

BUDAPESTREND

Mobility report 2024





Contents

Contents of traffic-related summary for 2024

For quick access, please click on the titles

Traffic-related data collection in figures for 2024	3
Changes in weekly average passenger numbers of key bus lines in 2024	4
Survey on workday passenger traffic on metro line M1 in 2024	5
BKK's significant developments in 2024	6
MOL Bubi's passenger number in 2024	7
Distribution of annual traffic of the MOL Bubi docking stations in 2024	8
Data of shared scooters in 2024	9
Evolution of road transport in 2024	10
Changes in road transport on different days in 2024	11
Share of road traffic on Budapest's Danube bridges in 2024	12
Used methodology, contacts	13



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 fourth time, in which we conclude consequences and analyse trends for the whole year. There have been many transport-related developments in 2024 as well, on which you will have the chance to get information in this BudapesTrend summary.



Data-driven operation in figures for 2024

BKK collects and analyses data throughout the year

Data collection in figures for the year [2024]



953

vehicles equipped with
the automatic passenger
counter system



360 days

counting process
in public transport



755

traffic counter road
cameras



1 500 hr

data analysis with
camera image analysis



906

inductive loop detectors
calculating traffic



47

inductive cycling
loop detectors



3

continuously-running
predictive model



7,5 million

data science
development process



We collect the different mobility – and traffic-related data with different methods and devices at BKK. 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 and with the analysis of camera images we carry out complex traffic examinations at several locations in the city, where we are able to measure the movement of pedestrians and users of micromobility vehicles. We analyse big quantity data with data science methods and we also make different forecasts.

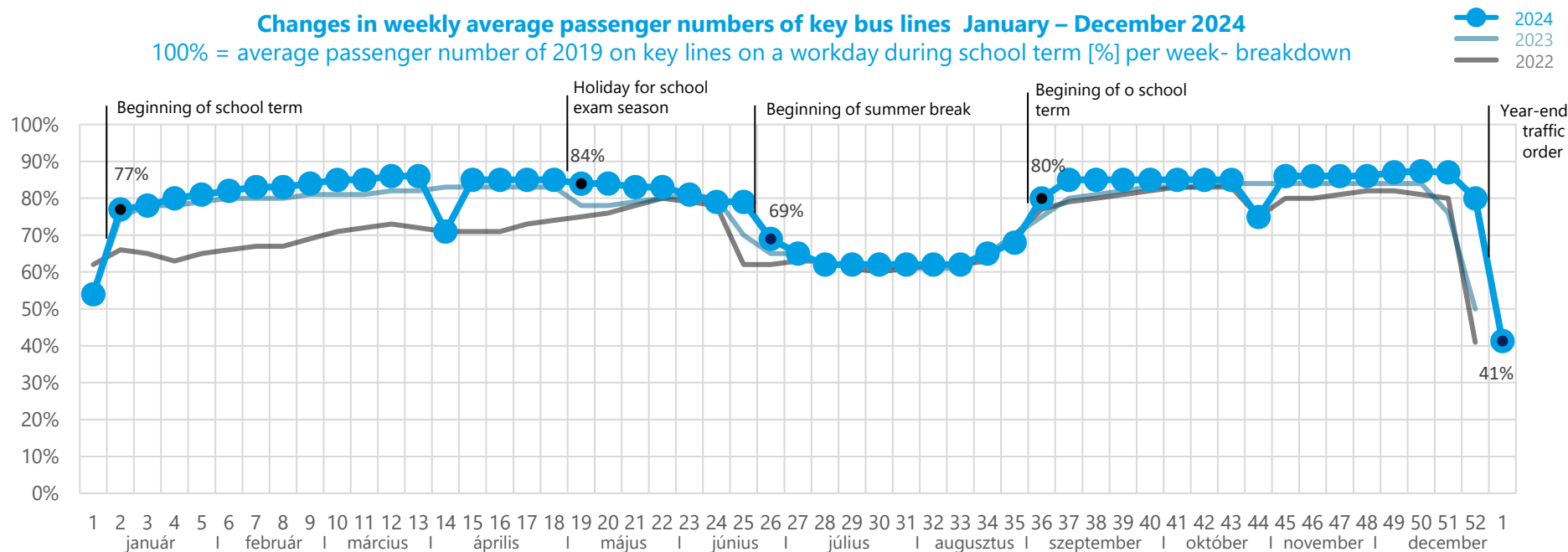


Changes in weekly average passenger numbers of key bus lines in 2024

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

Changes in weekly average passenger numbers of key bus lines January – December 2024

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



Average workday number of boarding passengers, 2024

3.4 million
boarding/workday

Highest achieved workday traffic, 2023

87%
(base-year 2019)

Rate of average workday traffic, 2023

83%
(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 2024 on a continuous basis. In the school term, passenger traffic was above 80 compared to the average value indicated in the pre-pandemic period in 2019, however traffic volume has its largest ever value (87%) in the winter of 2024. Nowadays, not the pandemic, but its social consequences, e.g. the adoption of remote work policies and the preference for alternative modes of transportation—that impact public transportation traffic.



Survey on workday passenger traffic on metro line M1 in 2024

Daily 60 thousand passengers travelling on M1

Workday passenger number on metro line M1 [2018, 2021, 2024]

2018

72 105

Boarding passengers /
workday
(between 6.00–22.00)

2021

38 521

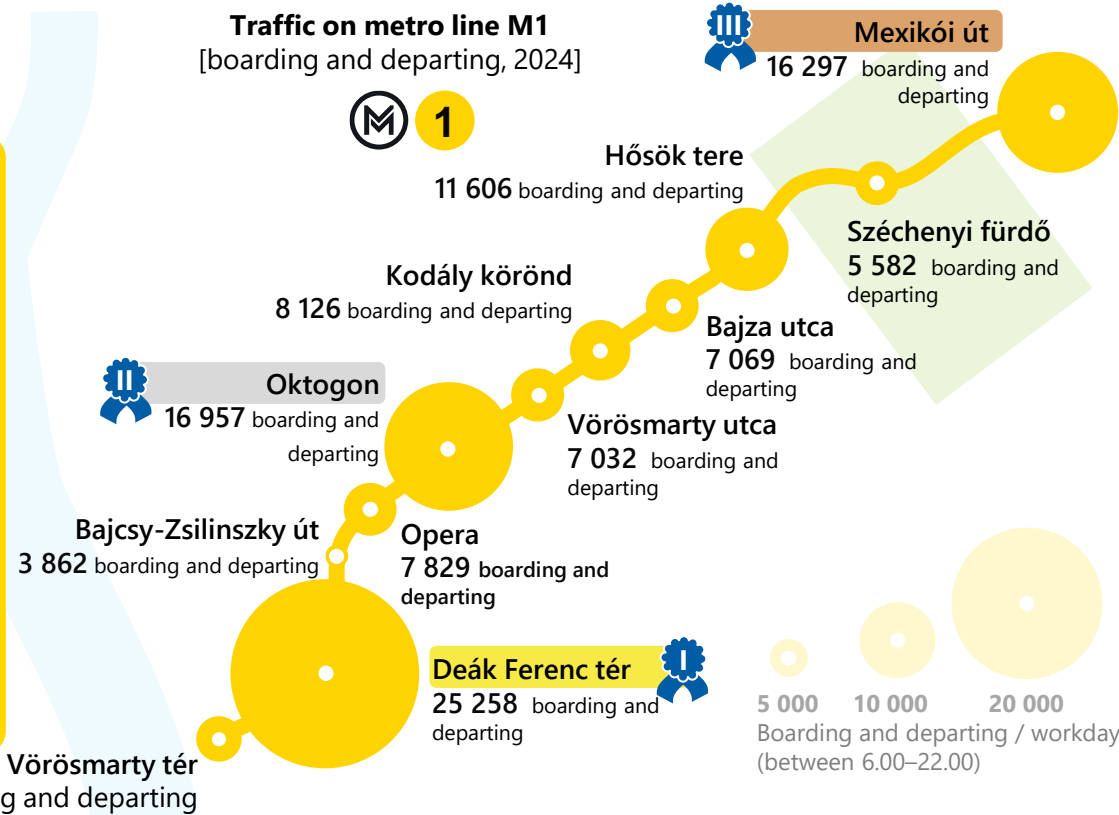
Boarding passengers /
workday
(between 6.00–22.00)

2024

58 167

Boarding passengers /
workday
(between 6.00–22.00)

Traffic on metro line M1 [boarding and departing, 2024]

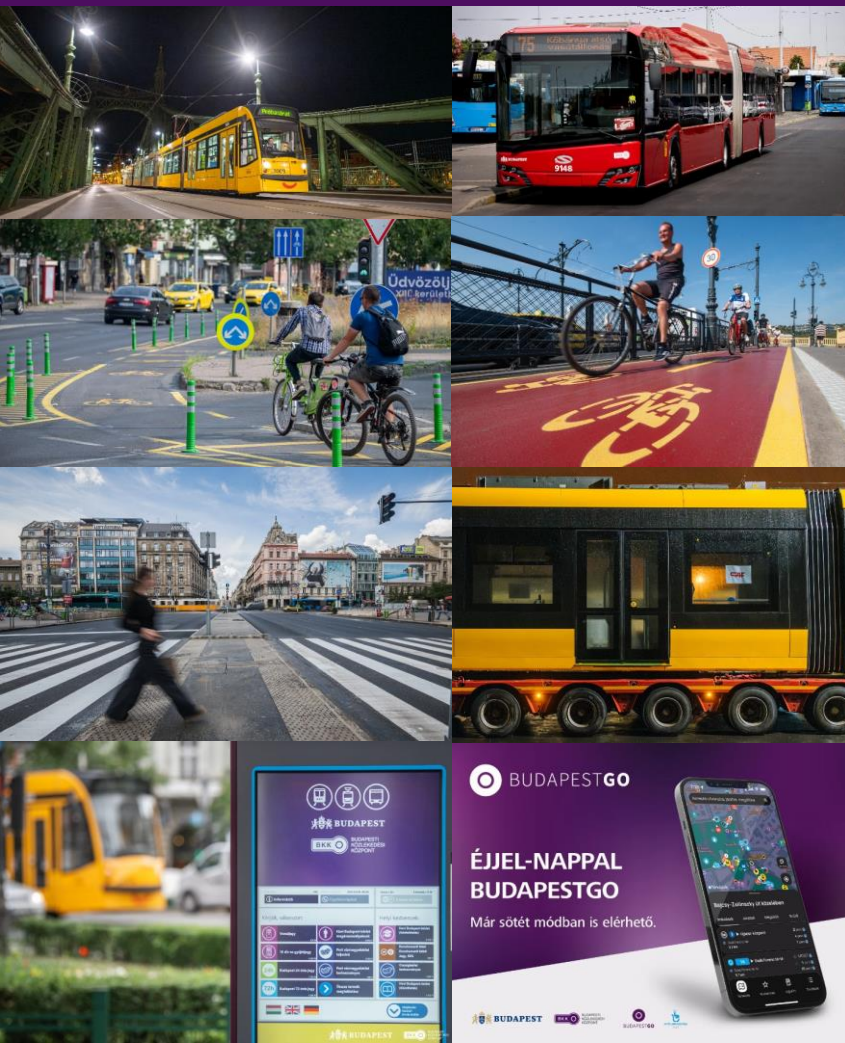


In the autumn of 2024, we conducted a survey on the weekday passenger volume on the M1 metro line. Following a period of reduced traffic during the pandemic years, we observed a return to higher passenger numbers, with approximately 60 000 passengers utilizing the Millennium Underground Railway, a line that remains particularly popular among tourists. The Deák Ferenc tér station stands out as the most frequented, accounting for over a quarter of the total traffic. Similarly, the Oktagon and Mexikói út stations also experience significant traffic, each serving approximately 16 000 passengers.



Significant developments of BKK Centre for Budapest Transport in 2024

10 developments in public transport and micromobility



1

Development of networks and services in Rákosmente, Káposztásmegyer with new lines and more frequent services.

2

From Újbuda to Újpest with trams: preparations can begin; public consultations are over. Test loading on the Liberty Bridge.

3

Bubi 3.0 is on its way! Required preparatory works began. Following market and public consultations, the public procurement process started.

4

Establishment of new pedestrian crossings at the intersection of Astoria and Örs vezér tere, the pedestrian crossing completed in Üllői út.

5

Brand new TVMs with big screen installed, preparation under progress of the renovation of the entire TVM network.

6

A study plan is prepared for the southern Pest tram developments; a public consultation was held regarding tramline 42 and the southern tram ring.

7

Introduction of safer cycling lanes, completely renewed biking path on the Margit Bridge.

8

Developments related to trolleybuses running on longer routes to Kőbánya and Zugló, a public consultation held on trolleybuses 81 and 75.

9

The CAF tram bodies arrived to Budapest for assembly, and the first assembled tram from Spain has also arrived.

10

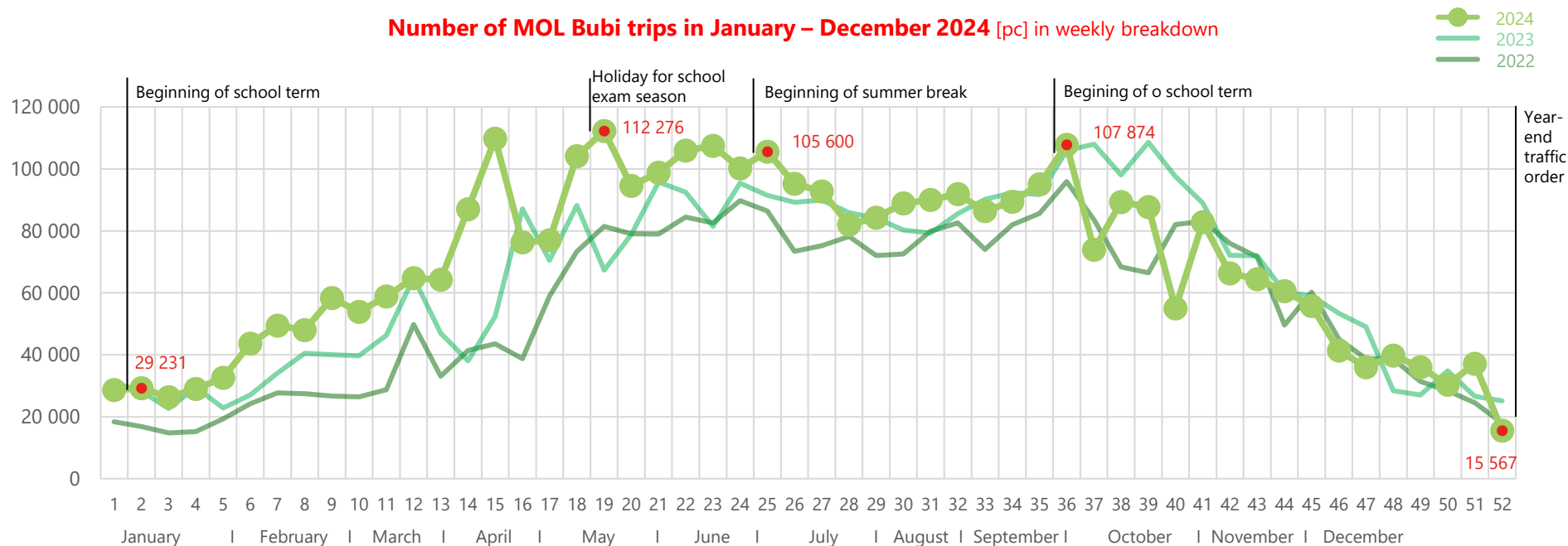
The award-winning BudapestGO app has been updated with several new features: trip planning from the suburbs, the option to purchase a 10-ticket bundle, "My Tickets" and "Boarding" buttons, and a dark mode.



MOL Bubi's passenger number in 2024

Over 3 and ½ million trips in 2024

Number of MOL Bubi trips in January – December 2024 [pc] in weekly breakdown



Total trips, 2024
3 648 249

The busiest day, 2024
17 940
10 May

Total distance traveled, 2024
7 296 498 km

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



The success of the MOL Bubi bike-sharing service continued in 2024. On average, nearly 10,000 trips were made daily throughout the year, with the busiest day being May 10th, recording 17,940 trips. The number of MOL Bubi trips was highest during the spring and autumn school periods. Even with the arrival of cooler autumn and winter days, the service remained successful, with an average of around 4,000 trips per day in December.



The distribution of the annual traffic at MOL Bubi docking stations in 2024

This year, Jászai Mari Square became the busiest docking station once again

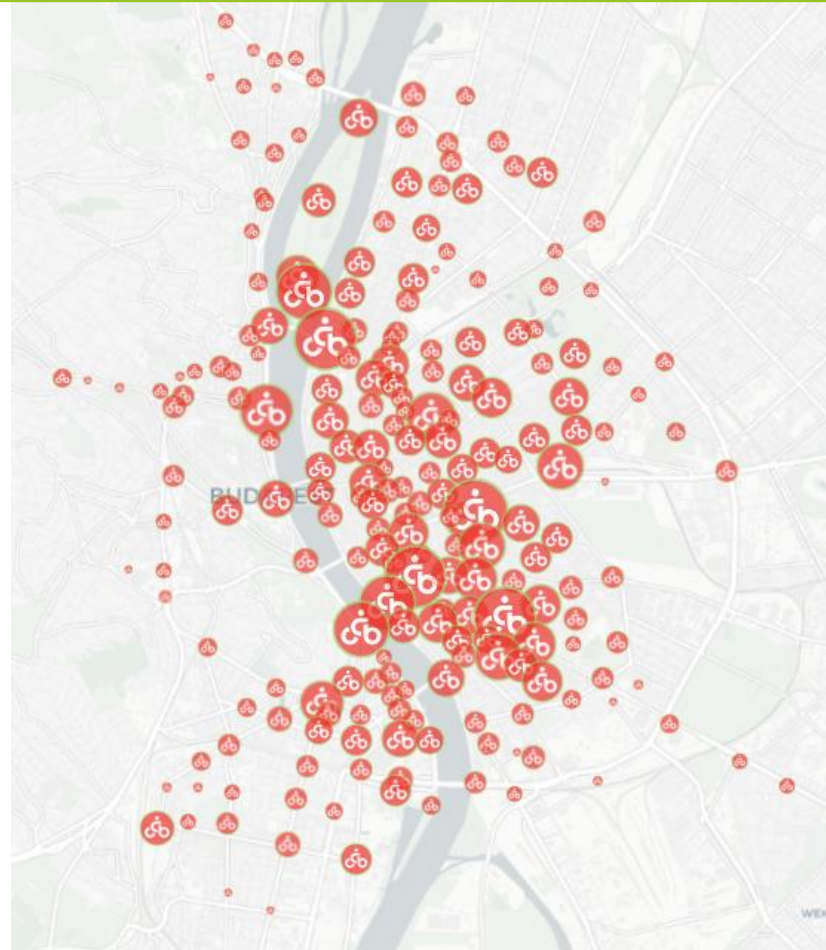
The most-used, top 10 MOL docking stations [2024]

Changes compared to the list of docking stations as of 2023

	Jászai Mari tér	117 864	Pick-up and return of bikes		
	Margitsziget	110 404	Pick-up and return of bikes		
	Blaha Lujza tér	103 606	Pick-up and return of bikes		1
	Corvin sétány	97 268	Pick-up and return of bikes		1
	Kálvin tér	94 480	Pick-up and return of bikes		
	Fővám tér	89 997	Pick-up and return of bikes		
	Szent Gellért tér	86 910	Pick-up and return of bikes		1
	Batthyány tér	78 924	Pick-up and return of bikes		1
	Rákóczi tér	76 143	Pick-up and return of bikes		1
	Oktagon	75 129	Pick-up and return of bikes		3



The popularity of MOL Bubi bikes increased even in 2024. We added 16 docking stations to the service area, hence by the end of the year there were a total of 217 docking stations available. The most popular docking stations were near to the main transport hubs in the city centre and key touristic locations even in 2024. Margaret Island is an attractive destination for leisure time, this is the reason why traffic of Jászai Mari tér and the island is outstanding. Among the outer boundary of the service area, Kelenföld vasútállomás is key, as this is a transport mode hub with high traffic.



Pick-up and return of
bikes [2024]

25 000

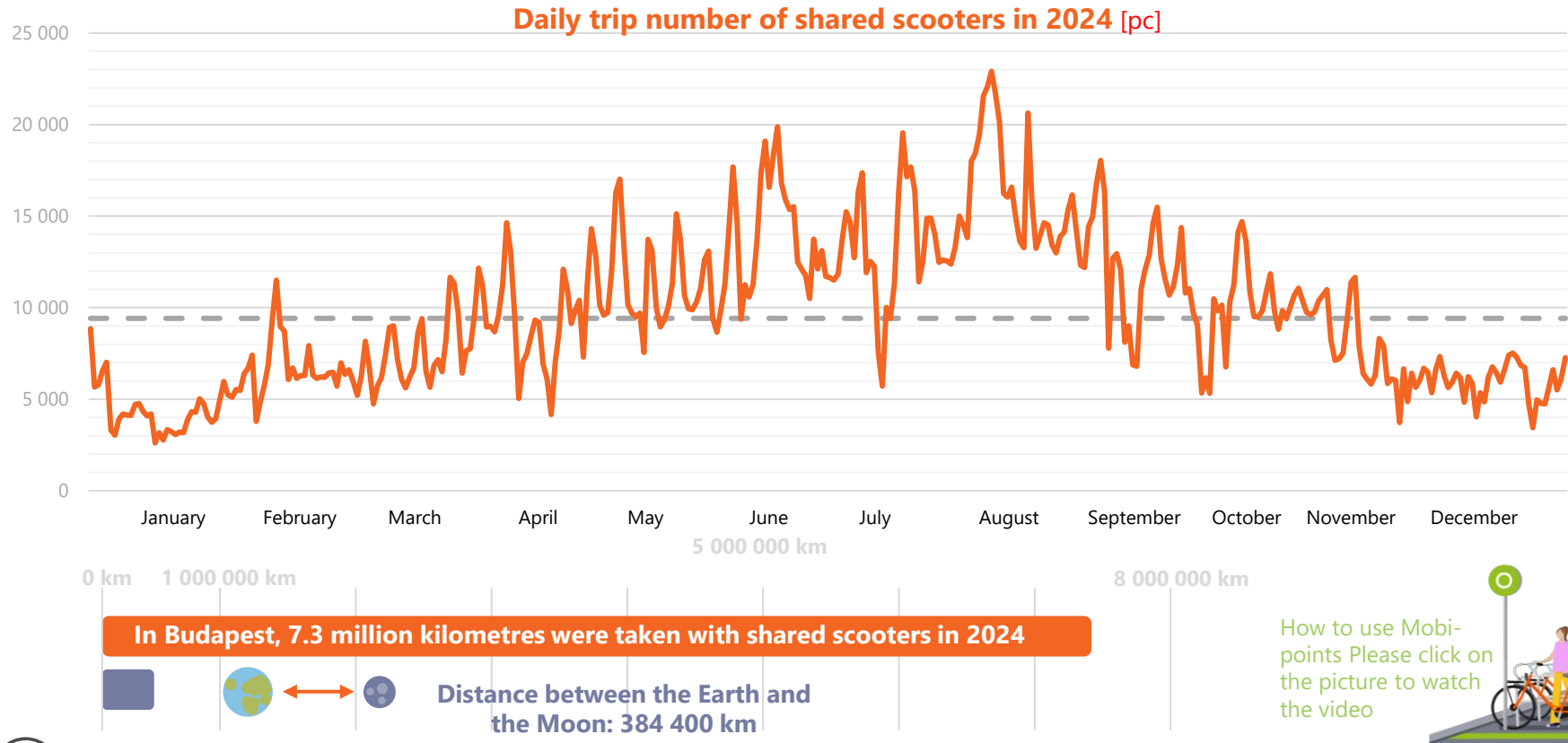
50 000

100 000



Data of shared e-scooters in 2024

Over 7 million kilometre with shared scooters in Budapest



In 2024, more than 3.5 million trips were made in Budapest using shared scooters, showing a stagnation compared to the previous year. The busiest day was August 11th, when approximately 23,000 trips were taken, which nearly matched last year's peak of over 25,000. The busiest day occurred during the Sziget Festival, when the use of active and micromobility devices increases every year, particularly for shared devices.

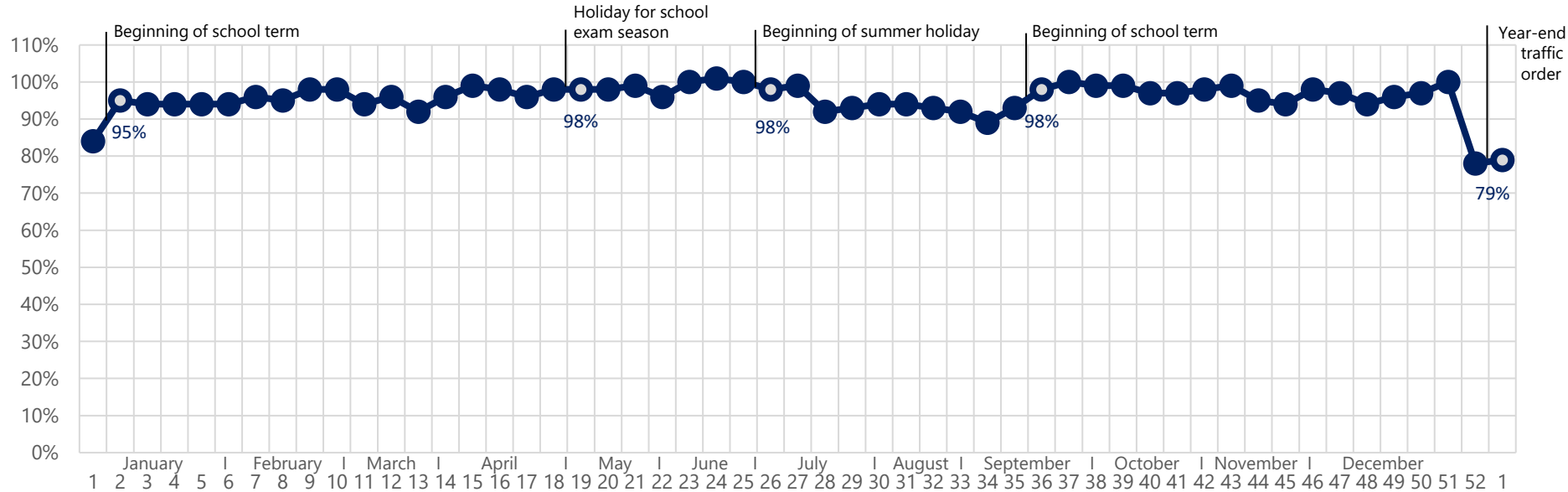


Vehicle traffic trends in 2024

The vehicle traffic data shows a balanced pattern on weekdays

Road traffic trends from January to December 2024

100% = the percentage of the average daily traffic flow measured at the road monitoring points on school days from the previous year, broken down by week



The least busy
workweek in 2024
53rd week

The busiest workweek
in 2024
24th week

Rate of average workday
traffic, 2024
95.7% (base-year 2023)

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



A közúti forgalom adatai



Remained low in 2024. The fluctuation in road traffic remained low in 2024. During exceptional periods and the summer school holidays, the reduction in traffic volume was much smaller compared to what was observed in public transport. Compared to 2023, the highest weekday traffic occurred in June 2024, which significantly dropped below the average in the last week of the year, due to a high number of vacations.

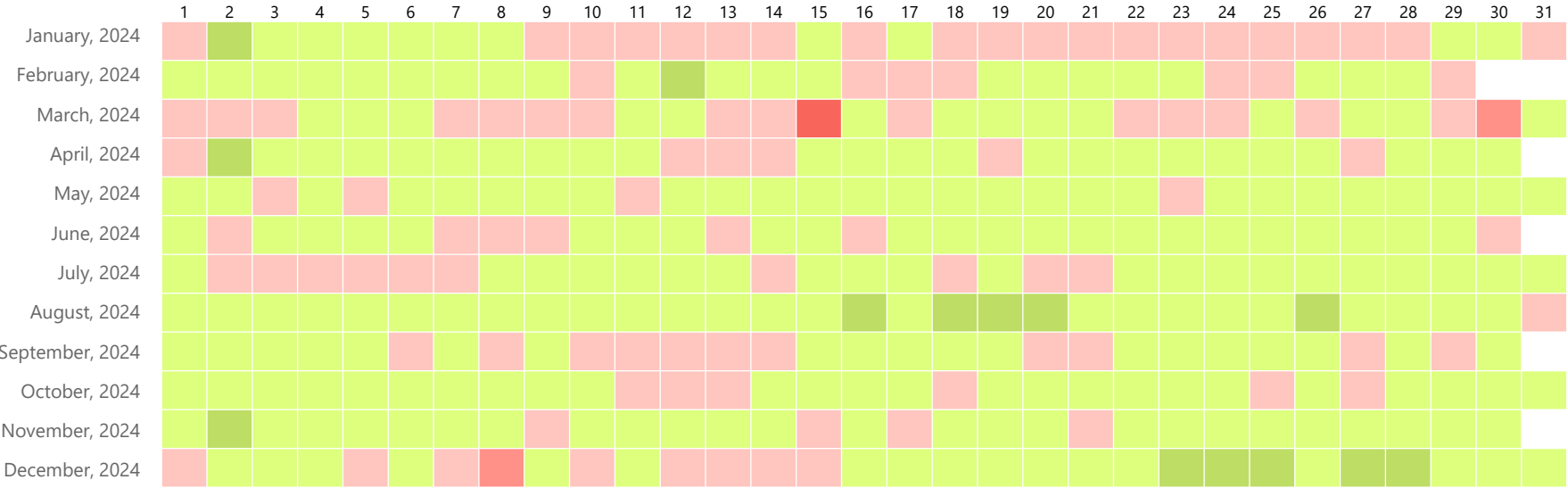


Changes of road traffic on different days in 2024

Daily values show minimal decrease compared to those measured in 2023

Rate of road traffic on different days, 1 January – 31 December 2024

compared to the value of the average day type (workday, Saturday, Sunday, holidays) of the identical month in the previous year (2023) [%]



Legend



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



Közúti forgalmi naptár



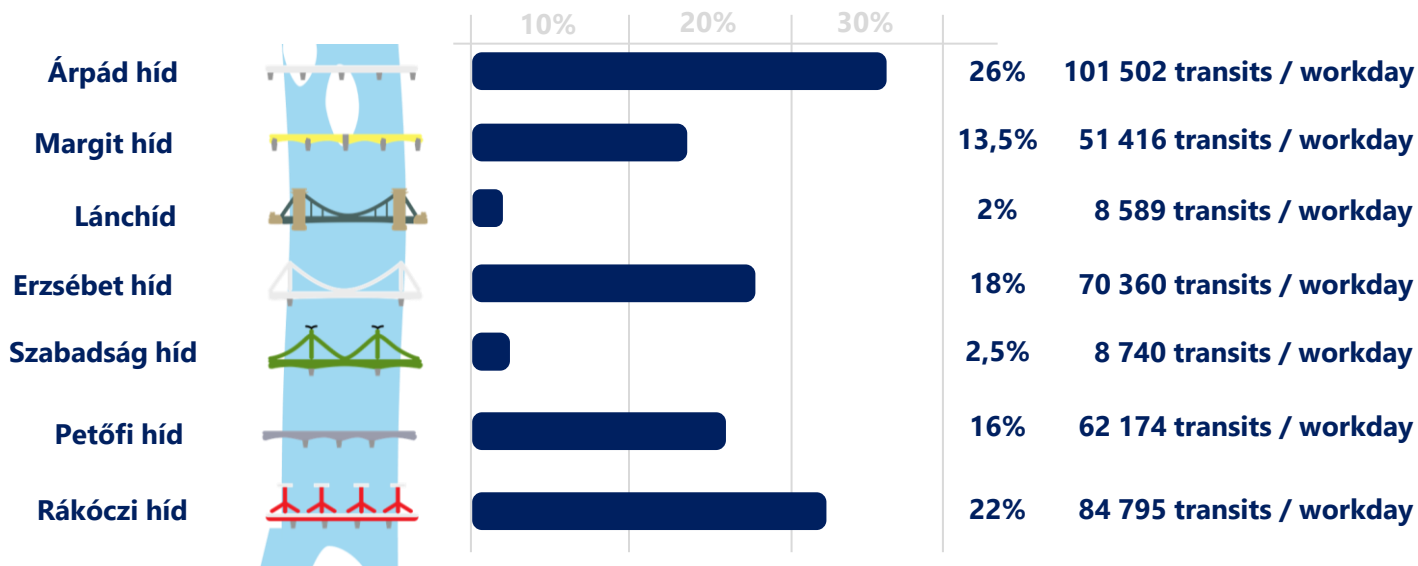
In 2024, we once again compared the daily traffic volumes with the average traffic volumes by day type of the corresponding month from the previous year. This comparison provides a more accurate picture of traffic congestion on specific days and periods. By averaging the daily values, we observed a 2% decrease compared to the previous year's data. However, when examining the largest decreases and increases, it is evident that different days of the year show significant variance. Overall, with the exception of January and March, the average monthly changes exhibited a decreasing trend in comparison to the previous year's data.



Share of road traffic on Budapest's Danube bridges in 2024

On weekdays, nearly 400 thousand vehicles cross the Danube

Share of road traffic on an average workdays at the Danube bridges 2024 [transit/workday, %]



Lowest and highest monthly average workday transit of all the bridges [changes to the numbers of the previous year]

372 183 [+3%]
January 2024

404 983 [-2%]
April 2024

Lowest
traffic
Chain bridge

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



A főbb budapesti Duna-hidak
közúti forgalmának megoszlása



The average workday traffic data of Budapest's bridges compared to each other reflect the role of the connected road network in road traffic, i.e. the bridges connected to the Hungária ring carry almost 50% of the traffic of the city centre bridges. Erzsébet híd is busier than the bridges linked to the Grand Boulevard ring, the explanation for this lies in the changing role of the Chain Bridge and the traffic changes affecting the Vármház Boulevard. There is more than an 8% difference between the lowest and highest traffic months, which is lower than the 15% measured last year.



Used methodology, contacts

All traffic data in one place: online charts available on the BKK website



BUDAPESTI
KÖZLEKEDÉSI
KÖZPONT

UTAZÁS

BKK



KAPCSOLAT

Hírek

Fejlesztések

Döntsünk közösen

Rólunk

Üzleti ügyfelek

Karrier



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 can count the passing vehicles and pedestrians by using the images of traffic surveillance cameras which are located throughout 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.

Stratégiónk

Magunkról

Fenntarthatóság, felelősségvállalás

Forgalmi adatok, diagramok

Programok a BKK-val

For more information, please click
BKK's website: [Traffic data, charts.](#)



If you have any feedback,
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We are committed to publishing as much information as possible in an easily-understandable manner. All traffic-related information can be found in a clear interface on the '[Forgalmi adatok, diagramok](#)' page on the BKK website. BudapestTrend presents data from various sectors using interactive charts.