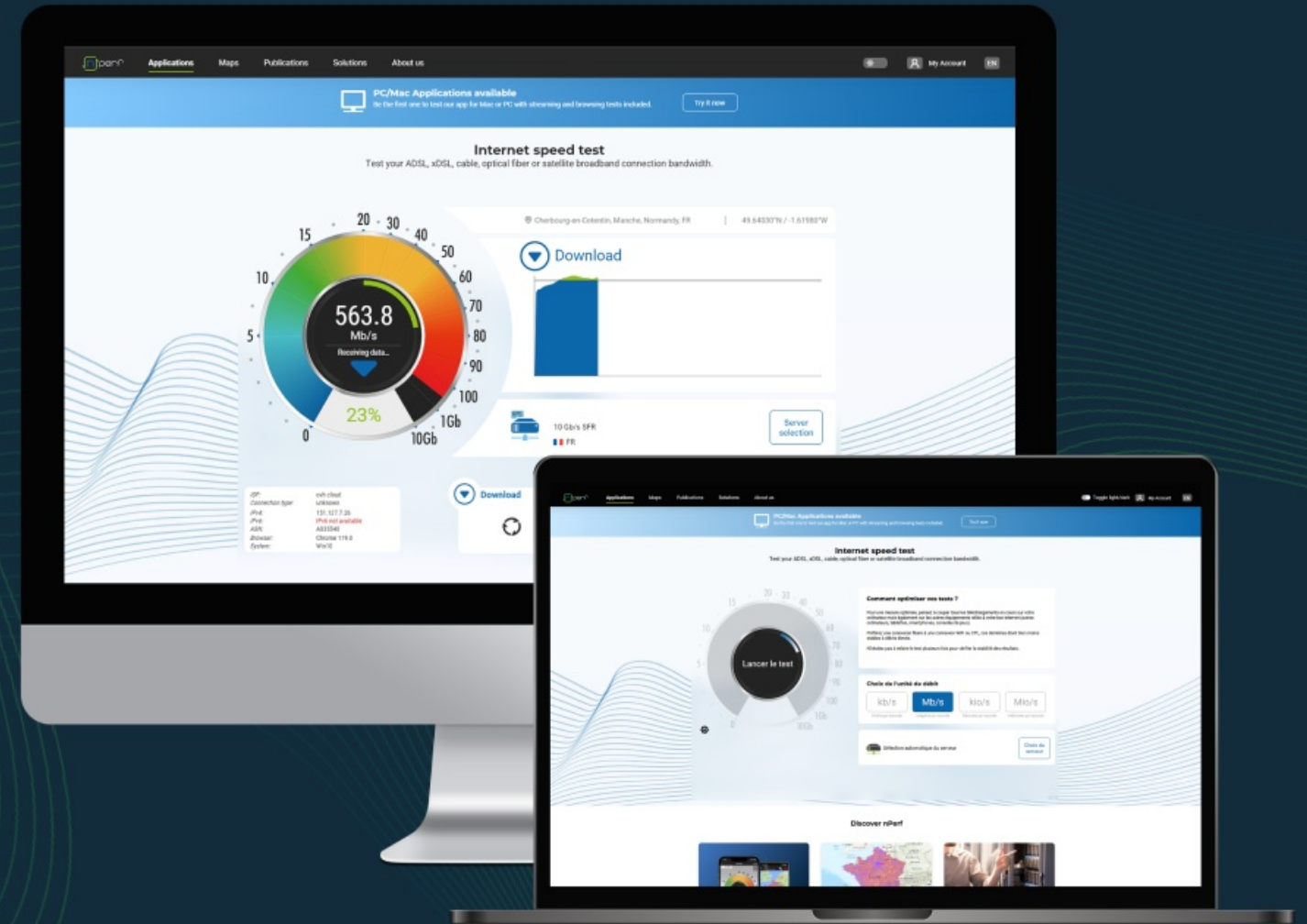


February 14, 2024



Barometer of fixed Internet Connections in Hungary.

01/01/2023 - 31/12/2023



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nPerf**

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**nPerf Network
assessment**

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.



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worldwide.



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2. Executive Summary



The subscribers of Digi enjoyed the best broadband performances in Hungary during 2023.

Fixed Internet connections in Hungary

	Digi	Telekom	Vodafone	Yettel
▼ Download bitrates (Mb/s)	306.93	240.77	166.53	54.38
▲ Upload bitrates (Mb/s)	159.80	149.77	23.36	19.74
◀▶ Latency (ms)	15.63	21.97	24.39	40.31

nPerf Score (nPoints)	168 050	157 955	135 564	107 110
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Source : nperf.com

DIGI

Best fixed Internet performance
in 2023



Source : nperf.com

DIGI



vodafone

Yettel.

Source : nperf.com

In evaluating the quality of Internet Service Providers (ISP) in Hungary, it's crucial to consider various Key Performance Indicators (KPIs) such as download and upload bitrates, latency, and summarize the overall performance in the nPerf scores. These metrics offer insights into the internet service provider performance and intend to reflect user experiences.

Digi takes the lead with stellar performance

Digi stands out with impressive figures, boasting the highest download bitrate at 307 Mb/s and an upload speed of 160 Mb/s, coupled with a low latency of just 16 ms. Its nPerf score, a significant 168,050 nPoints, highlights its superior service quality, ensuring an optimal user experience for all digital activities at home.

Telekom: a strong contender

Telekom offers robust download and upload speeds of 241 Mb/s and 150 Mb/s, respectively. With a latency of 22 ms and an nPerf score of 157,955 nPoints, it provides a reliable and efficient internet service, though slightly behind Digi in performance metrics.

Vodafone: solid third

With a download speed of 167 Mb/s but a notably lower upload speed of 23 Mb/s, Vodafone shows a mixed performance. The latency stands at 24 ms,

and its nPerf score is 135,564 nPoints. These performances would ensure Vodafone a top position in many countries but in the competitive Hungarian market, Vodafone remains third behind Digi and Telekom.

Yettel: Trails behind

Yettel, with the lowest metrics across the board; a download speed of merely 54 Mb/s, an upload speed of 20 Mb/s, and the highest latency of 40 ms is lagging behind competitors.

Conclusion:

In summary, Digi leads the pack in Hungary's fixed broadband sector, excelling in all examined KPIs, which translates to a superior browsing and streaming experience. Telekom follows with commendable figures, positioning itself as a reliable alternative. Vodafone, with reasonable download capabilities, falls short on upload speed, affecting its overall ranking. Yettel, while adequate for basic use, remains the least favorable option for performance-seeking users.

4. Methodology



nPerf provides a **free tool 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.

For fixed connections, we assess:

▼ Download bitrate :

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 bitrate :

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

◀▶ Latency (ping) :

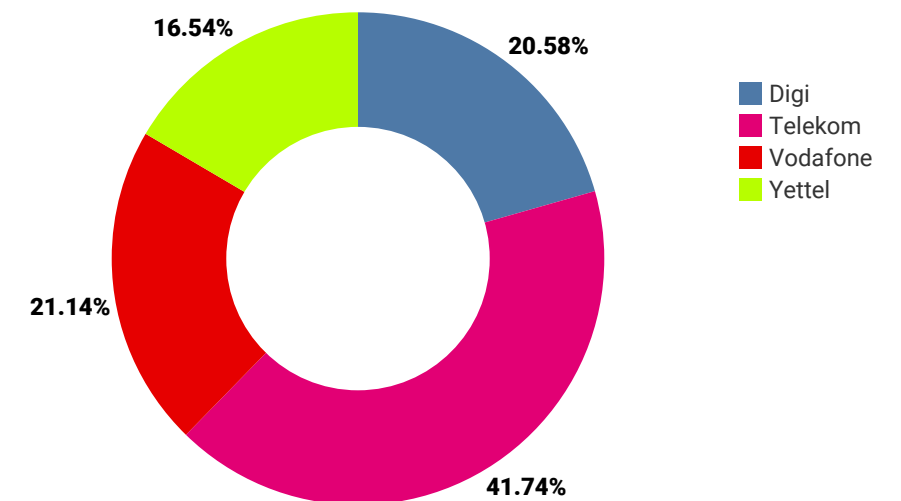
It indicated the delay a small packet of data requires to make a round-trip from your computer to the nPerf server. The shorter the delay, the most reactive your connection is. The main is the minimum value.

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 and 1 point for percentage-based results, 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.

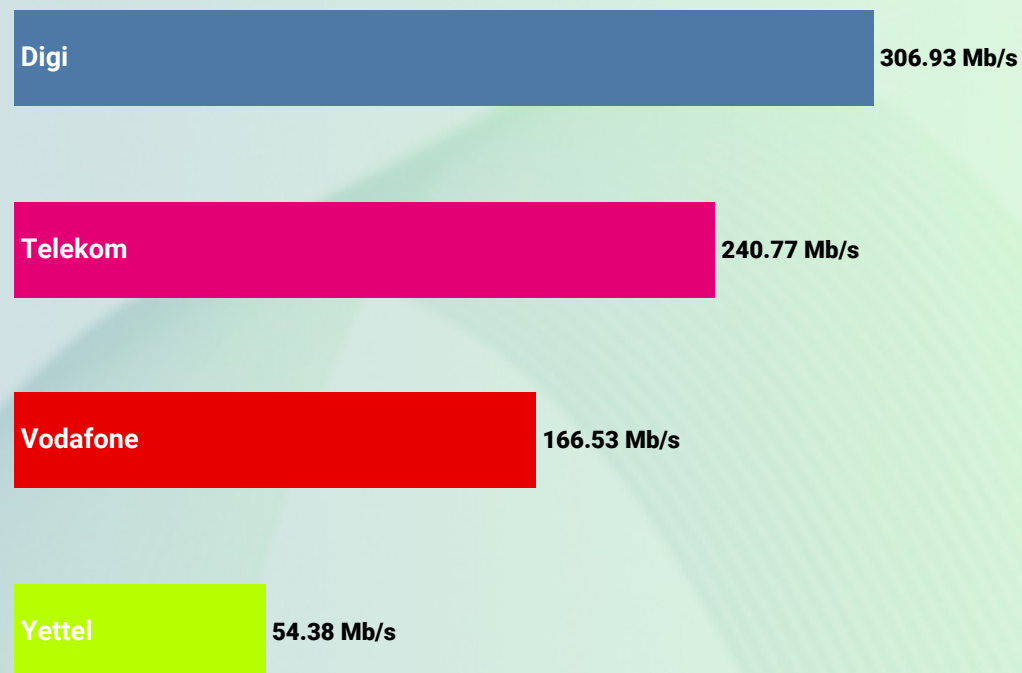
Overall distribution of the tests per provider (ISPs Share)



Source : nperf.com



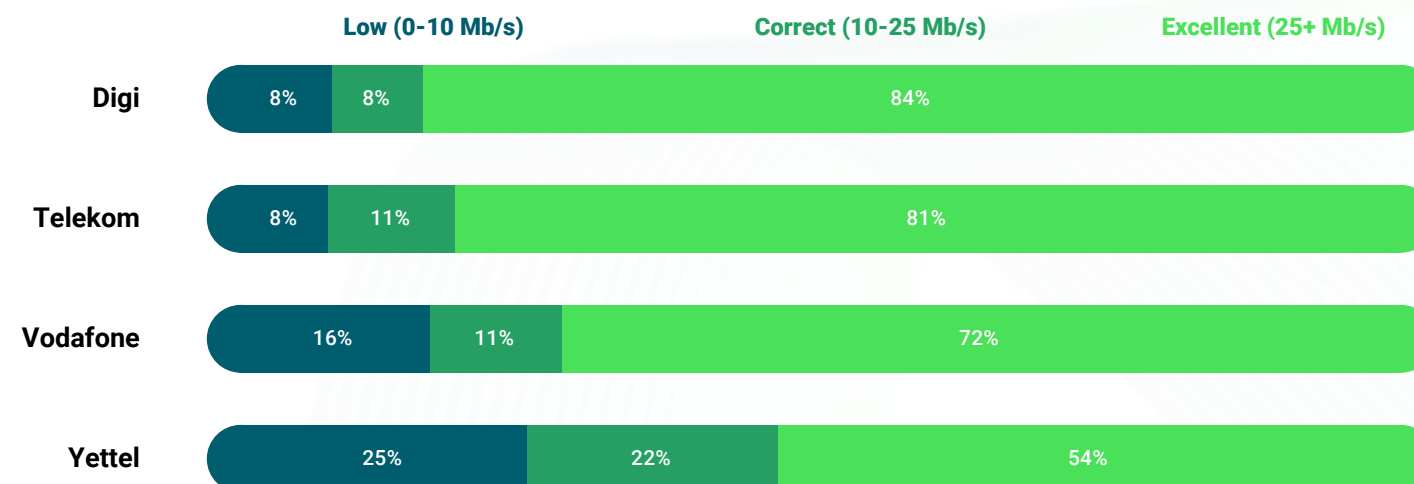
Download Speed (average)



Source : nperf.com

The subscribers of Digi enjoyed the best average broadband download speed in 2023.

Download Speed results ventilation (average)



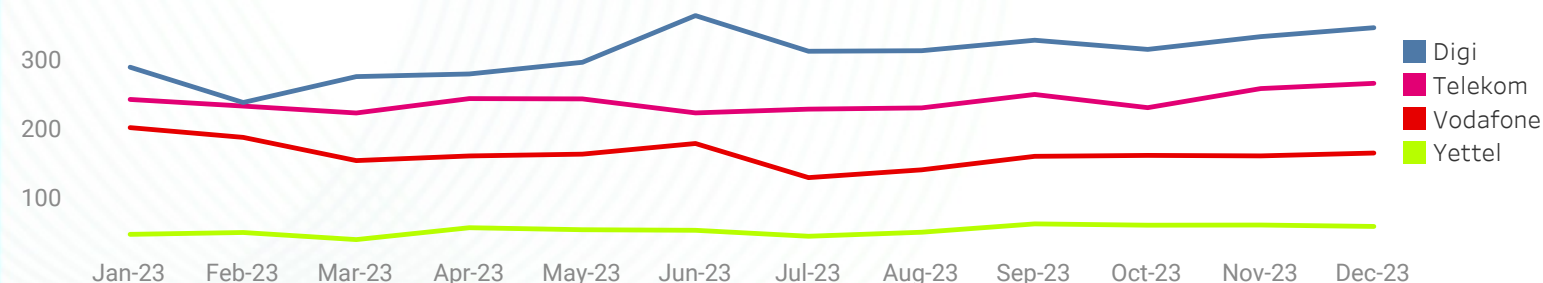
Source : nperf.com

Download Speed (average)



Source : nperf.com

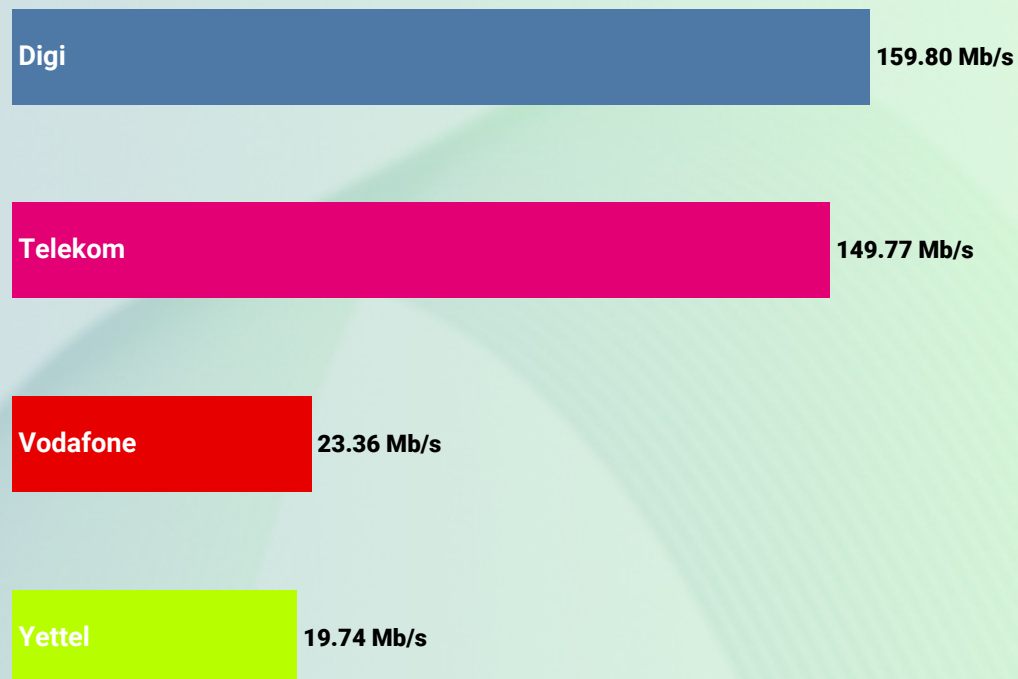
Download Speed evolution over the year (average)



Source : nperf.com



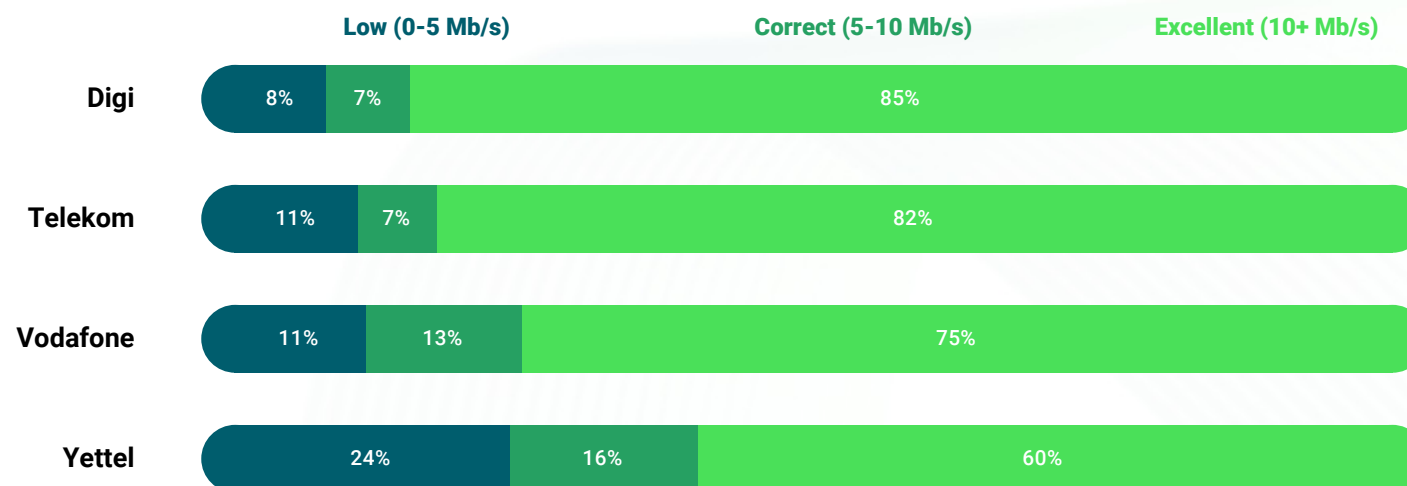
Upload Speed (average)



Source : nperf.com

The subscribers of Digi enjoyed the best average broadband upload speed in 2023.

Upload Speed results ventilation (average)



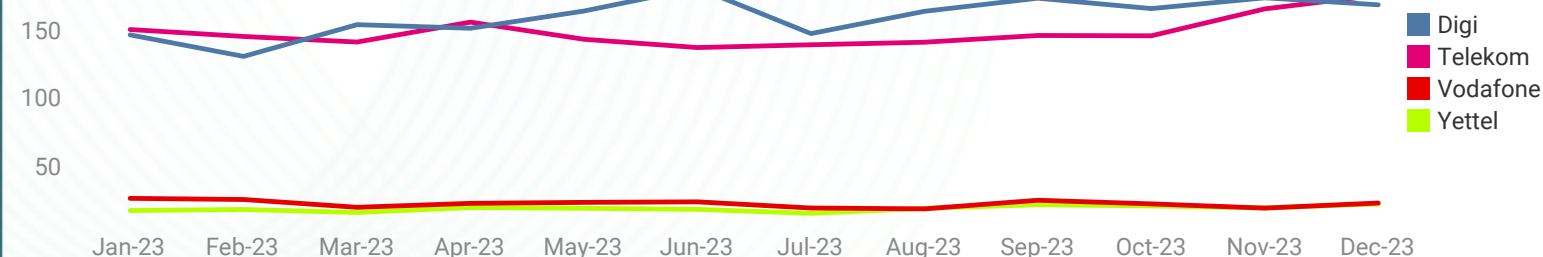
Source : nperf.com

Upload Speed (average)



Source : nperf.com

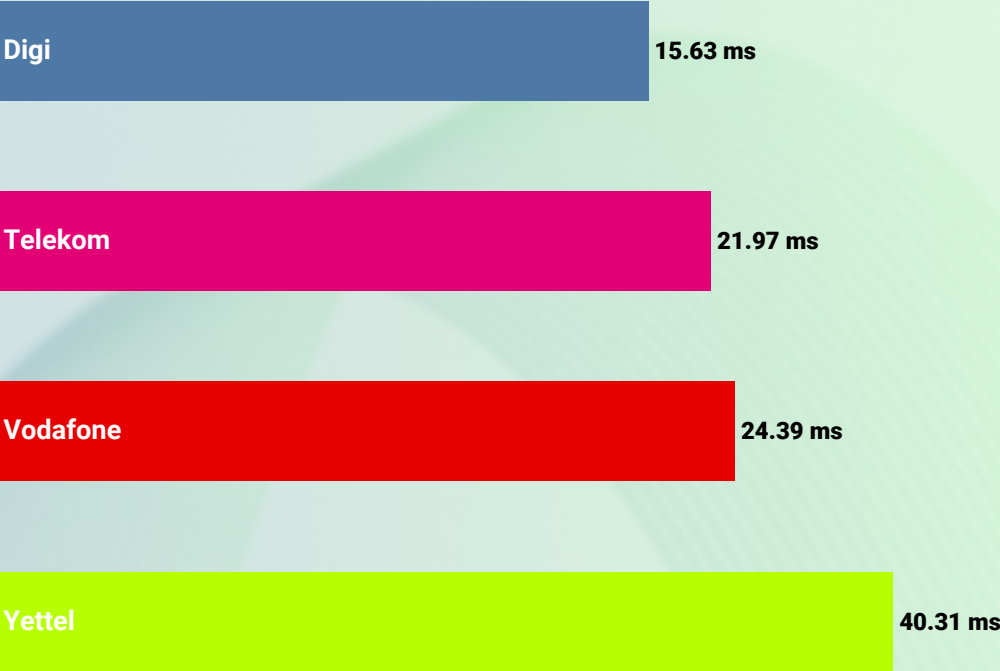
Upload Speed evolution over the year (average)



Source : nperf.com



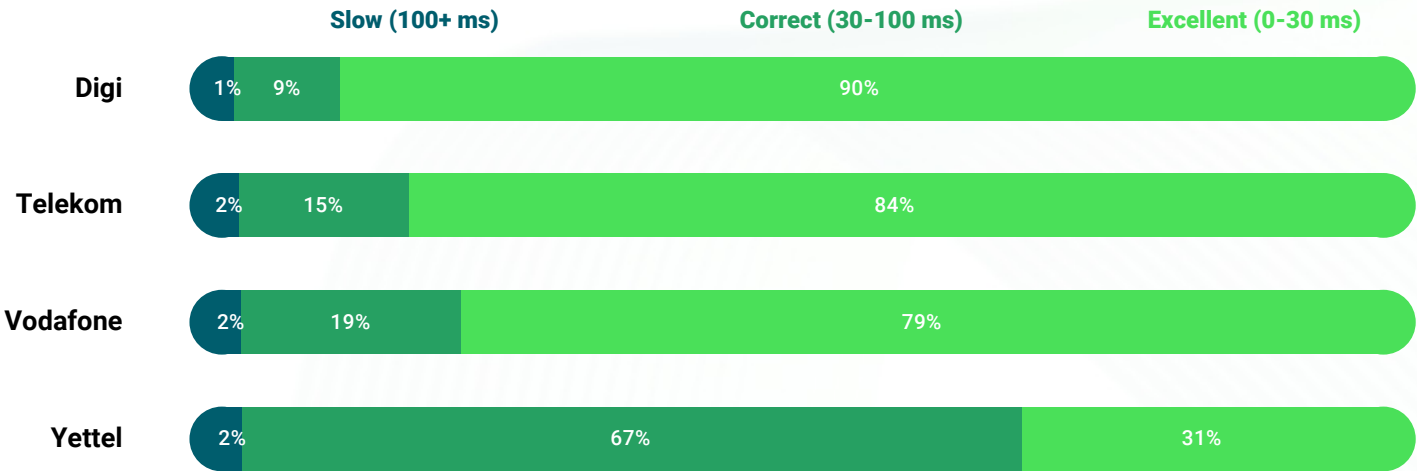
Latency Speed (average)



Source : nperf.com

The subscribers of Digi enjoyed the best average broadband latency in 2023.

Latency Speed results ventilation (average)



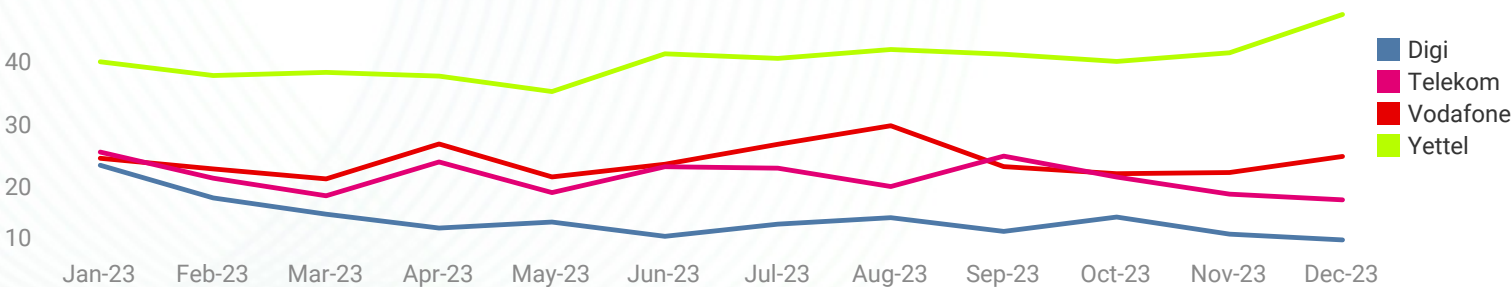
Source : nperf.com

Latency Speed (average)



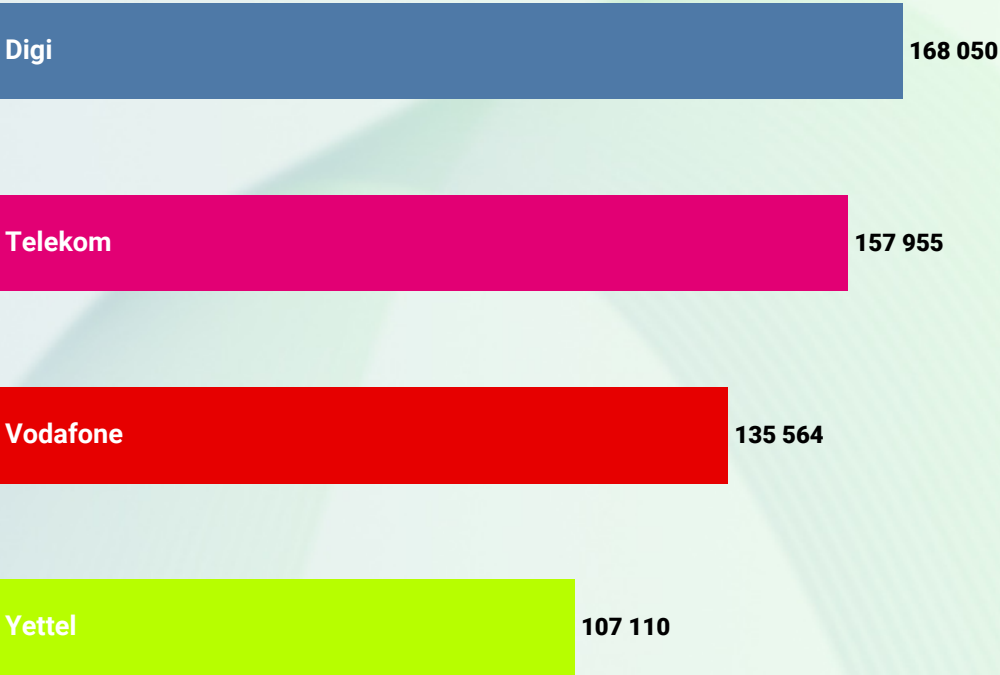
Source : nperf.com

Average latency Speed evolution over the year



Source : nperf.com

nPerf Score (nPoints)



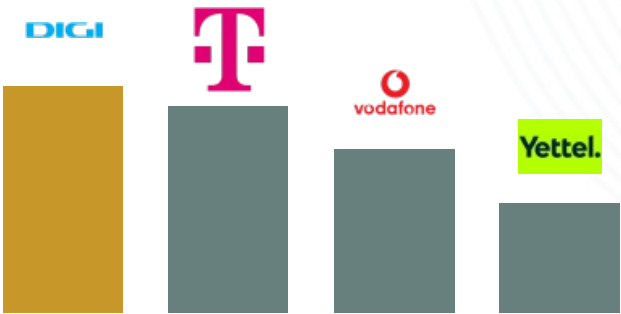
Source : nperf.com

The subscribers of Digi enjoyed the best broadband performances in Hungary during 2023.

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

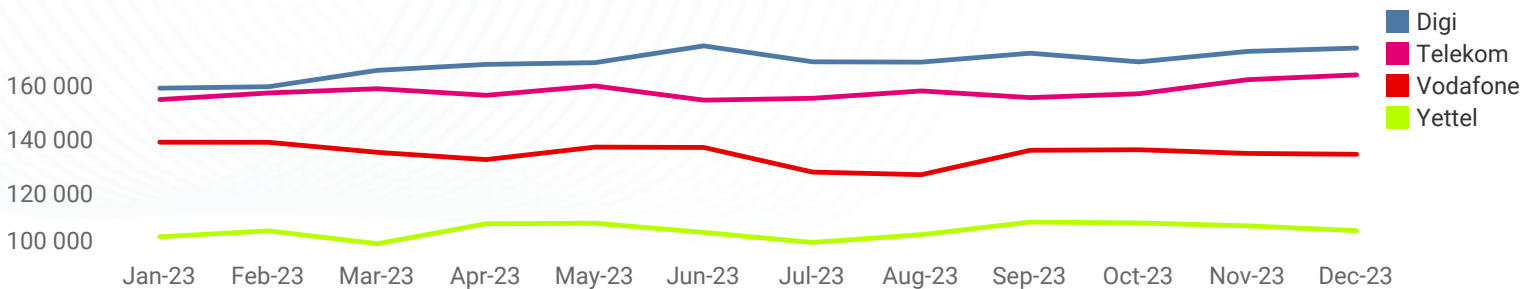
Thus, this score reflects the overall quality of the connection experienced by the user.

Source : nperf.com



Source : nperf.com

nPerf score evolution over the year (average)



Source : nperf.com

