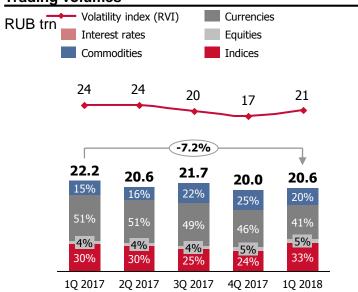
- Listing and other service fees were RUB 79.2 mln, up 0.4% YoY.
- Sales of data and information services contributed to RUB 176.3 mln of fee income, flat YoY.
- Income from sales of software and technical services was RUB 169.2 mln, up 8.1% YoY.
- Other fee and commission income was RUB 84.1 mln, up 2.9 times YoY. This line includes contribution from the Commodities Market.





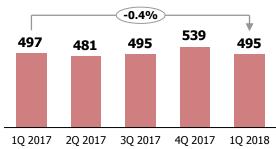
## **Derivatives Market**





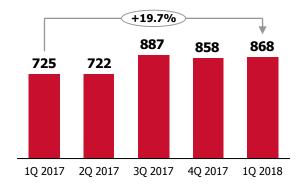
#### Fee & commission income

#### RUB mln



### **Open interest**

RUB bn, daily average



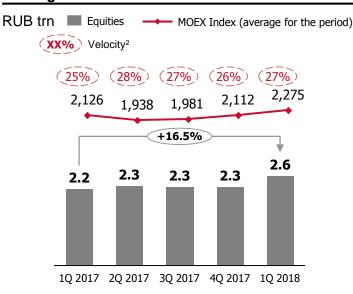
- F&C was flat YoY, while trading volumes declined 7.2%.
- Trading volumes of FX derivatives declined 25.7% due to lower exchange rate volatility.
- Trading volumes of equity and index contracts grew 35.1% and 4.6% YoY, respectively, despite the decline in volatility.
- Trading volumes of commodity contracts were up 21.6% YoY.
- Options turnover increased 20.8% YoY.
- Shift to higher fee contracts (single equity and commodity futures, options) supported the average fee per ruble of trading volumes.



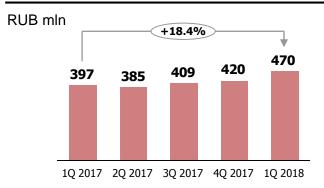


## **Equities Market**

### Trading volumes<sup>1</sup>

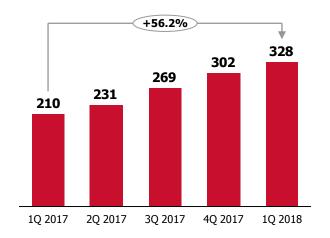


### Fee & commission income



#### **Increasing popularity of Individual Investment Accounts**

Individual Investment Accounts, thousands, end-of-period



#### Comments

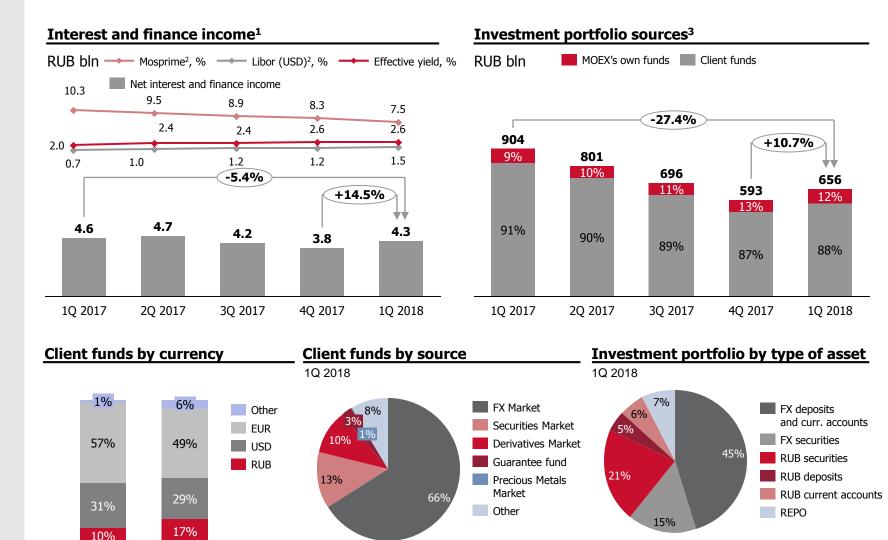
- Trading volumes increased 16.5% YoY, F&C rose by 18.4% YoY.
- MOEX's market share vs. LSE in trading of dual-listed Russian shares rose by 4 pp YoY and reached 61%.
- FTSE replaced 2 DRs of Russian issuers with local shares in its All-World index.
- X5 Retail Group's DRs started trading on the Equities Market in February 2018 and entered the top-20 most liquid equity instruments in May 2018.



Source: Moscow Exchange operational information and Consolidated Financial Statements, WFE, Liquid Metrix, Bloomberg and Moscow Exchange data for March 2018 for MOEX vs LSE share

- Volumes of both primary and secondary markets
- Velocity is calculated as annualized trading volumes for the period divided by the average market capitalization

## **Interest and finance income**





1Q 2017

Source: NFEA, Bloomberg, Moscow Exchange operational information and Consolidated Financial Statements

1Q 2018

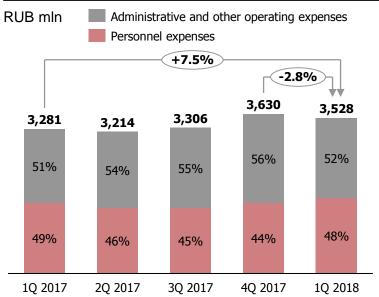
Interest and finance income includes Interest and other finance income, Interest expense, Net loss on financial assets available-for-sale. Foreign exchange gains less losses

<sup>2</sup> Average daily rate for the period

<sup>3</sup> Based on average daily investment portfolio sources for the period according to management accounts

# **Operating expenses**

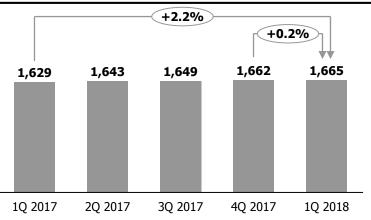
### **Operating expenses**



#### Major expense items

RUB mln	1Q 2017	1Q 2018	Change YoY
Personnel expenses	1,602.2	1,707.1	6.5%
D&A and IT maintenance	997.7	1,114.9	11.7%
D&A & IT maintenance adjusted for change in amortization schedule	997.7	1,033.8	3.6%
Remaining administrative expenses <sup>1</sup>	681.5	705.9	3.6%
Total OPEX	3,281.4	3,527.9	7.5%
Adjusted total OPEX	3,281.4	3,446.8	5.0%
Cost (ex D&A) / fee income	52.6%	48.8%	-3.8 p.p.

#### Headcount



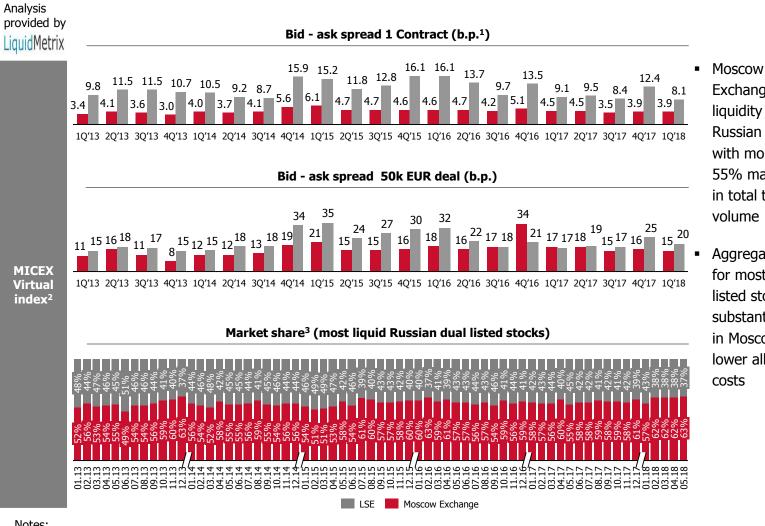
- OPEX for the quarter was RUB 3.53 bln, up 7.5% YoY. Administrative and other operating expenses were up 8.4% YoY to RUB 1.82 bln, of which RUB 839.8 mln was depreciation and amortization expense.
- OPEX excluding D&A expenses up only 4.7% YoY to RUB 2.69 bln.
- Continued growth of D&A charge was a result of changes to the amortization schedule of particular intangible assets.
- Personnel expenses rose by 6.5% YoY to RUB 1.71 bln.



# Appendix



## Dual listed stocks virtual index spread dynamics



Notes:

Spreads measure the bid to offer spread of the best visible orders in the book, the result based on measurements of the order books every 30 seconds



The value for the spread is quoted in basis points (0.01%)

Source: LiquidMetrix

Exchange is the

with more than 55% market share

in total trading

Aggregated spreads

for most liquid dual

substantially lower

in Moscow implying lower all-in trading

listed stocks are

volume

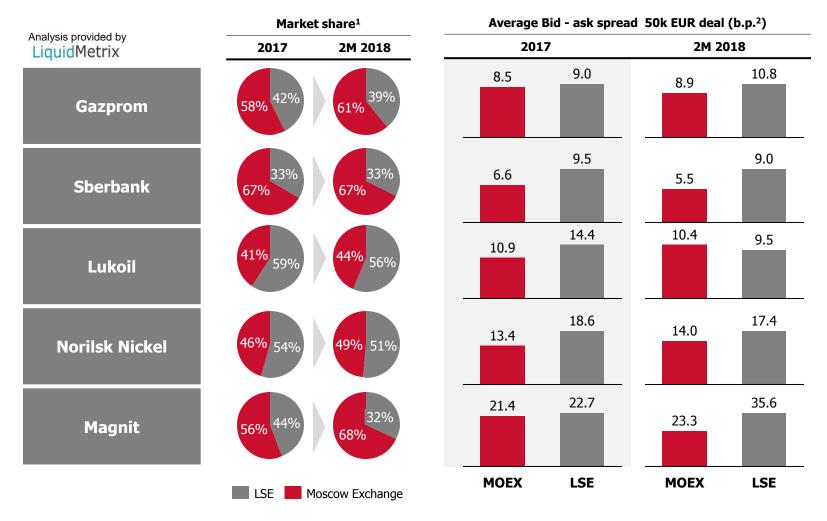
costs

liquidity center for Russian securities

MICEX Virtual Index - index calculated based on prices and EOB data of the most liquid Russian dual listed stocks

Data since December 2015 includes trading auctions on MOEX

# Blue Chips bid - ask spread dynamics for 50k EUR deal (1)



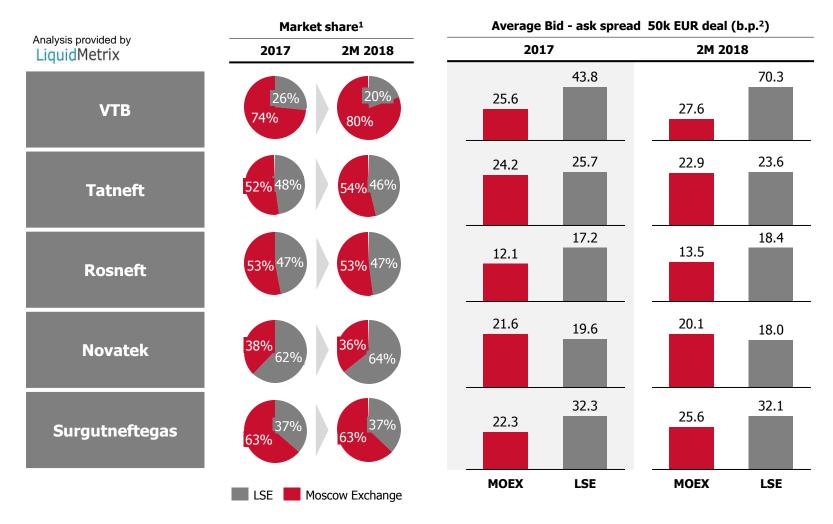
Bid-ask spreads for majority of the Russian "Blue Chips" are substantially lower on Moscow Exchange than on other trading venues



Data since December 2015 includes trading auctions on MOEX

<sup>2</sup> The value for the spread is quoted in basis points (0.01%) Source: LiquidMetrix

# **Blue Chips** bid - ask spread dynamics for 50k EUR deal (2)



Bid-ask spreads for majority of the Russian "Blue Chips" are substantially lower on Moscow Exchange than on other trading venues



Data since December 2015 includes trading auctions on MOEX

<sup>2</sup> The value for the spread is quoted in basis points (0.01%) Source: LiquidMetrix

## DR holders pay substantial **EXTRA FEES** to depository banks

Fees to be paid to depositary banks for some of DR programs of Russian companies

DR program	Depositary ba	Depositary Service Fee <sup>1</sup> (DSF), USD per DR	Dividend Fee <sup>2</sup> , USD per DR	DSF + Dividend Fee as % of dividend	DRs cancellatio ns fee, USD per
		·	0.005	amount <sup>3</sup>	DR
VTB Bank	BNY Mellon	0.03	0.005	84%	0.05
RusHydro	BNY Mellon	0.02	0.009	38%	0.05
Surgutneftgaz	Deutsche Bank	0.02	0.012	32%	0.05
TMK	BNY Mellon	0.01	0.016	20%	0.05
AFKS	Citi	0.03	-	11%	0.05
MMK	BNY Mellon	-	0.020	7%	0.05
Phosagro	Citi	0.02	-	7%	0.05
Megafon	BNY Mellon	0.03	-	7%	0.05
Rostelecom	JP Morgan	0.01	0.030	7%	0.05
Gazprom	BNY Mellon	-	0.020	7%	0.05
Sberbank	JP Morgan	0.01	0.020	6%	0.05
Norilsk Nickel	BNY Mellon	0.01	0.020	4%	0.05
Magnit	JP Morgan	0.01	-	4%	0.05
NLMK	DB	0.02	-	4%	0.05
Tatneft'	BNY Mellon	0.02	0.020	2%	0.05
Rosneft	JP Morgan	0.003	-	2%	0.05
Severstal	DB	-	0.020	2%	0.05
Novatek	BNY Mellon	-	0.020	2%	0.05
Lukoil	Citi	-	0.020	1%	0.05
Lenta	DB	0.03	-	NA <sup>5</sup>	0.05
Average		0.013	0.012	13%	0.05

**Gross DSF and dividend fees calculated** for Top-3 international funds holding DRs of Russian companies<sup>4</sup>

Fund A	3,834,533 USD
Fund B	2,791,936 USD
Fund C	6,118,199 USD

#### Cost of cancellations of all DRs in portfolios to local shares for Top-3 funds

Fund A	8,627,079 USD
Fund B	5,418,791 USD
Fund C	5,697,296 USD

- · A depository service fee and a dividend fee are to be paid by DR holder to the depositary bank while there are no such fees for holders of local shares
- Majority of DRs cancellations are also charged 0.05 USD per DR



- Service fees are charged annually, on an arbitrary date. Calculated based on number of DR in a client's account on the record date
- Dividend fees are charged when dividends are paid
- As % of dividend amount after tax
  - Calculations based on Thomson Reuters data as of December 2017

Source: BNY Mellon, Deutsche Bank, JP Morgan, Citi, Thomson Reuters

- Data for dividend amount is unavailable

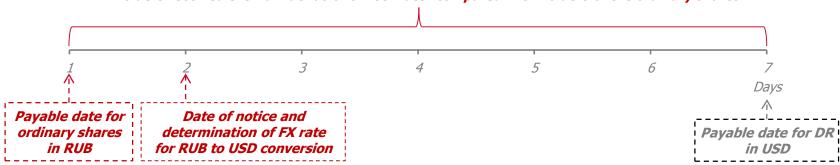
## **Dividend payments for DR holders**

#### **FX** rate determination for dividends

- FX rates for conversion of dividends are determined in non-transparent manner
- According to information from notices for DR holders<sup>3</sup>:
  - Custodian DR issuer has no obligation to obtain the "best price" for any FX Trade
  - The conversion rate reflects a foreign currency transaction ("FX Trade") executed by the Custodian - DR issuer as principal counterparty and not as agent, fiduciary or broker

Issuer Record		Local Shares		DR		
	date	Payable date	FX rate <sup>1</sup>	Payable date	FX rate <sup>2</sup>	Diff.
MMK	11 Jun 17	21 Jun 17	59.6	28 Jun 17	60.2	1.0%
Akron	11 Jul 17	18 Jul 17	59.1	25 Jul 17	59.7	1.0%
MTS	10 Jul 17	25 Jul 17	59.5	1 Aug 17	60.0	1.0%
NCSP	30 May 17	22 Jun 17	59.6	29 Jun 17	60.0	0.7%
Novatek	2 May 17	23 May 17	56.3	30 May 17	56.7	0.7%
Norilsk Nickel	23 Jun 17	10 Jul 17	60.3	17 Jul 17	60.7	0.7%
Tatneft	7 Jul 17	26 Jul 17	59.5	2 Aug 17	59.8	0.5%

### DR holders received their dividends one week later compared with holders of the ordinary shares





Source: Moscow Exchange

Average weighted USD/RUB FX rate at Moscow Exchange

FX rate for dividends conversion

Publicly available information on the Custodian - DR issuer web site

# Consolidated Statement of **Profit or Loss**

RUB mln	1Q 2018	1Q 2017	% chg. 1Q 2018/ 1Q 2017
Fee and commission income	5,505.7	4,881.4	13%
Interest and finance income <sup>1</sup>	4,333.6	4,578.9	-5%
Other operating income	31.5	9.3	239%
Operating Income	9,870.8	9,469.6	4%
Administrative and other operating expenses	1,820.8	1,679.2	8%
Personnel expenses	1,707.1	1,602.2	7%
Operating Expense	3,527.9	3,281.4	8%
Operating Profit	6,342.9	6,188.2	2%
Other expense	-856.4	-	-
Profit Before Tax	5,486.5	6,188.2	-11%
Income tax expense	-1,200.9	-1,190.1	1%
Net Profit	4,285.6	4,998.1	-14%
Earnings per share			
Basic earnings per share, RUB	1.91	2.23	-14%
Diluted earnings per share, RUB	1.90	2.21	-14%



## Consolidated Statement of Financial Position

RUB mln	31 March 2018	31 December 2017	% chg. 31 March 2018/ 31 December 2017
Assets:			
Cash and cash equivalents	382,760.8	273,243.4	40%
Central counterparty financial assets	2,439,561.7	2,430,083.8	0%
Financial assets <sup>1</sup>	301,752.1	279,133.3	8%
Property and equipment and intangible assets	24,391.0	24,944.1	-2%
Goodwill	15,971.4	15,971.4	0%
Other assets <sup>2</sup>	2,395.6	4,334.2	-45%
Total Assets	3,166,832.6	3,027,710.2	5%

RUB mln	31 March 2018	31 December 2017	% chg. 31 March 2018/ 31 December 2017
Liabilities:			
Balances of market participants	591,190.2	466,860.2	27%
Central counterparty financial liabilities	2,439,561.7	2,430,083.8	0%
Distributions payable to holders of securities	3,708.4	2,507.8	48%
Other liabilities <sup>3</sup>	7,525.2	7,039.1	7%
Total Liabilities	3,041,985.5	2,906,490.9	5%
Total Equity	124,847.1	121,219.3	3%
Total Liabilities and Equity	3,166,832.6	3,027,710.2	5%



Source: Moscow Exchange, Consolidated Financial Statements

<sup>1</sup> Financial assets at fair value though profit or loss, Due from financial institutions, Financial assets at fair value through other comprehensive income

Current tax prepayments, Deferred tax asset, Other assets

<sup>3</sup> Margin account, Deferred tax liability, Current tax payables, Other liabilities

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- -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;
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