

# BUDAPESTREND

## Mobility report 2023





## Contents of traffic-related summary for 2023

For quick access, please click on the titles

<a href="#">Traffic-related data collection in figures for the year 2023</a>	3
<a href="#">Changes in transport on the Chain Bridge in 2023</a>	4
<a href="#">Changes in weekly average passenger numbers of key bus lines in 2023</a>	5
<a href="#">Survey on workday passenger traffic on metro line M3 in 2023</a>	6
<a href="#">Passenger traffic of airport buses in 2023 on Liszt Ferenc International Airport 2</a>	7
<a href="#">Public transport developments in 2023</a>	8
<a href="#">Changes in 2023 in the number of cyclists passing through the 12 counting points</a>	9
<a href="#">MOL Bubi's passenger number in 2023</a>	10
<a href="#">Distribution of annual traffic of the MOL Bubi docking stations in 2023</a>	11
<a href="#">Developments in 2023 promoting cycling</a>	12
<a href="#">Data of shared scooters in 2023</a>	13
<a href="#">Evolution of road transport in 2023</a>	14
<a href="#">Changes in road transport on different days in 2023</a>	15
<a href="#">Share of road traffic on Budapest's Danube bridges in 2023</a>	16
<a href="#">Methodologies used, contacts</a>	17



Along with BKK's data analysts, we collect and analyse the data of different transport modes concerning Budapest's traffic throughout the whole year, out of which, we make even monthly traffic-related summaries. We have made the annual summary the third time, in which we conclude consequences and analyse trends for the whole year. There have been many transport-related developments in 2023 as well, on which you will have the chance to get information in this BudapestTrend summary.



# Data collection in figures in 2023

## BKK collects and analyses data throughout the year

The share of passenger numbers on an average workday in 2023 among the different transport modes

**1 183 000**  
trips/  
workday



36%



30%

**821 000**  
trips/  
workday



25%



5%

**944 000**  
trips/  
workday

**172 000**  
trips/  
workday

**136 000**  
trips/  
workday

4%

Data collection in figures for the year [2023]



**927** pc

vehicles equipped with the automatic passenger counter system



**354** days

counting process in public transport



**230** pc

traffic counter road cameras



**1 012** hr

data analysis with camera image analysis



**1 300** pc

inductive loop detectors installed in road covers



**53** pc

inductive cycling loop detectors



**336** hr

modal split analysis in relation of the Chain Bridge



**6** pc

testing new data collection methods



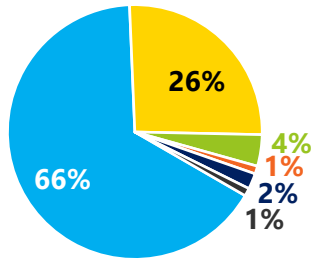
We collect the different mobility – and traffic-related data with different methods and devices, whose numbers we increase on a continuous basis, in order a growing number of information could be available to us for data-based planning. We measure traffic with infrasensors currently on approximately 1,000 vehicles. We monitor the evolution of road traffic with inductive loop detectors, and also with traffic counting and surveillance cameras. With camera image analysis, we make complex traffic-related examinations on different parts of the city.



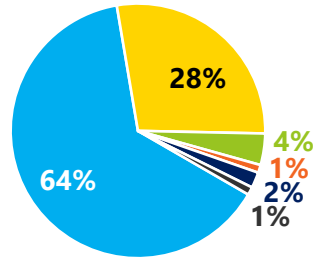
# Changes in traffic on the Chain Bridge in 2023

## The renovated Chain Bridge is used by the majority by buses and on foot

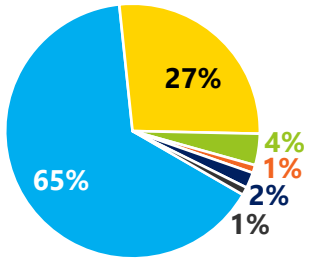
Weekday shares of traffic on the Chain Bridge for each month [2023]



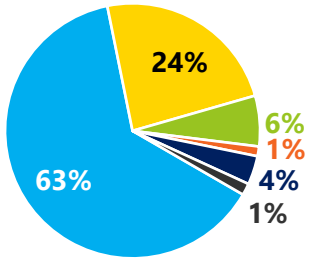
11 JANUARY 2023



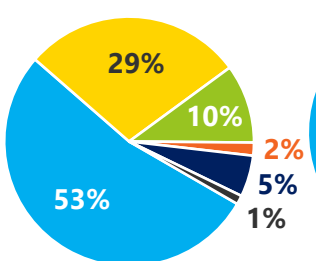
08 FEBRUARY 2023



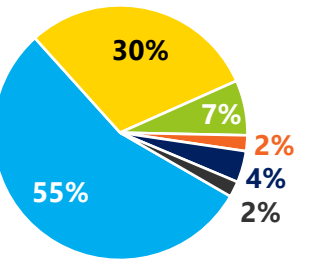
28 MARCH 2023



18 APRIL 2023

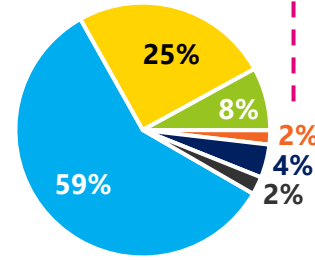


24 MAY 2023

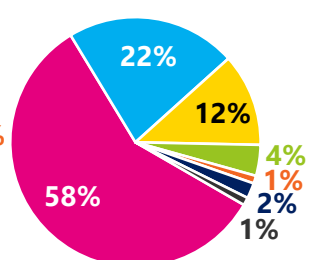


08 JUNE 2023

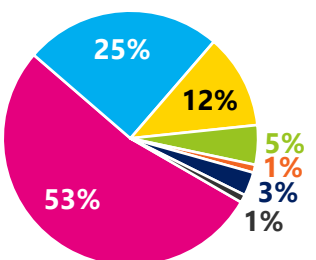
In August, 2023, the Chain Bridge opened to pedestrians as well, significantly changing the share of its traffic distribution.



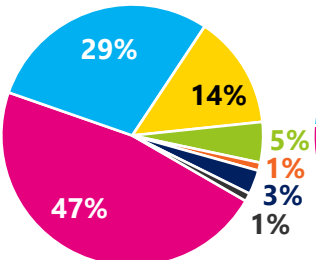
06 JULY 2023



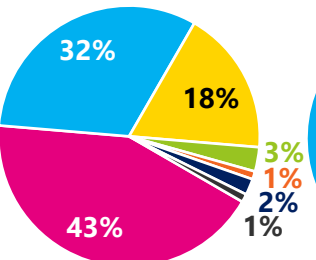
09 AUGUST 2023



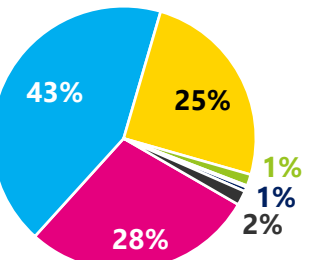
06 SEPTEMBER 2023



11 OCTOBER 2023



07 NOVEMBER 2023



13 DECEMBER 2023

Passengers using public transport buses

Passengers on foot

Passengers using taxis [1.7 persons/vehicle]

Cyclers

E-scooter riders

Motorbike riders

Passengers using other vehicles, e.g. authorities, public service providers [1.3 persons/vehicles]



In 2023, we monitored the evolution of traffic on the renovated Chain Bridge, in the course of which, we presented the share among transport modes in every month. Until August, public transport was predominant on the bridge, and after the bridge's pavements were opened to pedestrians, pedestrians became the key transport users. The cooler, late autumn, winter weather has a significant impact on the number of passengers on foot and passengers using micromobility devices. Due to the bridge's traffic order, the rate of taxi rides is significantly higher on this bridge, compared to other Danube bridges.

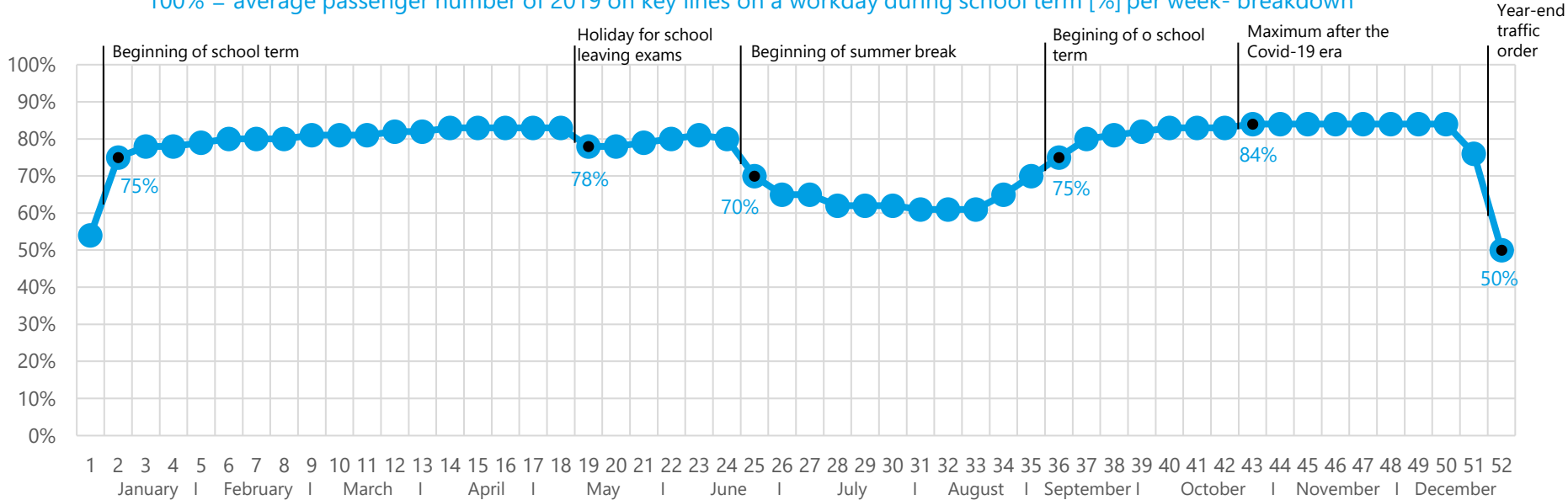


# Changes in weekly average passenger numbers of key bus lines in 2023

## The volume of pedestrian traffic has not returned to the previous level

### Changes in weekly average passenger numbers of key bus lines January – December 2023

100% = average passenger number of 2019 on key lines on a workday during school term [%] per week- breakdown



Average workday number of boarding passengers, 2023

**3.3 million**

boarding/workday

Highest achieved workday traffic, 2023

**84%**

(base-year 2019)

Rate of average workday traffic, 2023

**79%**

(base-year 2019)

For more traffic-related data, please click on BKK's website.



Autóbuszvonalak összesített adatai



We monitored the evolution of the traffic of the selected major bus lines of Budapest even in 2023 on a continuous basis. In the school term, passenger traffic was still around 80-85%, compared to the average value indicated in the pre-pandemic period in 2019. Nowadays, not only the pandemic, but its social consequences, e.g. the spread of working-from-home policy or the preference of alternative transport modes – has an impact on public transport traffic. Based on data collection of the recent years, passenger traffic return to the previous levels.



# Survey on workday passenger traffic on metro line M3 in 2023

## The reconstruction works completed on the full line metro line M3 in 2023

Passenger transport between 6:00 and 23:00 on workdays on metro line M3 [2023]

passengers = boarding and disembarking passengers

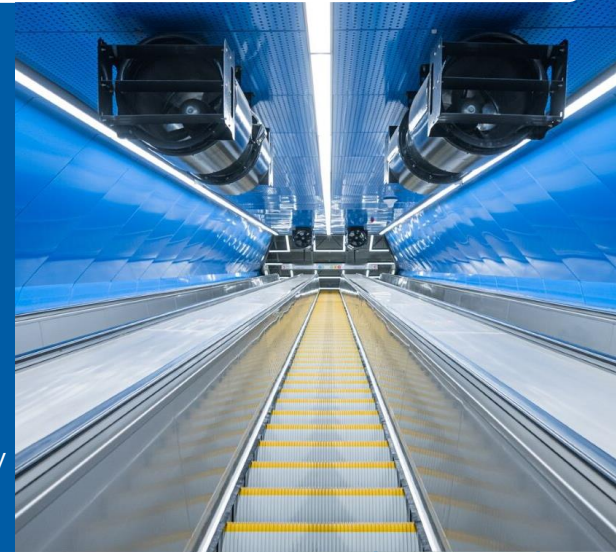
1	Újpest-központ	44 331	passengers
2	Újpest-városkapu	26 614	passengers
3	Gyöngyösi utca	28 350	passengers
4	Forgách utca	14 004	passengers
5	Göncz Árpád városközpont	53 077	passengers
6	Dózsa György út	32 840	passengers
7	Lehel tér	32 797	passengers
8	Nyugati pályaudvar	69 236	passengers
9	Arany János utca	20 572	passengers
10	Deák Ferenc tér	67 518	passengers
11	Ferenciek tere	22 346	passengers
12	Kálvin tér	70 285	passengers
13	Corvin-negyed	41 999	passengers
14	Semmelweis Klinikák	32 215	passengers
15	Nagyvárad tér	24 084	passengers
16	Népliget	30 958	passengers
17	Ecseri út	16 923	passengers
18	Pöttyös utca	12 761	passengers
19	Határ út	42 499	passengers
20	Kőbánya-Kispest	43 383	passengers



3

**363 396** trips / workday  
between 6:00–22:00 on metro line M3 [2023]

The reconstruction works on metro line M3 began in the autumn of 2017 and finished in May of 2023. During the works, among others, metro stations became entirely reconstructed and accessible, new tracks were built-in, the signaling control system was replaced and changed and tunnels became insulated. After the reconstruction works were completed, nearly a brand new metro line awaited Budapest's residents and tourists.



In spite of the decrease in passenger transport following the coronavirus pandemic period, over 363 thousand trips are taken on a daily basis on Budapest's busiest line. Metro line M3 provides transfer options to the other metro lines at two metro stations, which makes them the busiest ones. At stations located in the city centre areas, without railway transfer connections, passenger transport is lower by one third, compared to the above-written stations. Due to their feeder functions, even the Újpest-központ, Határ út and Kőbánya-Kispest metro stations have high traffic.



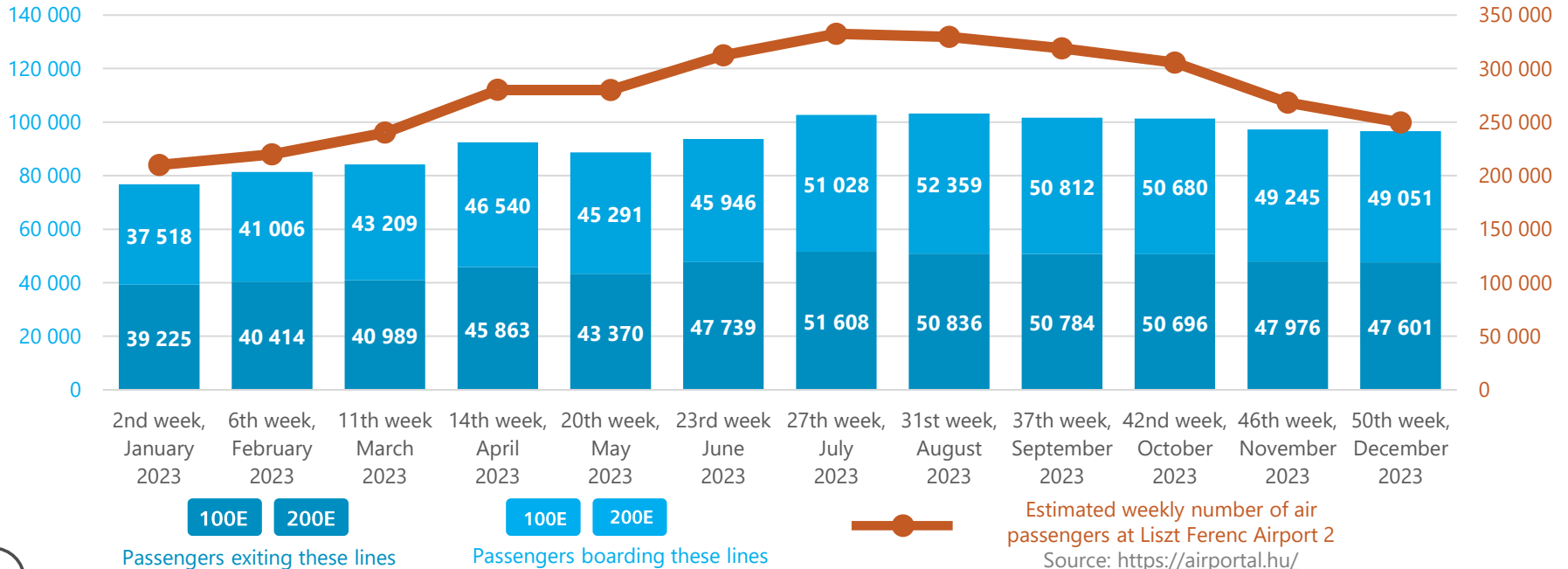
# Passenger traffic of airport buses in 2023 at Liszt Ferenc Airport 2

## Public transport services to/from the airport is increasingly popular

Passenger traffic of the Liszt Ferenc Airport 2 bus terminus in 2023

Weekly number of passengers boarding and exiting the 100E Airport Express and bus line 200E [person/week]

Estimated weekly number of air passengers at Liszt Ferenc Airport 2 [person/week]



For an entire week in each month of 2023, we examined passenger traffic of the bus services serving Budapest Airport, which was continuously increasing until August (in parallel with the air passenger traffic). Key events organised in August (Formula-1 Grand Prix, Sziget Festival, World Athletics Championship) had a strong impact on travel demands, as a consequence of which, traffic reached the highest level in August. From autumn, due to the decreasing number of tourists, the number of trips taken by the airport bus services decreased by a lesser rate than the number of air passenger traffic, hence popularity of bus lines 100E and 200E increased. In the traffic was higher than in any month in the first half of the year.



# Public transport developments in 2023

## 10 developments in public transport during the past year

- 1 New traffic light program; shorter journey time on tram line 2B; tram line 51A is extended to Koppány utca
- 2 Express bus lines departing more frequently to the centre of the District XVI; bus line 161A is extended to Rákoskeresztúr, városközpont.
- 3 New bus line 33A serving the Budafoki út; bus line 33 is modified to serve Nagytétény-Diósd vasútállomás via Savoya Park.
- 4 New express bus line 251E from Budafok; simplifying the route of bus line 150 restructuring bus group 251.
- 5 New bus group 210 and 210B on the Chain Bridge, connecting Svábhegy, Normafa and Gyöngyösi utca through the city centre.
- 6 Completion of reconstruction works on the full length of metro line M3, all stations are opened to passengers..
- 7 The state-of-the-art Solaris-Škoda Trollino fleet consisting of all of the 48 trolleybuses, capable of off-wire operation has arrived to Budapest.
- 8 All of the articulated and solo brand new MAN Lion's buses consisting of a fleet of 150 vehicles have been put into circulation.
- 9 CAF trams have been put into operation on tram lines 56 and 61 after the track reconstruction works in Hűvösvölgy has been completed
- 10 Real-time transfer-related options are displayed on 1 382 vehicles, thanks to development of the passenger information software.



**1**  
Interconnected tram network in South Pest



**2**  
District XVI



**3**  
South-Buda



**4**  
Budafok



**5**  
Chain Bridge



**6**  
Metro line M3



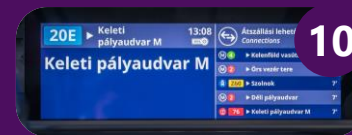
**7**  
Development of trolleybus vehicle fleet



**8**  
Development of bus vehicle fleet



**9**  
Hűvösvölgy



**10**  
Passenger information

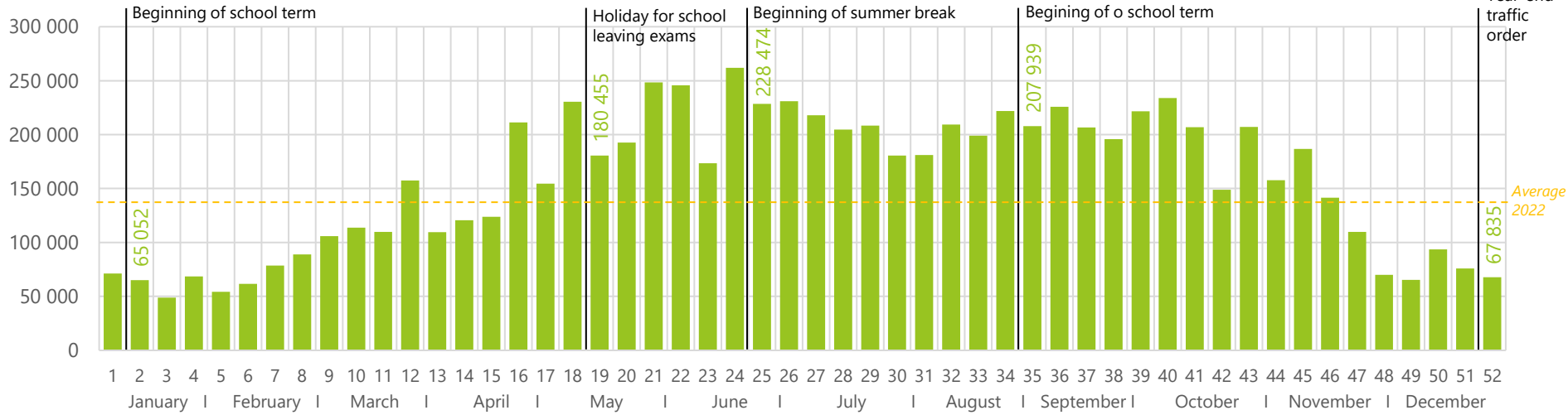




# Changes in 2023 in the number of cyclists passing through 12 counting points Over 8 million transits during the year

## Changes between January and December, 2023 in the number of cyclists passing through 12 counting points [pc] weekly breakdown

We specified the data of the counting point at Weiss Manfréd út by mathematical methodology



**Current counting points:** Bem tér; Árpád híd; Weiss Manfréd út; Hungária körút; Üllői út (to the city centre); Műgyetem rakpart; Jászai Mari tér; Bartók Béla út (to the city boundary); Margit híd; Népfürdő utca; Budagyöngye; Róna utca.

Total transit, 2023 <b>8 187 761</b>	The busiest day, 2023 <b>45 631</b> <b>28 October</b>	Rate of weeks above average, 2023 <b>54%</b> (base-year 2022)
---	---	---

For more traffic-related data, please click on BKK's website.

Kerékpáros mérőpontok adatai



In 2023, the number of transits at 12 permanent counting points was over 8 million in 2023, similarly to the previous year, and at the same time, several new bike lanes were designated, where no counting devices measuring bike transport have been installed yet. The most transits were measured by the counting device at Margit híd, measuring 37.5% of the total registered transits, which is followed by the counting device at Bem tér, measuring 12.1%. The busiest month was June: there were daily 32,412 transits on an average basis and a total of 972,356 transits. Surprisingly, the busiest day was 28 October 2023, in the late autumn, with 45,631 transits.

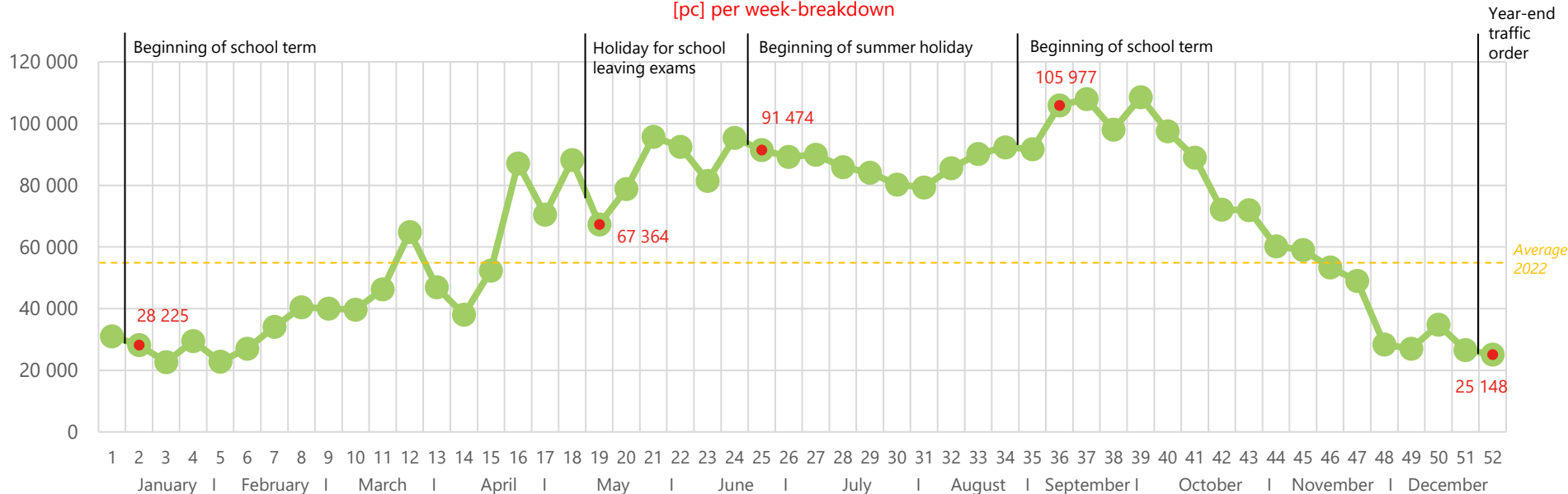


# Number of MOL Bubi trips in 2023

## Nearly 3 and a half million trips in the year

### Number of MOL Bubi trips, January-December 2023

[pc] per week-breakdown



Total trips, 2023  
**3 400 338**

The busiest day, 2023  
**18 056**  
13 September

Total distance taken, 2023  
**6 800 676 km**

For more traffic-related data, please click on BKK's website.



After the MOL Bubi public bike system was renewed in May, 2021, the success of the system was constant even in 2023. On an average basis, over 9,000 trips were taken daily in 2023; with the busiest day being 13 September with 18,056 total trips. The number of MOL Bubi trips is the highest during the school term following the beginning of the university period. When cooler autumn and winter days are coming, the service still continues to be used; as even in December nearly 4,000 trips were taken on an average daily basis.



# Share of annual, most-used MOL Bubi docking stations in 2023

## Jászai Mari tér has become the busiest docking station

### The most-used, top 10 MOL docking stations [2023]



**Jászai Mari tér** **115 687** Pick-up and return of bikes



**Margitsziget** **108 378** Pick-up and return of bikes



**Corvin sétány** **98 793** Pick-up and return of bikes

**Blaha Lujza tér** **91 169** Pick-up and return of bikes

**Kálvin tér** **86 232** Pick-up and return of bikes

**Fővám tér** **85 873** Pick-up and return of bikes

**Oktagon** **80 852** Pick-up and return of bikes

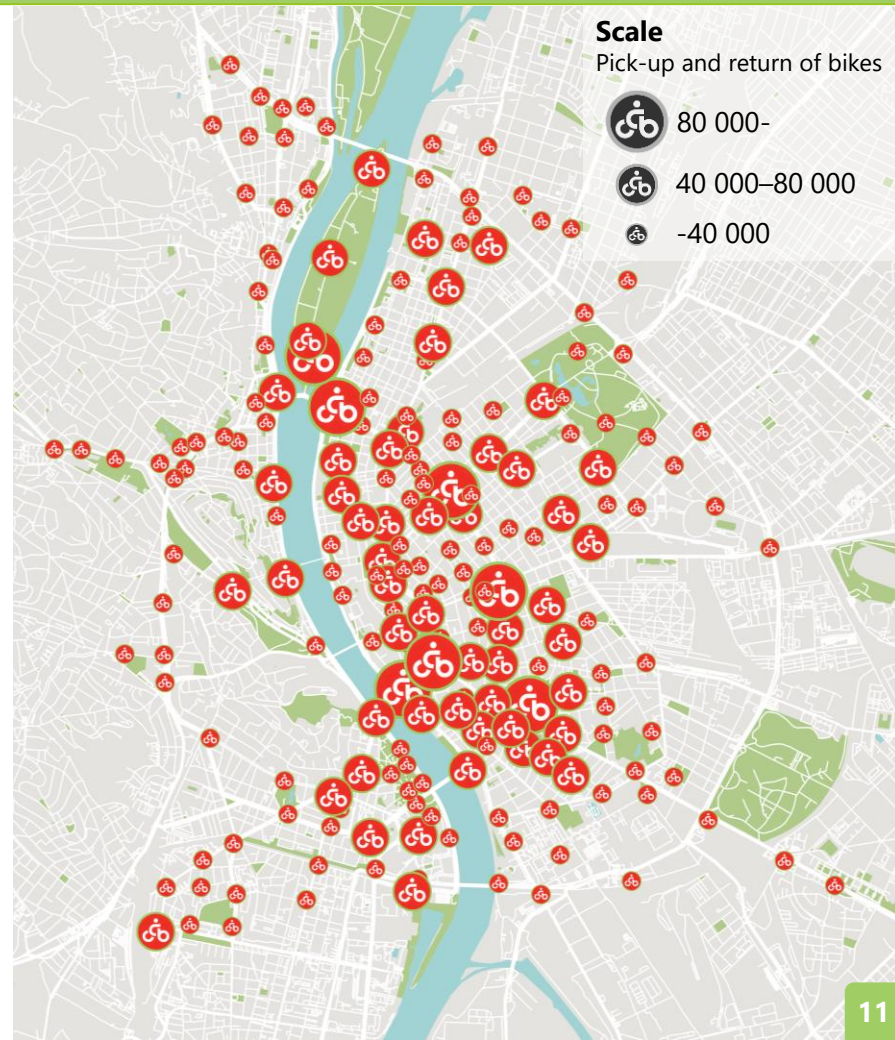
**Szent Gellért tér** **76 566** Pick-up and return of bikes

**Batthyány tér** **75 091** Pick-up and return of bikes

**Rákóczi tér** **74 560** Pick-up and return of bikes



Meeting the increased demand for MOL Bubi bikes once again, the service area was enriched with 24 new docking stations in 2023, hence there are already 201 docking stations in operation, where passengers can pick up and return the MOL Bubi bikes. The most popular docking stations were near to transport hubs and key touristic places this year.





# Promoting cycling through developments realised in 2023

## 30 km-long new bike lane in 2023



This year Budapest's bike network was expanded with a **30 km-long new bike route.**

Each metre of the 30 km-long route serves the establishment of a more liveable and sustainable urban environment. Passengers who frequently ride the bike, could do it under more civilised and safer circumstances and those persons for whom cycling does not form their daily routine could feel like riding this healthy, sustainable, quick transport mode that can be easily combined with other public transport services.

Cycling-friendly developments, such as the new bike lanes and paths designated on

- **Üllői út**
- **Váci út**
- **Árpád fejedelem út**
- **Szent István körút**

make the centre of districts, schools, churches, sports facilities, stores and also public transport stations and stops more easily-accessible even by bikes. As indicated on our maps showcasing this year's developments, these developments were made both in the inner city and suburban areas.

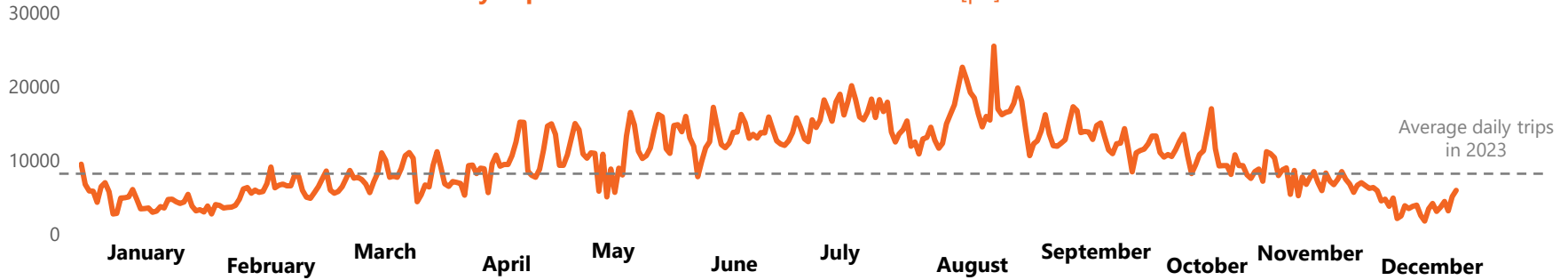




# Data of shared e-scooters in 2023

Shared e-scooters are used by the majority for short and quick trips

Daily trip number of shared scooters in 2023 [pc]



How to use Mobi-points  
Please click on the picture to watch the video



**In 2023,**  
there are  
already **741**  
Mobi-points  
in the city  
centre  
5% increase  
compared to  
2022



The reason why  
Micromobility  
points, a.k.a  
Mobi-points were  
established is to  
pick-up and  
return shared  
scooters in a  
more civilised  
way.



In Budapest, over 3.5 million trips were taken with shared scooters in 2023. The busiest day in this regard was 20 August when 25,487 trips were registered. In accordance with travel data, micromobility devices are used typically for a shorter distance and period; 60% of trips is for less than 2% km and 75% takes less than 15 minutes. Our continuously-expanding Mobi-point network is currently the most extensive in the city centre in the Pest side.

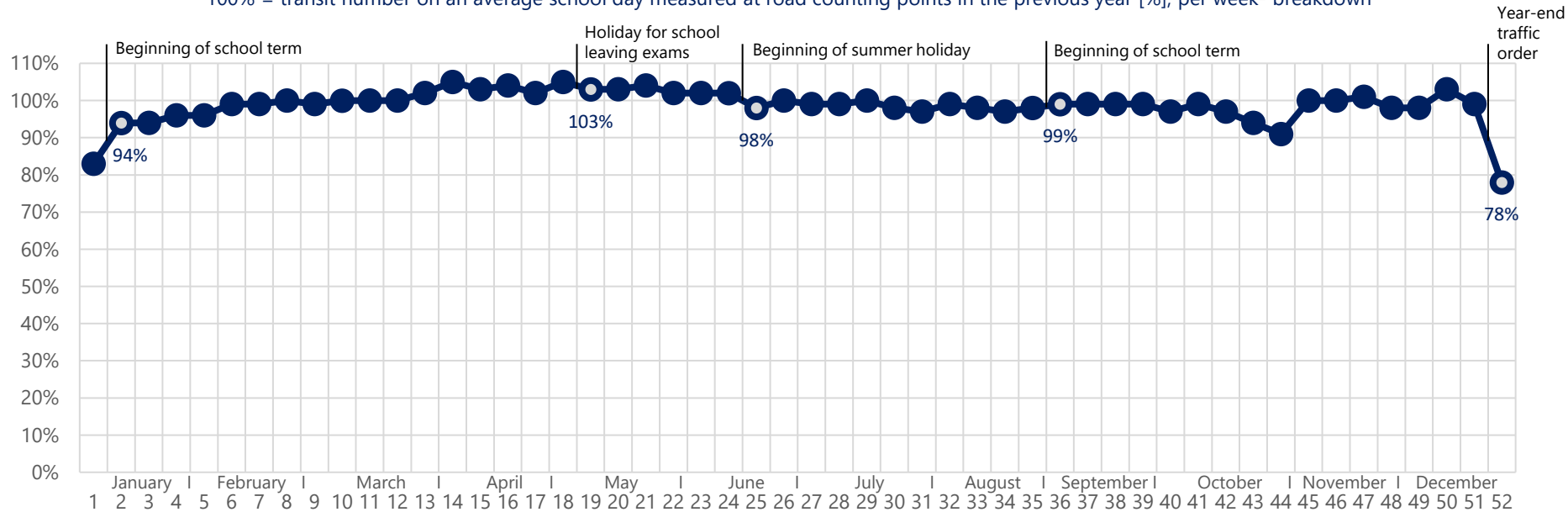


# Evolution of road traffic in 2023

## The total traffic was decreased compared to the previous year

### Evolution of road transport January-December, 2023

100% = transit number on an average school day measured at road counting points in the previous year [%], per week- breakdown



The least busy workweek in 2023  
**52nd week**

The busiest workweek in 2023  
**14th week**

Rate of average workday traffic, 2023  
**99,7%**  
(base-year 2022)

For more traffic-related data, please click on BKK's website.



A közúti forgalom adatai



Changes of road traffic were minimal in 2023. The Decrease of traffic volume during special periods was significantly lower, compared to public transport traffic. During the Festive period, we measured the usual increased traffic, however the busiest period in the year was April. The first and last week of the year showed a big drop, as a result of the large number of holidays. The total traffic in 2023 slightly decreased, compared to 2022.

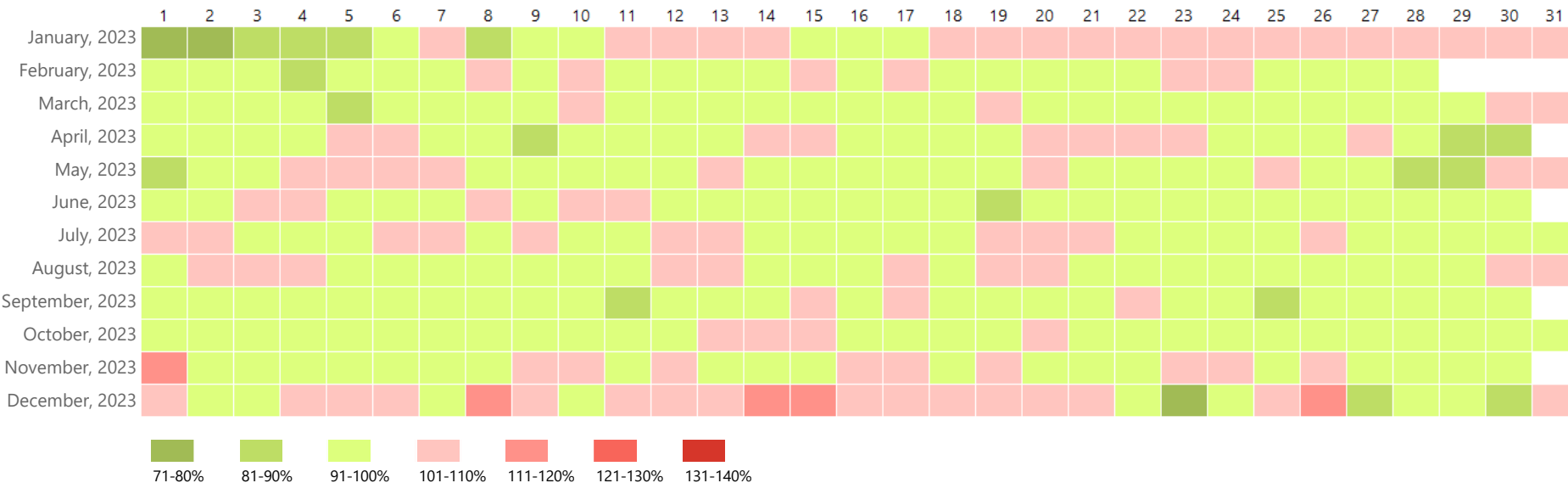


# Changes of road traffic on different days in 2023

## The total traffic decreased compared to previous year

### Rate of road traffic on different days, 1 January – 31 December 2023

compared to the value of the average day type (workday, Saturday, Sunday, holidays) of the identical month in the previous year (2022) [%]



Biggest decrease, compared to 2022

**-27% 1 January**

Biggest increase compared to 2022

**+17% 26 December**

Rate of average daily traffic, 2023

**99,5%**  
(base-year 2022)

For more traffic-related data, please click on BKK's website.

A közúti forgalom adatai

**i** We compared the traffic volume of each day even in 2023, to the average value of the same day type of the previous year's identical month. We measured lower traffic in a significant part of the year, than in 2022. Due to the extended school break and work holidays, traffic was significantly lower in the first week of the year, however more passengers opted for private cars during the end-of-the-year Festive period, than in the identical period of the previous year.



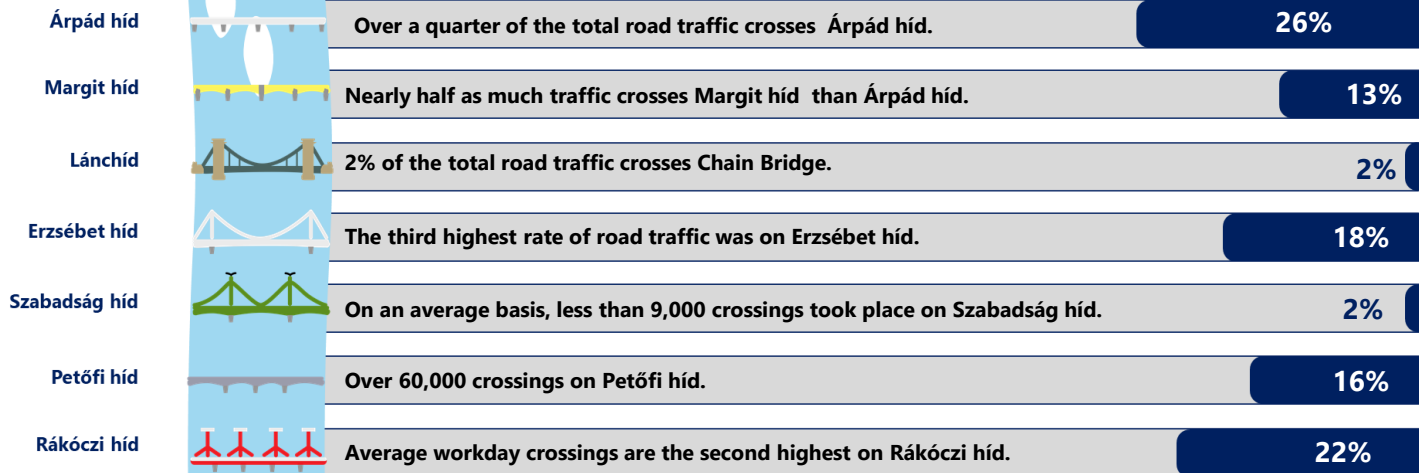
# Share of road traffic on Budapest's Danube bridges in 2023

## Outer bridges are still the busiest among the bridges

### Share of road traffic on workdays at the Danube bridges

1 January – 31 December 2023

Average share  
of road traffic on workdays



Lowest monthly average  
workday transit number

**360 521** [January 2023]

Highest monthly average  
workday transit number

**414 535** [May 2023]

Lowest traffic

**Chain Bridge**  
**Szabadság híd**  
(Liberty bridge)

For more  
traffic-related  
data, please  
click on BKK's  
website.



A főbb budapesti Duna-hidak  
közúti forgalmának megoszlása



Traffic is gradually decreasing on the Danube bridges of Budapest towards the city centre. This tendency stops at Erzsébet híd (Elisabeth Bridge), as in terms of road traffic, it became the third busiest crossing point of the city. Due to the traffic calming measures introduced on the Chain Bridge, the rate of car traffic is meets the new-function of the bridge. On Szabadság híd (Liberty Bridge), restrictions on car traffic is not in effect, however due to the low capacity of Vámház körút, car traffic is lower.





# Methodology used, contacts

Each and every traffic data at the same place: online diagrams at BKK's website



BUDAPESTI  
KÖZLEKEDÉSI  
KÖZPONT

Visiting Budapest

Journey planning

Tickets and passes

Travel information

FAQ

News

About BKK



CONTACT



## Passenger counting devices onboard the vehicles

Numerous public transport vehicles ordered by BKK are equipped with passenger counting sensors above the doors counting passengers getting on and off the vehicles.



## Loop detectors built-in the road surface

Loop detectors are traffic counting devices built in road surfaces, which count passing vehicles, by sensing the metal devices passing above them.



## Analysis of camera images

With the help of a software, we are capable of counting passing vehicles, pedestrians, by using the images of traffic surveillance cameras to be found in the city.



## Waze user reports

Waze collects its users' average passing speed measured during their use of the app, and stores the data in a public, cloud-based system. We have made an aggregation program linked to this data package, with the help of which, we can analyse and display this array of information in a structured way.

Strategy

About us

Responsibility

**Traffic data, charts**

International relations



For more information, please click BKK's website: **Traffic data, charts.**



In case of any observations, please feel free to get in touch with us at:

**adatkozpont@bkk.hu**



We are committed to publishing as much information as possible in an easily-understandable manner.

You can find every piece of information on traffic data on a new, well-arranged subpage, under [Forgalmi adatok, diagramok](#) at BKK's website. In addition to the mobility reports, BudapesTrend presents data about the different sectors graphically with interactive diagrams.