




**Encouraging the regional cooperation for the utilization of transport big data from smart transport systems**

# PUBLIC TRANSPORT OF TASHKENT CITY

 **2,7** Residents of Tashkent city **2** Mobile layer of the population  
mln mln

 **1,4** Residents coming from the region  
mln

**3,4** Daily moving socially active population  
mln

 **1,2** million passenger **700** thousand pop. **21** percent

Passengers in public transport

466 thousand (40%) bus 420 thousand (36%) metro  
120 thousand (10%) minibus 166 thousand (14%) taxi

 **2,7** million person **79** percent Socially active population using private transport

## Public transport of Tashkent city



Bus

**1 248** rolling stock units  
**7,1** years average age  
**141** routes

“Toshshahartransxizmat” JSC

**1 179** bus units

**132** routes

**Private sector**

**69** bus units

**9** routes



Metro

**64** metro-train units

**4** routes

### Private sector



Minibus

**751** minibus units

**72** routes



Taxi

**10 212** taxi units

**400** transport companies



Personal vehicle

**613** thousand in city

**150** thousand from regions

# PRACTICAL MEASURES FOR THE DEVELOPMENT OF PUBLIC TRANSPORT IN THE CITY OF TASHKENT



## RENEWAL OF ROLLING STOCK

In 2022: Renewal of rolling stock due to the purchase of **410** buses and electric buses



**277** buses and ev buses purchased  
**67** routes established



**20** electric buses purchased



**187** SAZ LE 60 buses purchased



**70** MAN A22 buses purchased



## NEW ROUTES NETWORK

**167** new directions established

**22** directions have been set on :

- **1** magistral
- **3** ring road
- **6** connecting roads
- **12** route delivery

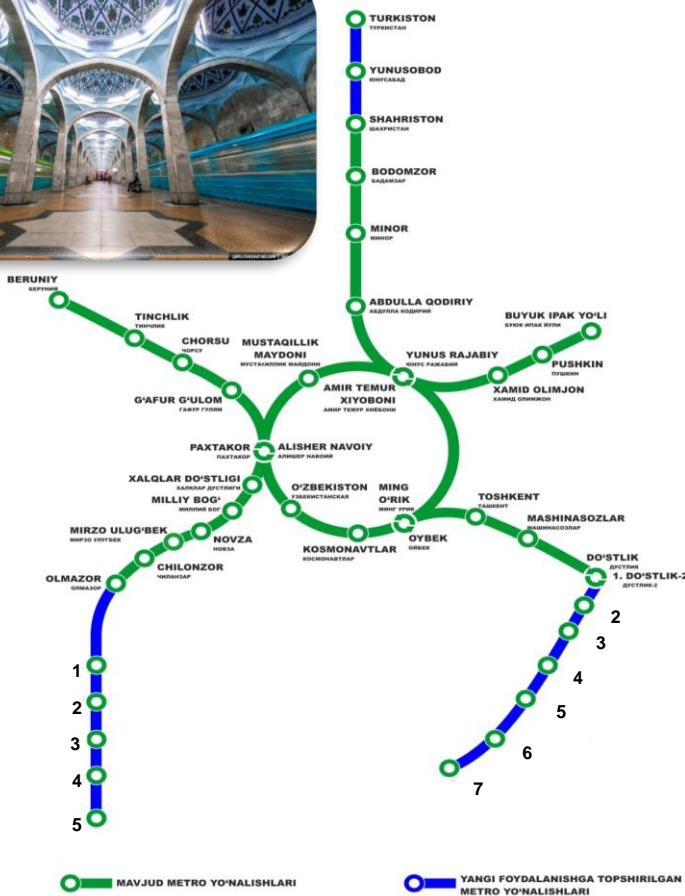


## INCREASING THE PERMEABILITY OF THE ROAD NETWORK

**139** intersections with developed projects;  
**24** intersections have been completed with construction and assembly works;  
**15** intersections are ongoing construction and assembly works;

**13** corridor capacity improvement projects have been developed (25 streets with a total length of 190.4 km)

# Works carried out on the development of public transport in Tashkent city



Chilonzor route – 16,2 km

Uzbekistan route – 14,9 km

Yunusabad route – 10,0 km

Ring route - 11,7 km

Sergeli route – 6,2 km



## Total length

2016 year **36,2 km**

2022 year **59,0 km**



## Number of routes

2016 year **3**

2022 year **5**



## Number of stations

2016 year **29**

2022 year **43**

**10-15** minutes

2016 year



Interval time

**3-4** minutes

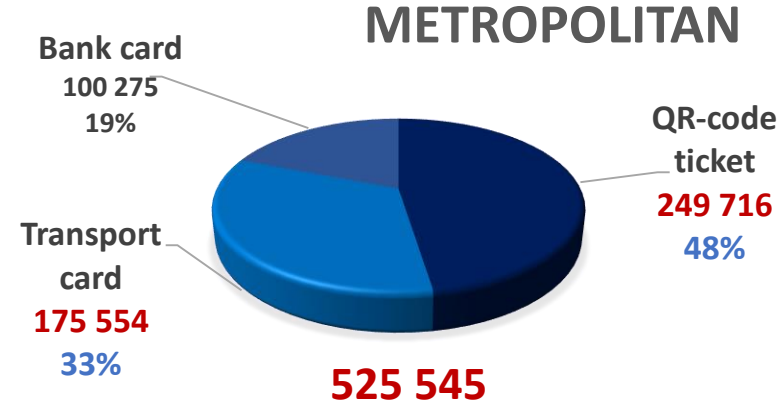
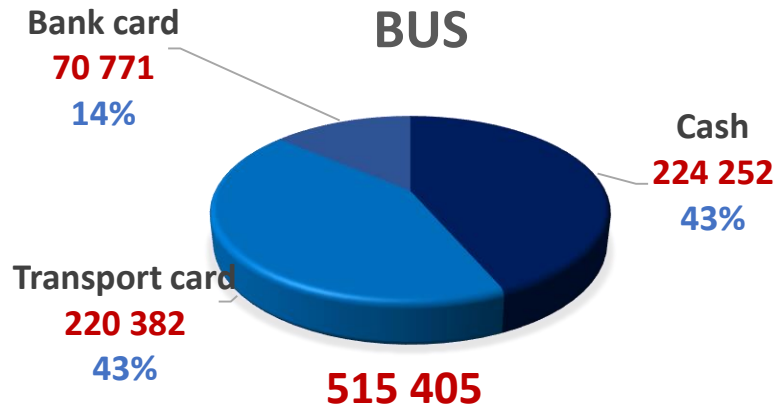
2022 year

➤ The length of the **Tashkent metropolitan** area rose from the **8th place** to the **4th place** among the **CIS countries**.

# AUTOMATED PAYMENT SYSTEM

NUMBER OF TRANSPORTATION CARDS IN USE – **more than 1 mln. units**

## AVERAGE DAILY PAYMENTS (TRANSACTIONS)



- Payment options
- ATTO transport cards
  - ATTO Virtual Cards
  - HUMO
  - UZCARD
  - VISA
  - Master Card
  - China Union Pay
  - QR Pay
  - Android NFC Pay
  - Click

BANK CARD PAYMENTS INCREASED BY 256% COMPARED TO THE SAME PERIOD OF THE LAST YEAR

PAYMENTS THROUGH THE ATTO SYSTEM INCREASED BY 36% COMPARED TO THE SAME PERIOD OF THE LAST YEAR

To popularize the automated payment system and create convenience for passengers

## IMPLEMENTATION OF TAP IN/TAP OUT SYSTEM (DISTANCE STRATIFIED TARIFF) AT METRO STATION



## TRANSIT TRANSPORT TARIFF

Making it possible to use several bus routes within 60 minutes through one payment (0,12 USD)



60 min



20% DISCOUNT FOR TRANSPORT CARD PAYMENTS



## PAYMENT CONTROL

- Road toll payments-carried out through bank and ATTO transport cards as well as online payment systems;
- Cash payments are recorded through the mobile terminal system;
- An analysis of the flow of passengers is carried out through the payments received in the time section.



## OPERATIONAL ACTIVITY AND RESOURCE CONTROL

- Fuel consumption controlled;
- Departure time is recorded;
- The running track is controlled;
- Analysis of the flow of transported passengers is carried out;
- Spare parts and residual digital account;
- Electronic road sheet.



## ASDUM

### CONTROL AND MANAGEMENT OF ROUTES OF MOVEMENT

- Compliance with the roadmap is monitored;
- Movement speed is controlled;
- The interval is controlled;
- Provides information to passengers about the time of arrival of routes at the station;
- Provides real-time information of district, city about the situation with public transport in each region;
- Operational analysis of the coverage of the territory by public transport.



# PURCHASE OF MODERN COMPRESSED NATURAL GAS (CNG) BUSES

## Chinese credit lines of financial institutions "NBU"



**210** mln. USD  
(1,5 bln. Yuan)



**10** year credit term



Under the guaranty of the government

**12 m**  
for the city of Tashkent



**1 000**

Passenger capacity: 90 (32+58)

Fuel consumption: 70 m<sup>3</sup>/100 km

Compressed natural gas-powered buses made in China

**10.5 m**  
for Regional centers



**1 000**

Passenger capacity: 80 (28+52)

Fuel consumption: 35 m<sup>3</sup>/100 km



Fuel consumption of modern buses, working on compressed natural gas, and 3 times economic than buses, working on diesel.

Specifications for buses developed and agreed with the National Bank.

A project for the purchasing of buses has been developed and approved

**2000**  
buses

A shortlist of Chinese bus manufacturers has been formed to determine their capacity

International tender for the purchase of buses was held and a contract signed with the winning company Yutong

# The project of modernization of public transport

## Additional measures for the further development of the public transport system

- Renew of the buses fleet
- Route network
- Dedicated lanes
- Stops
- Bike paths
- Traffic jams
- Paid parking
- Private transportation



### Results of changes

These measures will increase the use of public transport by 2 times, the intervals in the movement of buses will be reduced from 25 minutes to 12 minutes. The average duration of bus use will be reduced from 7 to 3 years.