Barometer of mobile Internet connections in Slovakia

01/01/2024 - 12/31/2024

Expert in the telecom network optimization

nPerf is an independent French company based in Lyon (France). For over a decade, nPerf has been a trusted partner for both fixed and mobile operators, providing comprehensive network testing solutions and analysis. Our mission is to accurately measure, evaluate, and enhance the understanding of Internet connectivity around the world.
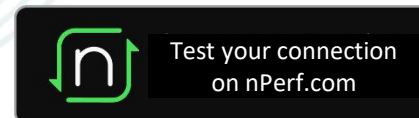
300k+ tests daily worldwide.

26Md+ coverage scans in total.

3k+ servers all around the world.

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The subscribers of Telekom enjoyed the best mobile Internet performances in 2024.

Mobile Internet connections in Slovakia

	4ka	O2	Orange	Telekom
▼ Download bitrates (Mb/s)	33,17	48,65	74,44	111,10
▲ Upload bitrates (Mb/s)	12,77	15,47	18,03	29,82
◀▶ Latency (ms)	35,18	30,91	30,31	29,87
🌐 Web browsing (%)	73,27	75,98	74,62	78,05
▶ Youtube streaming (%)	85,19	83,36	80,46	86,67
nPerf Score (nPoints)	77 965	86 349	90 457	104 758

Source : nperf.com

Best mobile Internet performance in 2024

No.1 MOBILE NETWORK PERFORMANCE
nperf AWARDS
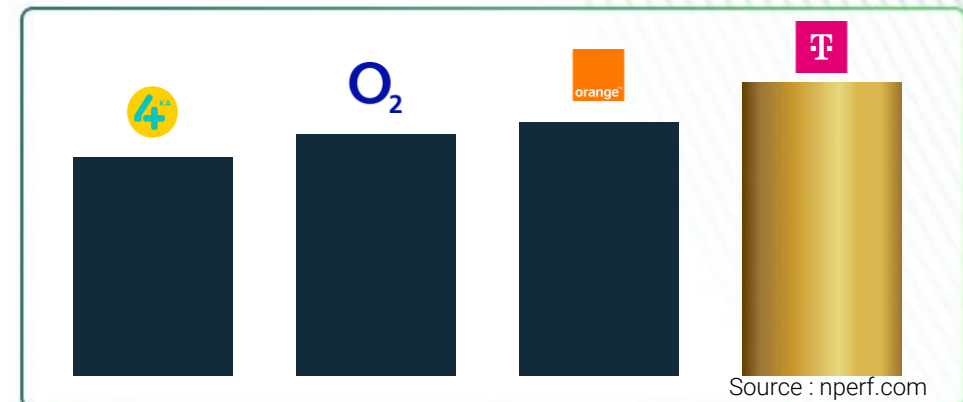
Source : nperf.com

Source : nperf.com

The subscribers of Telekom enjoyed the best 5G Internet performances in Slovakia in 2024.

5G mobile Internet connections in Slovakia

	4ka	O2	Orange	Telekom
Download bitrates (Mb/s)	139,91	83,86	125,83	189,24
Upload bitrates (Mb/s)	22,99	19,61	24,03	45,91
Latency (ms)	29,44	26,72	27,20	24,59
Web browsing (%)	83,52	81,86	80,41	81,80
Youtube streaming (%)	92,21	84,79	82,91	88,43
nPerf Score (nPoints)	113 395	101 354	105 561	121 482

Source : nperf.com

Introduction

In 2024, the focus remains on the mobile technology sector, particularly 5G, in the country of Slovakia. Telekom maintains its position as the market leader, showing significant improvements in key performance indicators (KPIs) compared to the previous year. Notably, Telekom is not a new leader, as it also led in 2023. The consistent leadership by Telekom illustrates its strong market presence. Telekom continues to excel across all KPIs, including download speed, upload speed, latency, browsing, and video streaming. Furthermore, Telekom leads in the 5G focus, indicating its dominance in advanced mobile technology. The market shows positive trends with enhancements in both operator performance and technological advancements.

Telekom: Market Leader with Exceptional Performance

For the analyzed period, Telekom emerges as the market leader with exceptional performance. The operator demonstrates a strong global score, maintaining its leadership in download speed, upload speed, and browsing. It also showcases remarkable latency and streaming capabilities. Telekom is the undisputed leader in 5G, solidifying its position as a pioneer in mobile connectivity.

Orange: Excellence in Latency

Orange exhibits excellence in latency. With a competitive global score, Orange stands out in these areas, contributing significantly to its robust market presence. It continues to play a vital role in the mobile network landscape.

O2: Significant Improvement in Score

O2 shows a notable improvement in its global score, with a remarkable increase of 14.3%. Despite not being the market leader, O2's progress highlights its dedication to enhancing service quality and customer experience.

4ka: Caching up with the top competitors

4ka achieves an impressive score growth of 21.5%, reflecting substantial improvements in its network performance. Although not leading in specific KPIs, 4ka's overall progress underscores its contribution to the market's competitive dynamics.

Conclusion

Telekom stands out as the market leader, demonstrating superior performance across all key areas, including a strong focus on 5G technology. The market remains competitive, with Orange, O2, and 4ka showing significant strengths in various categories. The positive trends and advancements in mobile technology suggest a promising outlook for the future, driven by the operators' continuous efforts to enhance connectivity and service quality.

nPerf provides a free application to assess Internet connection quality via its website and mobile apps (Android, iOS). Daily, thousands of people rely on nPerf for speed tests in their country, contributing to a comprehensive crowdsourced database covering all operators.

The study employs a strong filtering method to reflect real customer experiences on a specific network (mobile or fixed line). Measures are taken to prevent probes and measurement robots from affecting the results.

We assess:

▼ Download birate

Indicates the amount of data your connection can receive in one second from the nPerf server. The highest the measured value, the best is the bitrate of your connection.

▲ Upload birate

Indicates the amount of data your connection can send in one second to the nPerf server. The highest the measured value, the best is the bitrate of your connection.

◄► Latency (ping)

It indicated the delay a small packet of data requires to make a round-trip from your computer to the nPerf server. The shorter the delay, the most reactive your connection is. The main is the minimum value

🌐 Browsing performance

The browsing test assesses the load time of the fully loaded pages, including images, javascript, CSS, and fonts, for the five most popular sites. This indicator reflects the perceived quality by the user.
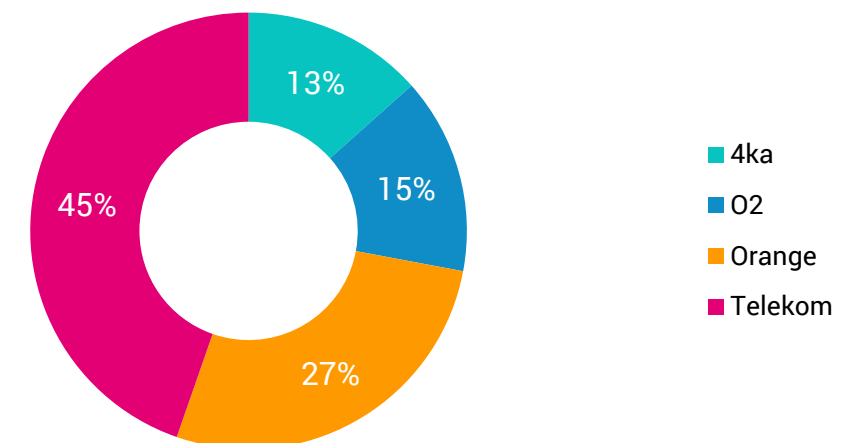
▣ Streaming performance

The video streaming test gauges the load time of a fully loaded video in three resolutions on YouTube, considering stalls during playback. This indicator reflects the perceived quality by the user.

Statistical precision is crucial in accurately determining winners. At nPerf, we prioritize test quality, precise reporting, and transparency. Analyzing a large volume of tests in this study, we've achieved 3% precision for absolute values, highlighting the reliability and accuracy of our data.

For a more comprehensive understanding of the user experience, our report features test results during both Busy hours (6 PM to 11 PM) and Idle hours (the rest of the day). Busy hours, marked by network strain, can impact user experience through congestion. This approach helps in understanding how network performance fluctuates throughout the day.

We only include national Internet service providers with test share above 5% share. The chart below shows the overall test distribution for each service provider.
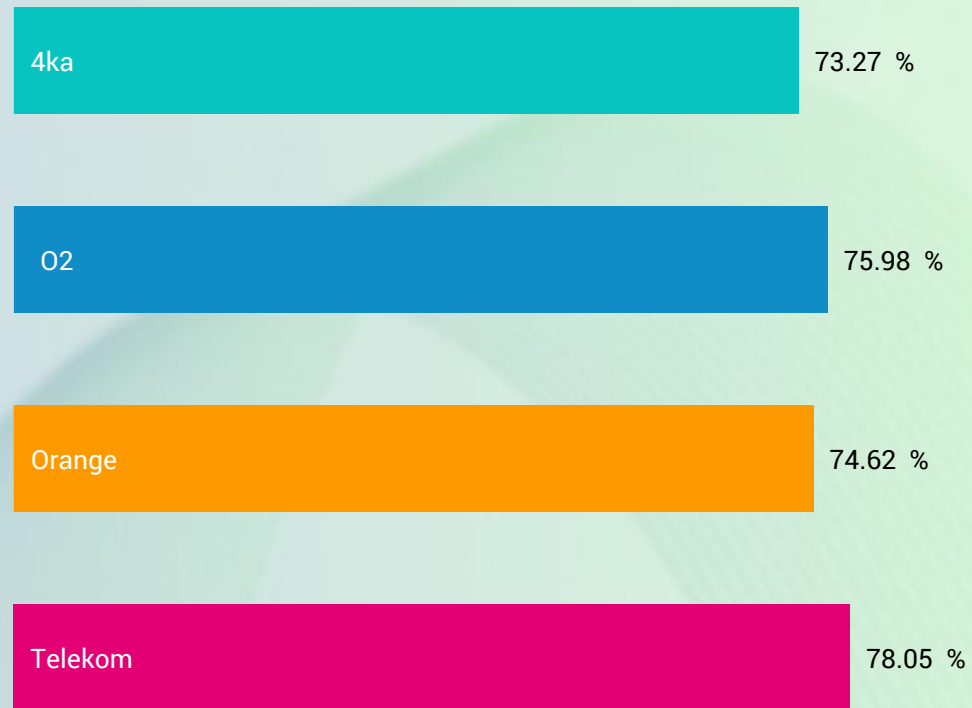
Overall distribution of the tests per provider (ISPs Share)

- 4ka
- O2
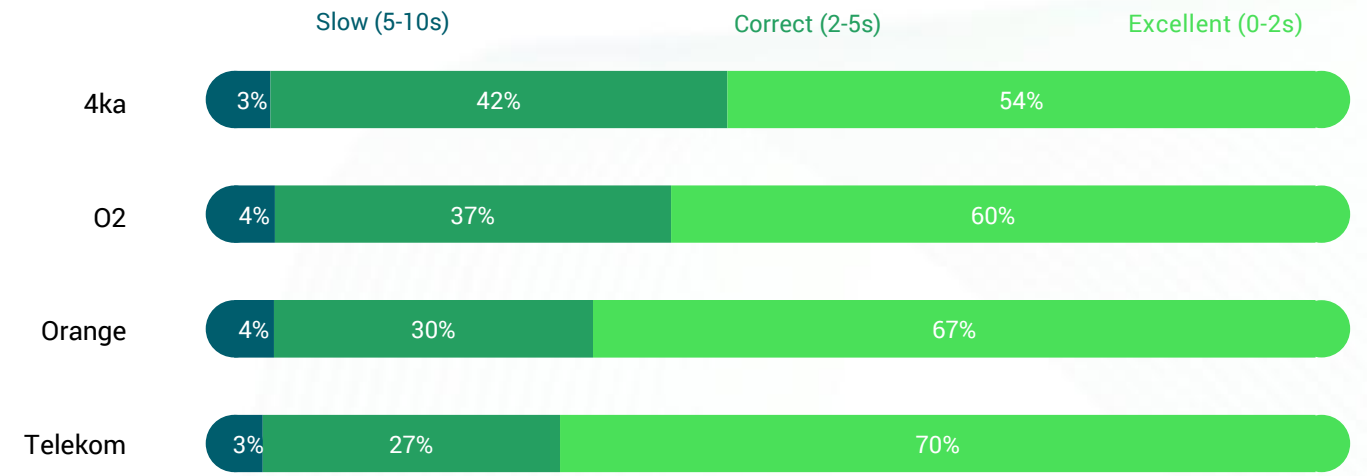- Orange
- Telekom

Source : nperf.com

Quality of Experience : Browsing

Browsing Performance rate (average)

- 4ka — 73.27 %
- O2 — 75.98 %
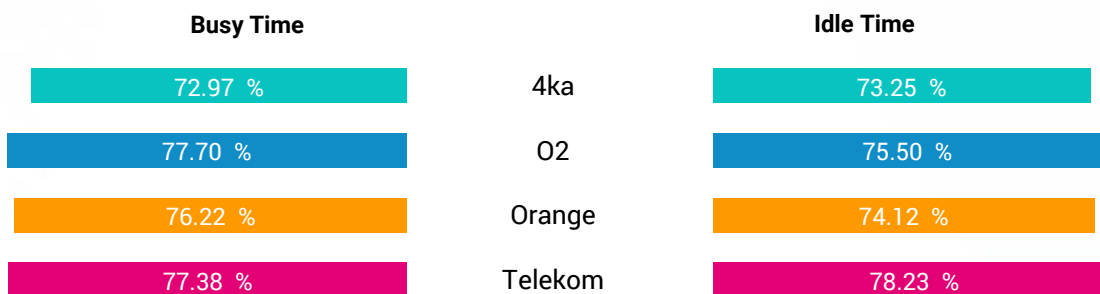- Orange — 74.62 %
- Telekom — 78.05 %

Source : nperf.com

The subscribers of Telekom enjoyed the best mobile Internet Internet browsing performance in 2024.
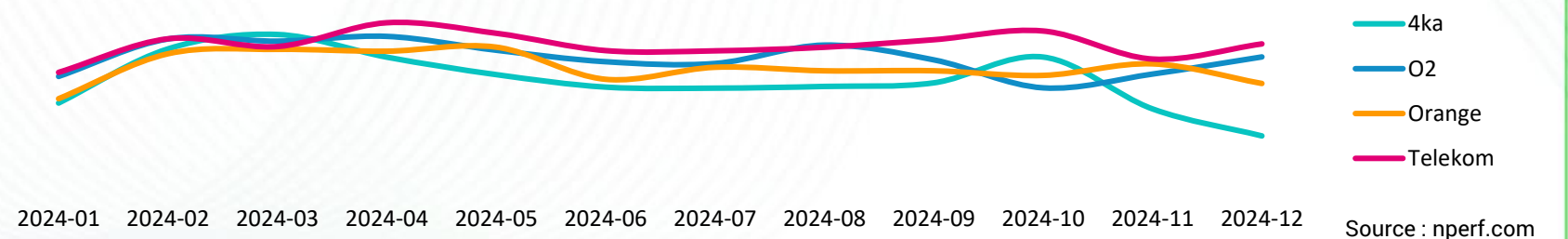
Browsing Performance results ventilation (average)

Slow (5-10s)　　Correct (2-5s)　　Excellent (0-2s)

	Slow (5-10s)	Correct (2-5s)	Excellent (0-2s)
4ka	3%	42%	54%
O2	4%	37%	60%
Orange	4%	30%	67%
Telekom	3%	27%	70%

Source : nperf.com

Browsing Performance rate (average)

Busy Time		Idle Time
72.97 %	4ka	73.25 %
77.70 %	O2	75.50 %
76.22 %	Orange	74.12 %
77.38 %	Telekom	78.23 %

Source : nperf.com

Browsing performance rate (average) evolution over the year

Legend: 4ka, O2, Orange, Telekom

2024-01　2024-02　2024-03　2024-04　2024-05　2024-06　2024-07　2024-08　2024-09　2024-10　2024-11　2024-12

Source : nperf.com

Quality of Experience : Streaming

Streaming Performance rate (average)

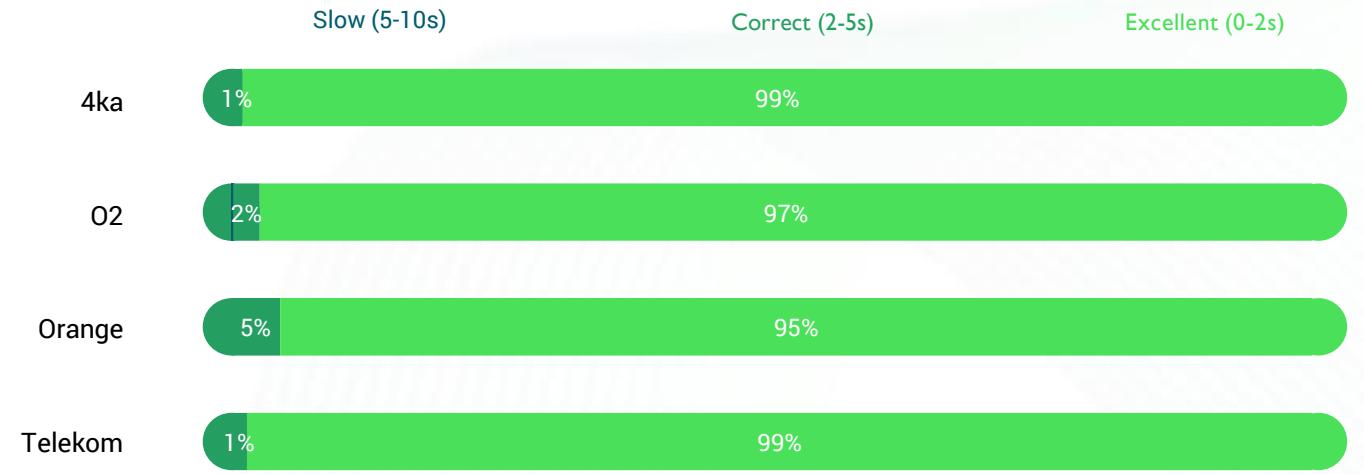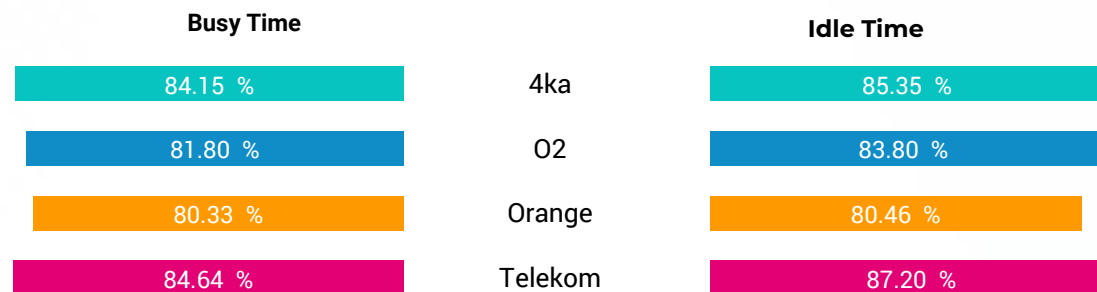| Operator	Rate
4ka	85.19 %
O2	83.36 %
Orange	80.46 %
Telekom	86.67 %
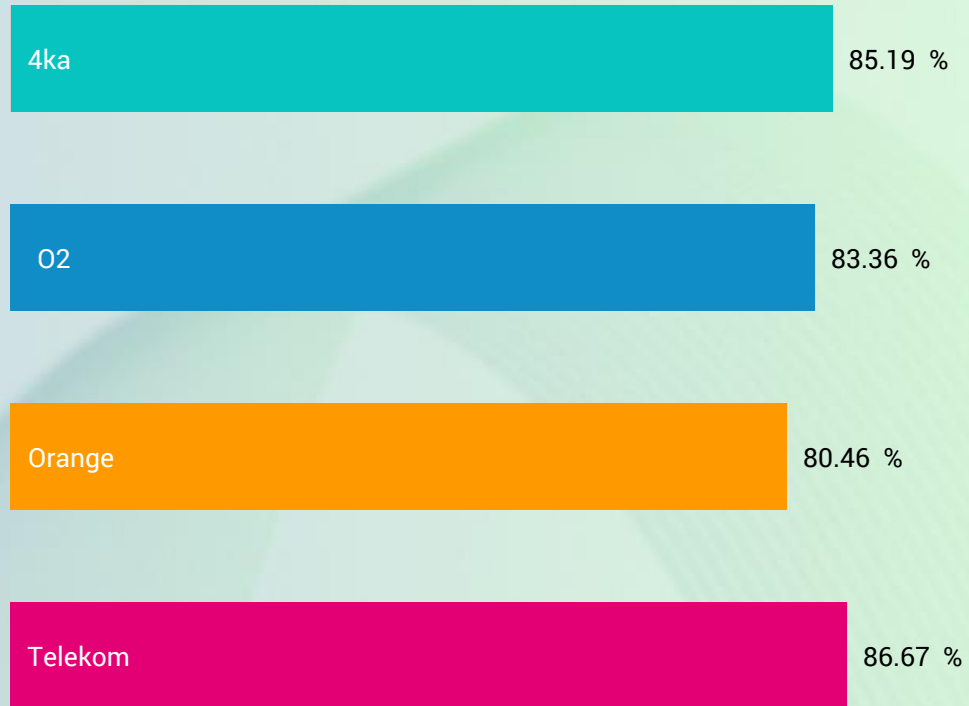
Source : nperf.com

The subscribers of Telekom enjoyed the best mobile Internet streaming performance in 2024.

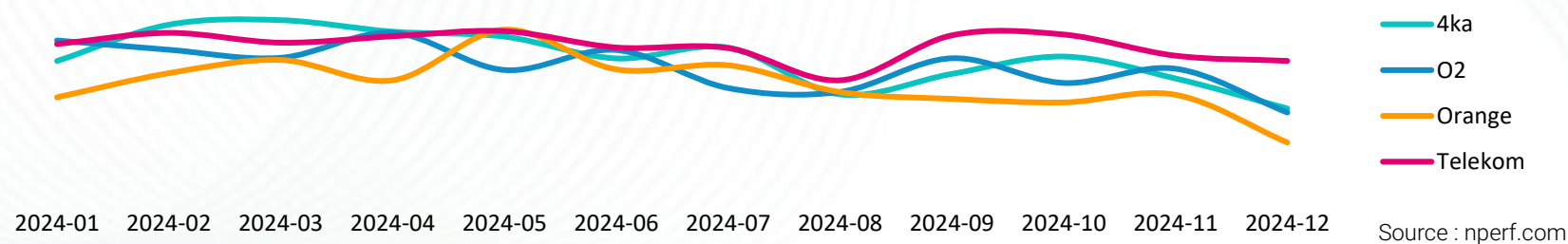## Streaming Performance results ventilation (average)

Slow (5-10s) Correct (2-5s) Excellent (0-2s)

Operator	Slow	Excellent
4ka	1%	99%
O2	2%	97%
Orange	5%	95%
Telekom	1%	99%

Source : nperf.com

Streaming Performance rate (average)

Busy Time		Idle Time
84.15 %	4ka	85.35 %
81.80 %	O2	83.80 %
80.33 %	Orange	80.46 %
84.64 %	Telekom	87.20 %

Source : nperf.com

Streaming performance rate (average) evolution over the year

Legend: 4ka, O2, Orange, Telekom

2024-01 2024-02 2024-03 2024-04 2024-05 2024-06 2024-07 2024-08 2024-09 2024-10 2024-11 2024-12

Source : nperf.com

Speed : Download

Download Speed (average)

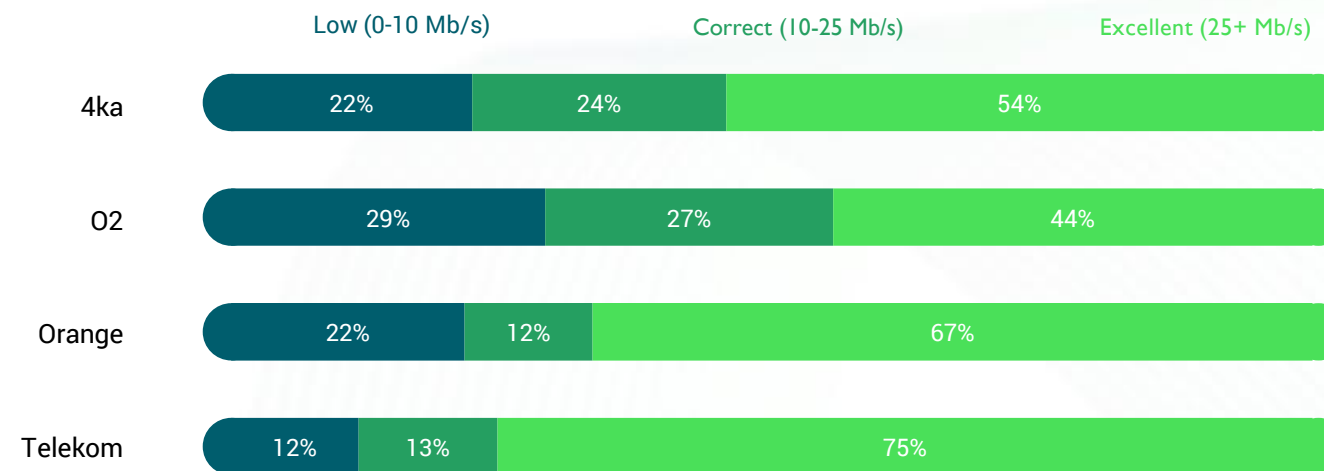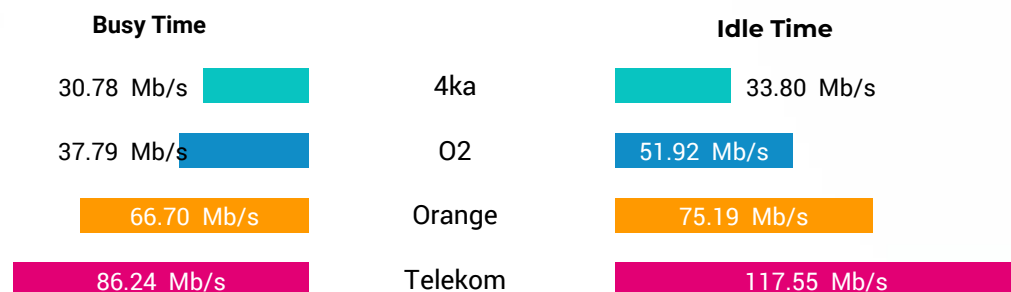| Provider	Speed
4ka	33.17 Mb/s
O2	48.65 Mb/s
Orange	74.44 Mb/s
Telekom	111.10 Mb/s
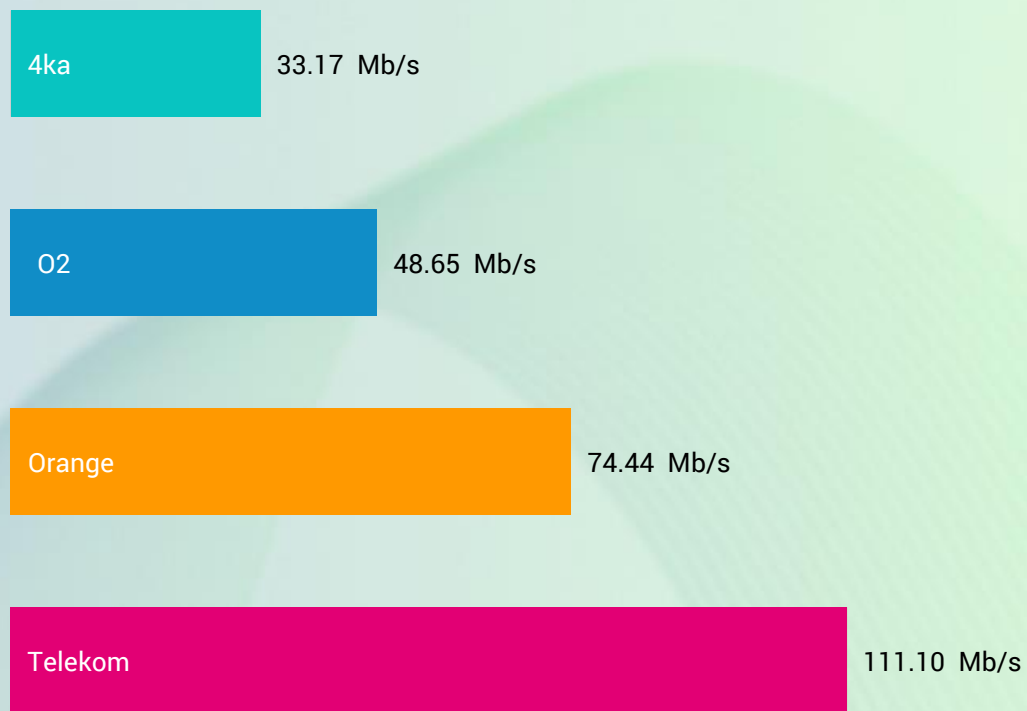
Source : nperf.com

The subscribers of Telekom enjoyed the best average mobile Internet download speed in 2024.

Download Speed results ventilation (average)

Low (0-10 Mb/s)　　Correct (10-25 Mb/s)　　Excellent (25+ Mb/s)

Provider	Low	Correct	Excellent
4ka	22%	24%	54%
O2	29%	27%	44%
Orange	22%	12%	67%
Telekom	12%	13%	75%

Source : nperf.com

Download Speed (average)

	Busy Time		Idle Time
4ka	30.78 Mb/s		33.80 Mb/s
O2	37.79 Mb/s		51.92 Mb/s
Orange	66.70 Mb/s		75.19 Mb/s
Telekom	86.24 Mb/s		117.55 Mb/s

Source : nperf.com

Download Speed evolution over the year (average)

2024-01　2024-02　2024-03　2024-04　2024-05　2024-06　2024-07　2024-08　2024-09　2024-10　2024-11　2024-12

4ka
O2
Orange
Telekom

Source : nperf.com

Speed : Upload

Upload Speed (average)

Provider	Speed
4ka	12.77 Mb/s
O2	15.47 Mb/s
Orange	18.03 Mb/s
Telekom	29.82 Mb/s
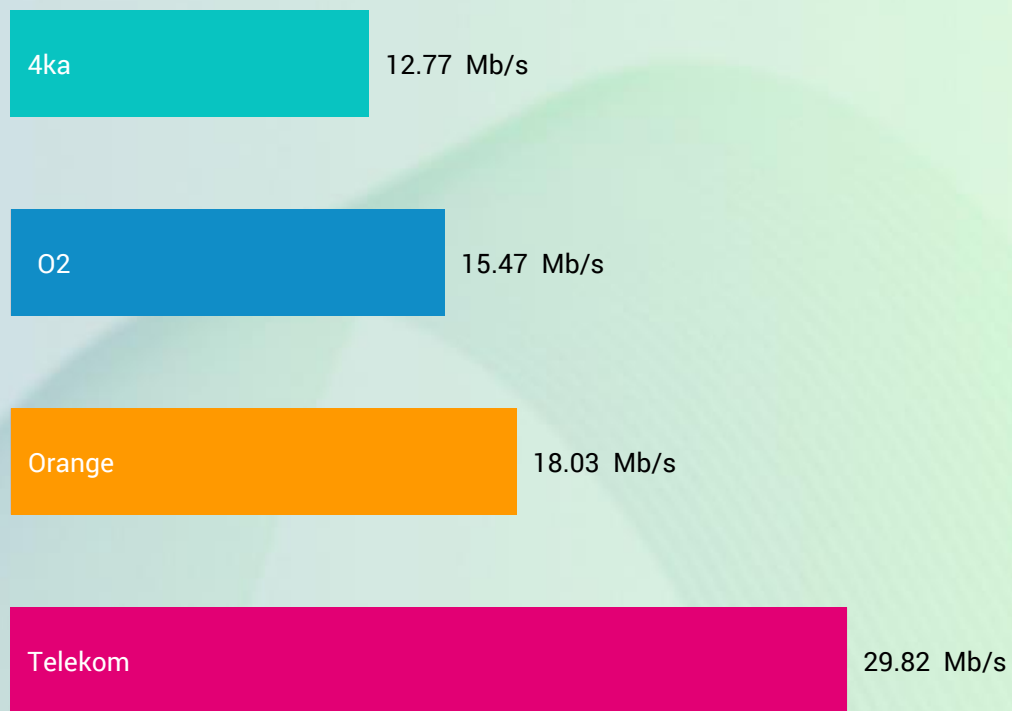
Source : nperf.com

The subscribers of Telekom enjoyed the best average mobile Internet upload speed in2024.
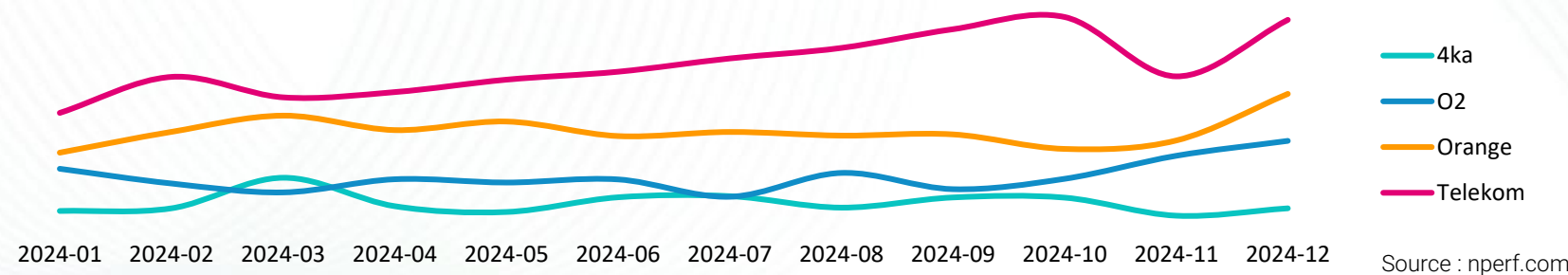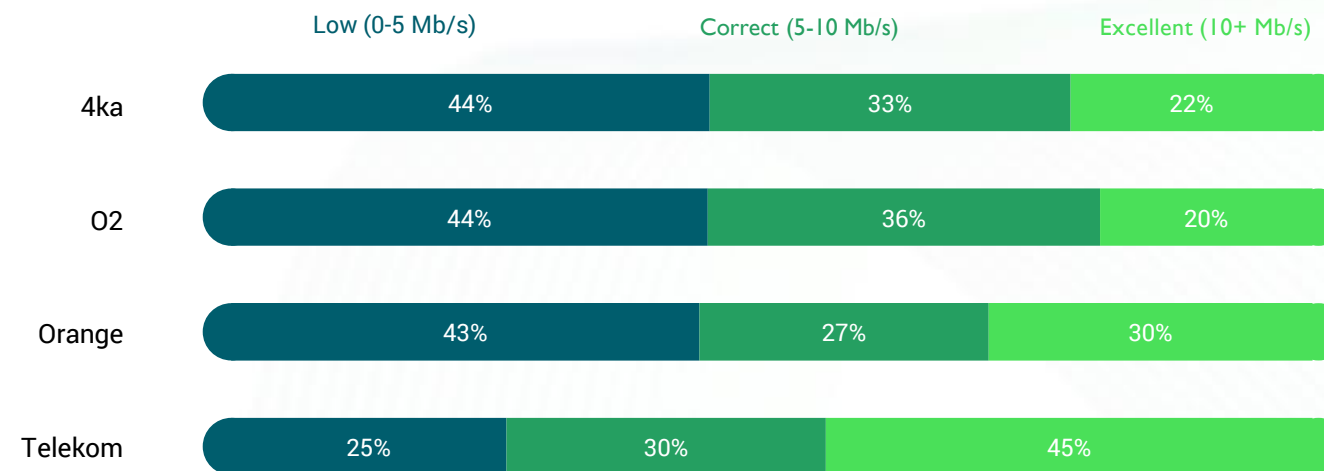
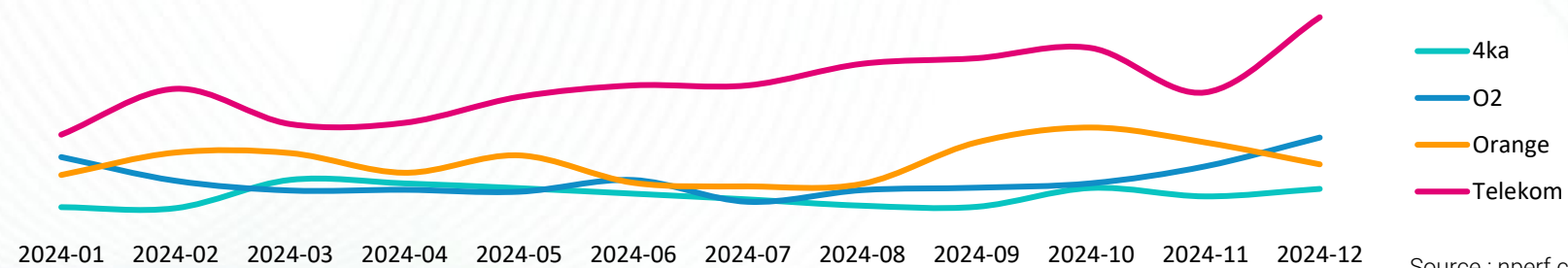## Upload Speed results ventilation (average)

	Low (0-5 Mb/s)	Correct (5-10 Mb/s)	Excellent (10+ Mb/s)
4ka	44%	33%	22%
O2	44%	36%	20%
Orange	43%	27%	30%
Telekom	25%	30%	45%

Source : nperf.com

Upload Speed (average)

	Busy Time		Idle Time
4ka	12.56 Mb/s		12.91 Mb/s
O2	12.11 Mb/s		16.27 Mb/s
Orange	15.11 Mb/s		18.47 Mb/s
Telekom	25.57 Mb/s		30.50 Mb/s

Source : nperf.com

Upload Speed evolution over the year (average)

Legend: 4ka, O2, Orange, Telekom

Source : nperf.com

Speed : Latency

Latency Speed (average)

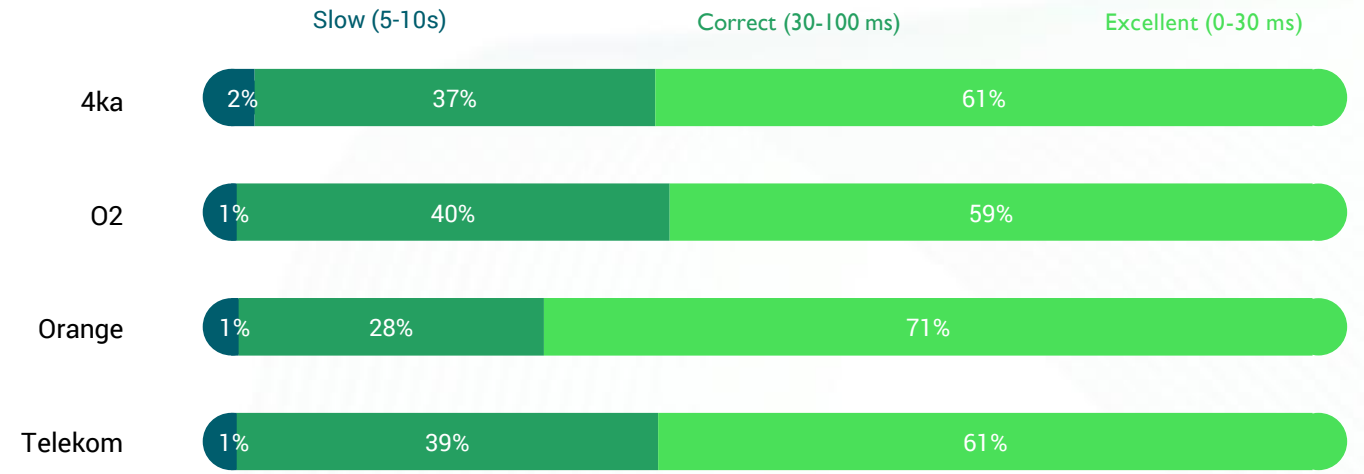| Operator	Latency
4ka	35.18 ms
O2	30.91 ms
Orange	30.31 ms
Telekom	29.87 ms
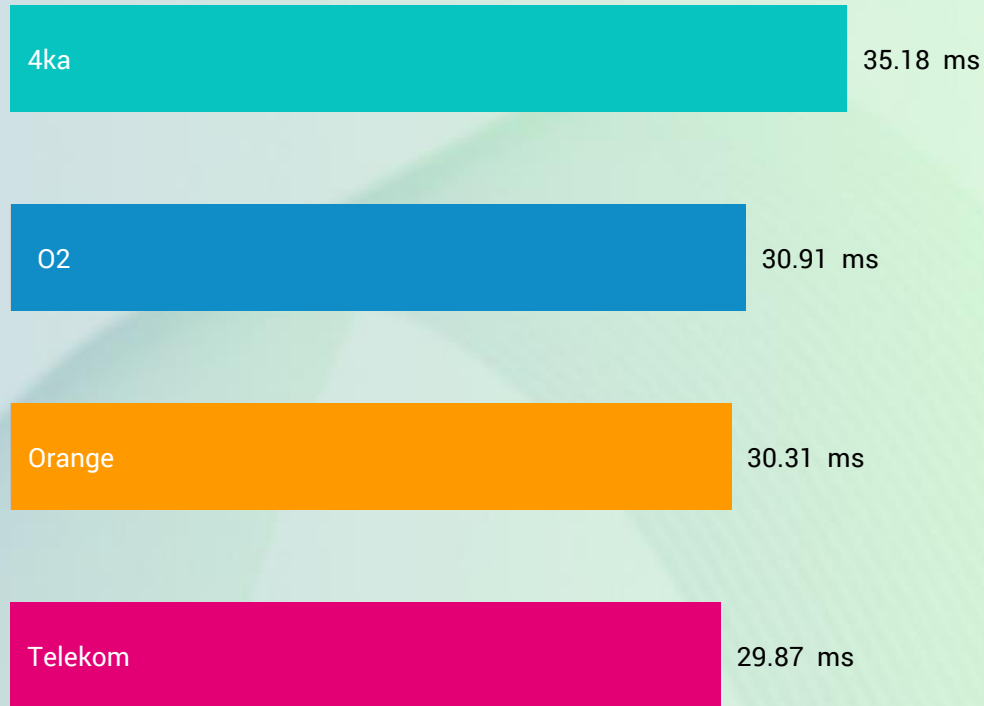
Source : nperf.com

The subscribers of Orange and Telekom enjoyed the best average mobile Internet latency speed in 2024.
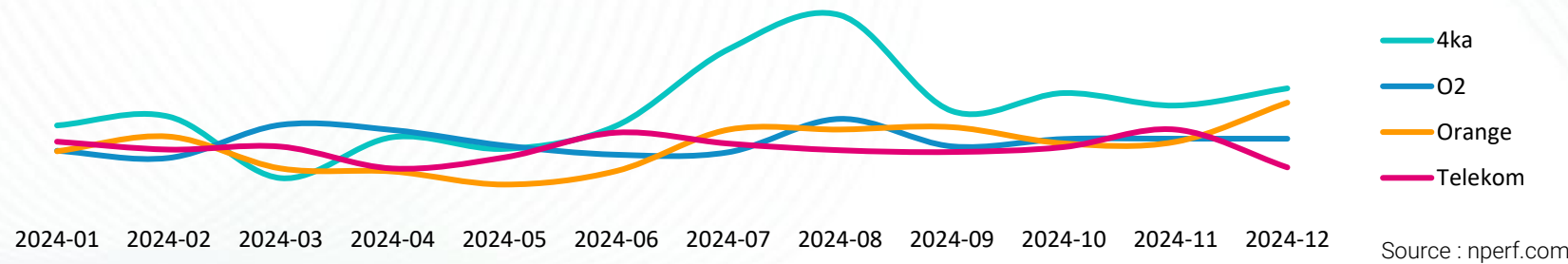
Latency Speed results ventilation (average)

Slow (5-10s)   Correct (30-100 ms)   Excellent (0-30 ms)

Operator	Slow	Correct	Excellent
4ka	2%	37%	61%
O2	1%	40%	59%
Orange	1%	28%	71%
Telekom	1%	39%	61%

Source : nperf.com

Latency Speed (average)

	Busy Time		Idle Time
4ka	40.42 ms		33.77 ms
O2	32.03 ms		30.63 ms
Orange	29.81 ms		30.56 ms
Telekom	30.87 ms		29.66 ms

Source : nperf.com

Latency Speed evolution over the year (average)

Legend: 4ka, O2, Orange, Telekom

2024-01 2024-02 2024-03 2024-04 2024-05 2024-06 2024-07 2024-08 2024-09 2024-10 2024-11 2024-12

Source : nperf.com

nPerf Score (nPoints)
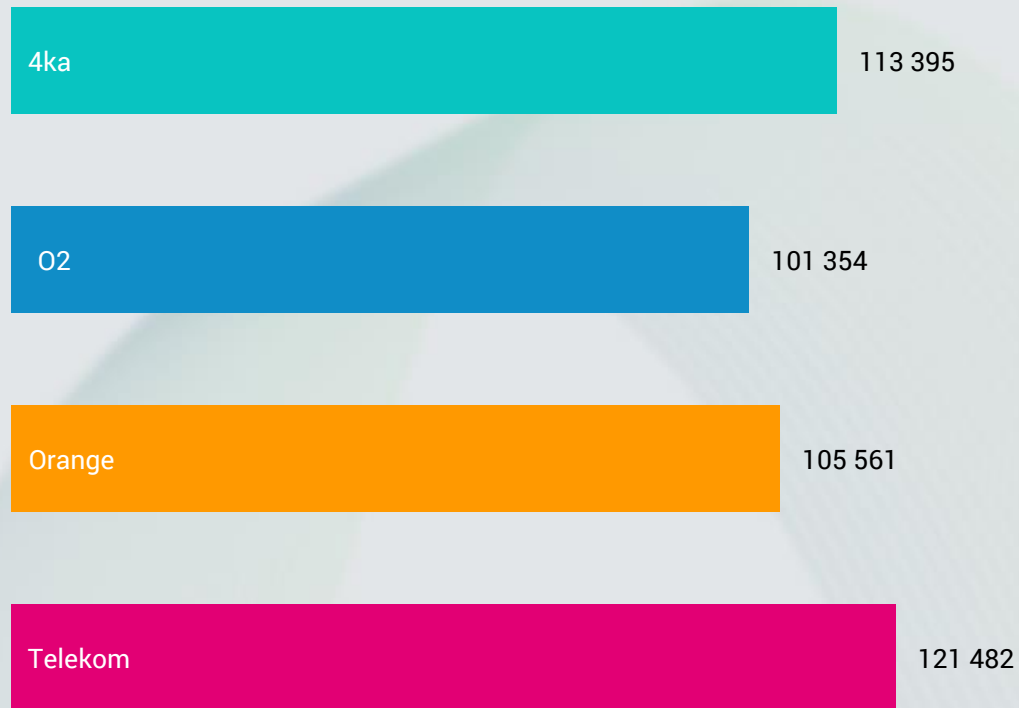
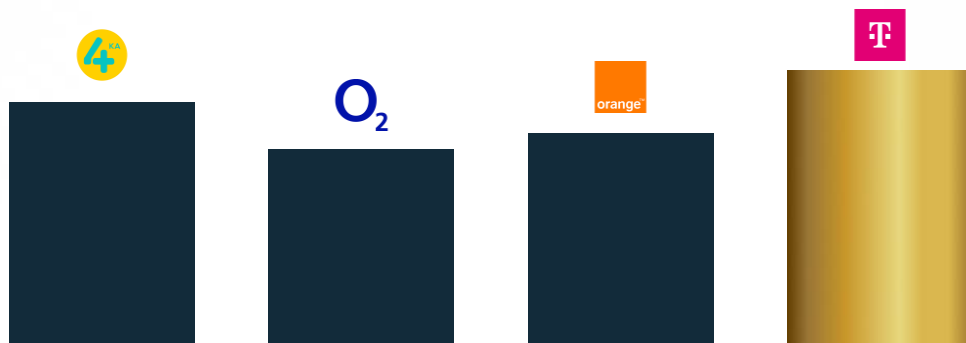| Operator	Score
4ka	113 395
O2	101 354
Orange	105 561
Telekom	121 482

Source : nperf.com

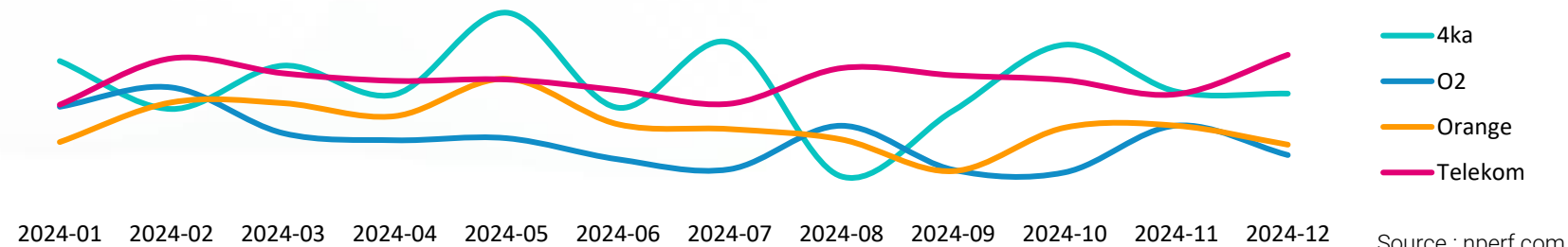The subscribers of Telekom enjoyed the best 5G Internet performances in 2024.

- Best performances 5G: Telekom
- Best web browsing performances 5G: 4ka
- Best video streaming performances 5G: 4ka
- Fastest performances (Download) 5G: Telekom
- Fastest performances (Upload) 5G: Telekom
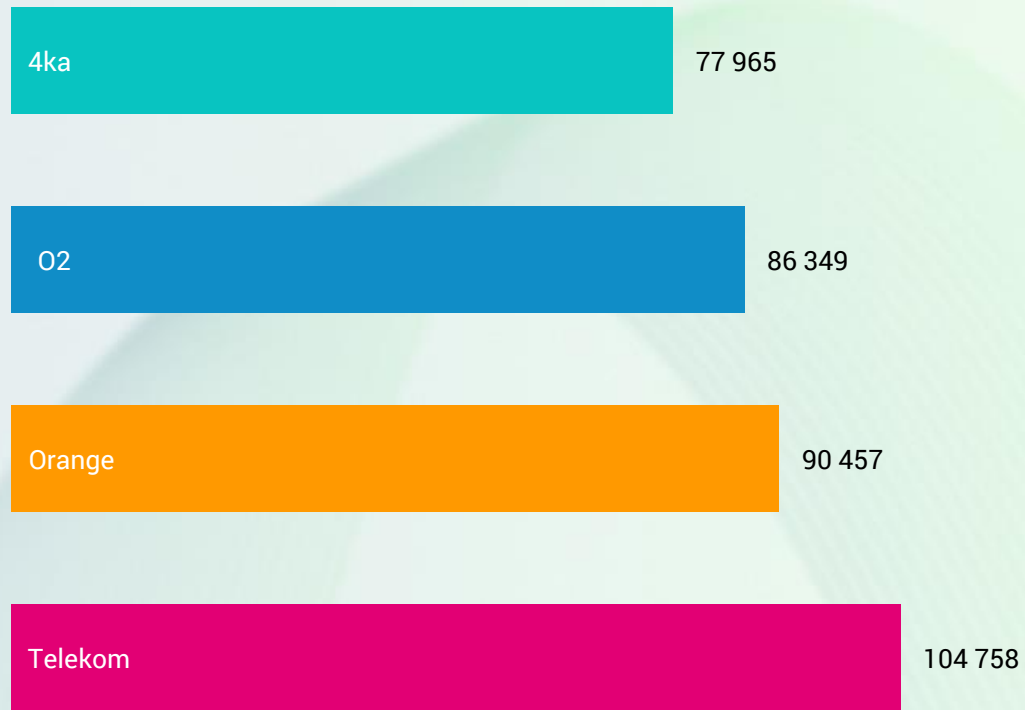- 5G connections with the lowest latency: Telekom

Source : nperf.com

Source : nperf.com

nPerf score evolution over the year (average)

Legend: 4ka, O2, Orange, Telekom

2024-01 2024-02 2024-03 2024-04 2024-05 2024-06 2024-07 2024-08 2024-09 2024-10 2024-11 2024-12

Source : nperf.com

mobile Internet - 01/01/2024 - 12/31/2024 - Slovakia

Mobile Internet performance in Slovakia

nPerf Score (nPoints)

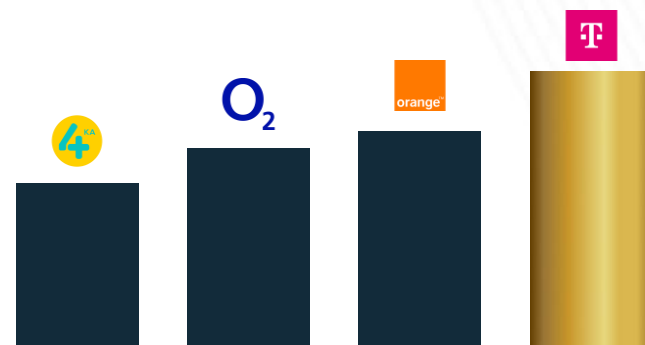| Operator	Score
4ka	77 965
O2	86 349
Orange	90 457
Telekom	104 758

Source : nperf.com

The subscribers of Telekom enjoyed the best mobile Internet performances in 2024.

The nperf score takes into account the measured bitrates, the latency and the Qoe tests.

The value of the points for the rates and the latency is calculated on a logarithmic scale,

to better represent the perception of the user.

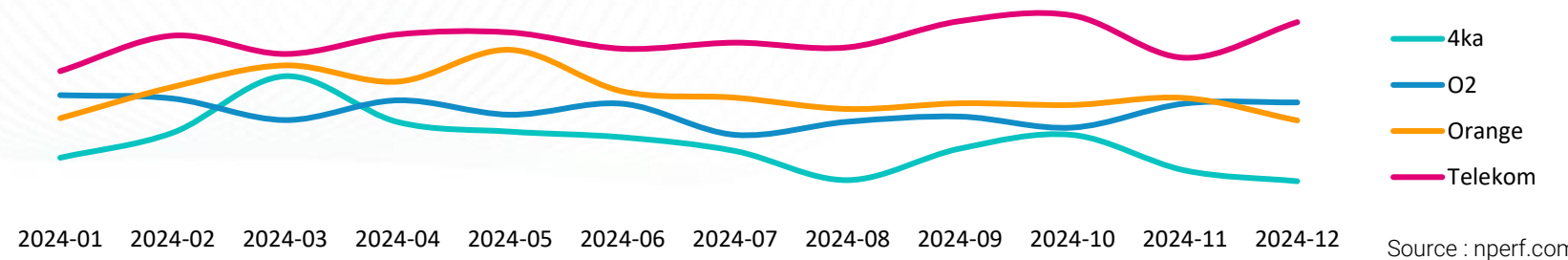Thus, this score reflects the overall quality of the connection experienced by the user.

Source : nperf.com

Best mobile Internet performance in 2024

No.1 MOBILE NETWORK PERFORMANCE

Source : nperf.com

nPerf score evolution over the year (average)

Legend: 4ka, O2, Orange, Telekom

2024-01 2024-02 2024-03 2024-04 2024-05 2024-06 2024-07 2024-08 2024-09 2024-10 2024-11 2024-12

Source : nperf.com