

# Transport Demand Management of Ulaanbaatar city

*Ulaanbaatar*  
CITY OF HAPPINESS



**Dr. BULGAA Khurelbaatar**

**Transport Department of the Capital city**

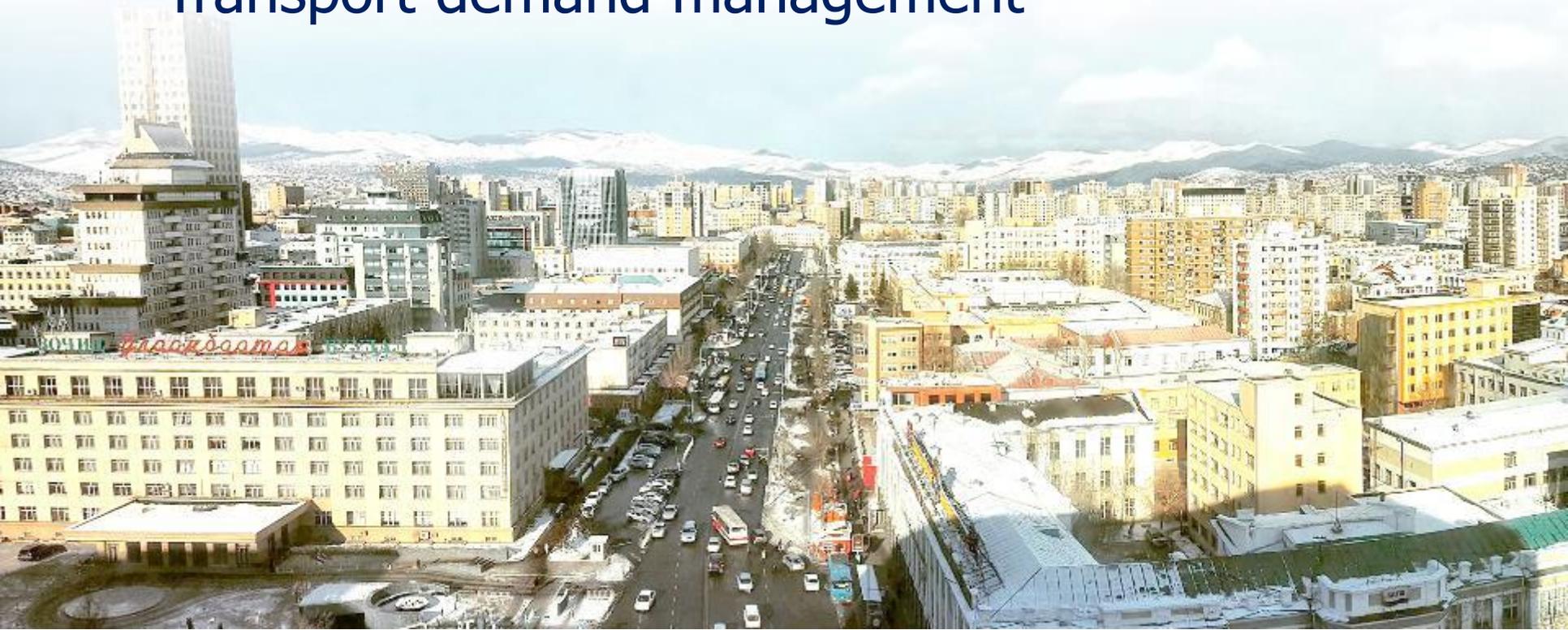
Environmentally Sustainable Transport forum in Asia

05 October 2018

Ulaanbaatar, Mongolia

# Overview

- Transport in Ulaanbaatar city
- Transport problems
- Transport demand management



# Transport in Ulaanbaatar



# Transport in Ulaanbaatar

1.4 mil.  
(Mongolia 3.0 mil)



0.5 mil.  
(Mongolia 0.8 mil)



800 km  
(Paved road)

950  
(87 route)

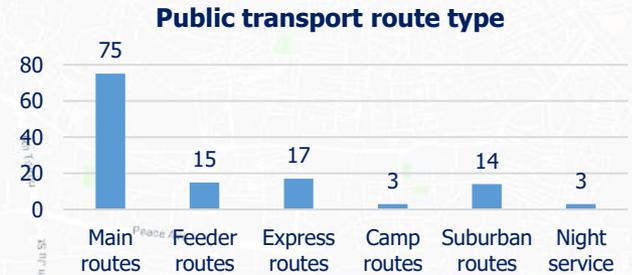


600  
(11 operator)

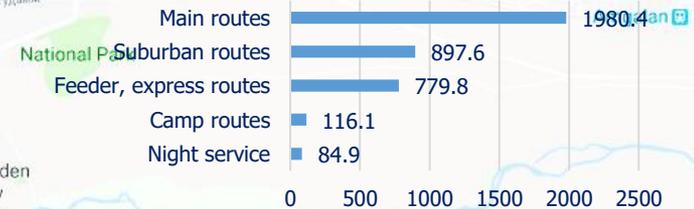


## Ulaanbaatar city

- Established as - 1639
- Area - 4,704.4 km<sup>2</sup>
- Elevation - 1,350 m



## Public transport route length /km/

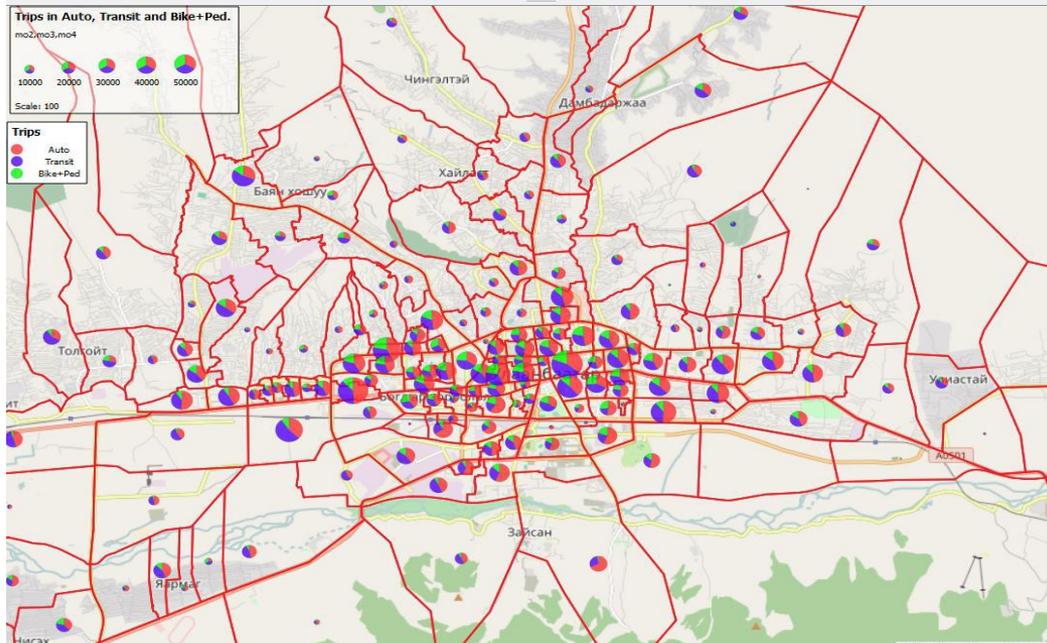


**650,000-750,000** passengers daily in Ulaanbaatar city where **40%** of the total population reside.

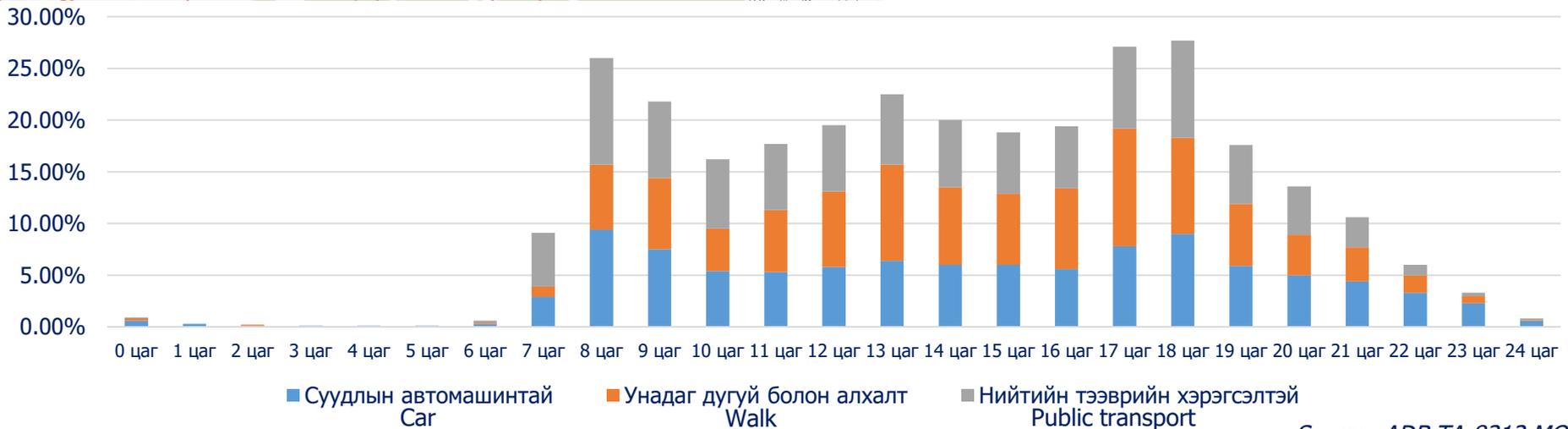
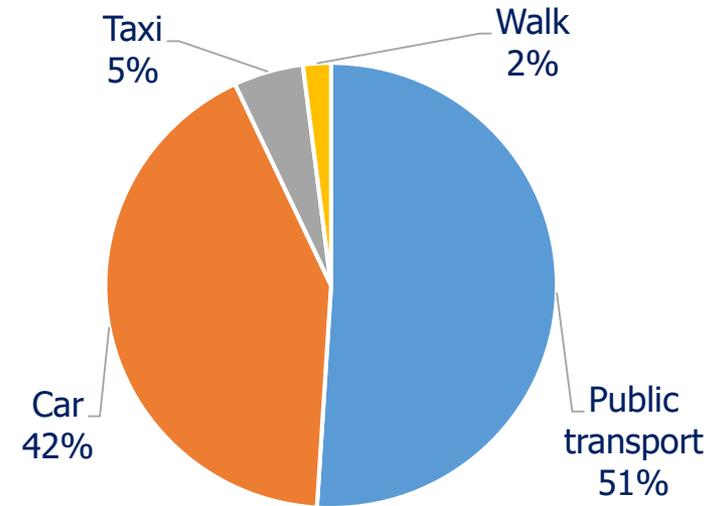


2009 OH **565**  
2013 OH **717**  
2017 OH **931**

# Transport in Ulaanbaatar

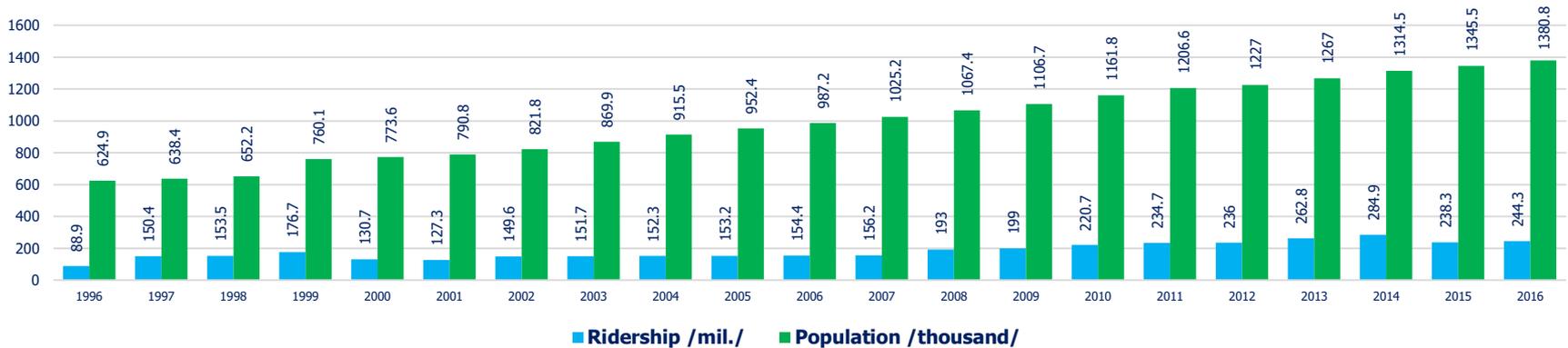


Modal share

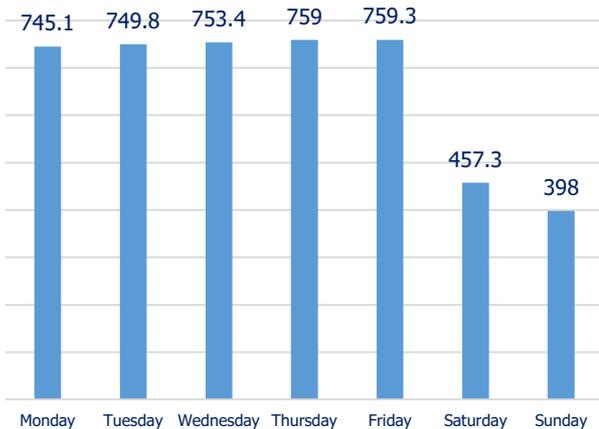


# Passenger of public transport in Ulaanbaatar city

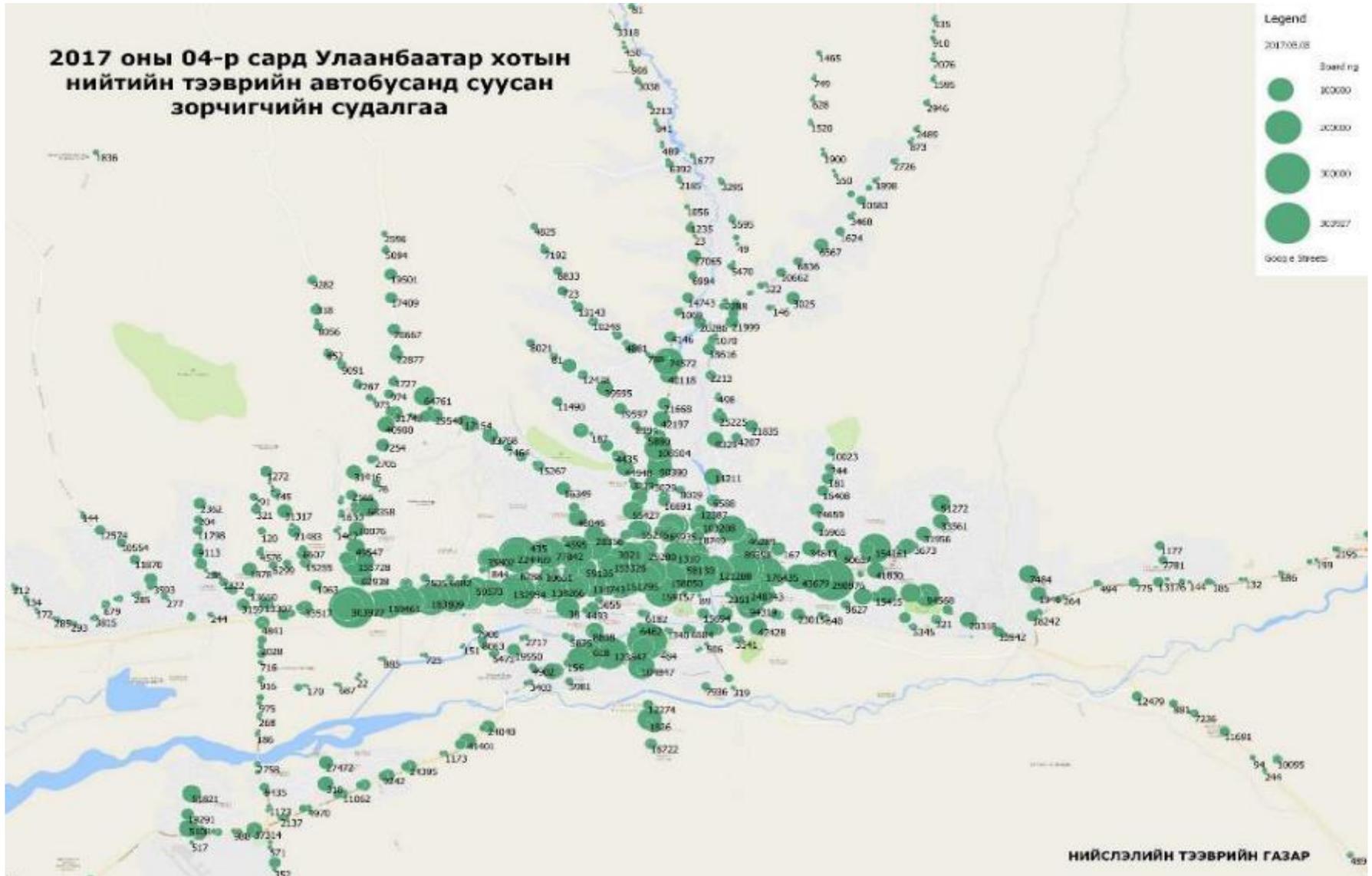
Bus fleet which is operating in the Ulaanbaatar city only accounts for 0.4% of daily traffic. Thus servicing about 52% of passengers daily and services around 200.0 million passengers annually.



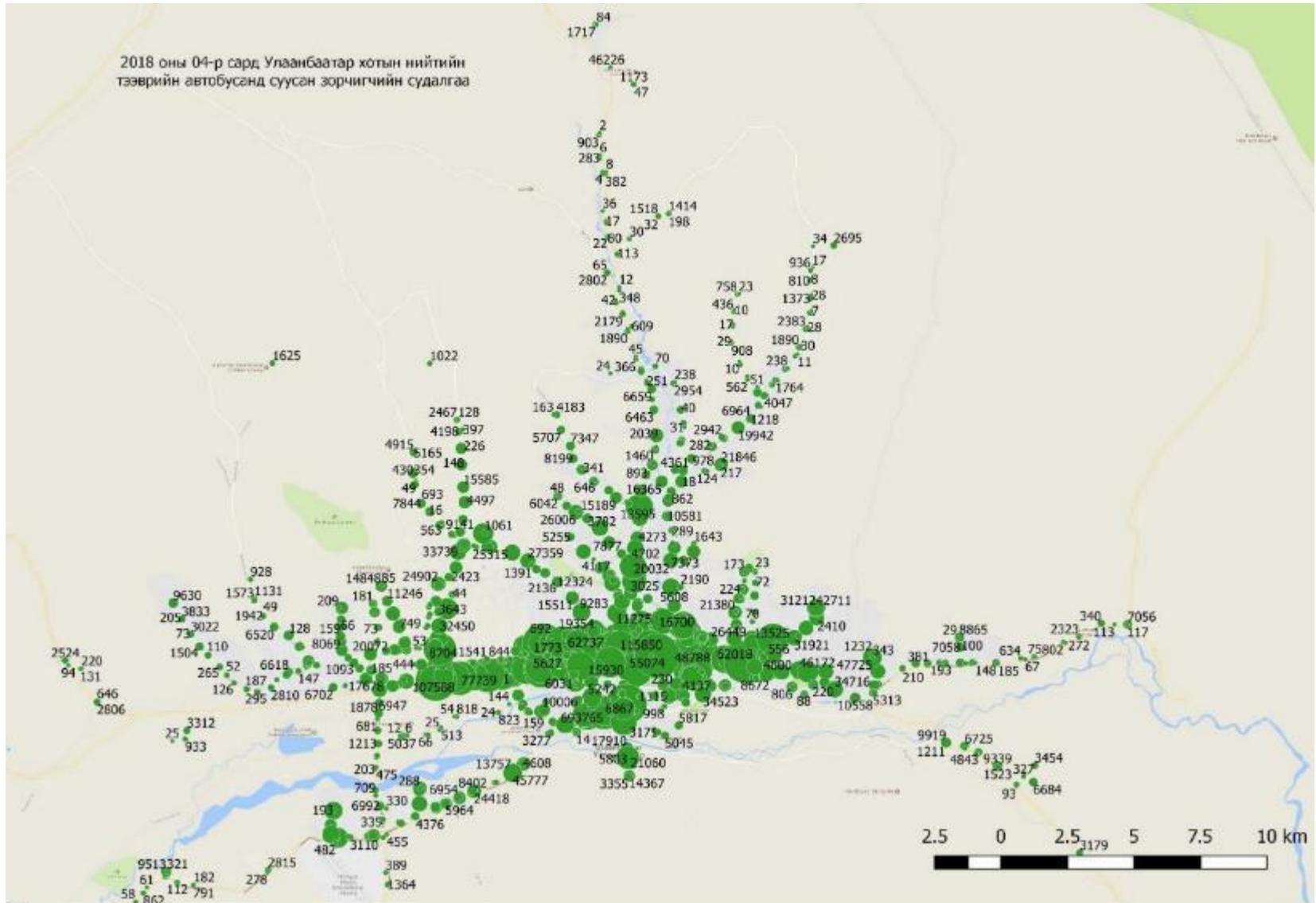
Ridership by days of week /thousand/



# Total boarding passenger number. April, 2017



# Total boarding passenger number. April, 2018



# Transport problems





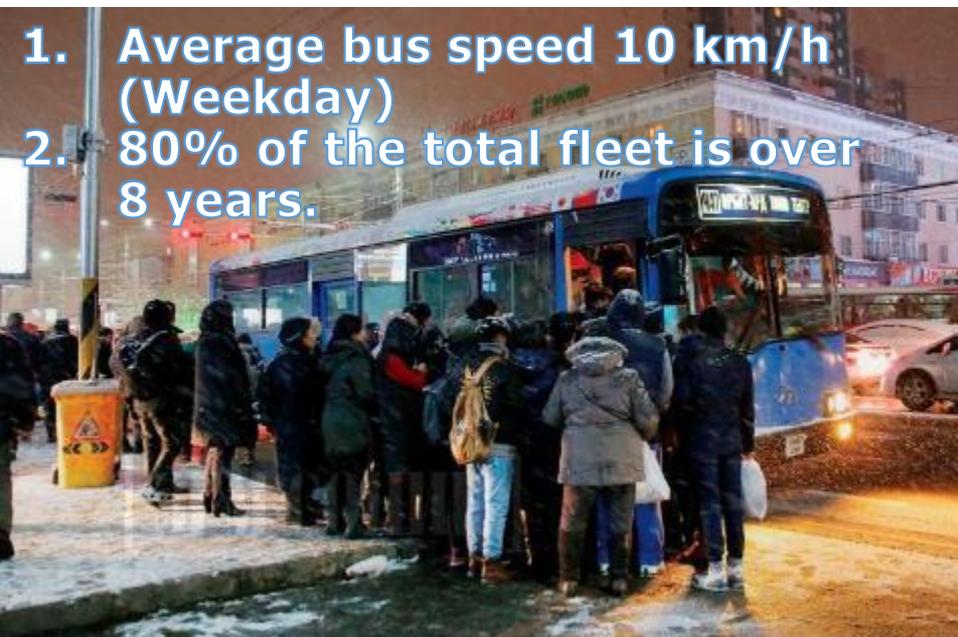
1. Number of vehicle 3 times increased last 10 year.
2. Average vehicle speed 12 km/h

1. Traffic congestion



1. Vehicles create 10% of whole air pollution.
2. 75% of the total vehicle is over 10 years.

2. Air pollution



1. Average bus speed 10 km/h (Weekday)
2. 80% of the total fleet is over 8 years.

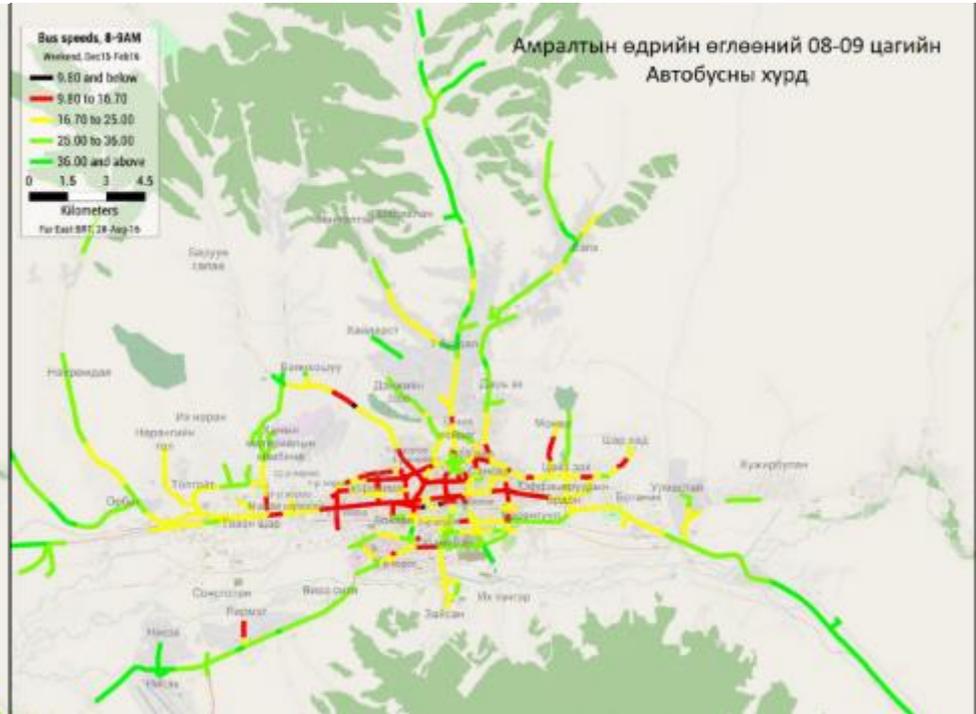
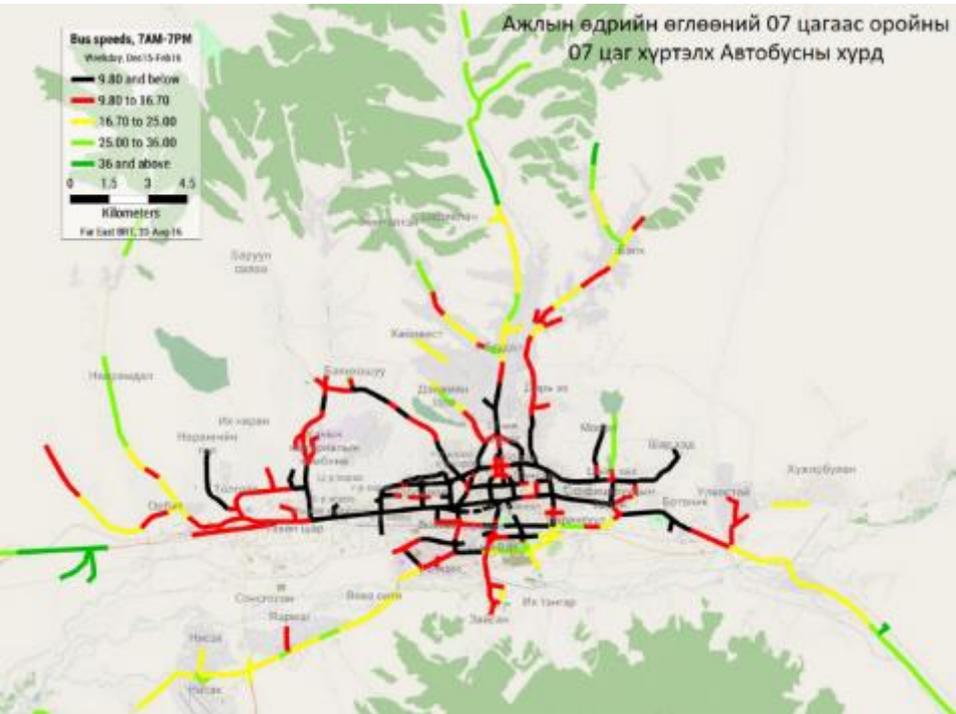
3. Poor public transport



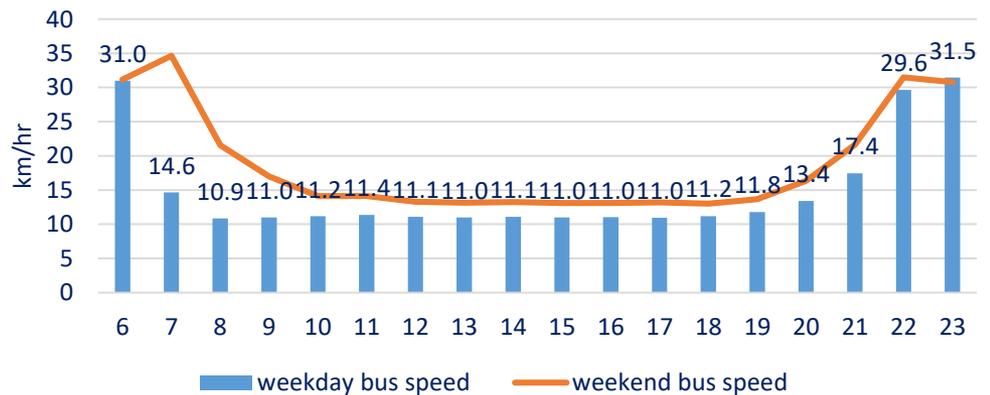
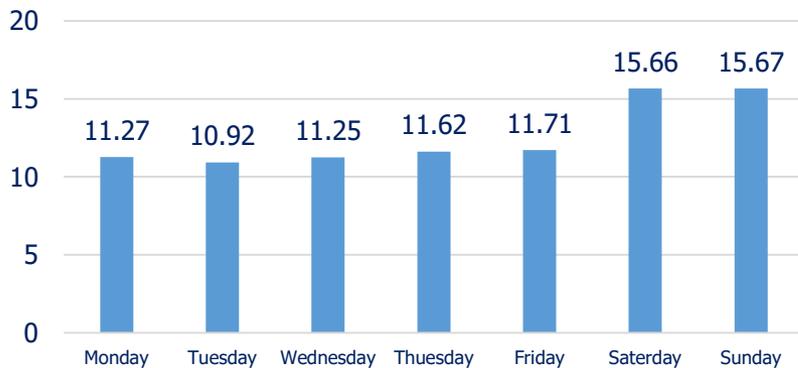
1. Road network
2. Road quality
3. Road safety
4. Pedestrian road

4. Poor road network and quality

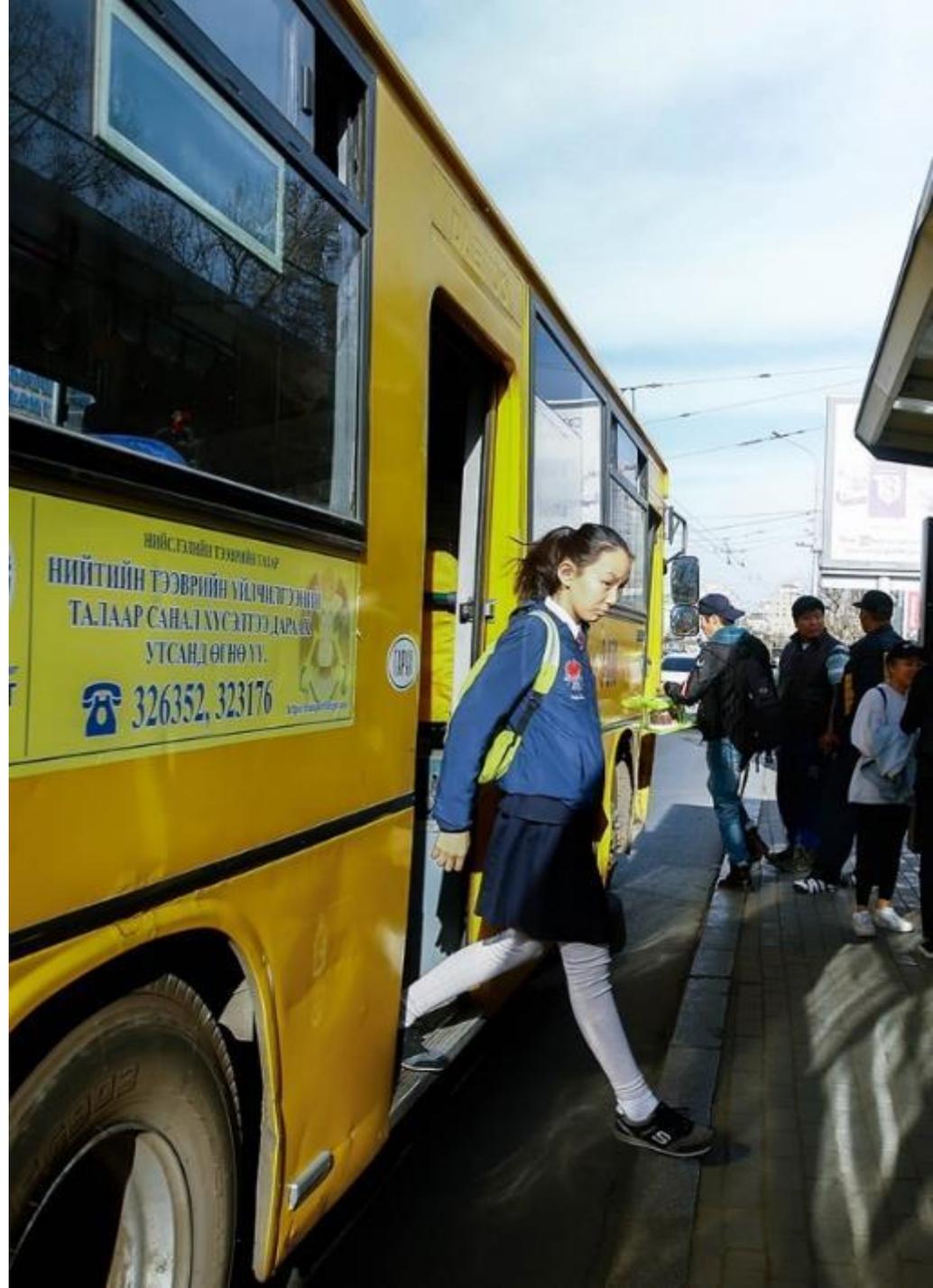
# Average bus speed in Ulaanbaatar city



Bus speed (07-19 hour)



# Transport demand management

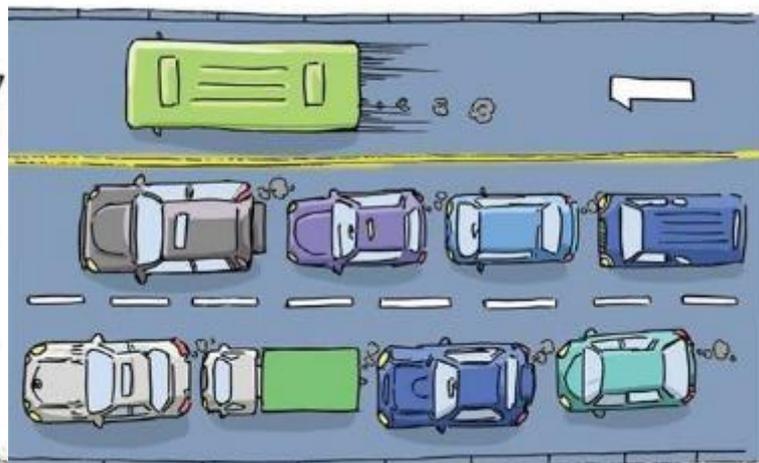


# Number plate restriction of vehicle

Number plate restriction reduce 20% of the cars off the road on working days.



# Bus line of Ulaanbaatar city



1.22



5.14

«Чиглэлийн тээврийн хэрэгслийн эгнээ»

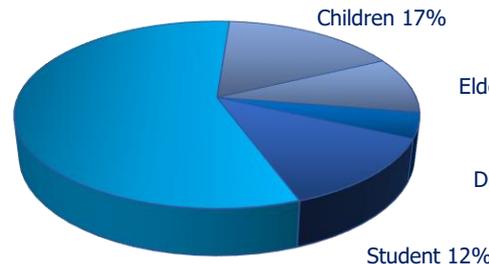


# Smart public transport in Ulaanbaatar city

The electronic payment system has been introduced in the public transport in July of 2015. Starting from 1st of April 2017 bus operating companies have stopped accepting cash payment and have started accepting only smart card payment.

No	Type of Smart card	Total number
1	Adult	831,529
2	Children	235,506
2	Elderly	105,363
3	Disabled	29,460
4	Student	54,232
5	Honored donor	186
6	Bank card /City pass/	21,685
7	Mobile sim card /Unitel/	1,014
8	Mobile sim card /Mobicom/	46
Unlimited monthly card		
9	Adult	12,325
10	Children	7,596

Type of smart card



# Smart public transport in Ulaanbaatar city

All public transport buses installed GPS device and data collected on the Ulaanbaatar smart card Ilc. Bus control center operating and monitoring all buses.

The screenshot shows the Umoney website interface. The top navigation bar includes links for 'Урсгал мэдээлэл', 'Маршрутын зураг', 'Тогтвор гүйцэтгэл', 'Тайлбар тусламж', 'График тасвиар', 'Гүйцэтгэл', 'GIS', 'Түрэн дүн', and 'Сурталчилгаа тусламж'. The main content area is titled 'Чиглэл бүрийн автобусны тогтвортой мэдээлэл' (Reliable information for each route). Below this, there are search filters for 'ААТГ' and 'Саяаг', and a 'Хайх' (Search) button. A table lists bus routes with columns for 'Чиглэл' (Route), 'Зураг №' (Map No.), 'Зогсоолын дараалал' (Stop sequence), 'Зогсоолын нэр' (Stop name), and 'Зогсоолын н' (Stop no.).

Чиглэл	Зураг №	Зогсоолын дараалал	Зогсоолын нэр	Зогсоолын н
11.3		1	ХАЛДВАРТИН БОСОНЛОНГ	00000040
11.3	3101B	3	Баянзүрх өвчлүүл	00000040
11.3		3	Зүүн 4 шал	00000017
11.3		4	Хөвсгөлтийн зам	00000017



**Ub smart bus**  
Mobile application



**Bus Information System**  
Bus station



**Safety bus**  
Bus cameras



**Bus Control center**  
Call center

ИРГЭДИЙН ОРОЛЦООТОЙ - ТЭЭВЭРЛЭЛТИЙН НӨХЦӨЛИЙГ САЙЖРУУЛАХ ЖИЛ 2018

**7004-4040**

Нийтийн тээврийн үйлчилгээтэй холбоотой зөрчилгч таны санал хураалт, мэдээллийг утас болон цахим хаягаар 24 цагийн турш хүлээн авч байна.

Мэдээлэл: www.tubus.mn, www.ila.mn  
Facebook page: "Иргэдийн Төлөөлөгчдийн Хурал"  
Facebook group: "Иргэдийн Төлөөлөгчдийн Хурал"  
Twitter: @Publi11111111111111111111

# Parking of Ulaanbaatar city

- Number of paid parking : 39
- Price (per hour) : 1000 MNT



# Bike sharing of Ulaanbaatar city



- Start: July 2018
- Parking location place: 14 (plan\* 150)
- Number of bike: 350 (plan\* 2000)
- Price (per hour): 1000 MNT
- Bike line: 34.4 km (plan\* 59.9 km)

\* - 2020



# City administration new location

- City administration: 1933 staff
- 5700 customers per day
- Construction: 40%

★ Current location  
(CBD)



★ New location  
(Yarmag)



Airport



Thank you for attention.

