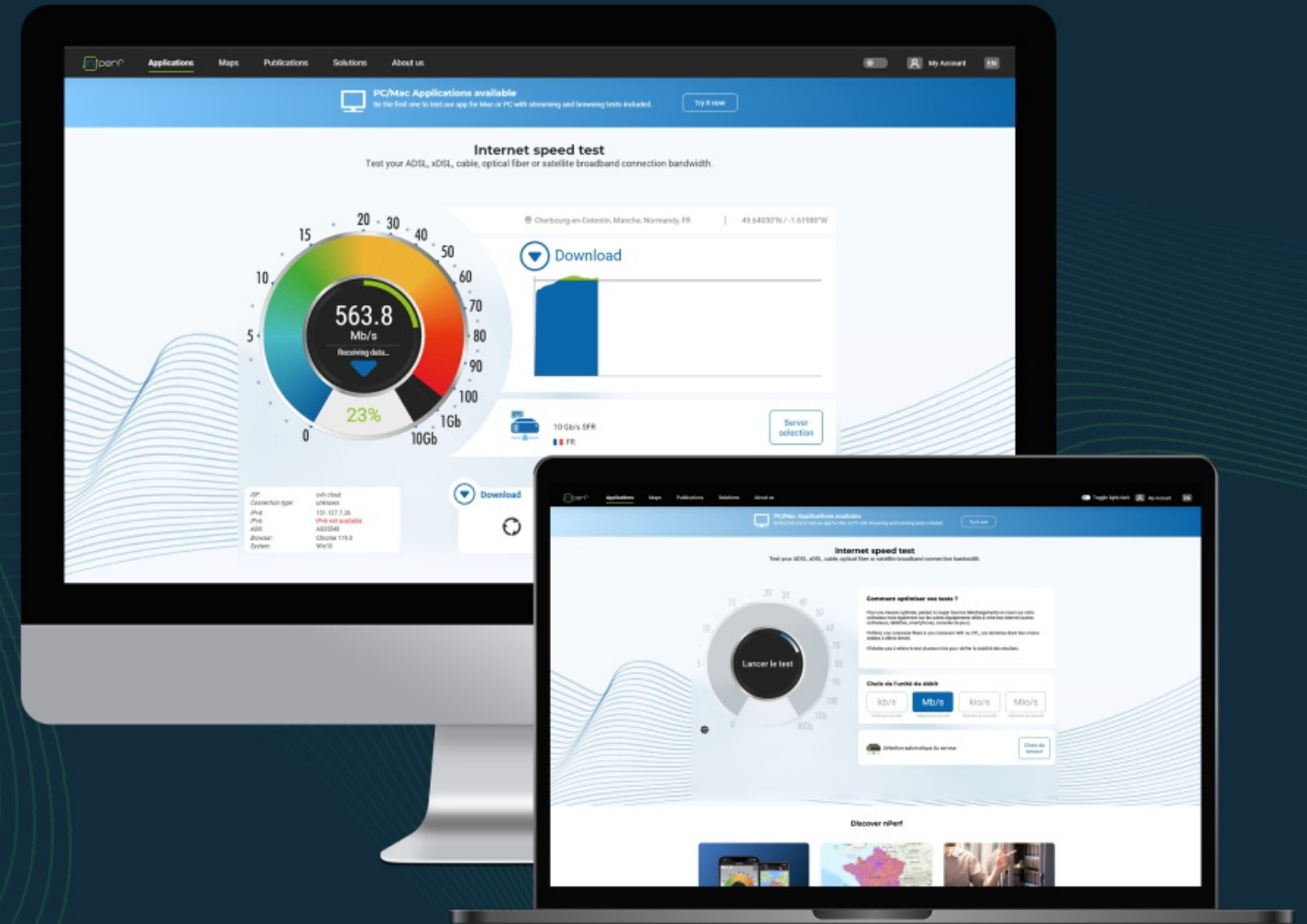




Barometer of fixed Internet Connections in Sweden.

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
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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 and Bahnhof enjoyed the best fixed Internet performances in Sweden during 2023.

Fixed Internet connections in Sweden

	Bahnhof	Bredband2	Tele2	Telenor	Telia	Tre
▼ Download bitrates (Mb/s)	213.41	142.71	134.47	121.14	176.30	61.46
▲ Upload bitrates (Mb/s)	176.72	112.23	70.76	113.30	160.81	18.47
◀▶ Latency (ms)	65.11	59.55	64.61	45.16	48.86	41.46

nPerf Score (nPoints)	138 476	129 768	124 106	131 499	138 874	108 022
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Source : nperf.com



Best fixed Internet performance
in 2023



Source : nperf.com



Bredband2

TELE2



Source : nperf.com

This report explores the fixed broadband market in Sweden, focusing on critical performance indicators such as download and upload bitrates, latency, and overall nPerf scores. With Bahnhof and Telia in a notable tie, we delve into the intricacies of each ISP's offerings, highlighting how these factors contribute to user experience, particularly in high-demand scenarios like high-definition streaming, online gaming, and large file uploads.

Bahnhof and Telia: leader of Sweden's broadband market

Bahnhof and Telia stand out with their exceptional performance, closely matched in their service offerings. Bahnhof impresses with a download bitrate of 213 Mb/s and an upload bitrate of 177 Mb/s, coupled with a latency of 65 ms. These metrics indicate a robust infrastructure capable of supporting intensive online activities. The nPerf score of 138,476 points underscores its leading position in the market.

Telia, on the other hand, showcases a strong performance with a download bitrate of 176 Mb/s and an upload bitrate of 161 Mb/s. A slightly better latency of 49 ms compared to Bahnhof suggests a smoother experience in real-time applications. With an nPerf score of 138,874 points, Telia slightly edges out Bahnhof, indicating a marginal lead in overall performance.

Bredband2: a strong contender

Bredband2 offers competitive download and upload bitrates of 143 Mb/s and 112 Mb/s, respectively. With a latency of 60 ms, it provides a reliable service that caters well to standard internet usage. The nPerf score of 129,768 points positions Bredband2 as a solid choice for users seeking a balance between speed and reliability.

Tele2: consistent and reliable

Tele2 delivers a consistent service with download and upload bitrates of 134 Mb/s and 71 Mb/s, respectively. Despite a latency of 65 ms, matching Bahnhof, its lower upload speed may affect users with high upload demands. An nPerf score of 124,106 points reflects its reliable performance in the broadband market.

Telenor: low latency specialist

Telenor sets itself apart with the second lowest latency of 45 ms among the ISPs, favoring real-time online interactions. With download and upload bitrates of 121 Mb/s and 113 Mb/s, respectively, it offers a balanced service. The nPerf score of 131,499 points highlights its competitive edge, especially in latency-sensitive applications.

Tre: room for improvement

Tre trails behind with significantly lower download and upload bitrates of 61 Mb/s and 18 Mb/s, respectively. However, its latency of 41 ms is the best among the ISPs, suggesting potential in real-time applications. The nPerf score of 108,022 points indicates a need for improvement in overall service quality to compete effectively.

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) :

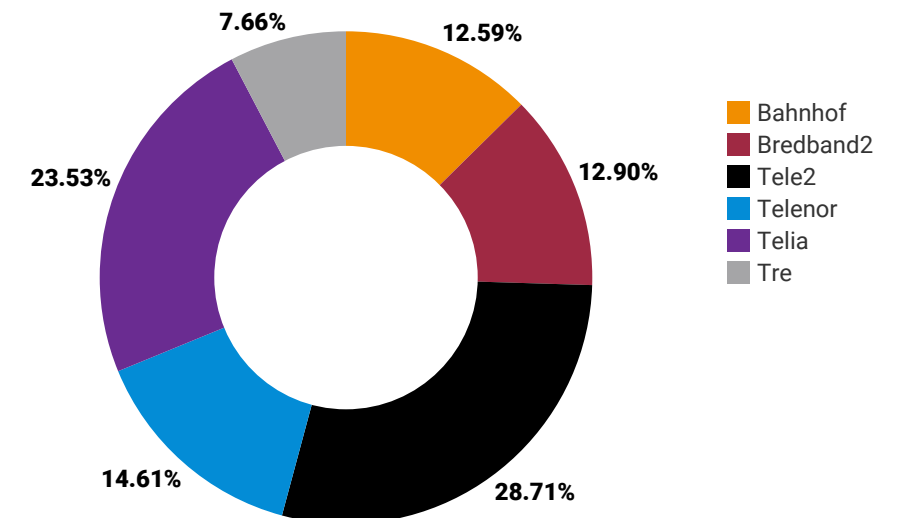
It indicated the delay a small packet of data requires to make a round-trip from your computer to the nPerf server. The shorter the delay, the most reactive your connection is. The main is the minimum value.

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.

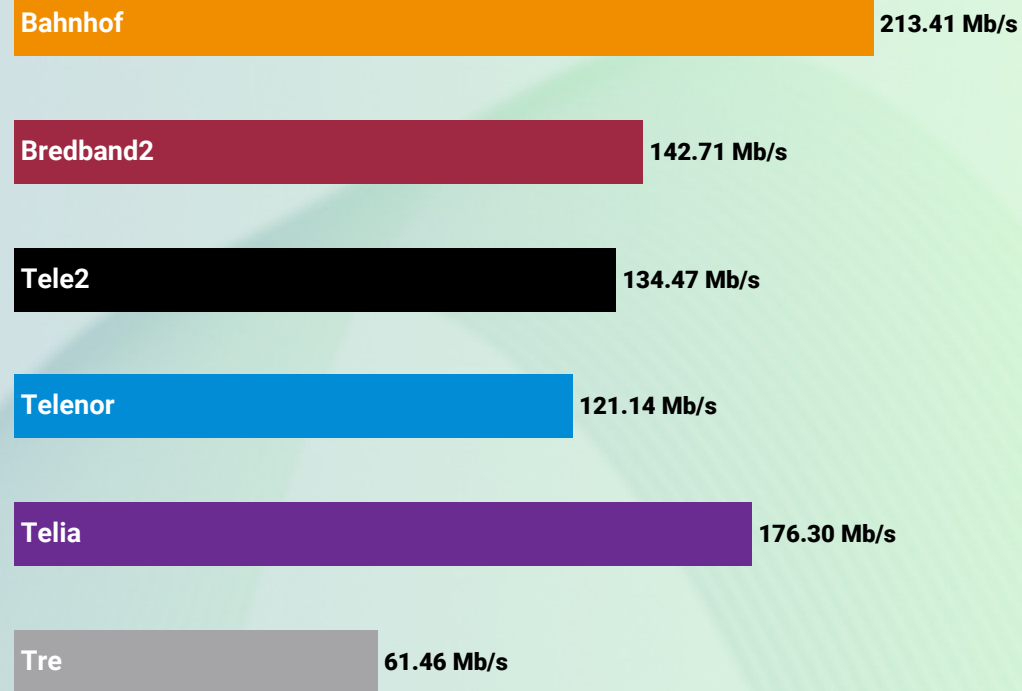
Overall distribution of the tests per provider (ISPs Share)



Source : nperf.com



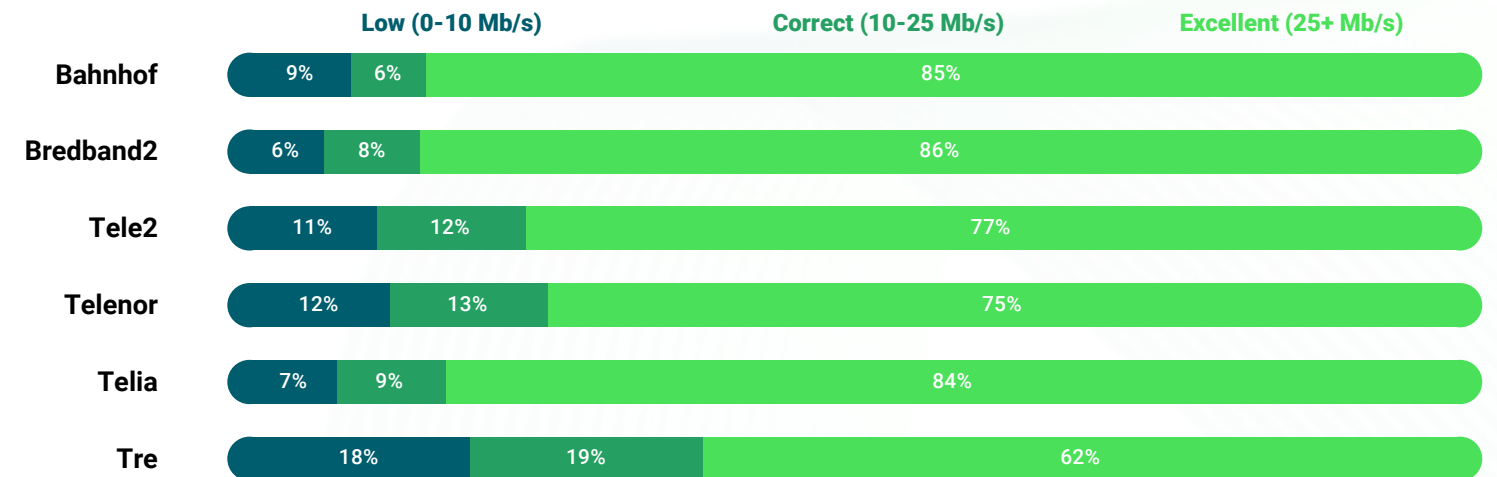
Download Speed (average)



Source : nperf.com

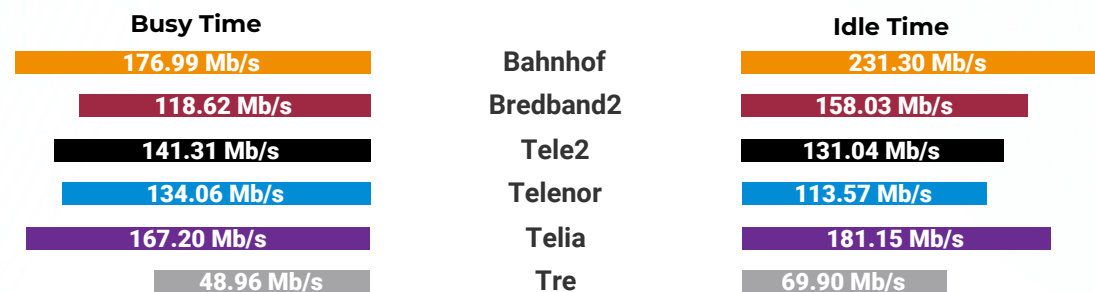
The subscribers of Bahnhof enjoyed the best average broadband download speed in 2023.

Download Speed results ventilation (average)



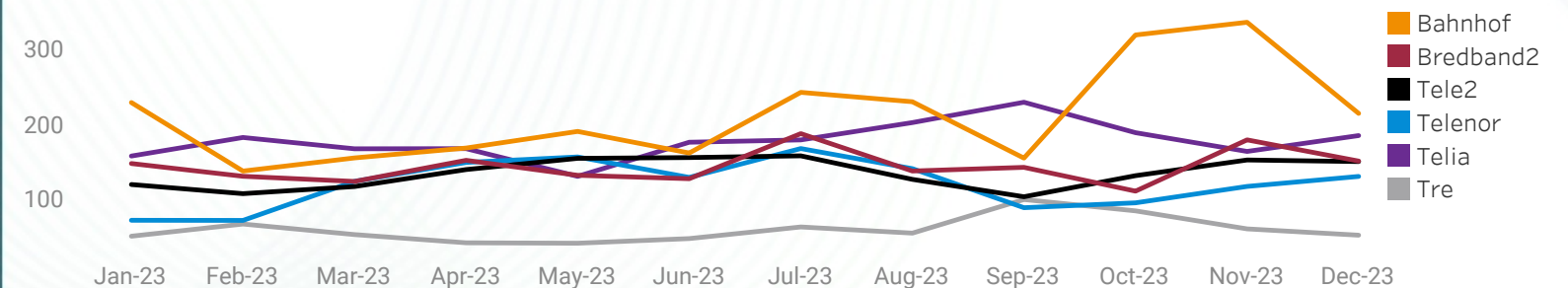
Source : nperf.com

Download Speed (average)



Source : nperf.com

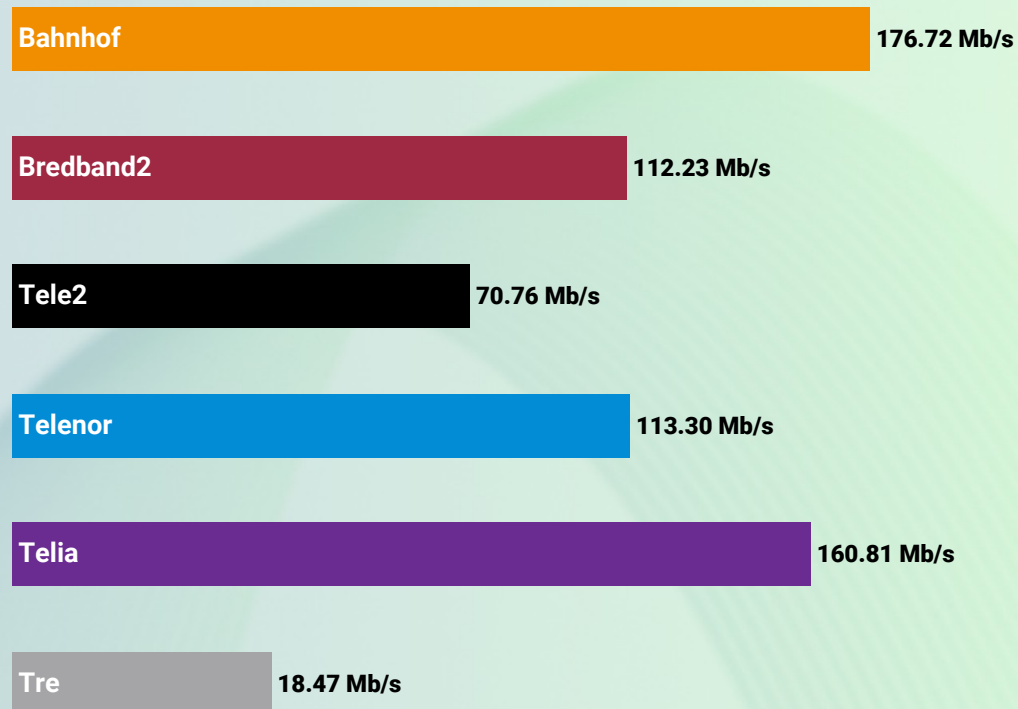
Download Speed evolution over the year (average)



Source : nperf.com



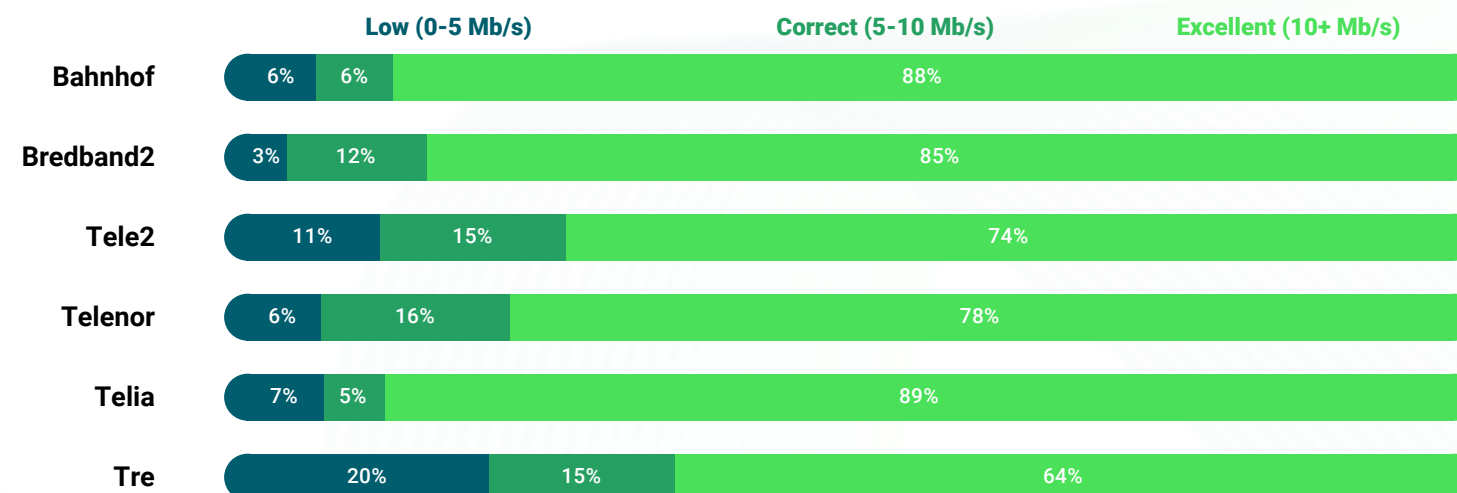
Upload Speed (average)



Source : nperf.com

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

Upload Speed results ventilation (average)



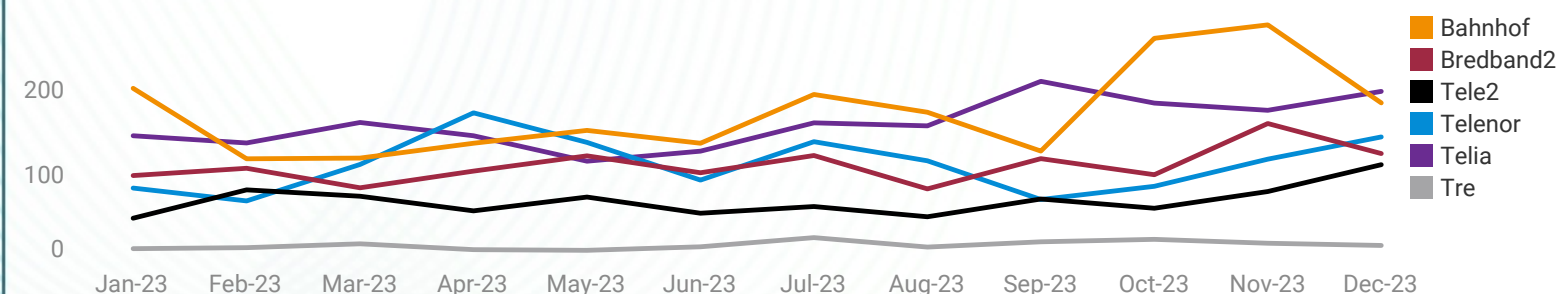
Source : nperf.com

Upload Speed (average)



Source : nperf.com

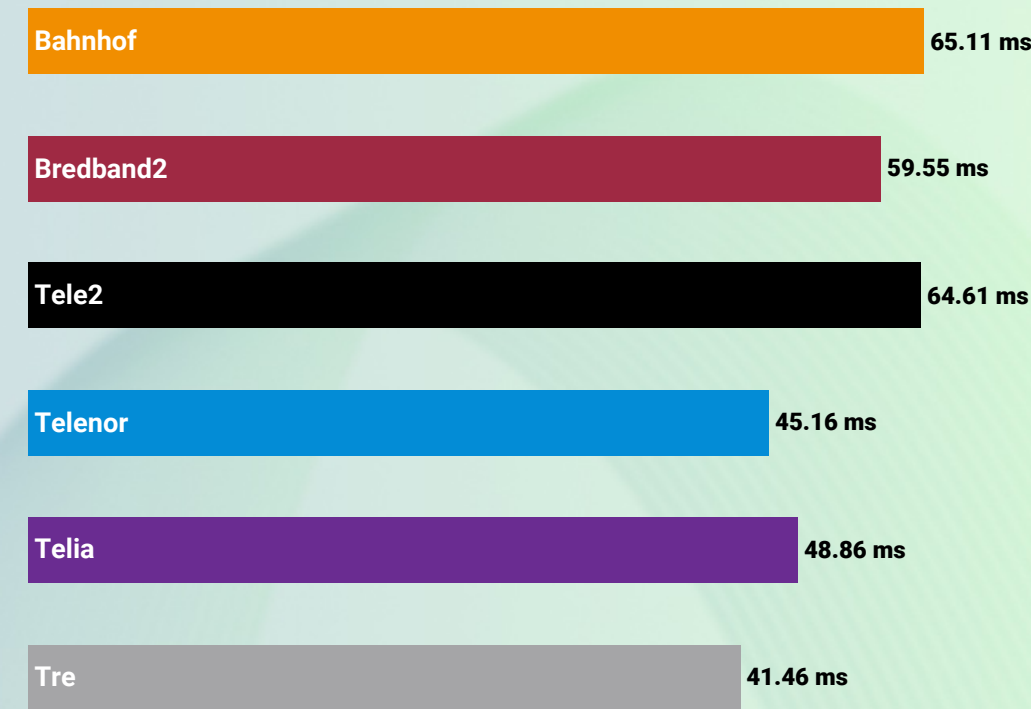
Upload Speed evolution over the year (average)



Source : nperf.com



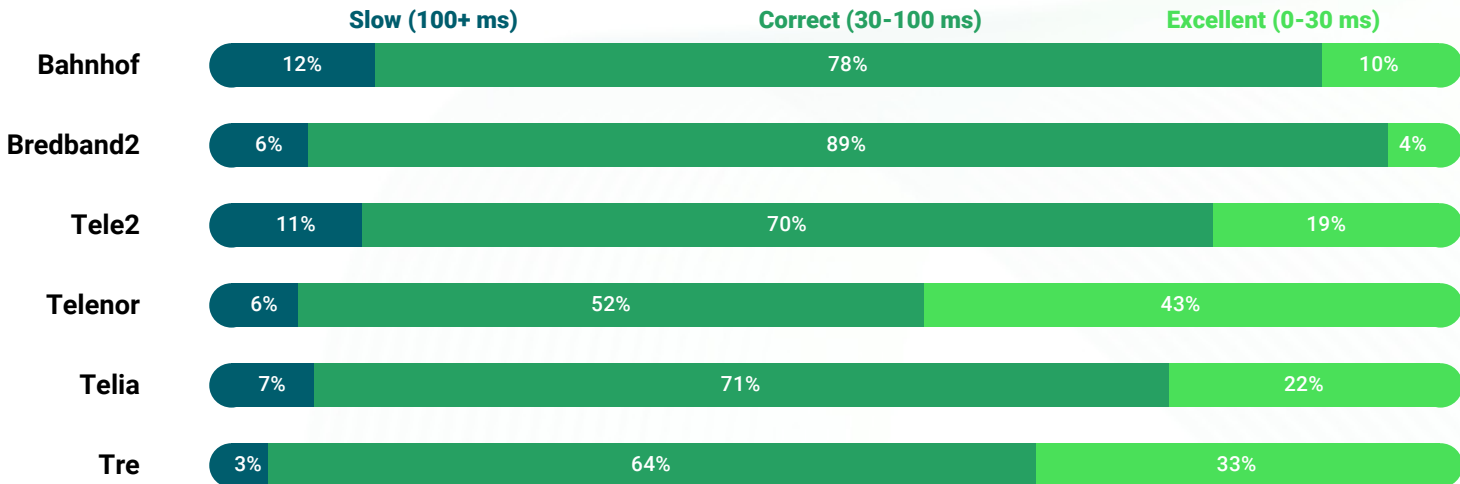
Latency Speed (average)



Source : nperf.com

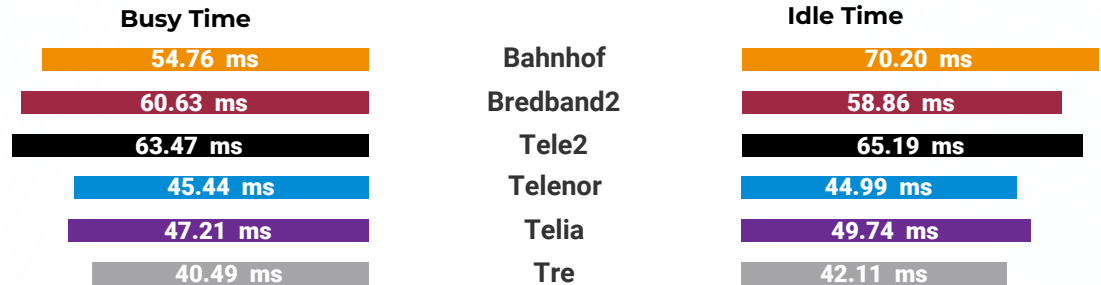
The subscribers of Tre enjoyed the best average broadband latency in 2023.

Latency Speed results ventilation (average)



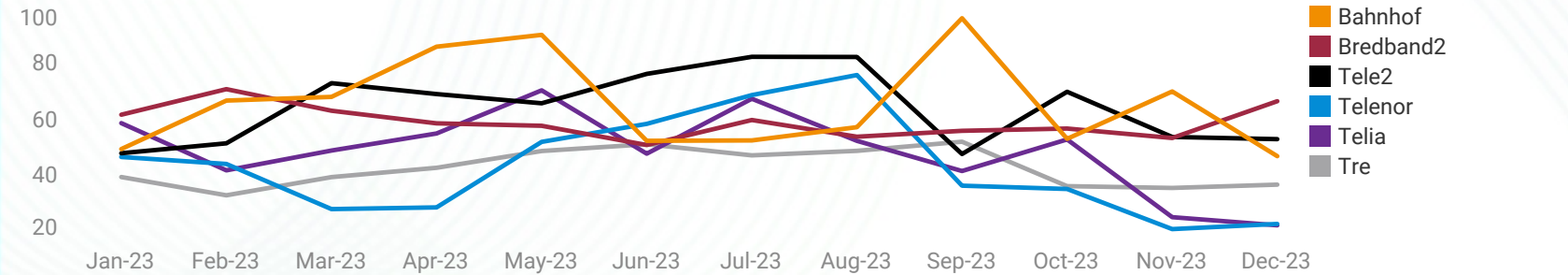
Source : nperf.com

Latency Speed (average)



Source : nperf.com

Average latency Speed evolution over the year



Source : nperf.com

nPerf Score (nPoints)



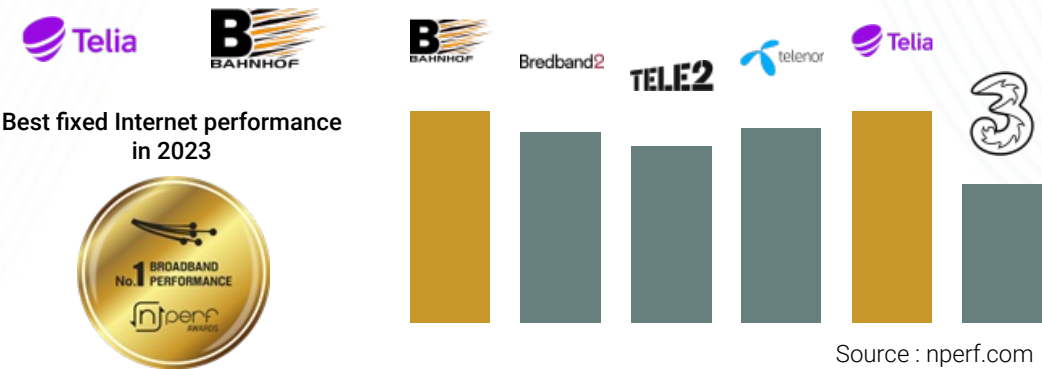
Source : nperf.com

The subscribers of Telia and Bahnhof enjoyed the best fixed Internet performances in Sweden 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.

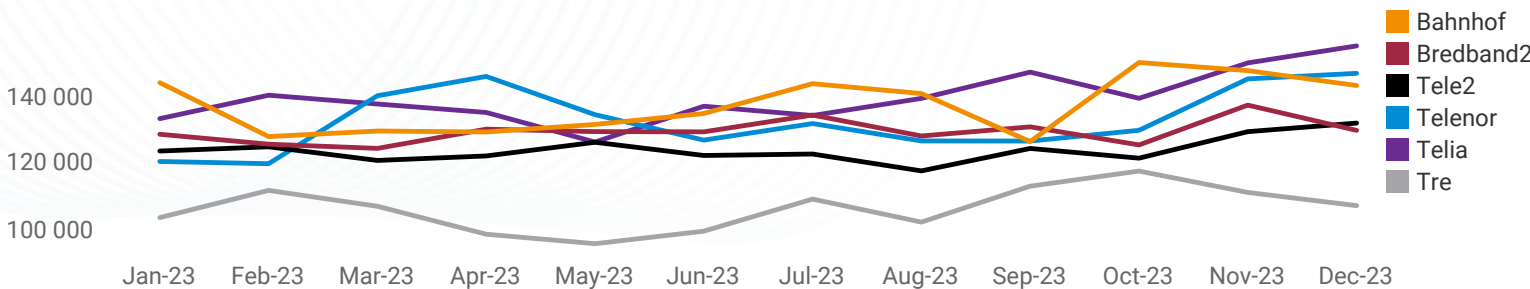
Thus, this score reflects the overall quality of the connection experienced by the user.

Source : nperf.com



Source : nperf.com

nPerf score evolution over the year (average)



Source : nperf.com

