Traffic measurement report

przejazdy_day1

Table of contents

1. Software and user information

2. Description and location of the measurement

3. Traffic volume and composition

    3.1 Traffic profiles and structure

        Traffic structure

        Traffic movement structure

        Traffic category structure by entrance

    3.2 Road micromobility

    3.3 Crosswalk participants

    3.4 Observed and daily traffic

    3.5 Peak hours

        Traffic category structure by entrance: Morning peak, 07:15–08:15

        Traffic category structure by entrance: Midday peak, 14:00–15:00

        Traffic category structure by entrance: Afternoon peak, 15:00–16:00

    3.6 Peak profiles for traffic forecasting

    3.7 Traffic at different times of day

4. Vehicle speeds

    4.1 Speed profiles and distribution

    4.2 Speed statistics and quantiles (V15, V50, V85, V95)

    4.3 Speed measurement completeness

    4.4 Speed limits

5. Threshold exceedances and special vehicles

    5.1 Speed threshold exceedances

    5.2 Estimated vehicle mass

5.3 Special vehicles

1. Software and user information

- AITracker version: 3.0.5
- Software version: v3.0.5-5-gde8707c79-fixes.training_export
- Company: AISP SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ
- Address: Konarskiego 18C
- Website: www.aisp.pl
- Generated by: s.paszko@aisp.pl
- Created at: 2026-10-29 17:48:17

2. Description and location of the measurement

Report assumptions: main cartograms, directional structures, vehicle profiles, peaks and PHF cover road vehicles on Road movements.

Road micromobility is presented separately. Crosswalk participants cover pedestrians and micromobility on Crosswalk movements.

Daily or annual traffic is named only when its stated method and input range support that meaning.

Speed statistics use valid road-vehicle measurements. ALPR uses road vehicles and treats a plate as read when at least one letter is recognized. The active classification controls category presentation after the business population is selected.

Start time: **00:00**. End time: **23:59**. Measurement duration: **23 h 59 min 59 s**.

Vehicle classification: **usa.fhwa13**.

Vehicles	Road micromobility	All road participants	Crosswalk participants
10 874	7	10 881	461

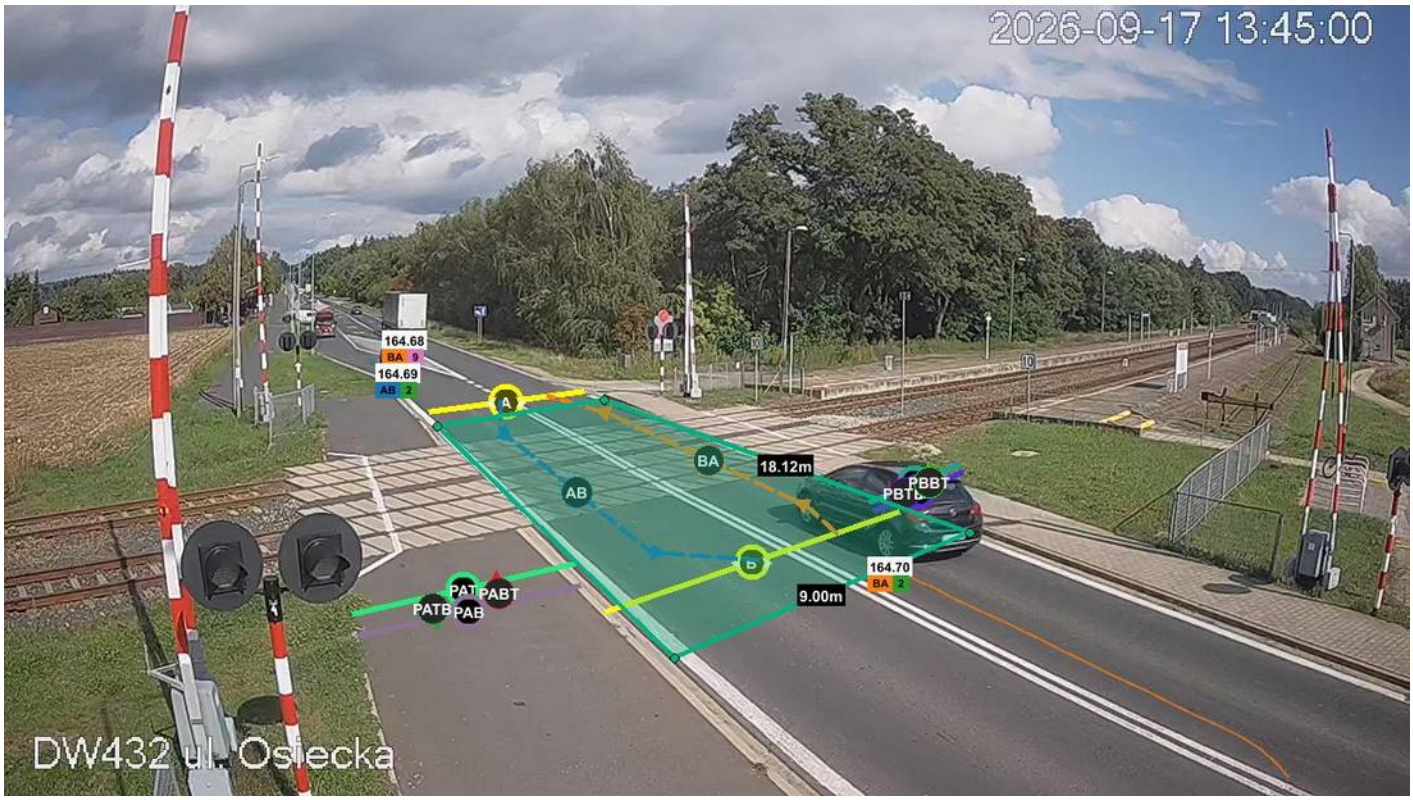
Vehicle structure

Light vehicles	Heavy vehicles
10 014 (92.1%)	860 (7.9%)

Bus transport

Buses	Minibuses
93 (0.9%)	34 (0.3%)

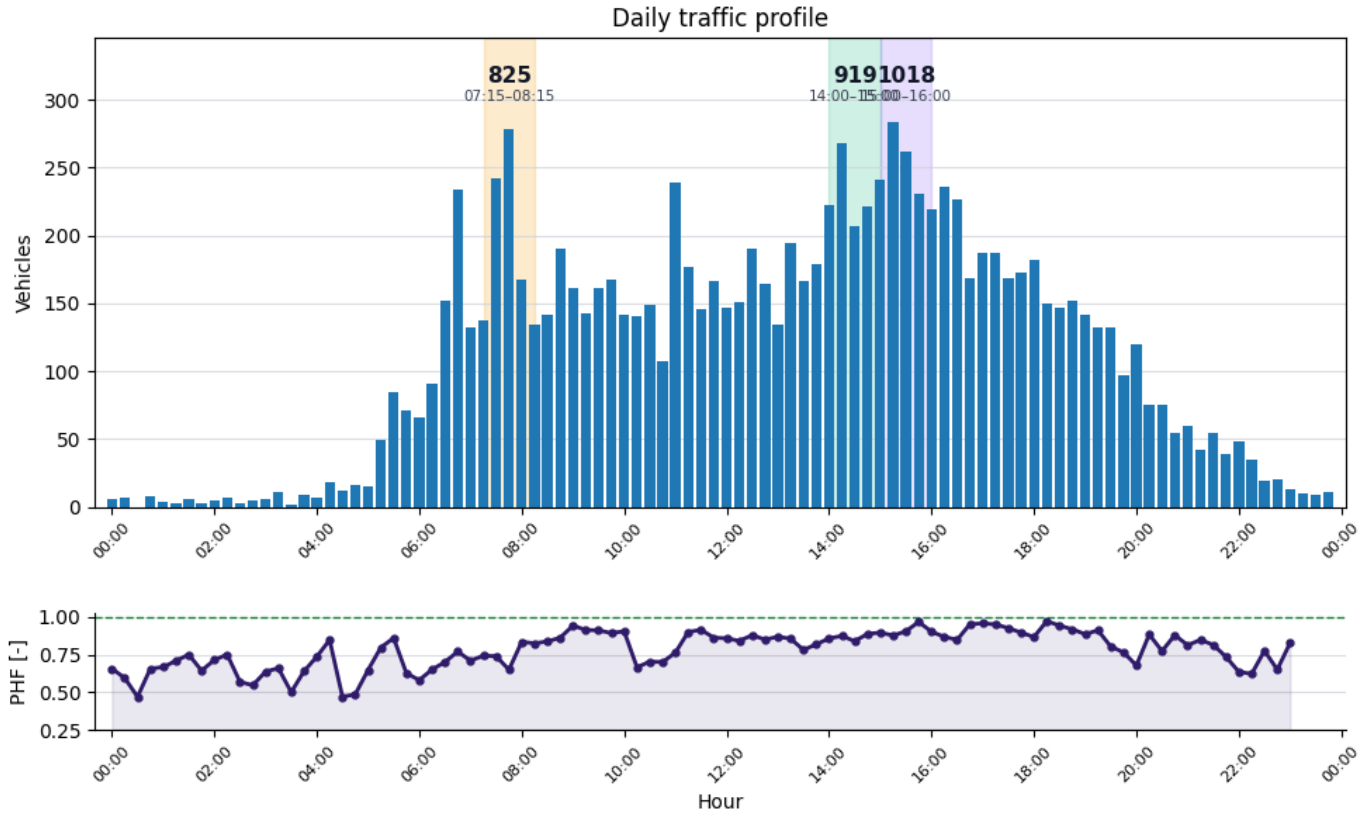
1. Camera view



2. Measuring point view with processing guidelines and configuration.

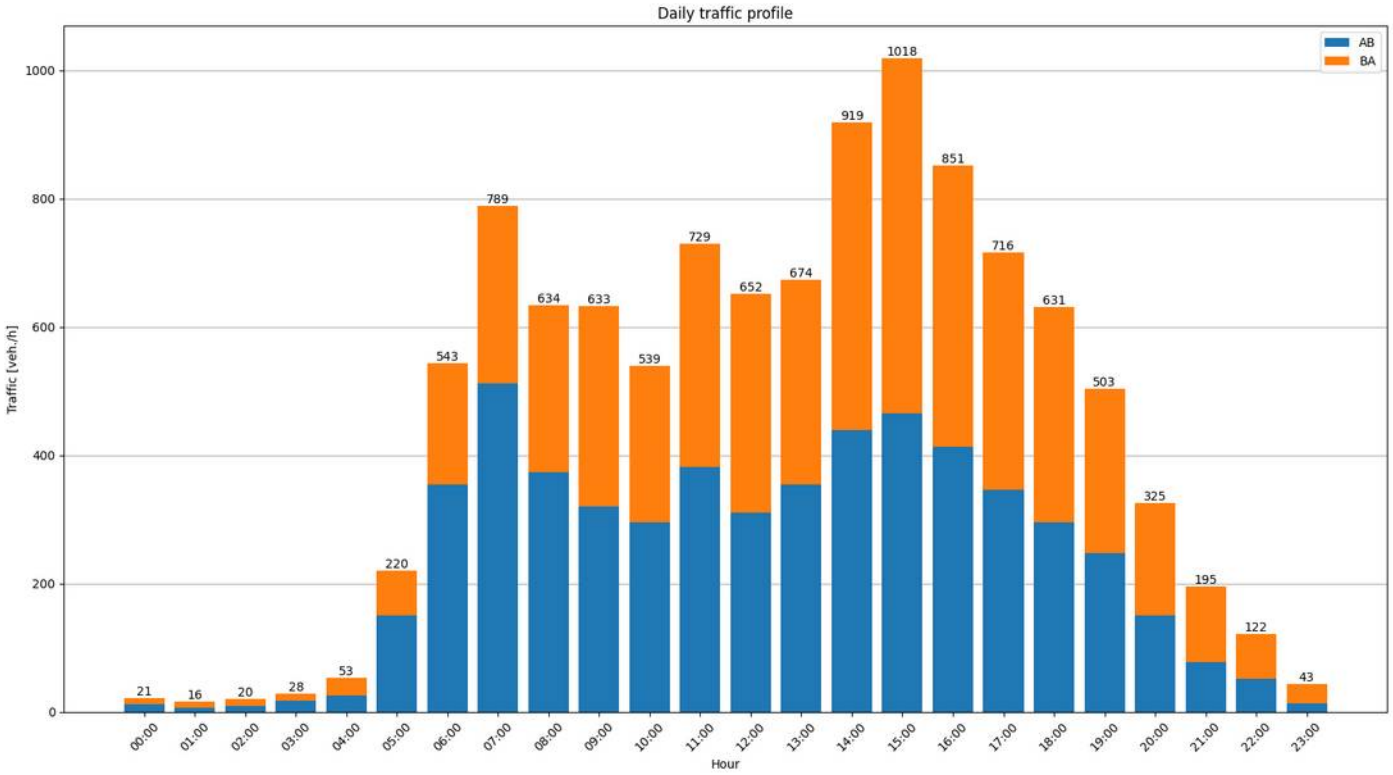
3. Traffic volume and composition

3.1 Traffic profiles and structure

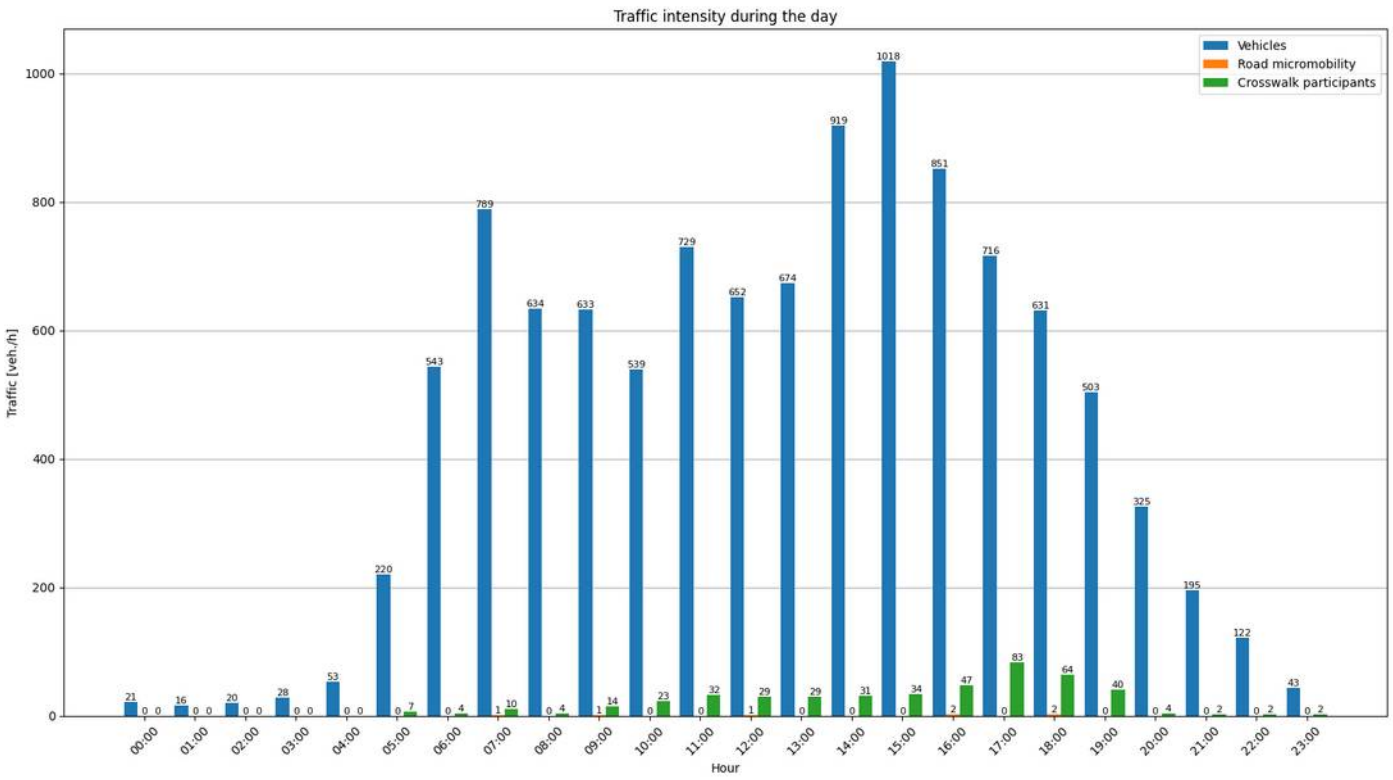


3. Daily traffic profile

PHF values closer to 1.00 indicate a more even distribution of vehicle traffic within the hour; lower values indicate that traffic is concentrated in one of its 15-minute intervals.

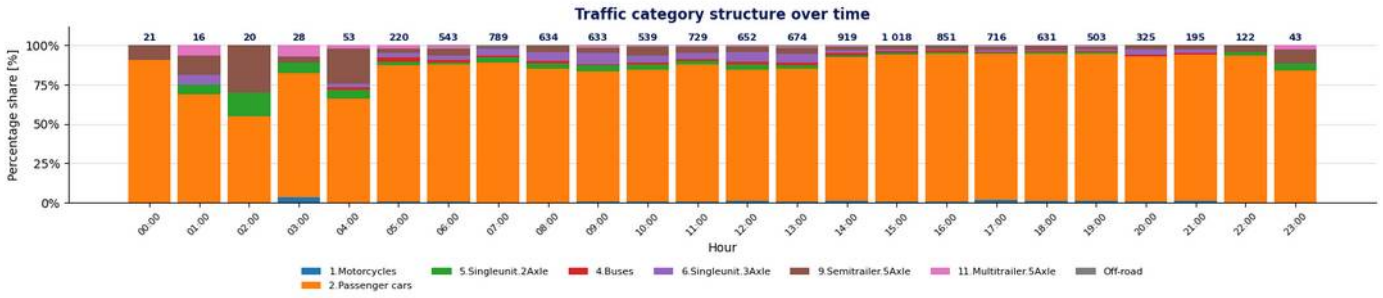


4. Hourly traffic chart for each direction separately.



5. Traffic intensity during the day for vehicles, road micromobility and crosswalk participants.

6. Daily road traffic structure by vehicle category.

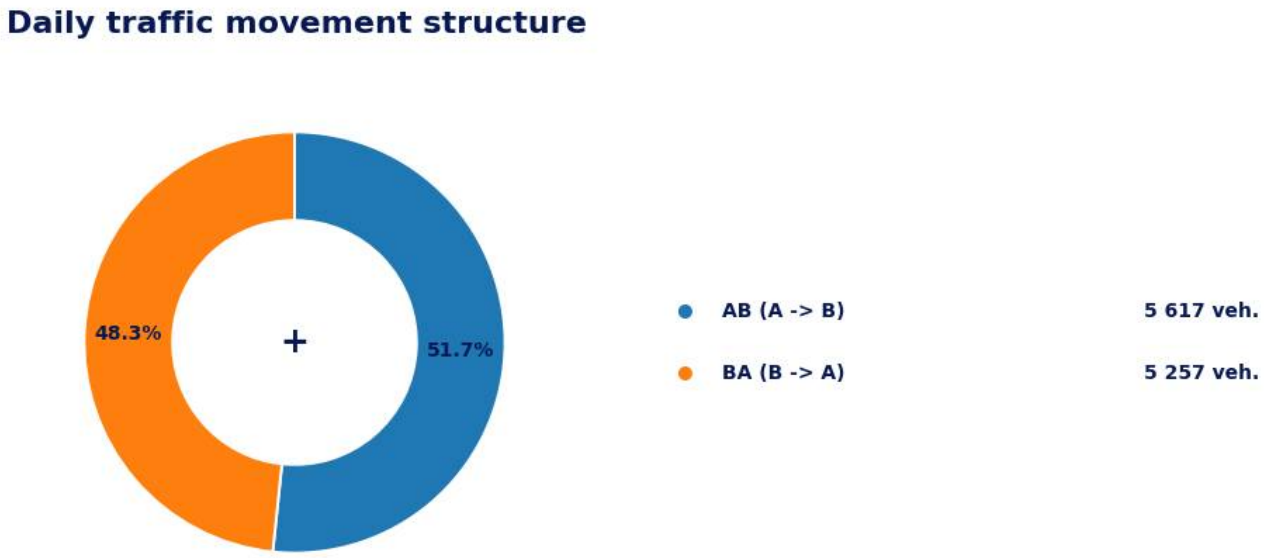


7. Traffic category structure over time

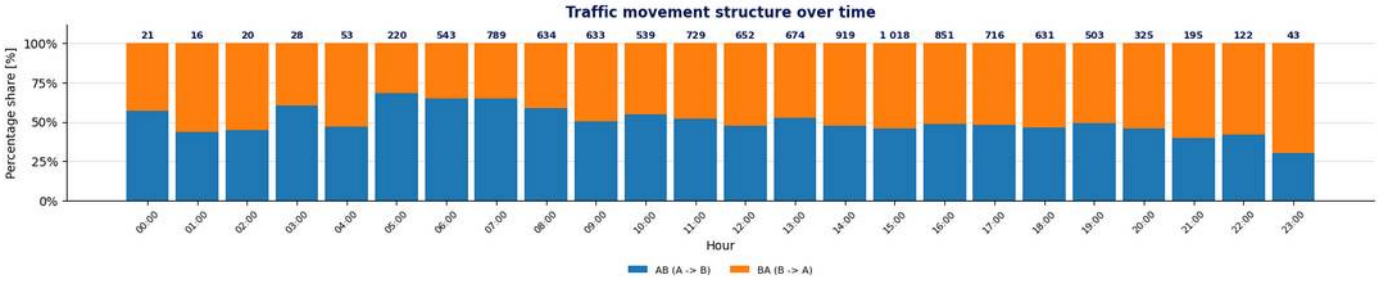
Traffic structure

Percentage share of vehicle categories in measured road traffic:

- Category **0.Bicycles-PT**, **0 vehicles**, share **0.00%**.
- Category **1.Motorcycles**, **85 vehicles**, share **0.78%**.
- Category **2.Passenger cars**, **9671 vehicles**, share **88.94%**.
- Category **5.Singleunit.2Axle**, **224 vehicles**, share **2.06%**.
- Category **4.Buses**, **127 vehicles**, share **1.17%**.
- Category **6.Singleunit.3Axle**, **331 vehicles**, share **3.04%**.
- Category **9.Semitrailer.5Axle**, **342 vehicles**, share **3.15%**.
- Category **11.Multitrailer.5Axle**, **58 vehicles**, share **0.53%**.
- Category **11.Multitrailer.7Axle**, **0 vehicles**, share **0.00%**.
- Category **Off-road**, **36 vehicles**, share **0.33%**.



8. Daily inbound traffic structure by movement.



9. Traffic movement structure over time

Traffic movement structure

Number and percentage share of movements in measured road traffic:

- Movement **AB (A -> B)**, **5617 vehicles**, share **51.66%**.
- Movement **BA (B -> A)**, **5257 vehicles**, share **48.34%**.

10. Circular cartogram of traffic relations.

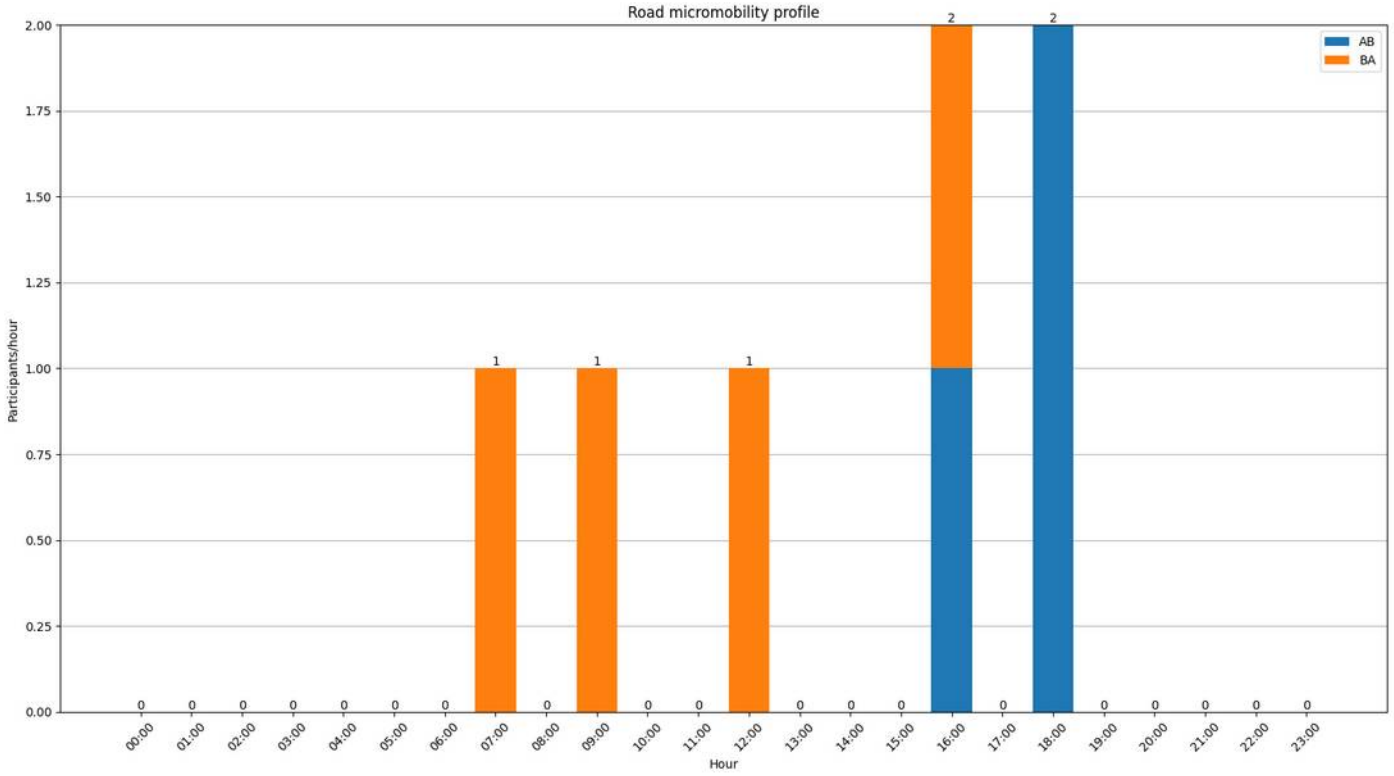
Traffic category structure by entrance

Number of vehicles by category

Entrance description	0	1	2	5	4	6	9	11	11	Off-road
B	0	43	4 660	109	63	158	178	30	0	16
A	0	42	5 011	115	64	173	164	28	0	20

3.2 Road micromobility

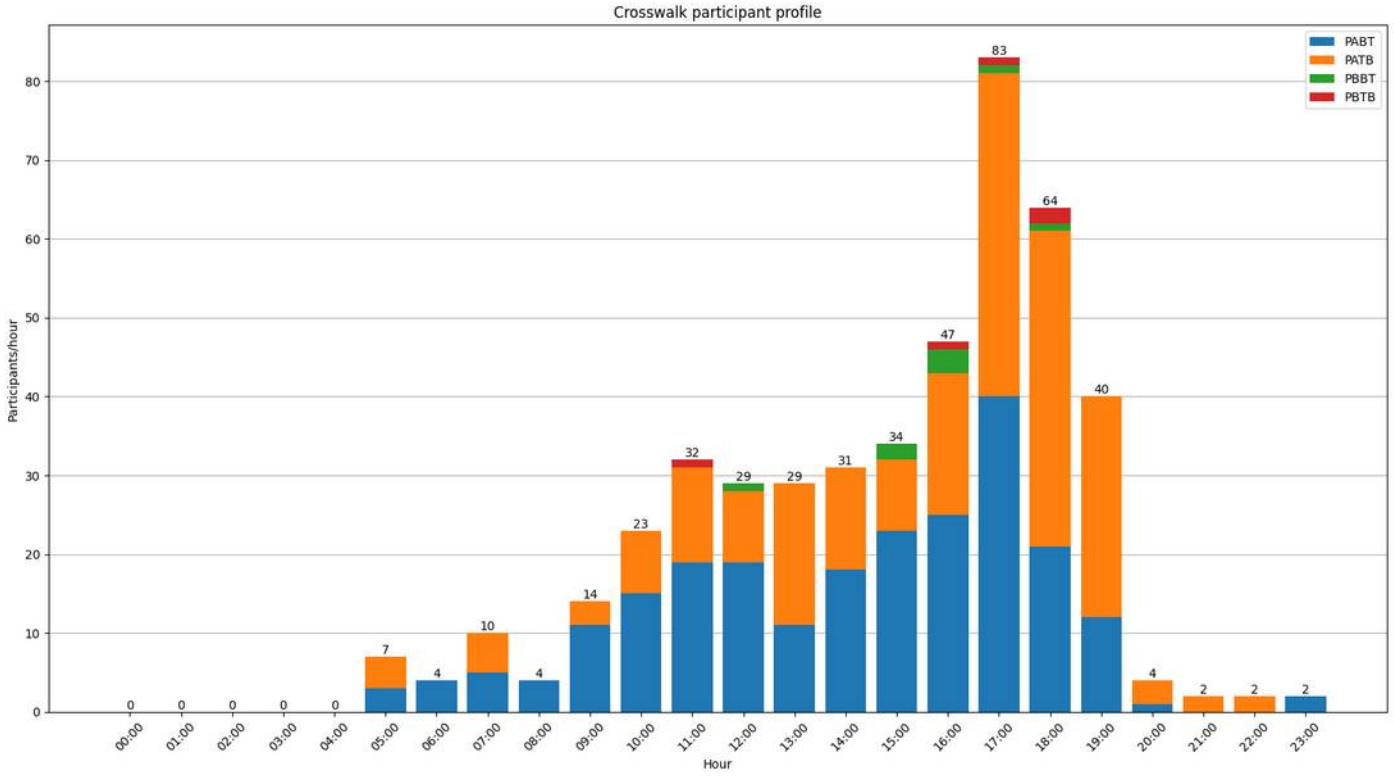
Road movements contained **7** micromobility participants; their share of all road participants was **0.06%**.



11. Road micromobility profile

Participant group	Quantity and share
Bicycles	7 (100.0%)
Personal transport devices	0 (0.0%)
Scooters	0 (0.0%)

3.3 Crosswalk participants



12. Crosswalk participant profile

Participant group	Quantity
Pedestrians	40
Bicycles	410
Personal transport devices	0
Scooters	11
Total participants	461

- Crosswalk movement **PABT**: **233 participants**.
- Crosswalk movement **PATB**: **215 participants**.
- Crosswalk movement **PBBT**: **8 participants**.
- Crosswalk movement **PBTB**: **5 participants**.

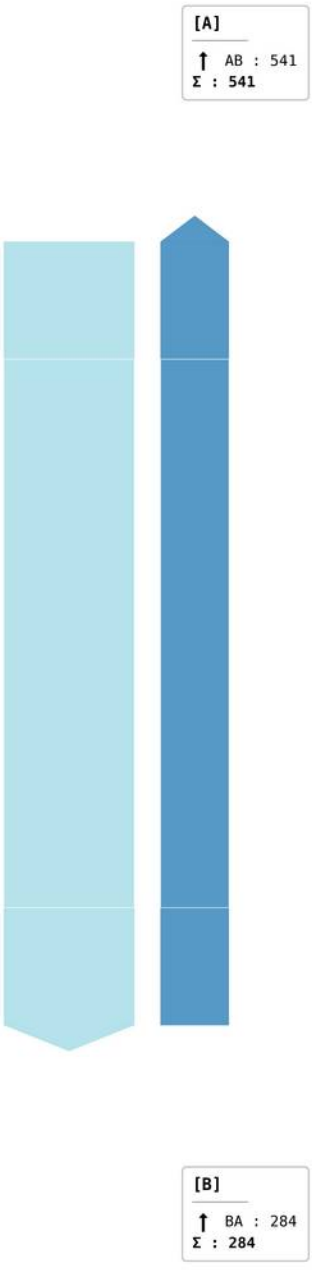
3.4 Observed and daily traffic

Observed **10874 vehicles** between **00:00** and **23:59** (23 h 59 min 59 s).

3.5 Peak hours

Period	Hour	Vehicles	Crosswalk pedestrians	Crosswalk micromobility	All crosswalk participants	Road micromobility	PHF
Morning peak	07:15–08:15	825	0	3	3	1	0.74

Period	Hour	Vehicles	Crosswalk pedestrians	Crosswalk micromobility	All crosswalk participants	Road micromobility	PHF
Midday peak	14:00–15:00	919	3	28	31	0	0.86
Afternoon peak	15:00–16:00	1 018	2	32	34	0	0.90



13. Traffic cartogram: Morning peak, 07:15–08:15

Traffic category structure by entrance: Morning peak, 07:15–08:15

Number of vehicles by category

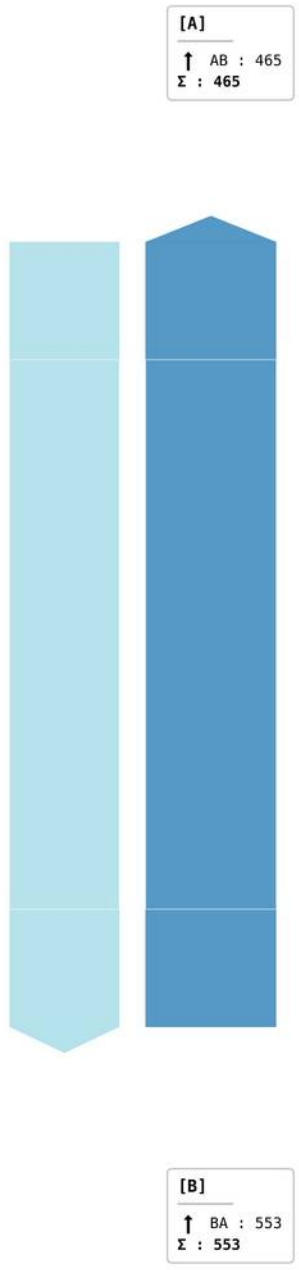
Entrance description	0	1	2	5	4	6	9	11	11	Off-road
B	0	0	234	16	4	21	8	0	0	1
A	0	0	490	12	7	18	9	2	0	3

14. Traffic cartogram: Midday peak, 14:00–15:00

Traffic category structure by entrance: Midday peak, 14:00–15:00

Number of vehicles by category

Entrance description	0	1	2	5	4	6	9	11	11	Off-road
B	0	5	437	7	9	10	10	1	0	1
A	0	5	404	3	3	8	11	1	0	4



15. Traffic cartogram: Afternoon peak, 15:00–16:00

Traffic category structure by entrance: Afternoon peak, 15:00–16:00

Number of vehicles by category

Entrance description	0	1	2	5	4	6	9	11	11	Off-road
B	0	5	517	6	5	4	12	3	0	1
A	0	2	431	8	7	5	10	1	0	1

3.6 Peak profiles for traffic forecasting

The measurement date is unavailable, so the workday/weekend peak profile cannot be determined. Set the measurement date in reporting settings.

3.7 Traffic at different times of day

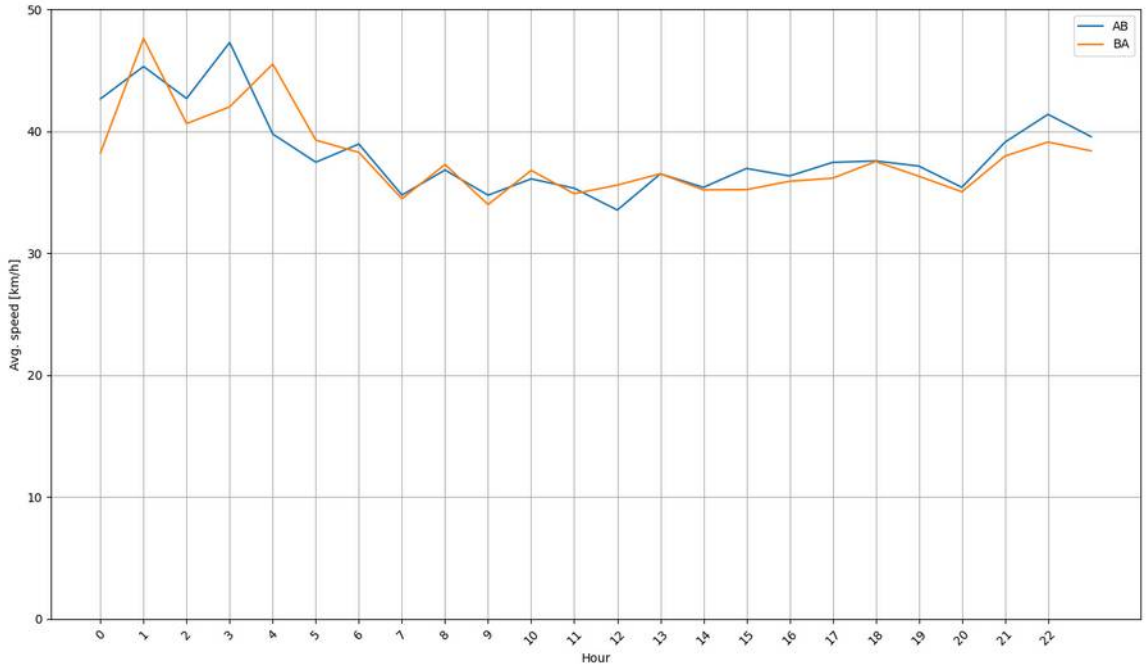
Population	Day 06:00–18:00	Evening 18:00–22:00	Night 22:00–06:00	Total
Road vehicles	8 697 (80.0%)	1 654 (15.2%)	523 (4.8%)	10 874
Road micromobility	5 (71.4%)	2 (28.6%)	0 (0.0%)	7
Crosswalk participants	340 (73.8%)	110 (23.9%)	11 (2.4%)	461

4. Vehicle speeds

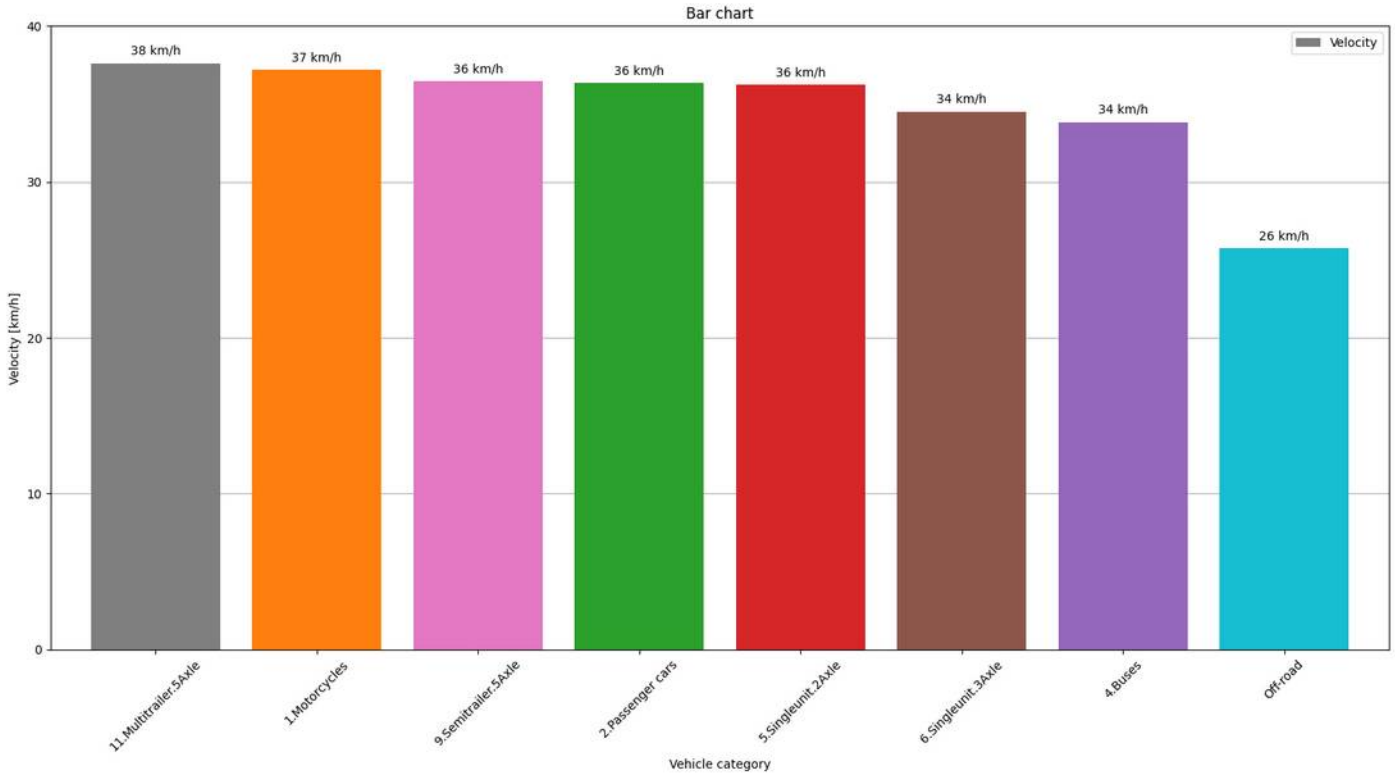
A total of **10874** road vehicles were included.

Valid speed measurements: **10873/10874**. Missing: **0**. Rejected: **1**.

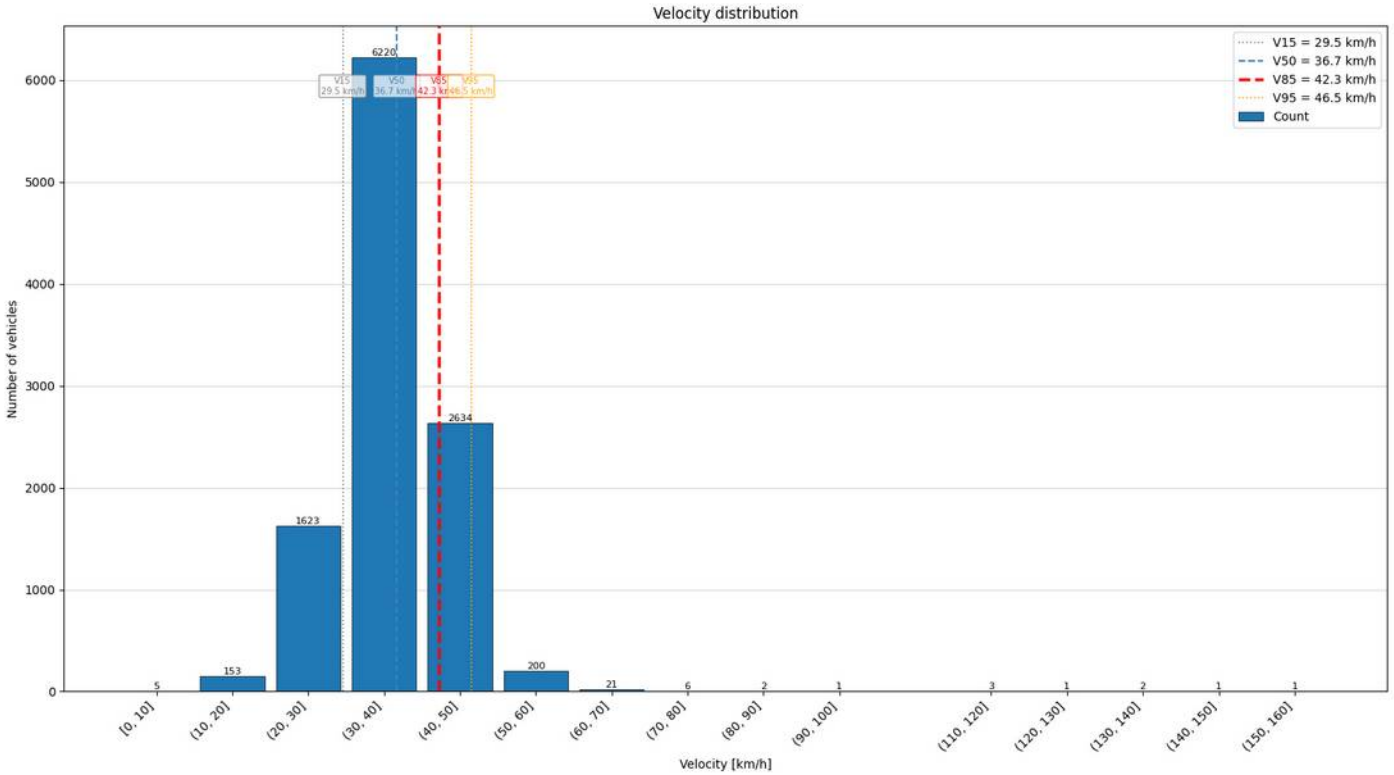
4.1 Speed profiles and distribution



16. Average vehicle speed graph.



17. Average speed of vehicles per category.



18. Vehicle speed distribution.

Histogram intervals are right-closed: (50, 60] includes 60 km/h and excludes 50 km/h; the first interval includes zero.

4.2 Speed statistics and quantiles (V15, V50, V85, V95)

- **V15:** 29.55 km/h (Slow vehicles)
- **V50:** 36.67 km/h (Median speed)
- **V85:** 42.27 km/h (85th percentile)
- **V95:** 46.45 km/h (95th percentile)

The average speed of the vehicles is **36.24 km/h**.

Depending on the direction:

- Direction **AB**, **V = 36.40 km/h**, **V85 = 42.64 km/h** - measured 5617 vehicles,
- Direction **BA**, **V = 36.07 km/h**, **V85 = 41.83 km/h** - measured 5256 vehicles,

Depending on the vehicle category:

- 1.Motorcycles, **V = 37.19 km/h**, **V85 = 43.47 km/h** - measured 85 vehicles,
- 11.Multitrailer.5Axle, **V = 37.61 km/h**, **V85 = 46.58 km/h** - measured 58 vehicles,
- 2.Passenger cars, **V = 36.35 km/h**, **V85 = 42.26 km/h** - measured 9670 vehicles,
- 4.Buses, **V = 33.84 km/h**, **V85 = 39.42 km/h** - measured 127 vehicles,
- 5.Singleunit.2Axle, **V = 36.22 km/h**, **V85 = 43.16 km/h** - measured 224 vehicles,
- 6.Singleunit.3Axle, **V = 34.50 km/h**, **V85 = 40.66 km/h** - measured 331 vehicles,
- 9.Semitrailer.5Axle, **V = 36.45 km/h**, **V85 = 43.63 km/h** - measured 342 vehicles,
- Off-road, **V = 25.74 km/h**, **V85 = 31.11 km/h** - measured 36 vehicles,

4.3 Speed measurement completeness

Speed has been measured for **99.99%, 10873/10874** Vehicles.

Speed above 160km/h classified as invalid.
This applied to 0.01%, 1/10874 vehicles.

Precision in relation to movement direction:

- Direction **AB**, **100.00% 5617/5617**,
- Direction **BA**, **99.98% 5256/5257**,

Precision in relation to the vehicle category:

- Category **1.Motorcycles**, **100.00% 85/85**,
- Category **11.Multitrailer.5Axle**, **100.00% 58/58**,
- Category **2.Passenger cars**, **99.99% 9670/9671**,
- Category **4.Buses**, **100.00% 127/127**,
- Category **5.Singleunit.2Axle**, **100.00% 224/224**,
- Category **6.Singleunit.3Axle**, **100.00% 331/331**,
- Category **9.Semitrailer.5Axle**, **100.00% 342/342**,
- Category **Off-road**, **100.00% 36/36**,

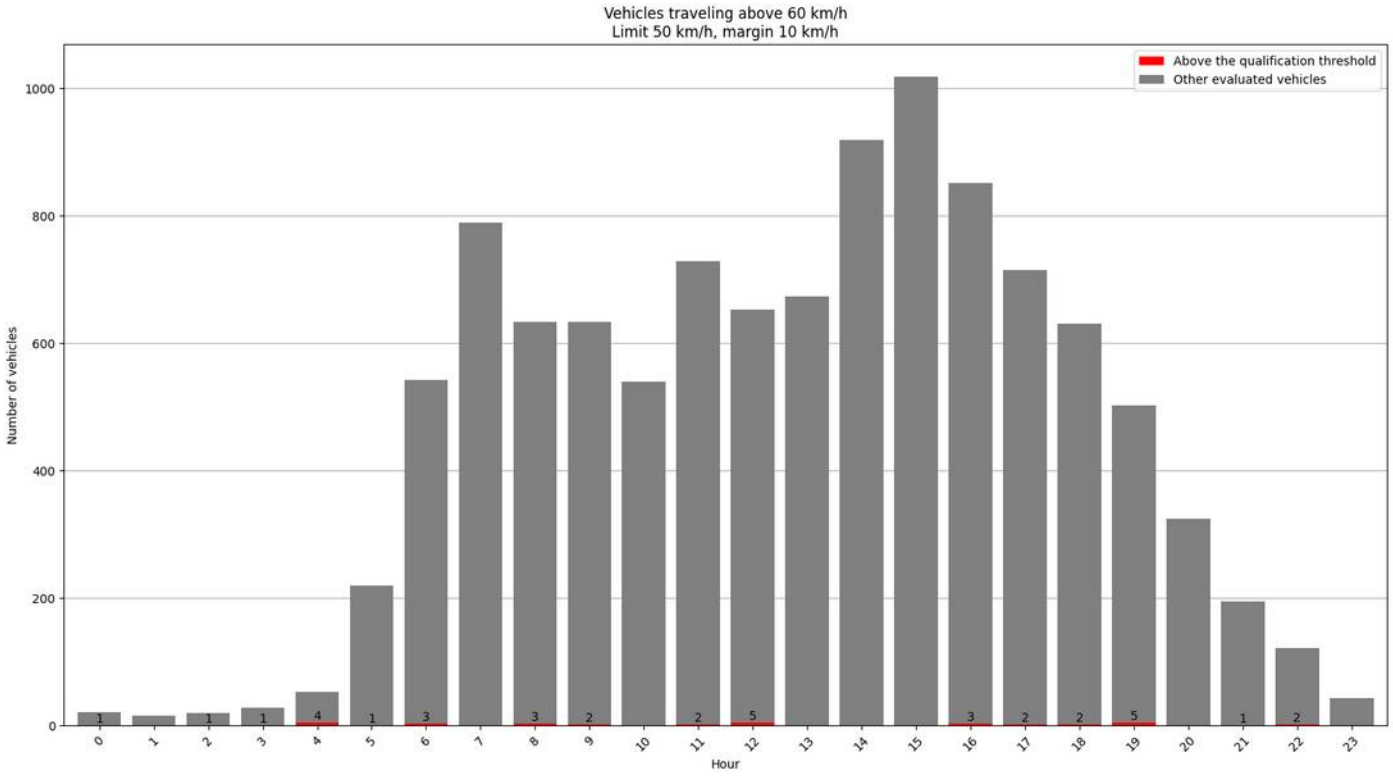
4.4 Speed limits

Configured limits: **50.0 km/h** during 05:00–22:00 and **50.0 km/h** during 22:00–05:00. Qualification margin: **10.0 km/h**.

Among **10873** valid measurements with an applicable limit, **238 (2.19%)** exceeded the limit and **38 (0.35%)** exceeded the limit plus margin.

5. Threshold exceedances and special vehicles

5.1 Speed threshold exceedances



19. Vehicles traveling above 60 km/h. Limit 50 km/h, margin 10 km/h

The evaluated sample contains **10873 vehicles**. The qualification threshold was exceeded by **38 vehicles — 0.35%**.

The legal limit is **50 km/h**, the margin is **10 km/h**, and the qualification threshold is **60 km/h**.

Qualification-threshold results by direction

Direction	Evaluated vehicles	Qualified vehicles	Share
AB	5617	13	0.23%
BA	5256	25	0.48%

Qualification-threshold results by time of day

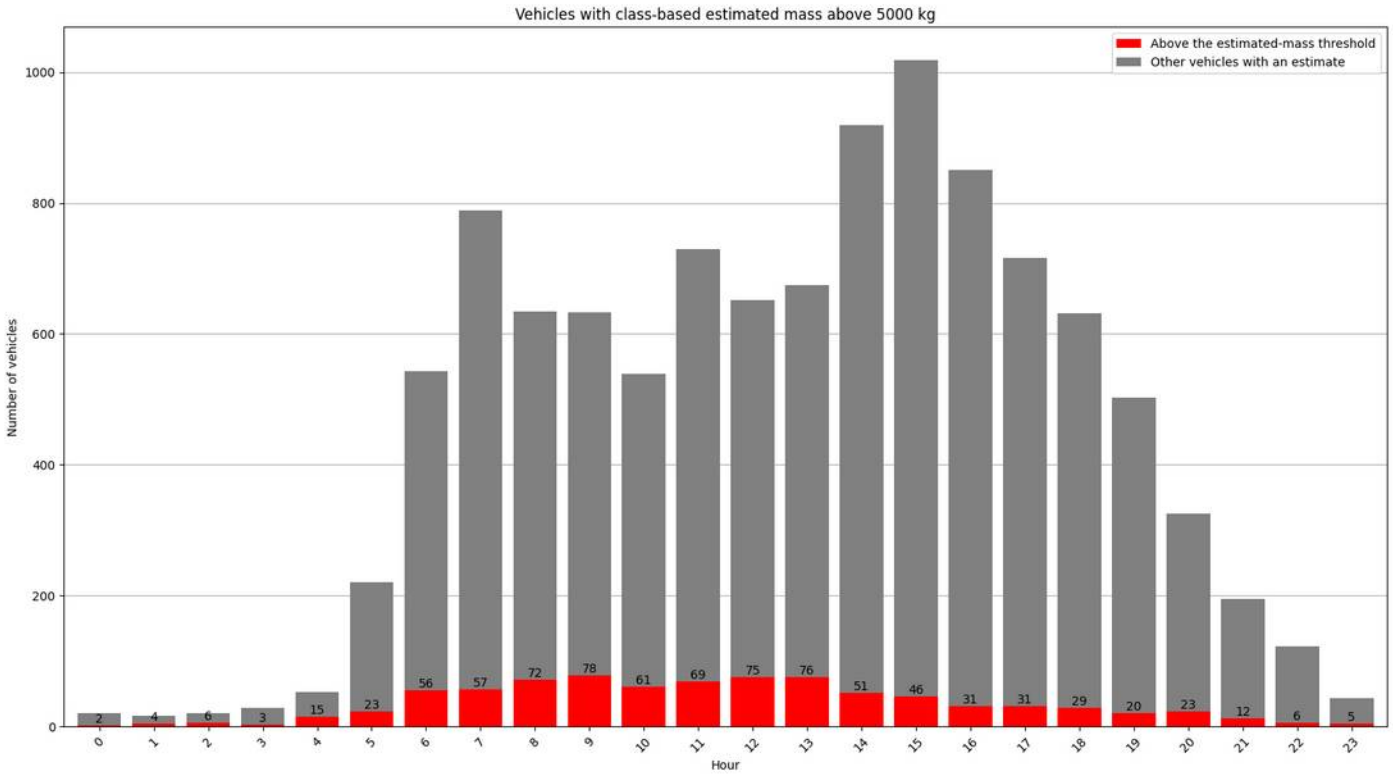
Time of day	Evaluated vehicles	Qualified vehicles	Share
Night 22:00–05:00	303	9	2.97%
Day 05:00–22:00	10570	29	0.27%

The following exceedance-size intervals refer to the legal speed limit itself, without the qualification margin.

Intervals are right-closed: (0, 10] includes an exceedance of exactly 10 km/h, while 10 km/h is excluded from (10, 20].

- Exceedance band **(0, 10] km/h**: **200 vehicles**.
- Exceedance band **(10, 20] km/h**: **21 vehicles**.
- Exceedance band **(20, 30] km/h**: **6 vehicles**.
- Exceedance band **(30, 40] km/h**: **2 vehicles**.
- Exceedance band **(40, 50] km/h**: **1 vehicles**.
- Exceedance band **> 50 km/h**: **8 vehicles**.

5.2 Estimated vehicle mass



20. Vehicles with class-based estimated mass above 5000 kg

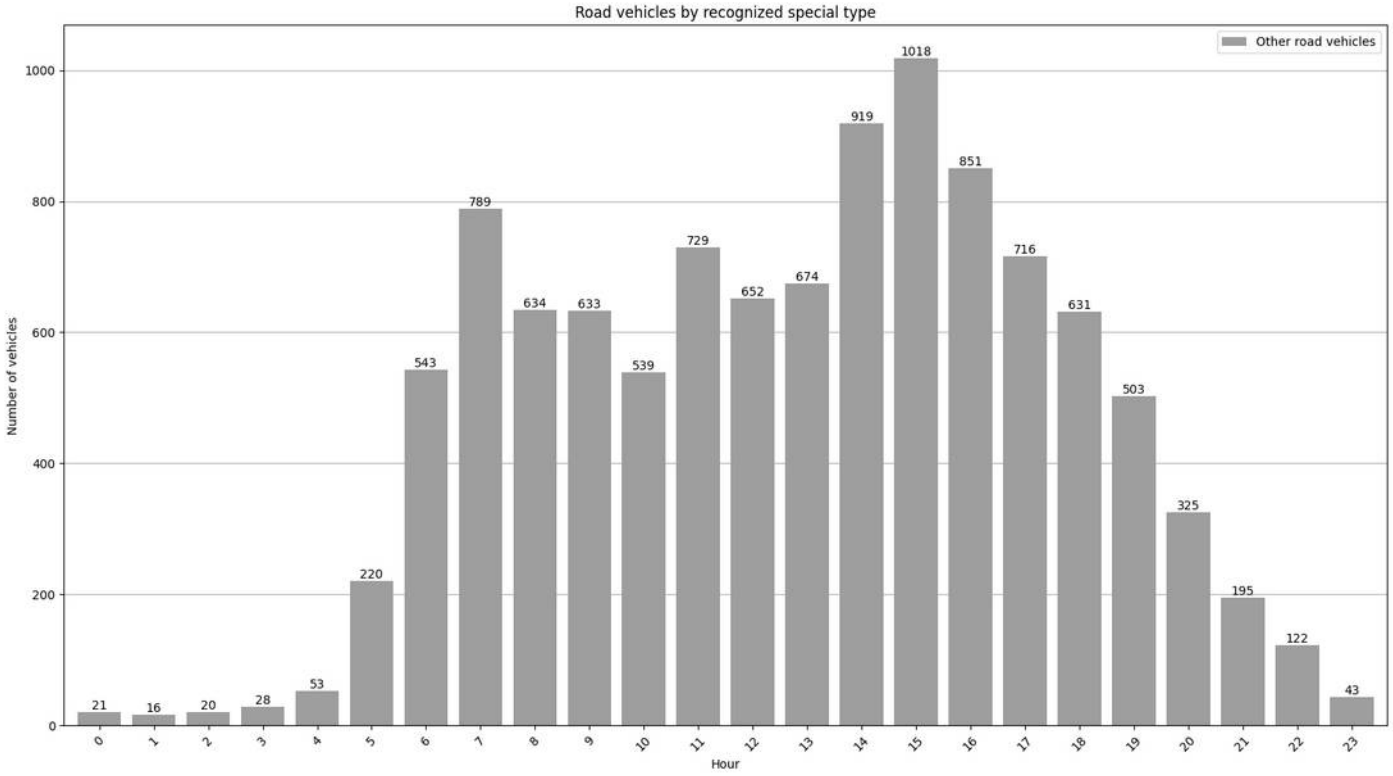
The estimated-mass sample contains **10874 vehicles**. The threshold was exceeded by **851 vehicles — 7.83%**.

Vehicle mass was not measured. It is estimated from the raw vehicle class and does not confirm the actual mass of an individual vehicle.

Estimated-mass threshold results by direction

Direction	Evaluated vehicles	Qualified vehicles	Share
AB	5617	424	7.55%
BA	5257	427	8.12%

5.3 Special vehicles



21. Road vehicles by recognized special type

Recognized special vehicles: **0 of 10874 road vehicles — 0.00%**. Other road vehicles: **10874**.

No special vehicles were recognized.