



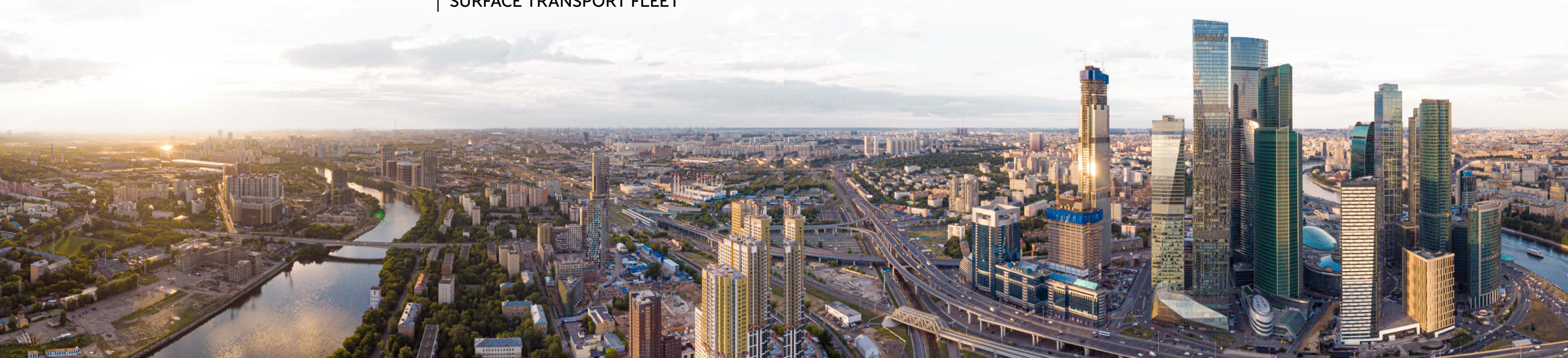
The Moscow Transport System's Achievements from 2010 to 2019



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MOSCOW TRANSPORT



THE DEPARTMENT OF TRANSPORT AND ROAD INFRASTRUCTURE DEVELOPMENT OF MOSCOW

Transport policy implementation; management and control



Traffic management and control

Road traffic

MTCC – The Moscow Traffic Control Centre

Car parking

Moscow Parking



R&D and special projects

MosTransProekt

The Moscow Directorate of Transport Services



>210,000

Moscow Transport employees are committed to helping residents and visitors to the capital comfortably move around the city every day



Passenger service regulation

Metro

Moscow Metro

Surface transport

Mosgortrans

Commercial carriers under governmental contracts

Suburban rail services

The Central Suburban Passenger Company

The Moscow-Tver Suburban Passenger Company

Aeroexpress

Taxi companies

Car-sharing operators



Control and supervision

Street and road network
The Moscow Administrative Road Inspection

Transport

The Transportation Organizing Company



Procurement

The Directorate of Transport Procurement

PASSENGER TRAFFIC ON MOSCOW TRANSPORT

Daily passenger traffic, million trips per weekday

	2010	2019
Moscow Metro, including the MCC	8.0	9.2
Surface transport	7.2	7.4
Suburban railways, including the MCD	1.5	2.1
Taxi	0.03	1.01
Car sharing	0.04	0.23
Bike sharing	-	0.03
TOTAL	16.7	20

Share of people using public transport, %



Annual passenger traffic in 2019, billion trips

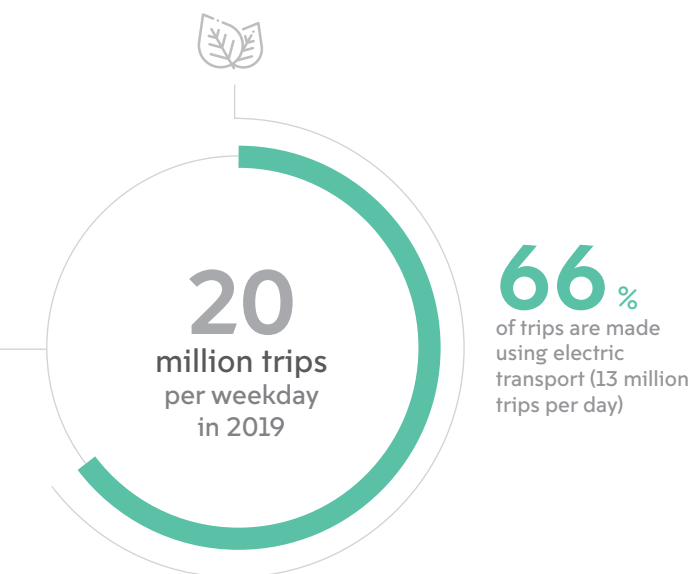


Moscow

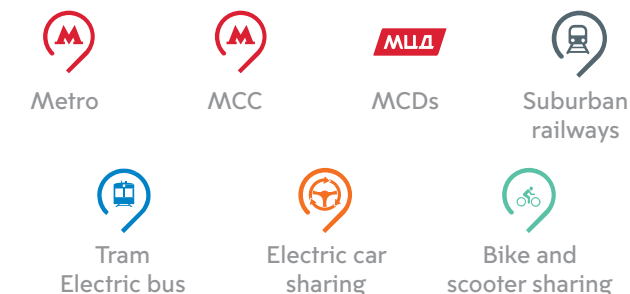
No. 1

among European cities by passenger flow in public transport

Eco-friendly public transport



Electric public transport



Transport in Moscow Today



The rail framework of the Moscow metropolitan area



578 km
238 stations
780 trains
(5,580 cars)

No. 1 in Europe by growth in the number of stations and length of lines since 2010 (CoMET)



54 km
31 stations
51 trains
(255 cars)

Special recognition at the UITP Summit for the success of the MCC project (UITP, Montreal, Canada, 2017)



132 km
60 stations
180 trains
(1,978 cars)

A world-record project implementation timeframe for the MCD project vs comparable projects: two years from decision to launch



~2,000 km of rail lines
56 stations
10 routes
362 trains
(3,427 cars) within Moscow

The most dense rail transport network (PwC, Quality of Living survey, 2018)



>11,000 buses, trams and electric buses
>1,000 routes
351 km of dedicated lanes

World-record growth rate in the number of electric buses on city routes (UITP, Brussels, Belgium)



80,000 taxis operate in Moscow every day
153,000 permits issued since 2011
>1,500 dedicated parking spaces for taxis

Top 3 globally for lowest priced taxi rides (Carspring's survey, UK, 2017)



30,000 vehicles
50 electric car-sharing vehicles
6 operators

No. 1 globally by the number of car-sharing vehicles (Autostat, Russia, 2020)



E-SERVICES

32.5 million
Troika cards issued

9 payment options

5 mobile apps

The World's Best Smart Ticketing System
(Transport Ticketing Global, London, UK, 2020)



BICYCLE INFRASTRUCTURE

6,500 bikes across
629 rental stations

850 km of bike paths
(taking into account dedicated lanes)

No. 1 in Europe by the
number of trips per city
bike (7 rides)



PEDESTRIAN INFRASTRUCTURE

410 pedestrian facilities
set up (361 km)

>800
navigation pylons on the
streets

Honourable mention at
the Sustainable Transport
Award for reorganising the
city space and improving
conditions for pedestrians
(Washington, USA, 2018)



INTELLIGENT TRANSPORT SYSTEM (ITS)

24/7 command
centre at the Traffic
Control Centre

3,000 photo
and video recording systems

40,000 traffic
lights connected to the ITS

No. 1 in Russia for road
safety



ROAD INFRASTRUCTURE

>6,000 km
of roads

8.2 million
vehicles registered within
the Moscow transport hub

Moscow is in the **Top-3 megacities** by the growth
rate of road length
(PwC, Quality of Living survey,
2018)



SMART PARKING

123,000
parking spaces at urban
parking facilities

82,000 resident
parking permits

8 parking payment options

No. 1 in the world in smart
parking space organisation
(Tom-Tom, Netherlands, 2017)

The Moscow Transport Strategy: Achievements and Plans



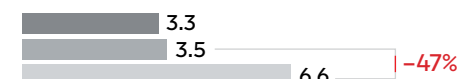
THE IMPLEMENTATION OF THE CURRENT STRATEGY BETWEEN 2010 AND 2020

Since 2010, the Government of Moscow has been successfully implementing its global development strategy to 2020, aimed at improving the efficiency of the Moscow transport system. The interim results of the current transport policy's key programmes are summed up below.

Average speed of private vehicles along the key highways on a 24/7 basis, km/h



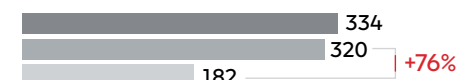
Social risk, road fatalities per 100,000 residents



Number of passenger seats on public transport, million people per day



Rail transport stations (metro, the MCC, the MCD), units

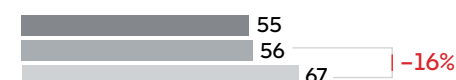


Metro availability, proportion of people living within a radius of 1.2 km from metro



2020 (plan)
2019
2010

Average travel time on public transport from the Moscow Ring Road to the city centre, minutes



Average time in queue for purchasing tickets during rush hour, minutes



Punctuality and reliability of surface transport services using dedicated infrastructure, %



Proportion of passengers using different modes of public transport, %



Proportion of passengers using different modes of public transport, %



THE NEW TRANSPORT STRATEGY UP TO 2023 AND BEYOND TO 2040

Moscow and its residents have identified the key focus areas for the further development of the Moscow transport system up to 2023, 2030 and beyond to 2040.

Five key focus areas



Affordable and comfortable public transport

- Transport framework
- Fixed-route surface public transport services



Safe roads

- Road safety (Vision Zero)
- The future of taxi and car-sharing services



Healthy streets

- Developing pedestrian and bicycle infrastructure
- Reducing transport emissions



Digitalisation of transport

- A wide range of digital technologies for transport
- Unlocking the full potential of the ITS
- A single mobile app to plan and pay for trips on a MaaS basis



New modes of mobility

- Individual mobility
- Personalised bus services
- Water transport development
- Autonomous transport development

Four key sources to identify further growth areas



Analysis of the results of the transport policy for 2010–2020



Assignments from the President of the Russian Federation and the Mayor of Moscow



Public surveys (The Marathon of Ideas)



Evaluating best practices of the world's megacities and their applicability to Moscow

Seven key objectives



1 Increased use of public transport



4 Higher average speed of travel



2 Accessible and comfortable public transport for everyone



5 Better affordability



3 Safe and reliable public transport



6 Lower air and noise pollution

7 New mobile and technological solutions



International and Russian experts rank Moscow among the world's top cities for transport development.

Global awards for the successful overall transport policy of Moscow between 2016–2020

UITP

Belgium
uitp.org



The 62nd UITP Summit (Montreal, Canada, 2017): Special recognition for the comprehensive development of the Moscow transport system, including:

- the pace of network expansion and modernisation of the metro, including for the launch of the MCC
- the renewal of the surface passenger transport fleet and modernisation of the route network

INTERNATIONAL TRANSPORT FORUM (ITF)

France
itf-oecd.org



ITF (Leipzig, Germany, 2016): Passenger Transport Award for the comprehensive development and improvement of passenger services in Moscow

SUSTAINABLE TRANSPORT AWARD

USA
staward.org



2018: Honourable mention for reorganising the city space, improving conditions for pedestrians and the launch of the Magistral route network and the Moscow Central Circle

CIHT

UK
ciht.org.uk



2020: Special recognition for the successful organisation of transport services for the 2018 FIFA World Cup



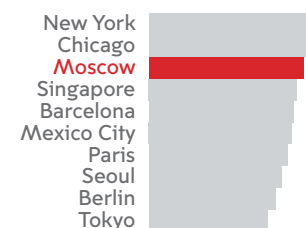
Rankings



Human Dimension
in the Urban
Environment (2018)

No. 3
globally

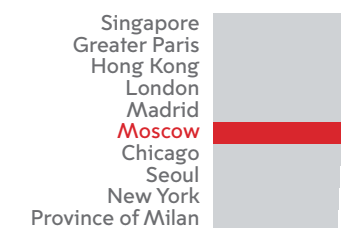
- Thanks to the balanced development of its transport system, Moscow ranks in the Top-3 cities, just behind the US megacities
- According to the integral indicator, Moscow is one of the leading cities for transport infrastructure convenience



Elements of success: Urban
transportation systems of 24
global cities (2018)

No. 6
globally

- Moscow is ranked on par with London, Madrid, Chicago and Seoul
- The city is demonstrating the highest rate of improvement – in 2010, it would have only been ranked the 20th on the list
- Moscow is ranked No. 1 in terms of public transport efficiency



Lomonosov Moscow
State University
www.msu.ru
www.indexmsu.ru

Global Urban Transport
Development Index (2019)

No. 2
globally

- In 2018, Moscow climbed up to 2nd position compared to 8th in 2010
- From 2010, Moscow's index has been growing at an accelerating rate compared to other megacities (a sevenfold increase in absolute terms)

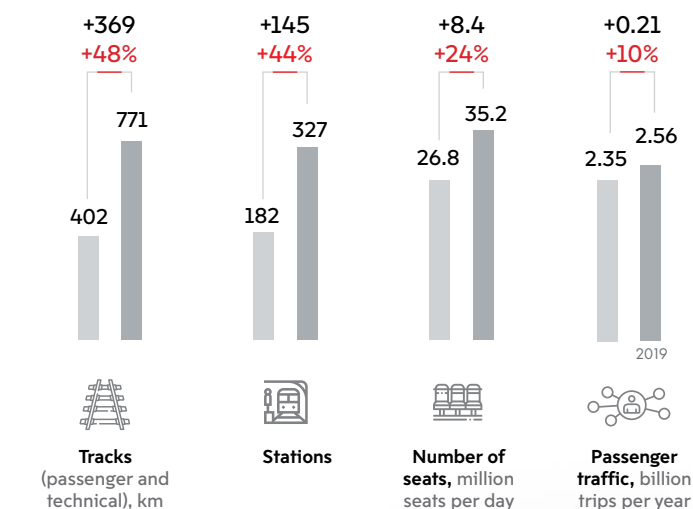


The Rail Framework of the Moscow Metropolitan Area



THE MOSCOW METRO

The Moscow Metro is No. 1 in Europe by the growth in the length of lines and the number of stations since 2010.



■ April 2020
■ 2010

The Moskva – next-generation train

Country of origin – Russia



Improved accessibility for low-mobility passengers

Digital displays

Walk-through design (+15% passenger seats)

Improved noise insulation (30% less noise)

15 cm wider door openings (+12%)

Modern climate control systems

Video surveillance inside and outside trains



Fleet renewal, cars



The Unified Dispatch Center of the Moscow Metro – management digitalisation 2.0:

100% coverage of the Moscow Metro and the MCC with 24/7 intelligent control

Two times faster response to emergencies



Infrastructure upgrades since 2010:

- ~800 km of rails replaced
- ~200,000 sleepers replaced
- At 100 stations, entrance halls and pedestrian underpasses have been renovated
- 488 escalators repaired
- 312 new escalators

THE MOSCOW CENTRAL CIRCLE

Since September 2016

The Moscow Central Circle (MCC) is a megaproject by the Government of Moscow and Russian Railways. Within a world-record timeframe of two years, all construction works were completed to enable a simultaneous launch throughout the entire circle. For almost four years now, the MCC has been successfully operating in sync with the Moscow Metro.

560,000
passengers per day

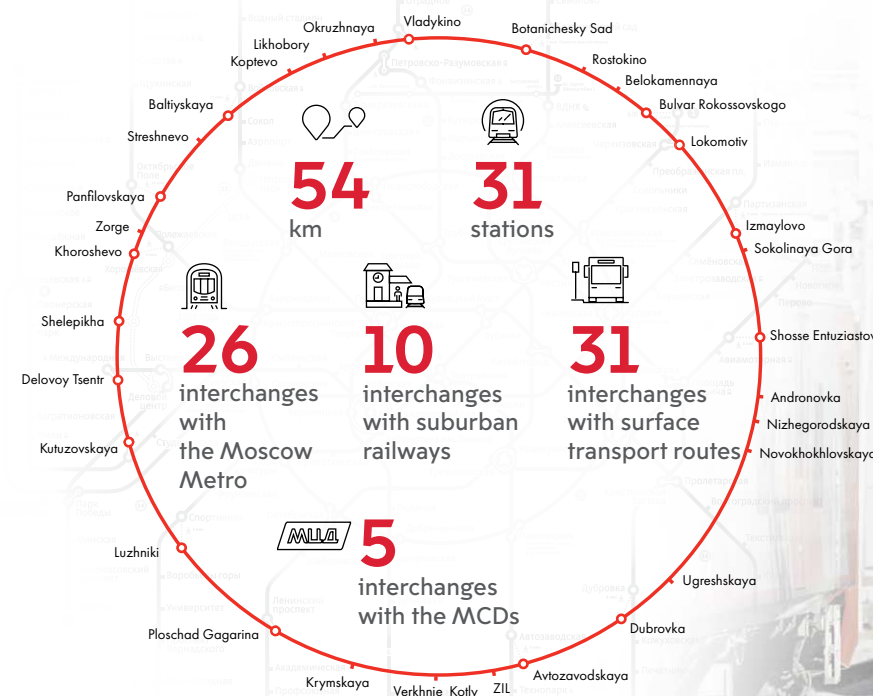
460 million
passengers carried in total

4 min. headway between trains during peak hours since 2019 (6 min. in 2016, 5 min. in 2017) resulting in:

2.2 times
increase in the MCC throughput since launch

15%
load lifted from the Circle line

20%–40%
load lifted from railway terminals



The Rail Framework of the Moscow Metropolitan Area



THE MOSCOW CENTRAL DIAMETERS

Since 21 November 2019

The Moscow Central Diameters (MCDs) are the new metro network for Moscow and Moscow Region residents. This major transport project is being implemented jointly by the Ministry of Transport of the Russian Federation, Russian Railways, the Government of Moscow, the Government of the Moscow Region and the Central Suburban Passenger Company.

132 km

60 stations

20 stations

with interchanges to the Moscow Metro, the MCC and radial rail routes

5-7 min.

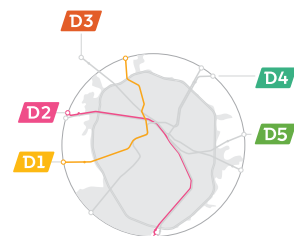
headway between trains during peak hours, from 5:30 am to 1:00 am

Unified tickets and free transfers to the metro and the MCC

for **4.2 million** Moscow and Moscow Region residents

D1 Belorussko-Savyolovsky

D2 Kursko-Rizhsky



Load lifted from metro stations

- 5-12 % Kuntsevskaya
- Fili
- Okruzhnaya
- Tsaritsyno
- 5 % Komsomolskaya
- 3.5 % Park Pobedy
- Kievskaya



Load lifted from major roads

- 5 % Volokolamskoe highway
- Novorizhskoe highway
- Varshavskoe highway
- Simferopolskoe highway

Plans by 2025

D3
MCD-3
Leningradsko-Kazansky

D4
MCD-4
Kievsko-Gorkovskiy

D5
MCD-5
Yaroslavsko-Paveletsky



+2 million
new passenger seats per day



>550,000
passengers per day



+14%
increase in the number of passengers (vs the same period prior to the launch)



203 million
people – expected annual passenger traffic



Up to **7 billion**
roubles saved in total per year by passengers



Up to **44 min.**
saved per day

The new Ivolga train for the MCDs

Specially for Moscow!

Country of origin – Russia

Improved accessibility for low-mobility passengers

Acceleration improved to 0.9 m/sec. (+30%)

Climate control and air purification

11 cars



15

trains of this type (165 cars) already operate on the MDC-1 and the MCD-2

Comfortable upholstered seats, more handrails, warm-touch handrails

Toilet rooms with touch-sensitive sensors and changing tables

A smooth ride with 22% less noise

Walk-through design

Bicycle racks

Wi-Fi connection, USB ports

15% wider doors

Media screens



Convenient Surface Transport

MODERN SURFACE TRANSPORT INFRASTRUCTURE

Today, Moscow buses, trams and electric buses operate on 1,050 routes and carry 7.4 million passengers per weekday. The development of surface transport is focused on modern infrastructure, a smart route network, and next-generation rolling stock.



Tram infrastructure

418 km of tramlines

89%
of tramlines are segregated



Dedicated lanes

4 million
passengers per day on
dedicated lanes

660
routes use dedicated lanes
(63% of total)

39% higher speed on
dedicated lanes

Length of dedicated lanes, km



Next-generation public transport passenger shelters

2,788 passenger shelters
to be set up in Moscow by 2023
(25% of total; 100% of stops will be this type by 2023)



THE ROUTE NETWORK



The Magistral route network

Since October 2016

Magistral is a network of routes
connecting the city centre to outer
districts. Surface transport is a faster
way to travel through the city centre!

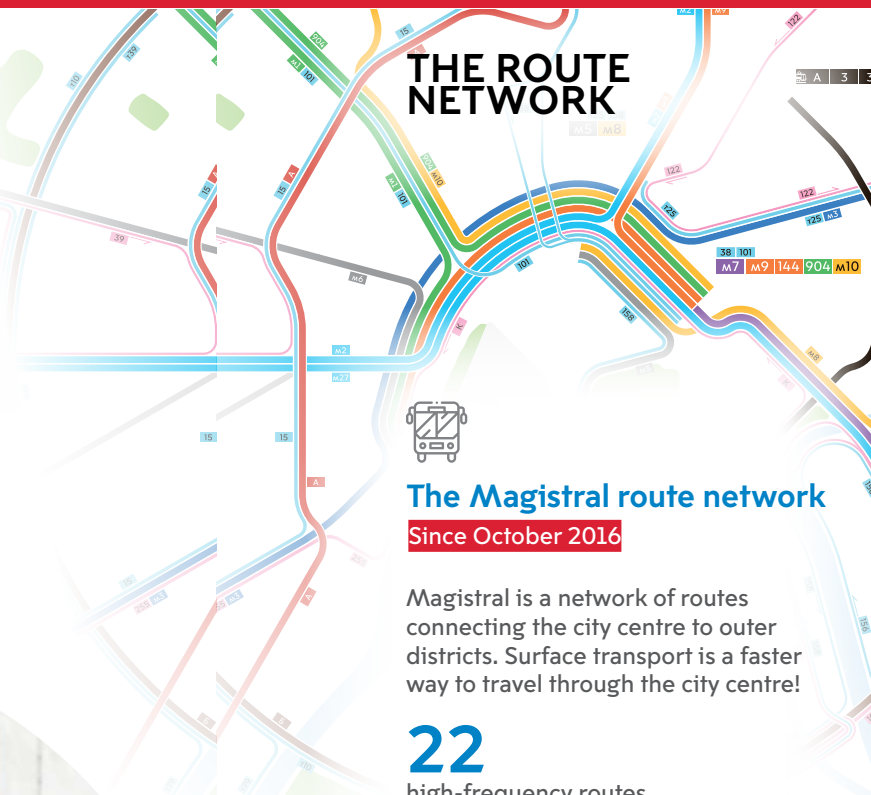
22
high-frequency routes

18
district routes

9
social routes

Up to **3** times
shorter waiting time for buses in the city
centre

540,000
passengers per day (up by 30%)



Night route network

The city centre never sleeps. Night-time surface
transport routes connect the city centre with residential
districts located close to the Moscow Ring Road,
and with Sheremetyevo and Vnukovo airports.

13
night routes, including
three 24-hour routes

68
buses and 6 electric
buses on night routes

3,600
passengers per night –
covering the city's major
routes



Large-Scale Renewal of the Surface Transport Fleet

NEXT-GENERATION ELECTRIC TRANSPORT – A PRIORITY FOR THE DEVELOPMENT OF SURFACE TRANSPORT

Moscow has been gradually replacing its surface public transport fleet. The goal is to shift to modern, fast, energy-efficient, environmentally friendly, comfortable and inclusive vehicles.

The Vityaz-Moskva tram

Since March 2017

Country of origin –  Russia

 Life-cycle contract – 30 years

255 seats
+70% vs previous models

Fleet renewal

New trams









Specially for Moscow!

The Moscow electric bus

Since September 2018

Moscow electric bus is a next-gen, eco-friendly, fast, comfortable and safe mode of transport. From 2021, Moscow will primarily purchase electric buses for its surface passenger services.

Country of origin –  Russia

-  Capacity – >85 passengers
-  Maximum speed – 70 km/h
-  Service life – 15 years (under a life-cycle contract)
-  50 km – drive range
-  6–10 minutes – en-route charge
-  24 minutes to full charge
- 0.96 – availability ratio (+20% vs trolleybuses)
- 99% schedule compliance by electric buses

Fleet development,
number of electric buses



386
electric buses

97
charging stations

29
routes

180,000
passengers per day

Cost-effective (10% less vs trolleybuses)

Low noise pollution (30% less vs buses)

A smooth and quite ride

Improved accessibility for low-mobility passengers

Passenger information system

Climate control

USB ports

Wi-Fi connection



Europe's best, specially for Moscow!



- **No. 1 in Europe** by the number of electric buses (UITP, Brussels, Belgium, 2019)
- Moscow electric buses were voted **the Project of the Year** by the public on the Vehicle of the Year in Russia independent award platform (Russia, 2020)

A Comfortable City for Motorists



INTELLIGENT TRANSPORT SYSTEM (ITS) Since 2014

The command centre at the Traffic Control Centre is a single point of control that manages all modern components of the ITS and road traffic in real time 24/7.



Moscow ITS

3,000

photo and video recording systems

180,000

public CCTV cameras

3,700

speed detectors on roads

40,000

traffic lights connected to the ITS



In 2019, Moscow reached a record-high level of road safety compared to 2010

21%

fewer road accidents involving casualties

42%

fewer road fatalities

21%

fewer road injuries

10%

fewer public transport road accidents

5 times

fewer car thefts

3.5 times fewer accident cluster sites

Twofold

decrease in social risk rate since 2010¹

2,343

human lives saved

¹ Road fatalities per 100,000 residents.



• Moscow is among **the world's top 5 cities** by the number of CCTV cameras (BCG, Development of Comfortable Urban Environment in Moscow and Leading Cities Worldwide, 2018)

• Moscow is **No. 1 in Russia** for road safety

2010–2019

TRAFFIC MANAGEMENT



Traffic schemes revised

along **3,500 km**

of the street and road network



100,000

road signs repaired or installed annually



~3,000

pedestrian crossings built or renovated



>50,000

traffic management proposals from citizens processed



2011–2019

NEW ROAD INFRASTRUCTURE



915 km

of new roads



295

new bridges, tunnels and overpasses



243

new over-ground and underground pedestrian crossings

Since December 2012

MOSCOW'S UNIFIED PARKING SYSTEM



Parking priority to local residents

• 82,000 resident parking permits



85,600

paid parking spaces within the street and road network (including 9,500, or 11%, for the disabled)



14,300

parking spaces at park-and-ride facilities



21,100

parking spaces in at-grade parking lots with lifting gates



MOSCOW TAXI

Reformed in 2011

Moscow Taxi has celebrated its 112th anniversary. However, the revival of Moscow Taxi only started in 2011 with the adoption of a **single standard** for Moscow taxis to ensure a safe and seamless passenger experience. The service has become increasingly popular, with shifts in demand as Muscovites often choose taxi for last-mile journeys, short business trips or trips around the city centre.

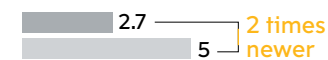
Number of taxi passengers,
million per day



Pick-up time during peak
hours, minutes



Average age of a taxi,
years



Average taxi fare,
RUB



>1
million
passengers
per day

52,000
taxis accredited by
Moscow authorities

Subsidies
900
million
roubles

36,500
subsidised car
purchases

Infrastructure
1,546
free-of-charge
taxi parking
spaces at 450
parking lots

350 km
of dedicated taxi
lanes

An orange taxi roof light

Checkerboard trim

Yellow colour

A yellow license plate

80 billion roubles
of private investment in taxi
development since 2011

MOSCOW CAR SHARING

Since 2015

Moscow's short-term car rental system (Moscow Car Sharing) is an example of the sharing economy that offers an **alternative** to personal car ownership and allows users to save on the total cost of ownership.



Electric car sharing

Since 2019

50

cars in the fleet



Subsidies

Since 2018

30,000
cars

>52.3
million roubles



Infrastructure

86,500
parking spaces free for
users

230,000
passengers per day

>3,600
subsidised car purchases

Free parking at paid public parking spaces for users

Pay per minute or per hour

Maintenance and inspections

Fuel and car wash

Motor third party liability insurance (OSAGO)



>15 billion roubles
of private investments in the
project



No. 1 globally by the number
of car-sharing vehicles
(Autostat, Russia, 2020)



BIKE AND E-SCOOTER SHARING SYSTEM

Since April 2013

Since 2018

Bicycles and scooters are popular last-mile transport options and an excellent way to keep fit! Since 2013, a wide network for the rental of city bikes and e-scooters has been created, along with all necessary infrastructure for a seamless and convenient user experience.



Infrastructure

850 km
of bike paths and lanes on the road network and in parks (taking into account dedicated lanes),

including the **9 km**
bike lane on the Boulevard Ring

11,300
parking racks for private bikes



Rental e-scooters

Since 2018

3,250

e-scooters

3,000

rides per day during the season

300

million roubles
of private investment in fleet development



Public bicycle rental system

Since 2013

6,511

bikes across 629 rental stations, including:

429

e-bikes

79

districts covered (54% of Moscow)

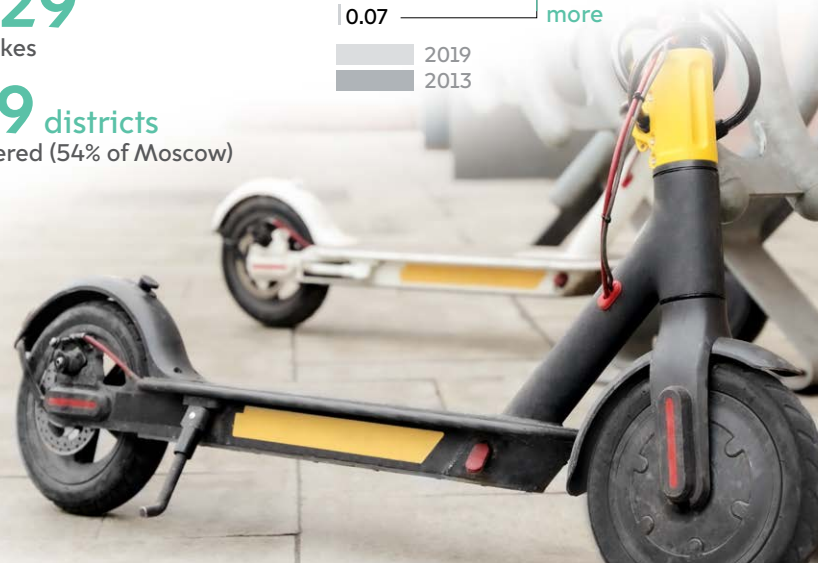
100,000

bike festival participants annually

Number of rides per season (April–October), million

0.07 — 5 — 64 times more

2019
2013



Moscow **Nº 1** in Europe by trips per city bike (seven rides)

SPACE FOR PEDESTRIANS

Since 2011

People and pedestrians are at the forefront of the entire transport system. When travelling by any mode of transport, we all become pedestrians for a minute or more when we step onto the street. Since 2011, a comfortable pedestrian environment and pedestrian connections have been developed during the reconstruction of any street, with some streets completely pedestrianised.



410

streets, squares, major routes and public spaces have been renovated and reconstructed since 2011 (361.5 km)



341

special transport schemes designed and completed



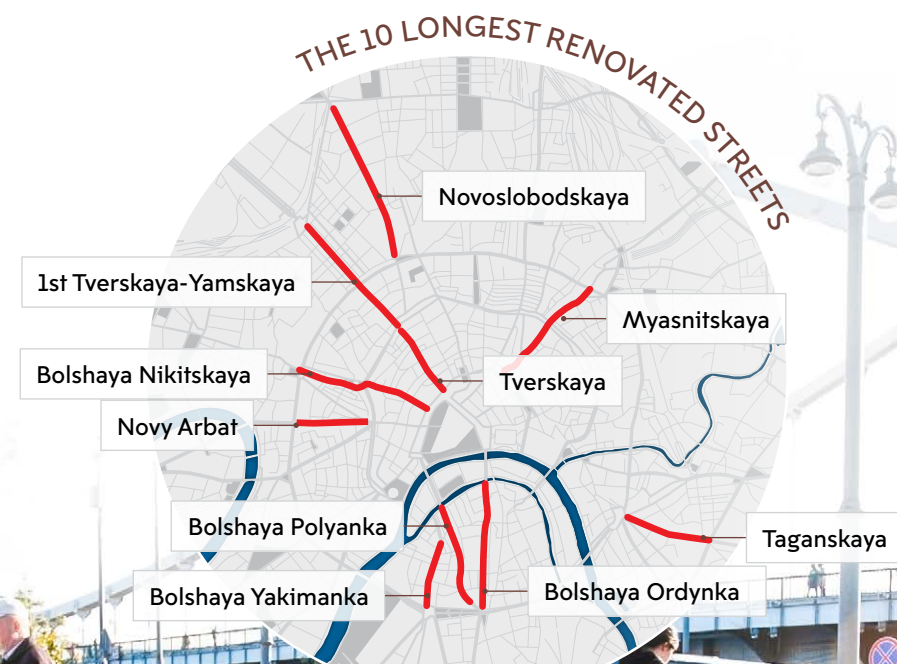
>800

next-generation navigation pylons in Moscow streets



Twice

as often Muscovites have started to walk on the Moscow streets (in summer – 5 times more often)



Moscow has become a pedestrian-friendly city!

Smart Services of Moscow Transport

Moscow Transport offers the world's leading-edge passenger services, already successfully user-tested and recognised by a series of prestigious global awards.



Free Wi-Fi on public transport (MT_FREE) Since 2014

MT_FREE is Europe's largest public transport Wi-Fi network. It covers all metro trains, surface transport fleets, new passenger shelters, the MCC, the MCDs, as well as all Aeroexpress trains and terminals.

100%
Moscow coverage

>4 million
Wi-Fi sessions on Moscow transport every day



Universal travel card: Troika Since 2013

The Troika card can be used to travel by any mode of public transport, to rent a bike, and to visit museums and ice-skating rinks around Moscow. Since 2018, a loyalty programme has been in effect for cardholders on the Wallet plan.

94%
passengers pay for their trips with a Troika card

>32.5 million
Troika cards issued

Before end-2020, Troika will become:

- virtual
- personalised

10
top-up methods

850,000
loyalty programme users



Moscow Metro Public Wi-Fi was the **world's first** high-speed data network to be installed on metro trains (WiFi Industry Awards, USA, 2015)



A smart fare collection system Since 2013



No. 1 globally
for the Best Smart Ticketing System
(Transport Ticketing Global, London, UK, 2020)

9 payment options



Troika card



Fobs, bracelets, rings and other accessories with Troika card functionality



Troika – Strelka (Moscow – Moscow Region) and Troika – Podorozhnik (Moscow – Saint Petersburg) integrated cards



Co-branding partnership with banks



Contactless bank cards



Bank cards via smartphone



Paper tickets



A Mobile Ticket function for NFC-enabled smartphones



Social cards

Mobile apps Since 2017

5

mobile apps

~9

million downloads



Moscow Transport
Since 2019

An integrated transport app for Moscow that combines all types of transport services on a MaaS basis



MosMetro
Since 2017

Everything about the Moscow Metro, the MCC and the MCDs: a map, a journey planner, payment, information, feedback and news



Moscow Parking
Since 2012

To find and pay for parking; to pay fines for traffic violations, subscription and residence permit fees; and to get information on impounded vehicles, etc.



Moscow Assistant
Since 2016

For residents to report parking violations



Velobike
Since 2013

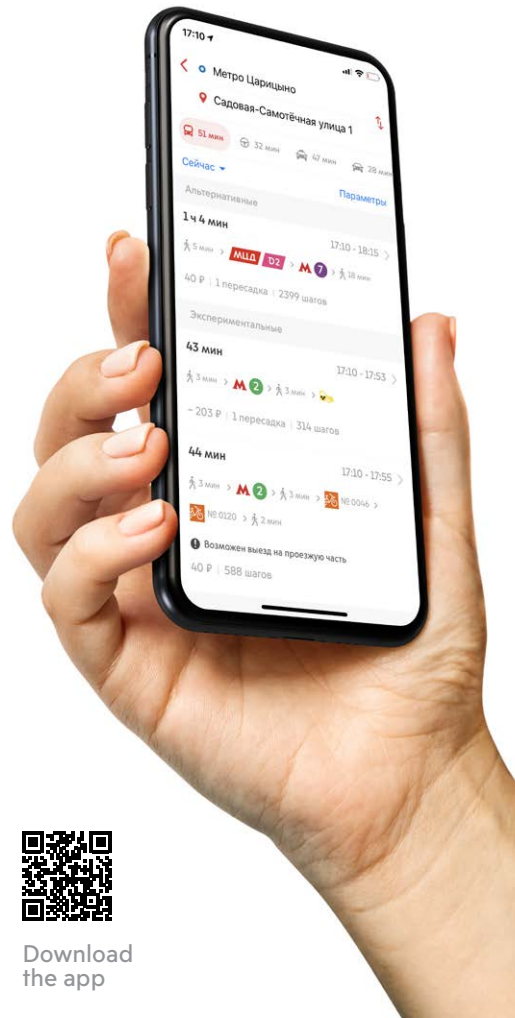
To search for the nearest bike-sharing station, to plan a route, to pay for hire and to get assistance in case the bike breaks down



Download the app



No. 12 globally
(among 704 software products) for the innovative solutions offered by the Moscow Assistant mobile app



Contacts

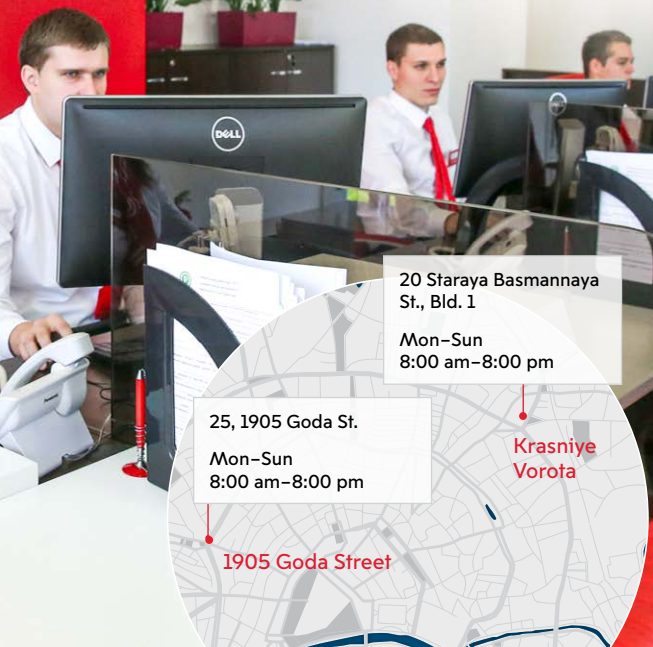
MOSCOW TRANSPORT SERVICE CENTRES



Consult these centres on any matters related to:

- public parking lots
- the operation of Moscow Transport
- fares
- appealing against administrative offence resolutions
- reclaiming impounded vehicles, etc.

КОВСКИЙ
спорт



20 Staraya Basmannaya
St., Bld. 1

Mon–Sun
8:00 am–8:00 pm

25, 1905 Goda St.

Mon–Sun
8:00 am–8:00 pm

1905 Goda Street

Krasniye
Vorota



Moscow Transport's contact centre

+7 495 539 5454

3210 (Beeline, MTS, MegaFon, Tele2)

Please contact us for any questions regarding the operation of and services provided by Moscow Transport.



Moscow Since 2020 Transport Portal

transport.mos.ru

Moscow Transport services are divided into sections for passengers, motorists and business people.

Visit the website to:

- create a personal account;
- save the data of several Troika cards at once;
- top up a Strelka card;
- check for fines, taxi licenses, or truck passes;
- find available car-sharing vehicles;
- subscribe to news and to receive personally selected information, etc.

Moscow Transport on social media



[t.me/](https://t.me/DtRoad)

DtRoad



[vk.com/](https://vk.com/transportmos)

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