



# Urban transportation did not reduce the volume of work during the pandemic

### March 1, 2020

First COVID-19 case recorded in Moscow

#### 28 march 2020

A non-working period was introduced by the decree of the President of the Russian Federation

## 15 April 2020

To prevent the spread of the disease, an access control has been introduced in Moscow; car sharing has been suspended

## 22 April 2020

A system of automated surveillance over access control has been introduced in Moscow

## June 9, 2020

First stage of lifting restrictions is the abolition of access control and travel restrictions; resumption of car sharing

## June 16, 2020

Second stage of lifting restrictions

## 23 june 2020

Third stage of lifting restrictions - river transport companies are back at work

## Today

- Increased requirements to sanitary measures
- Using public transport is
- possible only while wearing a mask and gloves
- Transport infrastructure and rolling stock are regularly disinfected. All employees are
- provided with safe working conditions;
- most of the employees were transferred to work from home;
- regular medical
- monitoring and testing



# The major technological solutions to prevent the spread of COVID-19



The Mayor of Moscow Sergei Sobyanin



Weactually saved thousands of lives, ensuring safety in transport, observing sanitary security measures, multiplying the disinfection of cars and transport hubs. This is a great contribution to the safety of citizens,

a huge contribution to the development of the economy, as we have preserved the transport infrastructure, which is a vital sphere for the city.

# The Transport Complex provided safe access to urban mobility





### Integration

- The automated permit control system on all types of urban transport
- · The Troika card provides access to public transport services
- The online access to a permit registration

### Complexity

- The automated permit control at all infrastructure facilities
- The Moscow Assistant mobile app entered the Top-12 of the best innovative solutions in the world for fighting against COVID-19
- The access to a permit check via the Moscow
- Assistant mobile application and the Unified Transport Portal
- The automatic violating cars' detection system -5000 cameras



# **Ensuring safe urban mobility**

# Every day we disinfect





900 000

square meters cleaned daily disinfected in the subway

100%

trains are disinfected by quartzing

Up to 2 times more

air filters in trains with built-in air conditioning are changed

100%

of the interior surfaces are treated with

special disinfectants

the day at the final stops of the route

buses, electric buses and trams are

disinfected every time they return to the vehicle fleet or depot, as well as during

30%

more air exchange In the underground

> 1600

ticket machines are washed every hour

1,5-2

hours, frequent disinfection of handrails, turnstiles, door handles, checkout areas in lobbies and on platforms is carried out





The regular disinfection of vehicles

The "new norm" of urban transport operation

Mandatory use of masks and gloves

Regular communication on safety rules Social distancing

Hand sanitizers at metro, the MCC and the MCD stations - 2 800 units

Hand sanitizers at major surface transport stops - 125 units

Contactless payment



# Informing passengers

- Moscow Transport publishes only verified information in its official channels:
- The Unified Transport Portal (in Russian and English)
- The official **Telegram channel** has more than **57,000** subscribers
- Our official social media accounts have over 200,000 followers - Twitter, Facebook, Instagram, VK, OK











#### Communication channels:

- 110,000 posters inform about the prevention of Coronavirus
- **36,000 information materials** remind metro passengers about linking electronic passes to
- 40,000 warning stickers remind passengers of social distancing in public transport
- 3,800 media screens inform ground transport passengers about travel rules during the pandemic
- 177 traffic signs and 10,000 leaflets remind drivers to issue digital passes

- √ 99% of passengers wear masks
- ✓ 76% use gloves









# Despite the restrictions being lifted, Moscow transport continues to care about muscovites





- Safe use of all types of urban transport is ensured
- Cleaning regulations are permanently changed
- Passengers will be able to renew their tickets at ticket offices, ticket machines and online





## **Employees**

- Some of the employees were transferred to work from home
- The necessary protection system has been created in the working areas - regular testing, temperature measurement, disinfection and use of PPE and antiseptics

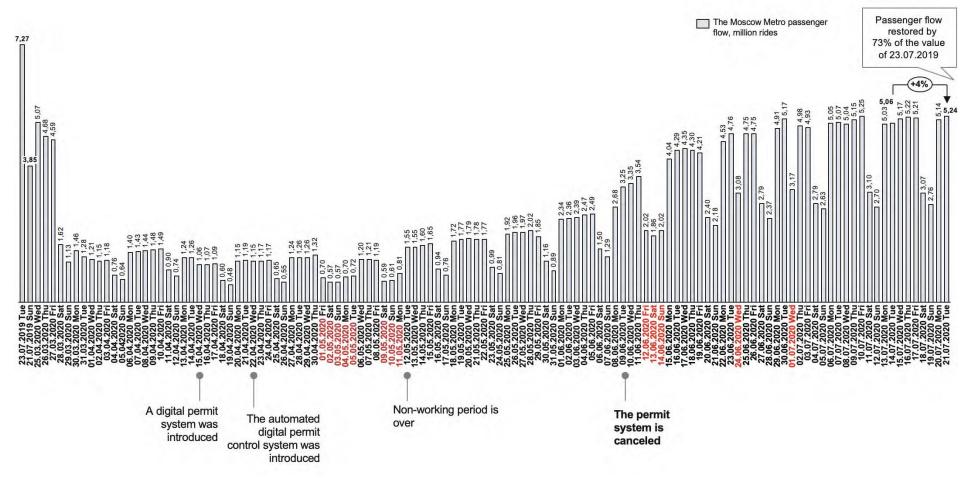




# **Transport operators**

- The implementation of infrastructure megaprojects and the purchase of new rolling stock to ensure the availability of high-quality and safe public transport
- Private carriers get paid in full transport service for people works full time

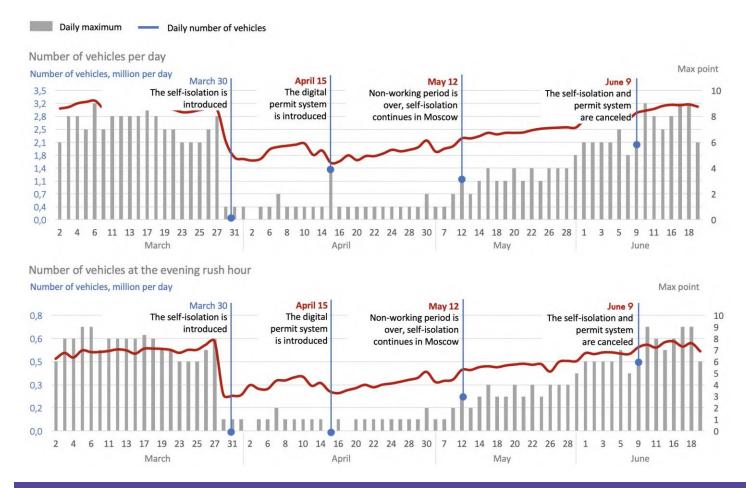
# The Moscow Transport passenger flow (compared to the period before self-isolation)



Timely restrictions have helped to dramatically reduce the number of contacts and cases of COVID-19



# The number of vehicles and road congestion



#### The increase in the number of cars is:

- Increased road congestion
- Growth in the number of road accidents
- Increased emissions of CO2, NO2 and particulate matter
- → poor quality of life

The use of public transport must be supported





Private vehicle **#** Personal safety



# New working conditions for urban transport



# Monitoring the load of rolling stock

- The automated passenger traffic monitoring system works in real time
- In the Moscow Transport mobile app the function of determining urban transport congestion has been implemented for passengers
- Optimal distribution of passenger traffic transport from the least loaded routes is redirected to more in-demand routes
- The most popular routes operate with the maximum amount of rolling stock on the line



# Alternativ e mobility

- Residents began to walk and ride bicycles more often
- · Bicycle rentals have a 30% discount
- · City bike rental is free for couriers and volunteers
- More than 2 000 applications were received in the course of the implementation of a crowdsourcing project for the development of pedestrian and bicycle infrastructure



# Citizens' safety

- Most of the client services are being converted to online format
- Access to PPE and disinfection is provided throughout the infrastructure
- Floor stickers remind on the observance of the distance and indicate more free cars
- · Seat stickers help choose the safest seat



## The experiment on the Line 7 of the Moscow Metro

- The launch November 2020
- By 50% reduced fee off peak hours

• Employers and educational institutions are encouraged to switch to remote work or change the start time of a working day





# Moscow continues to invest in rolling stock renewal (2010-2023)\*

		2010-2020 (June)	Renewal, %	2020	2021	2022	2023	Total	Renewal, %
	Bus	Mosgortrans (including tourist routes) Carriers under 10 454 government contracts	100	1345	888**			2 233	100
(2)	Tram	495	70	70	60	144	50	324	100
	E-bus	400	New mode of transport	300	600	650	800	2 350	
M	Metro cars	3 189	62	551	337	336	328	1 552	80
	Suburban tra	ains' cars 3202	60	441	184	352	605	1 582	80
T	Taxi (in Mosc	ow) ~70 000*		5 000	12 000	12 000	12 000	41 000	
(1)	Car sharing	32 000		2 000	4 000	5 000	5 000	16 000	
(sto)	Bike sharing	6 100		1 000	1 000	1 000	1 000	4 000	



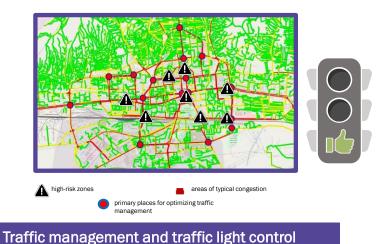
\* As of June 15, 2020

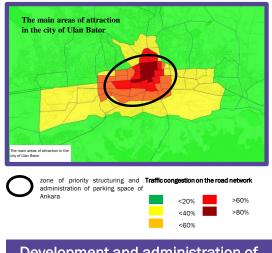
<sup>\*\*</sup> Current permits for taxi operation as of 15.06.2020: in Moscow -52 333, in Moscow Region -85 892.

<sup>\*\*\*</sup> Buses of large and extra-large capacity for the transition period from 2020, as well as transport within the framework of the mobilization task

# Transportation strategy of Ulaanbaatar city



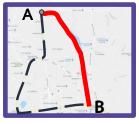




Development and administration of parking space

#### Achievable result:

- Reducing the number of road accidents with injured by 15%.
- Reducing the load on the transport network in the central part of the city by 12 %





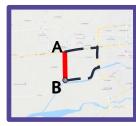


Connection of Unesco St to Bolgarin Gudamj by tunnel via Peace Ave

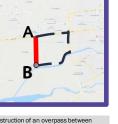


Connection Ave. Mira from Narny Zam street and construction of an overpass to Hunnu Gudami street

17400 v/day



Construction of an overpass between prosp. Mira and CHPP-4 Inn Deputy





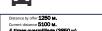




12300 v/day



8600 v/day



Development of the road network



Availability of public transport

Walking distance accessibility of

a GUPT stop within a radius of

500 m

Microdistricts with a low level of

pedestrian accessibility of SUPT