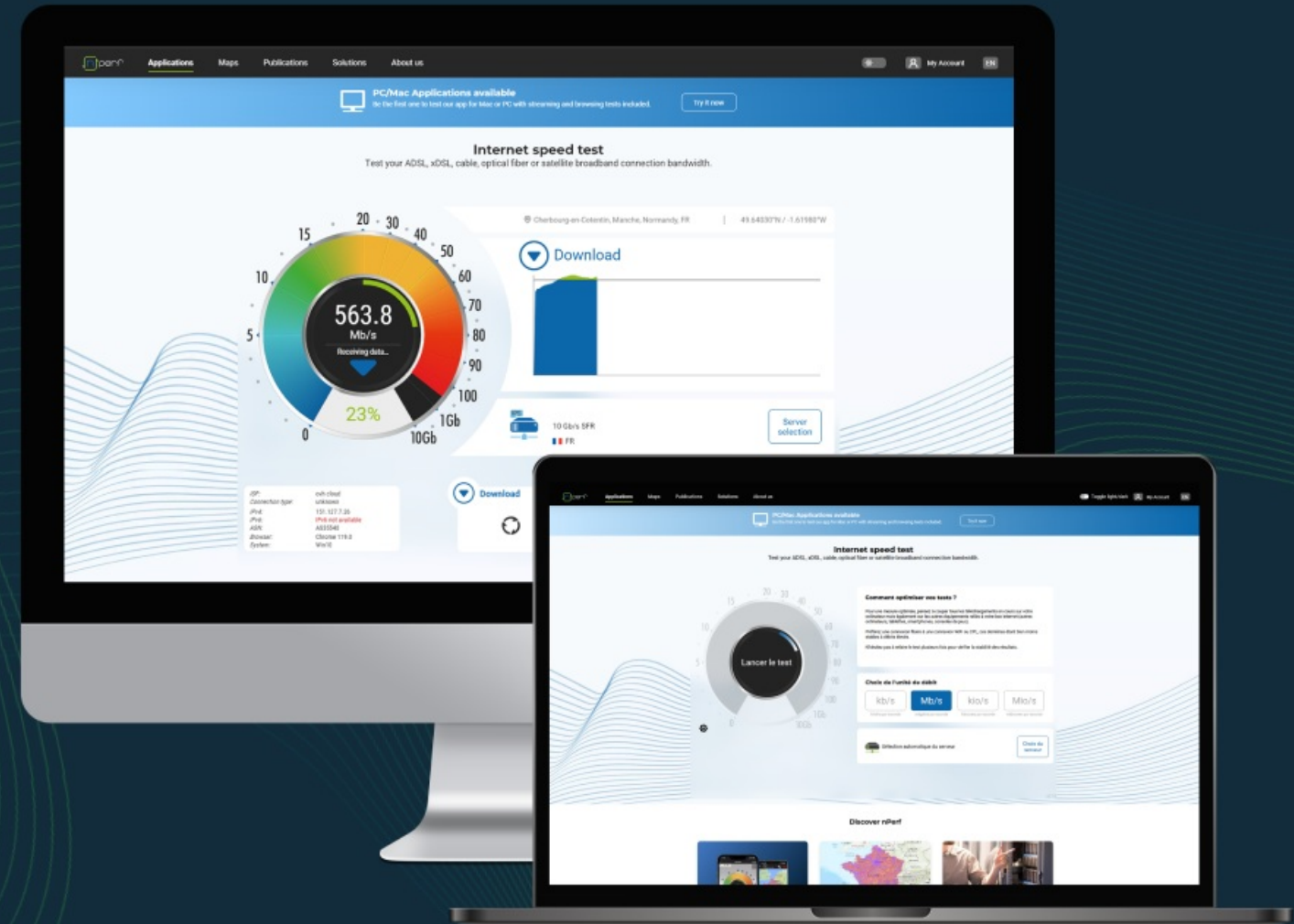




Barometer of fixed Internet Connections in Lithuania.

01/01/2023 - 31/12/2023



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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.

 **300k+** tests daily worldwide.

 **26Md+** coverage scans in total.

 **3k+** servers all around the world.

Test your Internet connection with nPerf!

nPerf allows you to test the quality of your fixed, mobile, or Wi-Fi Internet connections up to 10 Gb/s!
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2. Executive Summary



The subscribers of Telia enjoyed the best broadband performances in Lithuania during 2023.

Fixed Internet connections in Lithuania

| | Bite | Tele2 | Telia |
|----------------------------|--------|--------|---------|
| ▼ Download bitrates (Mb/s) | 60.28 | 58.49 | 140.22 |
| ▲ Upload bitrates (Mb/s) | 16.47 | 11.84 | 75.60 |
| ◀▶ Latency (ms) | 59.17 | 78.67 | 55.79 |
| 🌐 Web browsing (%) | 68.88 | 69.55 | 76.88 |
| 🎥 Youtube streaming (%) | 84.17 | 82.77 | 89.64 |
| nPerf Score (nPoints) | 77 452 | 72 048 | 106 002 |

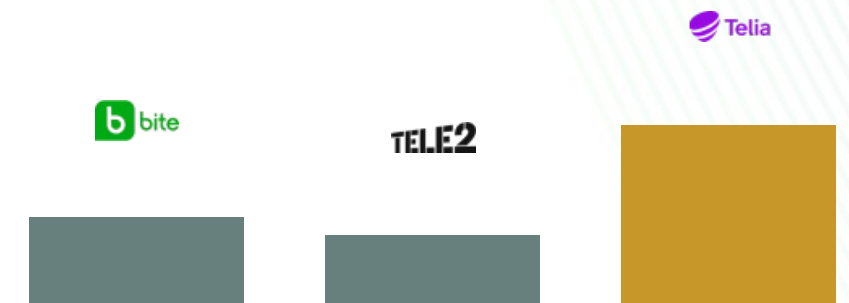
Source : nperf.com



Best fixed Internet performance in 2023



Source : nperf.com



Source : nperf.com

In Lithuania's fixed Internet market, ISPs such as Telia, Bite, and Tele2 play pivotal roles in shaping the broadband landscape, each offering distinct levels of service quality and performance. This analysis aims to dissect the capabilities of these providers by evaluating crucial metrics including download and upload bitrates, latency, web browsing success rates, YouTube streaming quality, and overall nPerf scores. These indicators are vital for understanding the ISPs' ability to deliver high-quality Internet services, impacting user experiences in areas like web navigation, video streaming, and overall digital connectivity.

Telia: The Benchmark of excellence

Telia stands out as the market leader with an impressive nPerf score of 106,002 nPoints, highlighting its superior service quality. It boasts the highest download and upload bitrates at 140.22 Mb/s and 75.6 Mb/s respectively, indicating a robust infrastructure capable of supporting high-bandwidth activities seamlessly. With a latency of 55.79 ms, Telia ensures a responsive and smooth Internet experience. The ISP also excels in user engagement, evidenced by web browsing and YouTube streaming scores of 76.88% and 89.64% respectively, making it the top choice for users seeking quality and reliability in their Internet service.

Bite: A Strong Contender

Bite offers solid performance with an nPerf score of 77,452 nPoints, supported by download and upload bitrates of 60.28 Mb/s and 16.47 Mb/s. A latency of 59.17 ms and web browsing and YouTube streaming scores of 68.88% and 84.17% showcase Bite's capability to provide a reliable service that meets the needs of most Internet users.

Tele2: Competitive and Consistent

Tele2 presents a competitive service with an nPerf score of 72,048 nPoints, featuring download and upload bitrates of 58.49 Mb/s and 11.84 Mb/s. Despite a higher latency of 78.67 ms, Tele2's web browsing and YouTube streaming score of 69.55% and 82.77% reflect its ability to offer a satisfactory Internet experience, catering well to the general needs of its users.

Conclusion

The Lithuanian fixed Internet market showcases a competitive environment led by Telia, which distinguishes itself with the highest overall nPerf score, indicative of superior performance across all evaluated metrics, particularly in download and upload speeds as well as in user experience measures. Bite and Tele2, while trailing behind Telia, contribute significantly to the market, offering services that cater to a wide range of user requirements. This analysis emphasizes the importance of a comprehensive evaluation based on a spectrum of performance metrics to assess the impact of ISPs on the quality of fixed Internet service and the overall user experience in Lithuania.

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.

🌐 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 user's perceived quality of the Internet network.

📺 Streaming performance :

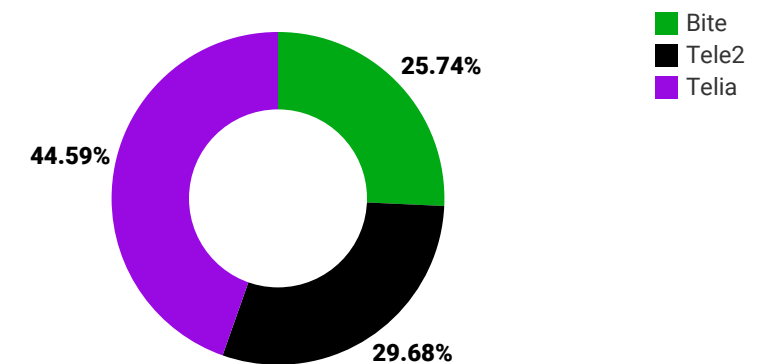
The video streaming test gauges the load time of a fully loaded video in three resolutions on YouTube, considering stalls during playback. This indicator reflects the user's perceived quality of the Internet network.

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



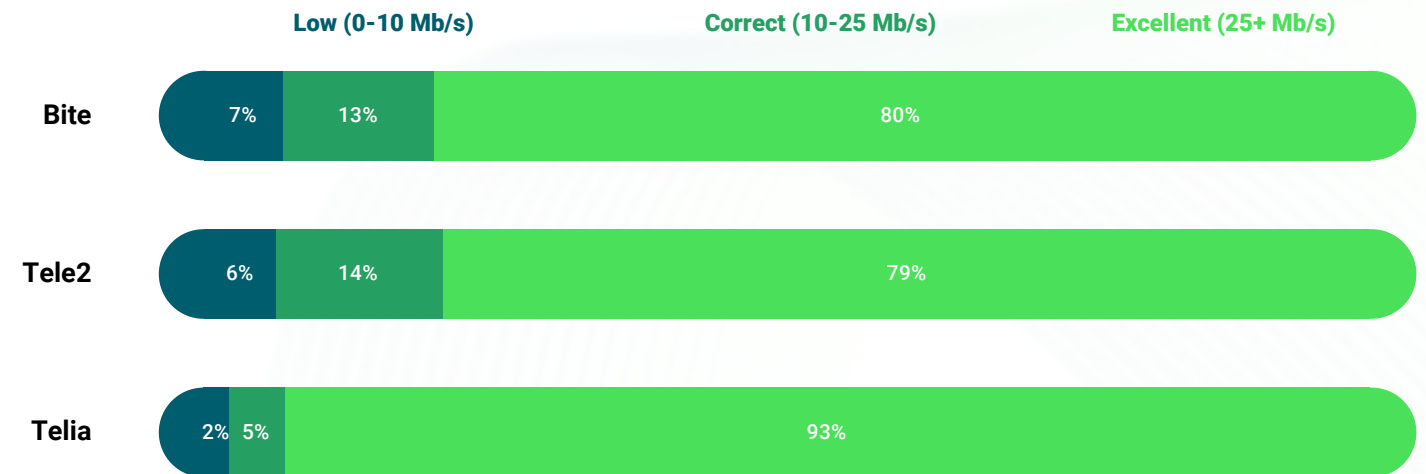
Browsing Performance rate (average)



Source : nperf.com

The subscribers of Telia enjoyed the best fixed Internet browsing performance in 2023.

Browsing Performance results ventilation (average)



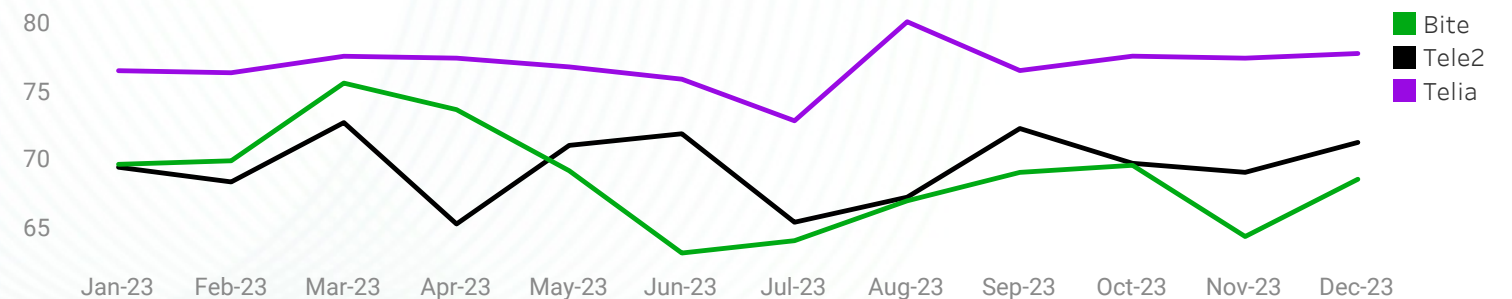
Source : nperf.com

Browsing Performance rate (average)



Source : nperf.com

Browsing performance rate (average) evolution over the year



Source : nperf.com



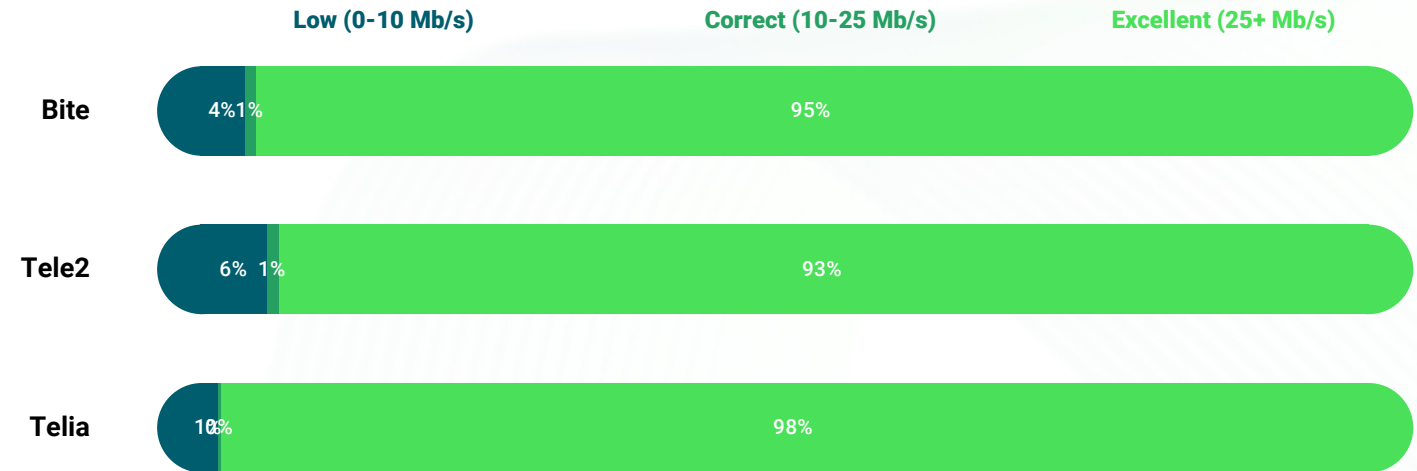
Streaming Performance rate (average)



Source : nperf.com

The subscribers of Telia enjoyed the best fixed Internet streaming performance in 2023.

Streaming Performance results ventilation (average)



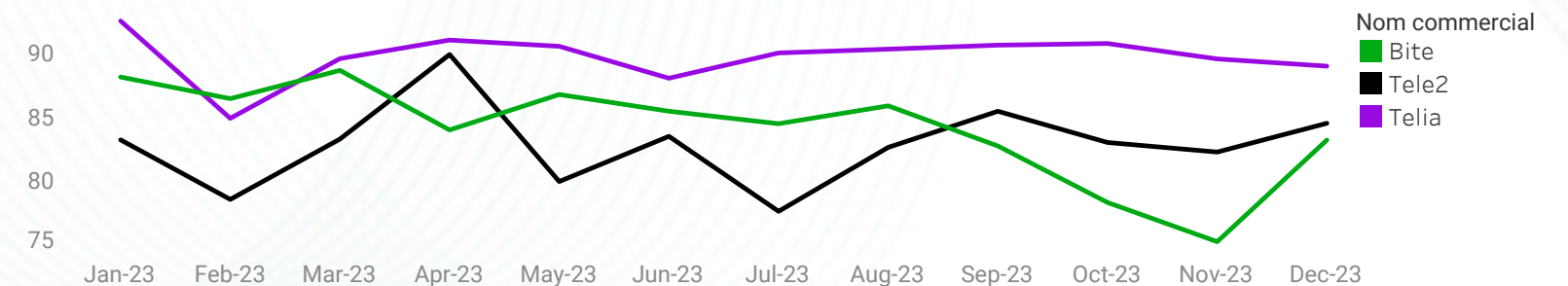
Source : nperf.com

Streaming Performance rate (average)



Source : nperf.com

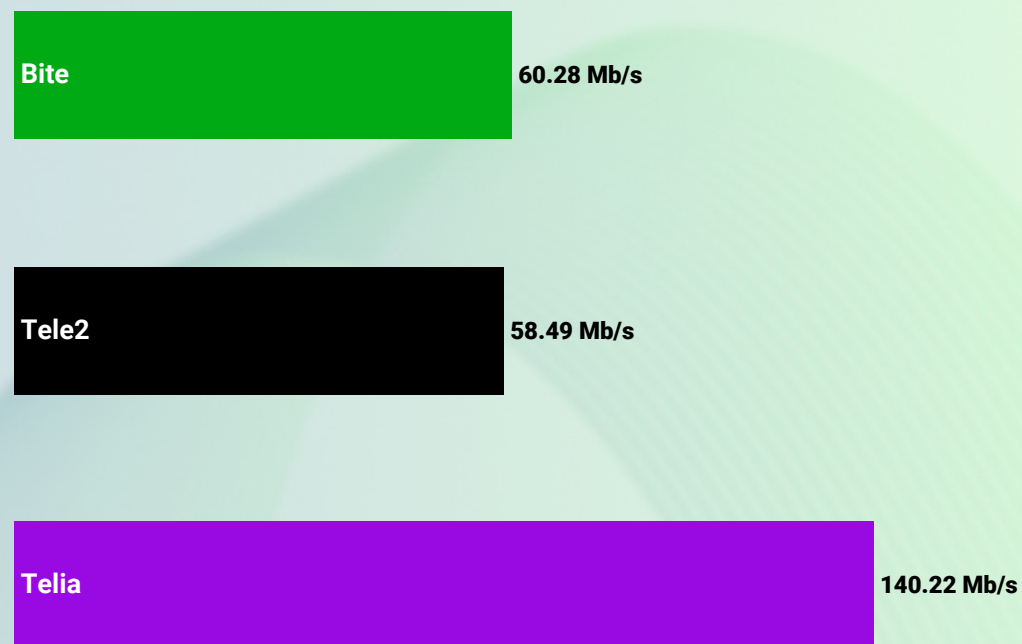
Streaming performance rate (average) evolution over the year



Source : nperf.com



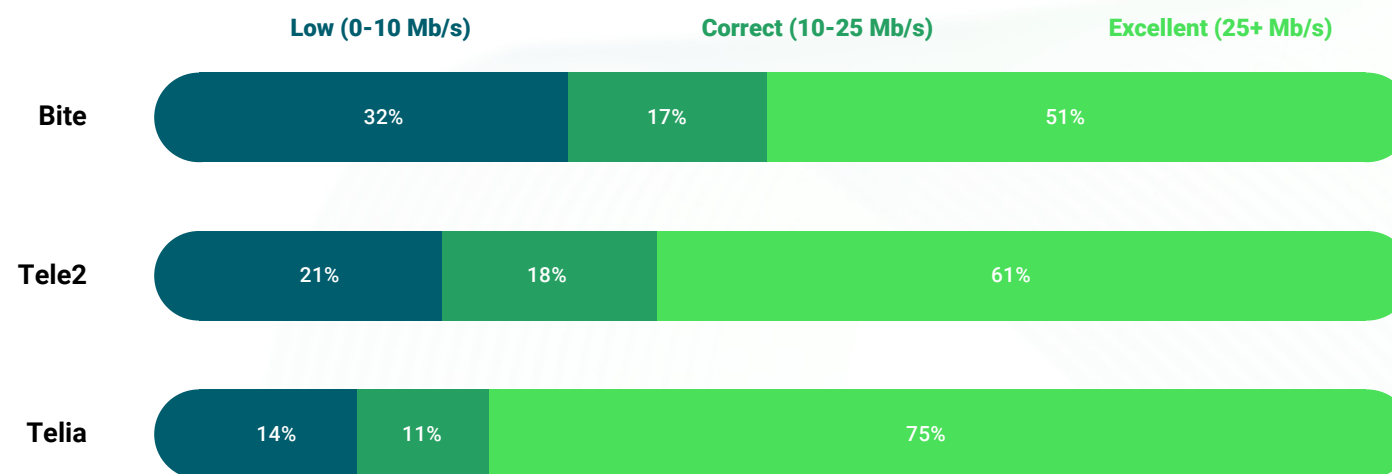
Download Speed (average)



Source : nperf.com

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

Download Speed results ventilation (average)



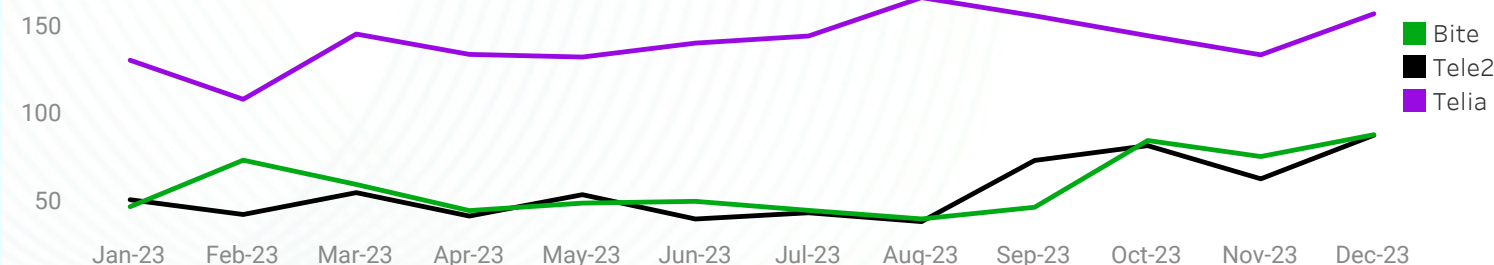
Source : nperf.com

Download Speed (average)



Source : nperf.com

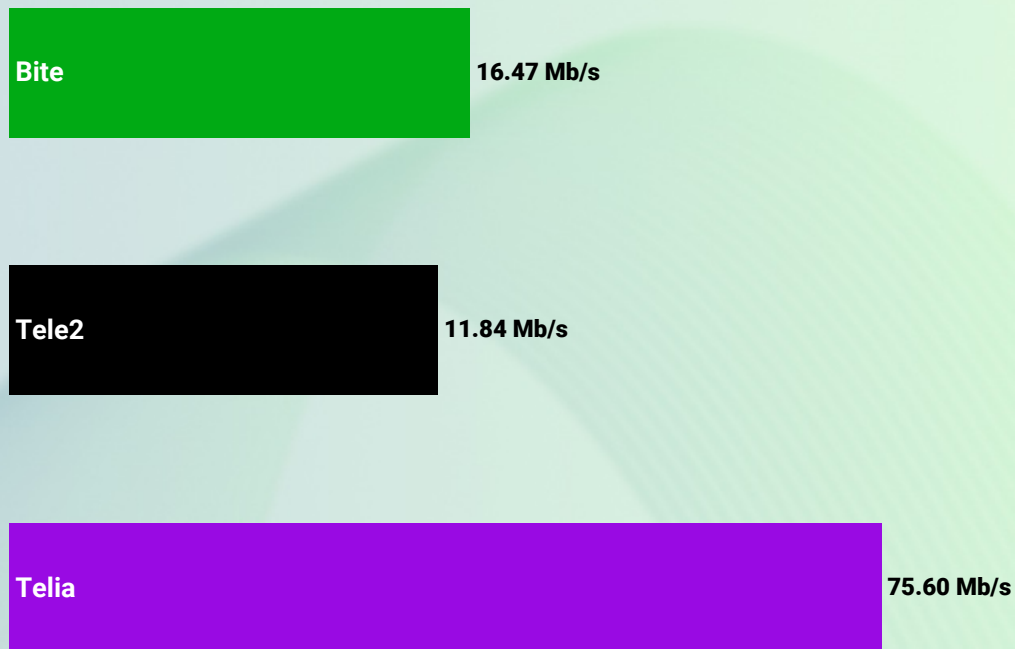
Download Speed evolution over the year (average)



Source : nperf.com



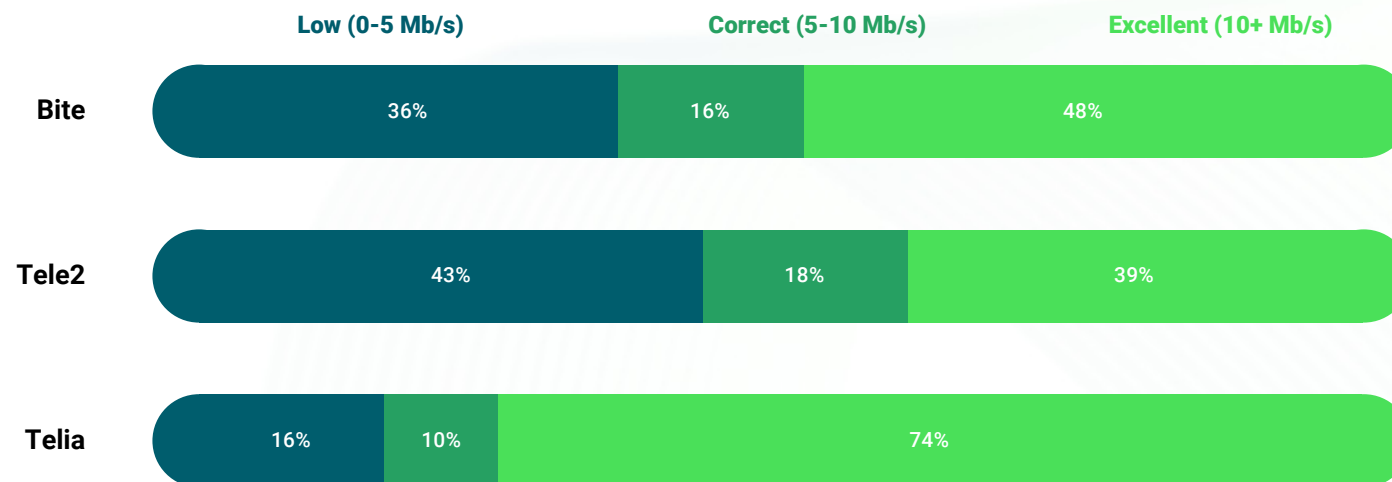
Upload Speed (average)



Source : nperf.com

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

Upload Speed results ventilation (average)



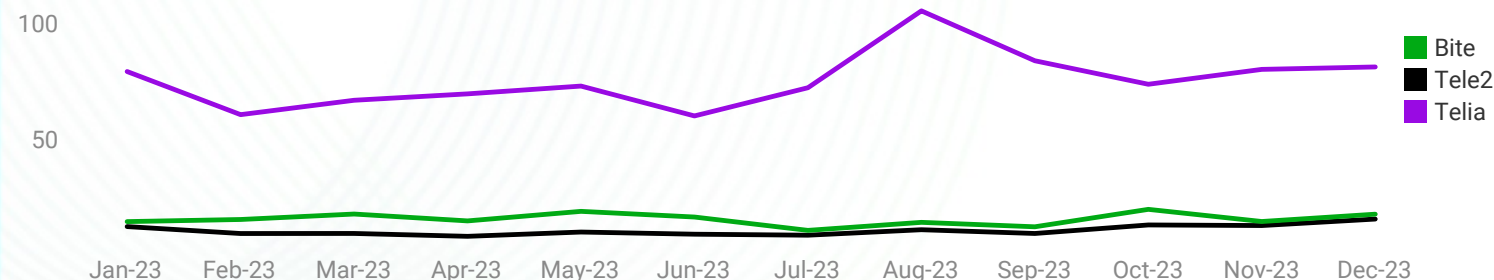
Source : nperf.com

Upload Speed (average)



Source : nperf.com

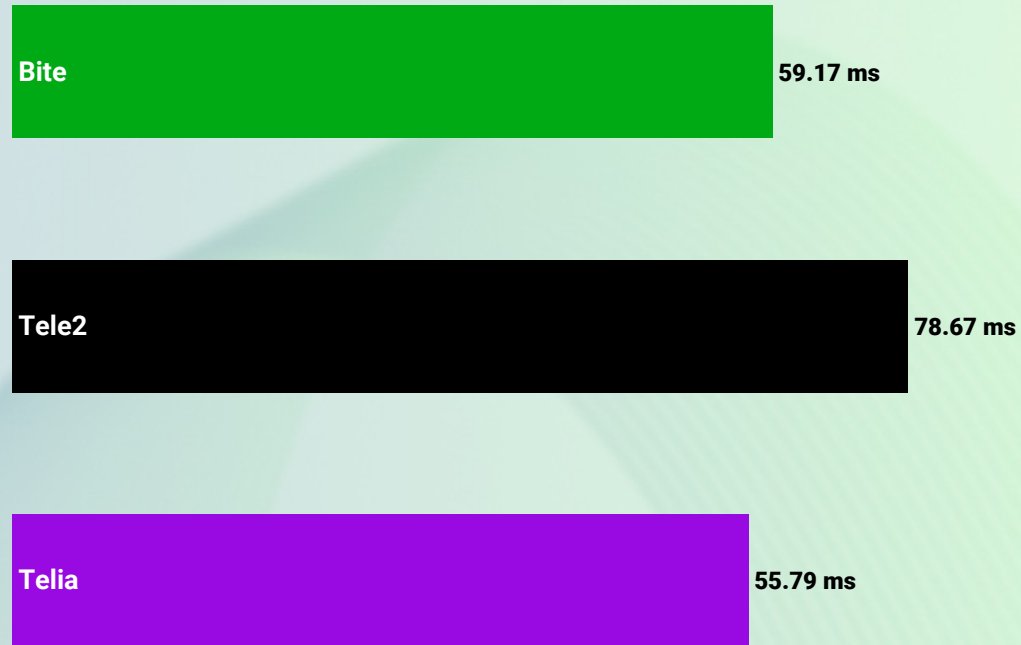
Upload Speed evolution over the year (average)



Source : nperf.com



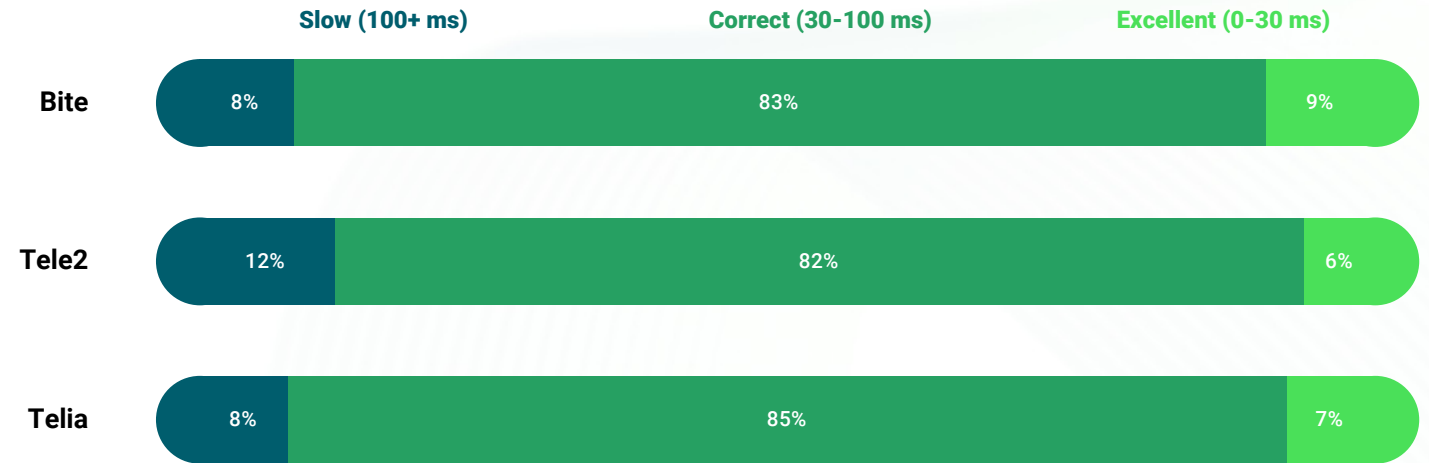
Latency Speed (average)



Source : nperf.com

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

Latency Speed results ventilation (average)



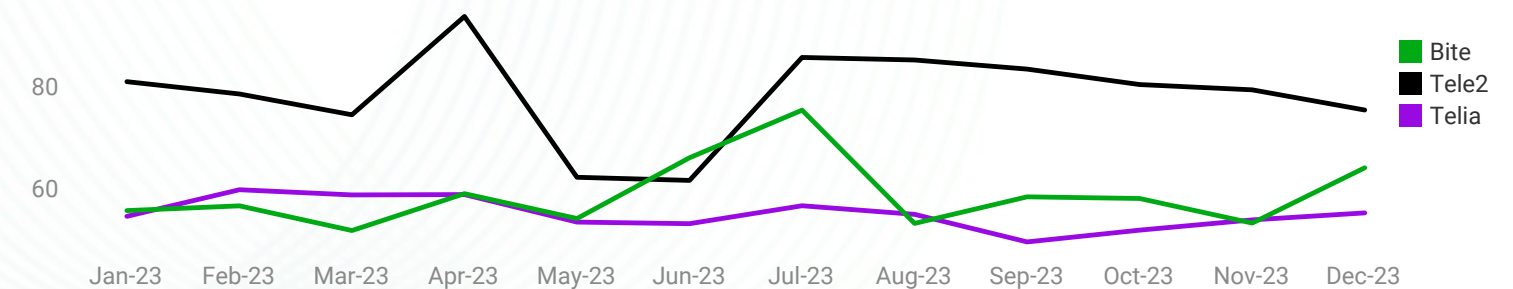
Source : nperf.com

Latency Speed (average)



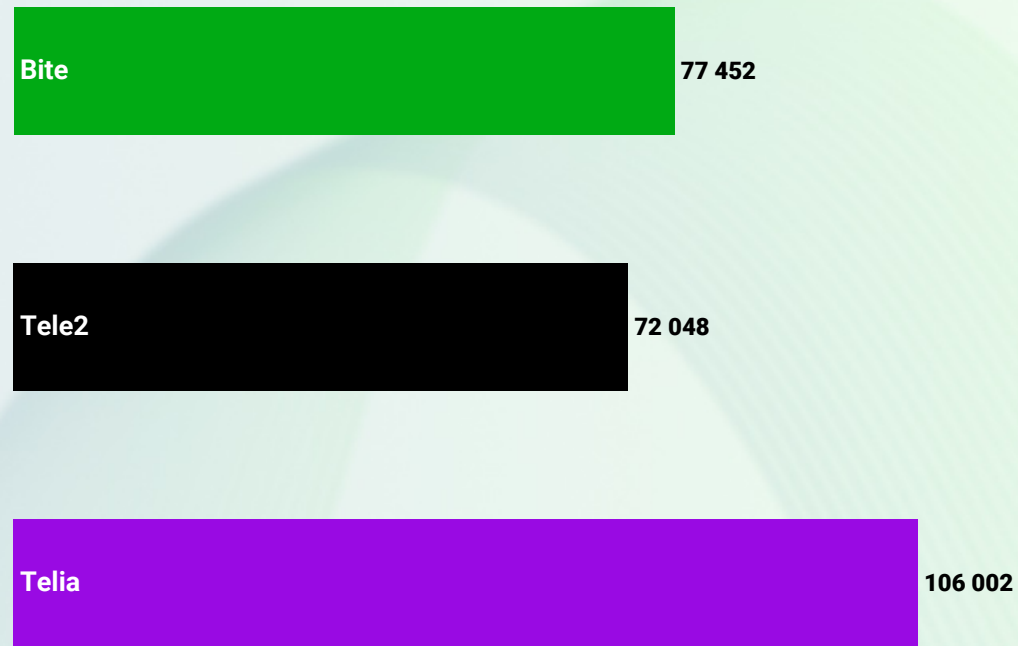
Source : nperf.com

Average latency Speed evolution over the year



Source : nperf.com

nPerf Score (nPoints)



Source : nperf.com

The subscribers of Telia enjoyed the best broadband performances in Lithuania 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.

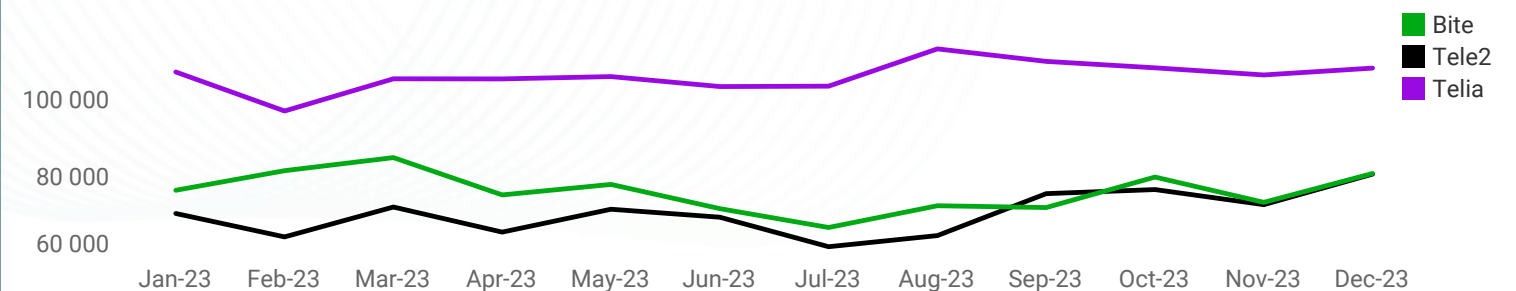
Source : nperf.com

Best fixed Internet performance in 2023



Source : nperf.com

nPerf score evolution over the year (average)



Source : nperf.com



We qualify your connection