



# Project for Modernization of Public Urban Transport in the City of Belgrade - PROMOD



Japan International  
Cooperation Agency



CITY ADMINISTRATION  
CITY OF BELGRADE  
SECRETARIAT FOR  
PUBLIC TRANSPORT

Since 2003, when Japan donated the “yellow buses” to the City of Belgrade, our longstanding cooperation has continued and is definitely an important field in relations between our friendly countries.



Cooperation in the field of public transport in 2003:  
Japanese buses saved GSP in 2003



Cooperation in the field of public transport PROMOD  
commenced in 2020:  
Japanese buses still in use



# Project for Modernization of Public Urban Transport in the City of Belgrade - PROMOD



November 2020 - October 2023



CITY ADMINISTRATION  
CITY OF BELGRADE  
SECRETARIAT FOR  
PUBLIC TRANSPORT



- **Expected Results:**

1. The capability of operation planning of Secretariat for Public Transport (SfPT) is improved
2. The ability of monitoring operators of SfPT is improved
3. The share of fare revenue in public transport funding is improved

- **Pilot Project**
- **Webinars**
- **Seminars**
- **Visit to European countries and get acquainted with their PT**
- **Visit to Japan and get acquainted with their PT**





# ORGANIZATION OF PUBLIC TRANSPORT IN BELGRADE

City Administration of the City of Belgrade  
**SECRETARIAT FOR PUBLIC TRANSPORT**



## Secretariat for Public Transport – activities

Secretariat for Public Transport - part of the City Administration, one of 26 Secretariats, **124** employees are planned :

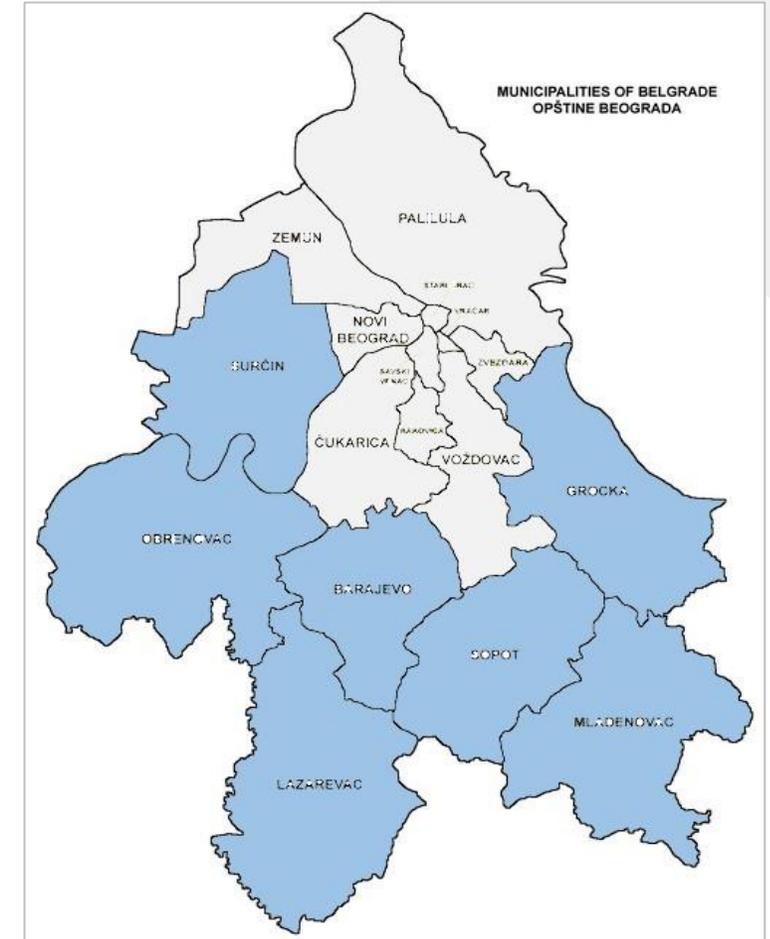
- organization, planning, operation and use of the public line passenger transport (PLPT);
- organisation of City Rail (Bg train) lines;
- organization and operation of taxi transport;
- energy efficiency improvement of PT system;
- introduction of new technologies in the area of PLPT and passenger information;
- public transport regimes under regular conditions and under conditions of temporary constraints;
- traffic-related technical guidance for planning documents and implementation of unified procedure for the preparation of technical documentation;
- tariff policy and revenue control;
- other activities within the scope of its jurisdiction in accordance with the law.

## Public Transport in Belgrade – jurisdiction area

Public passenger transport is conducted in the administrative area of Belgrade:

- organized in 17 municipalities (10 urban i 7 suburban),
- on an area of 3 220 km<sup>2</sup>,
- with 1 659 440 residents.

| Urban municipalities  | Suburban municipalities  |
|---|--|
| Stari grad<br>Vračar<br>Savski venac<br>Rakovica<br>Zvezdara<br>Novi Beograd<br>Čukarica<br>Voždovac<br>Palilula<br>Zemun | Obrenovac<br>Barajevo<br>Sopot<br>Mladenovac<br>Surčin<br>Grocka |



# Public Transport in Belgrade – history

1892.  
First horse-drawn tram



1925.  
First bus line



1894.  
First electric tram line



1947.  
First trolleybus line

2016.  
First e-bus line



2027.  
First metro line



## Public Transport in Belgrade – general information

Public transport operates within an integrated system comprising: integrated network, schedules, fare types and collection, management.

Number of passengers/day (journeys/day) in the public transport: **2.63 million**.

Number of ride/passenger during the working day averages **2,97**.

In daily operation: **1.748 vehicles**.

Number of departures: **30.500 departures** daily on all lines.

Daily distance travelled: **470.000 km** in total for all vehicles.

Number of stops: more than **5.300** registered stops

Zones system: **4 tariff zones**.

Taxi transport is performed with **6.008** vehicles, **6.020** taxi drivers, and number of taxi ranks is **157**.

Operating hours: daily lines 04-24h, night lines 00-04h.

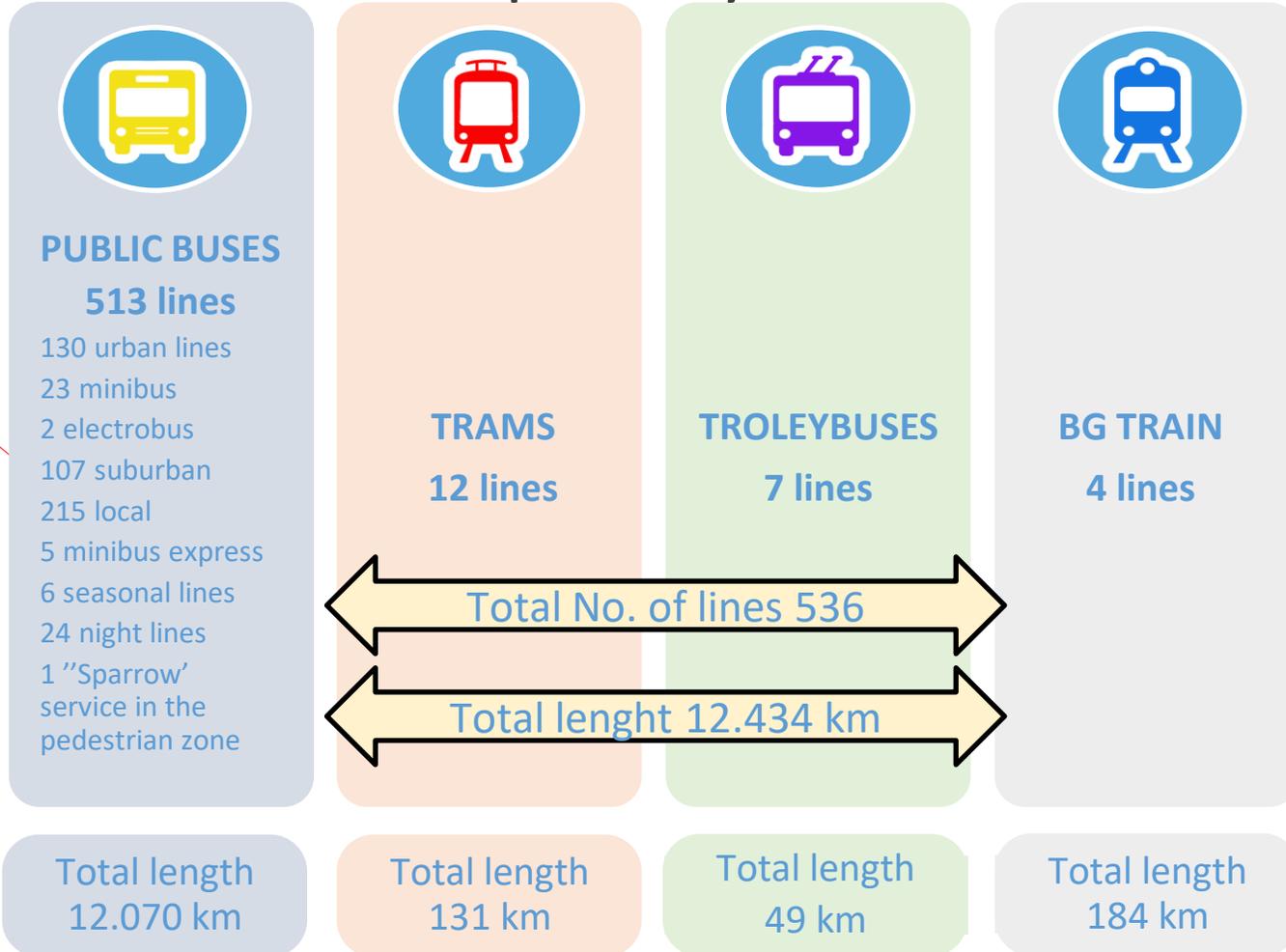
Operators in the system: PUC GSP “Beograd”, Consortium Ariva litas, Consortium Avala bus 500, Consortium SP Lasta, JSC „Srbija voz”

Contract with operator for Fare Collection and Vehicle Management System of PT

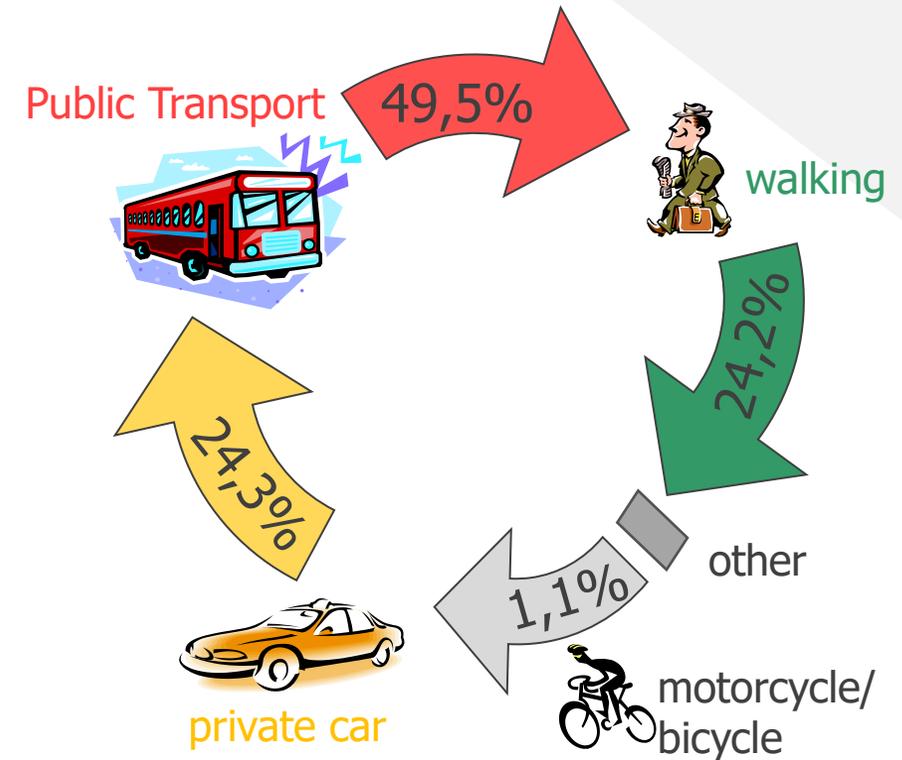


# Public Transport in Belgrade – general information

Public Transport sub-systems includes:



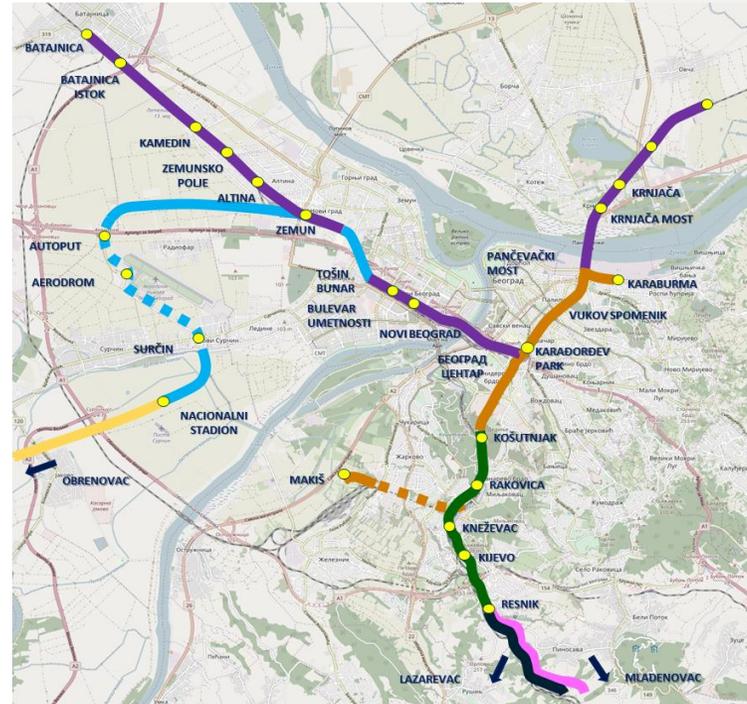
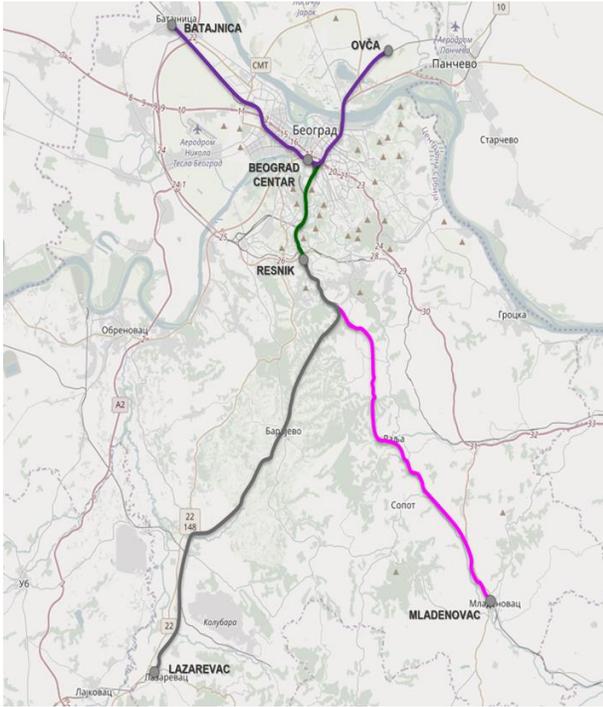
Modal split in Belgrade\*:



Daily mobility in Belgrade is **1.94 journeys** on a working day per person\*.

\* source: BELGRADE SMARTPLAN (2017)

# Urban railway – BG:train existing and planned lines



| Existing BG:train lines | Lenght [km]  | Number of stops |
|-------------------------|--------------|-----------------|
| Batajnica – Ovča        | 31.3         | 15              |
| Resnik – Ovča           | 23.0         | 11              |
| Mladenovac – Ovča       | 62.0         | 19              |
| Lazarevac – Ovča        | 68.0         | 19              |
| <b>TOTAL:</b>           | <b>184.3</b> | <b>64</b>       |

| Planned lines until 2027.         | Lenght [km] | Number of stops |
|-----------------------------------|-------------|-----------------|
| Makiš – Karaburma                 | 13.7        | 8               |
| Novi Beograd – Nacionalni stadion | 22.4        | 8               |
| Nacionalni stadion – Obrenovac    | 24.0        | 5               |
| <b>TOTAL:</b>                     | <b>60.1</b> | <b>21</b>       |

# Belgrade metro project – planned construction costs

**LINE 1: 21.8 km + 21 STATIONS**

**COSTS: 2,3 bill € \***



Depot : Makiš

**LINE 2: 23.1 km + 25 STATIONS**

**COST: 2,1 bill € \***



Depot : Makiš + Bežanija

**LINE 3: ≈ 24 km + 22 STATIONS**

**COSTS: 2,5 bill € \***

**TOTAL: 6,9 bill € \***



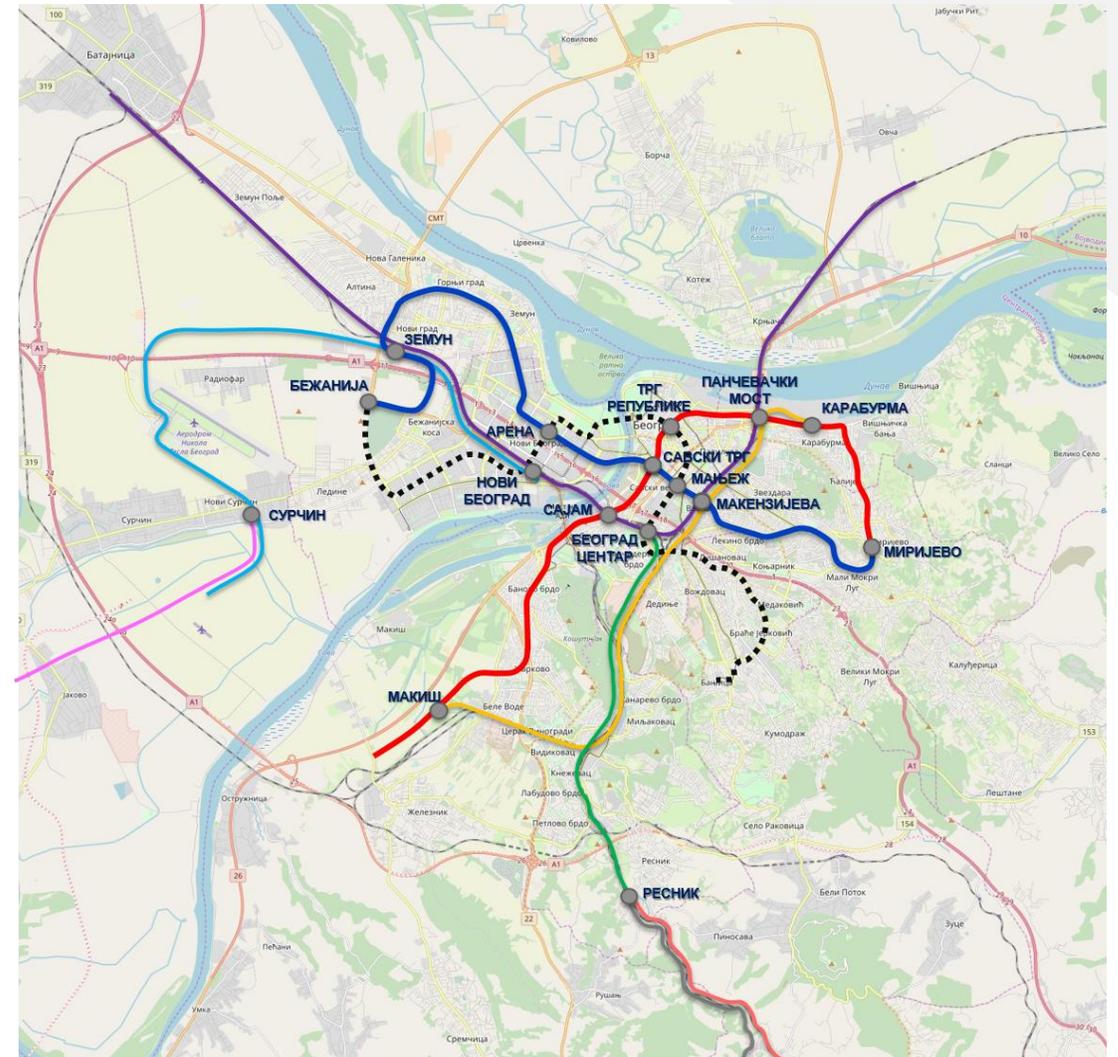
Depot : Makiš + Bežanija

\* construction costs defined in the General Design (May 2019.)

# Belgrade metro project – planned integration with BG:train system

Planned Bg:train and metro system with transfer stations:

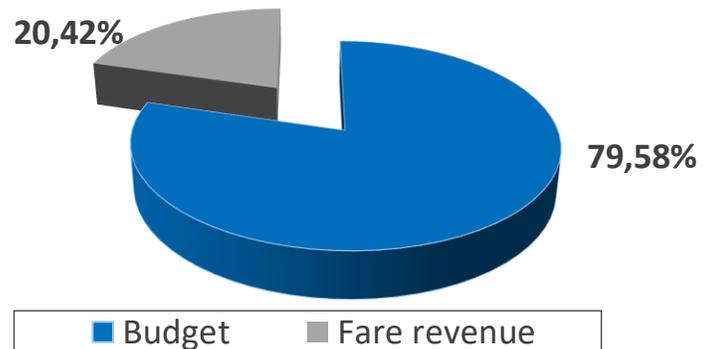
- Metro lines
  - Line 1
  - Line 2
  - - - - Line 3
- Urban railway
  - Line 1
  - Line 2
  - Line 3
  - Line 4
- Suburban railway
  - Line to Mladenovac
  - Line to Lazarevac
  - Line to Obrenovac
  - Transfer stations



# Public Transport in Belgrade – funding



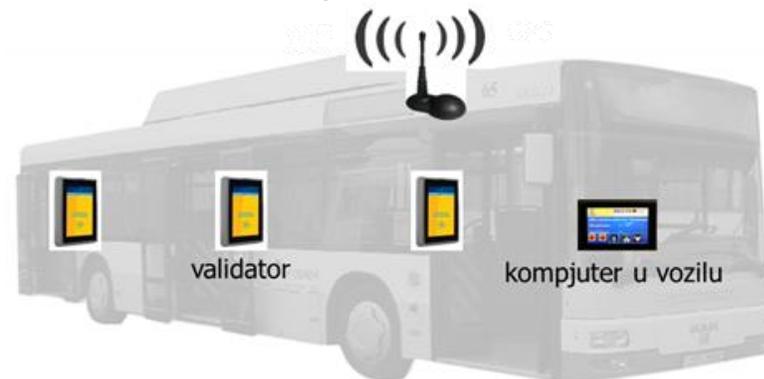
Share of budget funds and fare revenue in PT in 2021. (without capital investments)



# Subsystem for vehicle management with passenger information system – general information

Sub-system for vehicle management with passenger information systems includes:

- automatic vehicle location via **GPS and GPRS**;
- real-time vehicle tracking and management;
- driver scheduling;
- timetable planning software;
- operater billing software;
- passenger information – on board, at stops, via USSD code, android app.



# Subsystem for fare collection and ticket inspection – payment manners

## Types of smart cards used for payment of transport services:

- Personalized (half-monthly, monthly, annual cards)
- Non-personalized (electronic wallet – 90 minutes card)
- Contactless paper smart cards (daily cards valid for 1, 3 or 5 days)
- Paper card (card purchased in the vehicle from the driver – single trip)



## Payment by mobile phone - NFC technology:

You can download MTS centar app from Google Play market.



## Payment by contactless payment card:

- By bringing the Mastercard Paypass payment card close to the validator, a 90-minutes time card is purchased for one passenger.
- Safety code guarantees and prevents the payment for more than one transaction within 90 minutes, in case the card is brought close to the validator more than once.

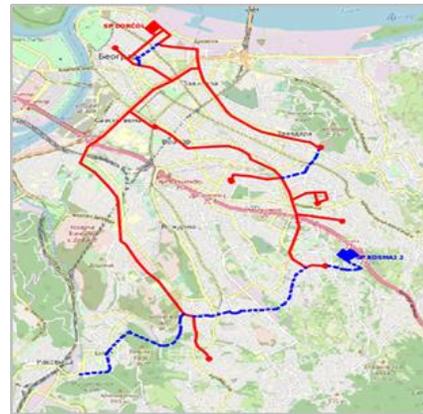
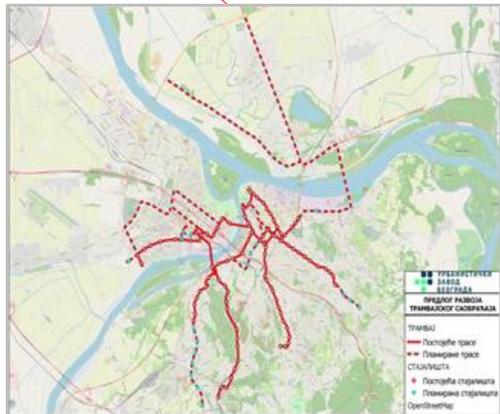


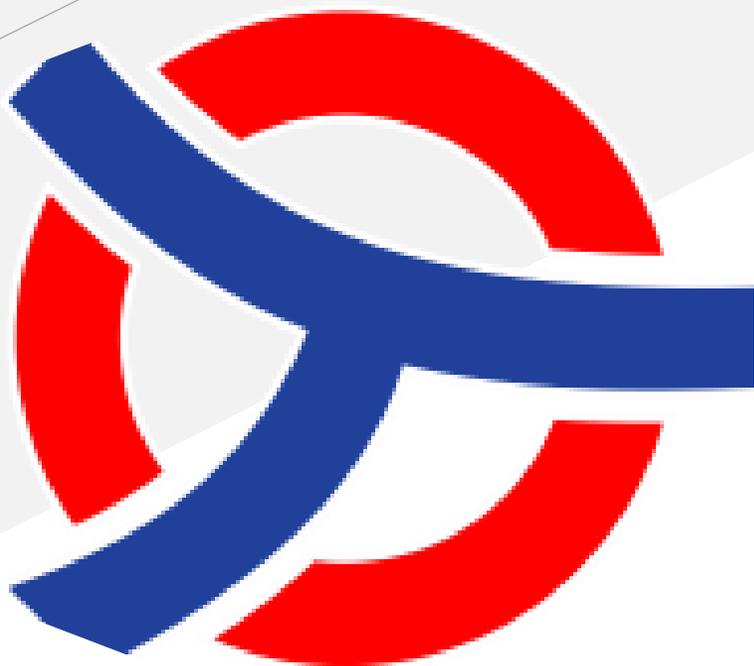
# Environmental measures

In accordance with the policy of the City of Belgrade on improving air quality, a cleaner and greener city, the Secretariat for Public Transport plans to implement a series of measures with the same goal in several strategic points:

- Line network development, organisation and functioning of PT.
- Renewal of the vehicle fleet of PUC “GSP Beograd”.
- Establishing ecological lines.
- Construction of traffic and other infrastructure for PT needs.
- Preparation of strategic documents, projects and studies.

| Vehicle type, Euro norm                   | Number of vehicles |
|---|--------------------|
| Articulated buses with CNG drive (Euro 6) | 310                |
| Solo buses with CNG drive (Euro 6)        | 110                |
| Solo electric buses                       | 15                 |
| Articulated electric buses                | 25                 |
| Solo trolleybuses with autonomy           | 60                 |
| Articulated trolleybuses with autonomy    | 20                 |
| Trams (high capacitive)                   | 150                |
| <b>TOTAL</b>                              | <b>690</b>         |





# THANK YOU FOR YOUR ATTENTION



Secretariat for Public Transport



+381 11 3309 005



[javniprevoz@beograd.gov.rs](mailto:javniprevoz@beograd.gov.rs)



<http://www.bgprevoz.rs>