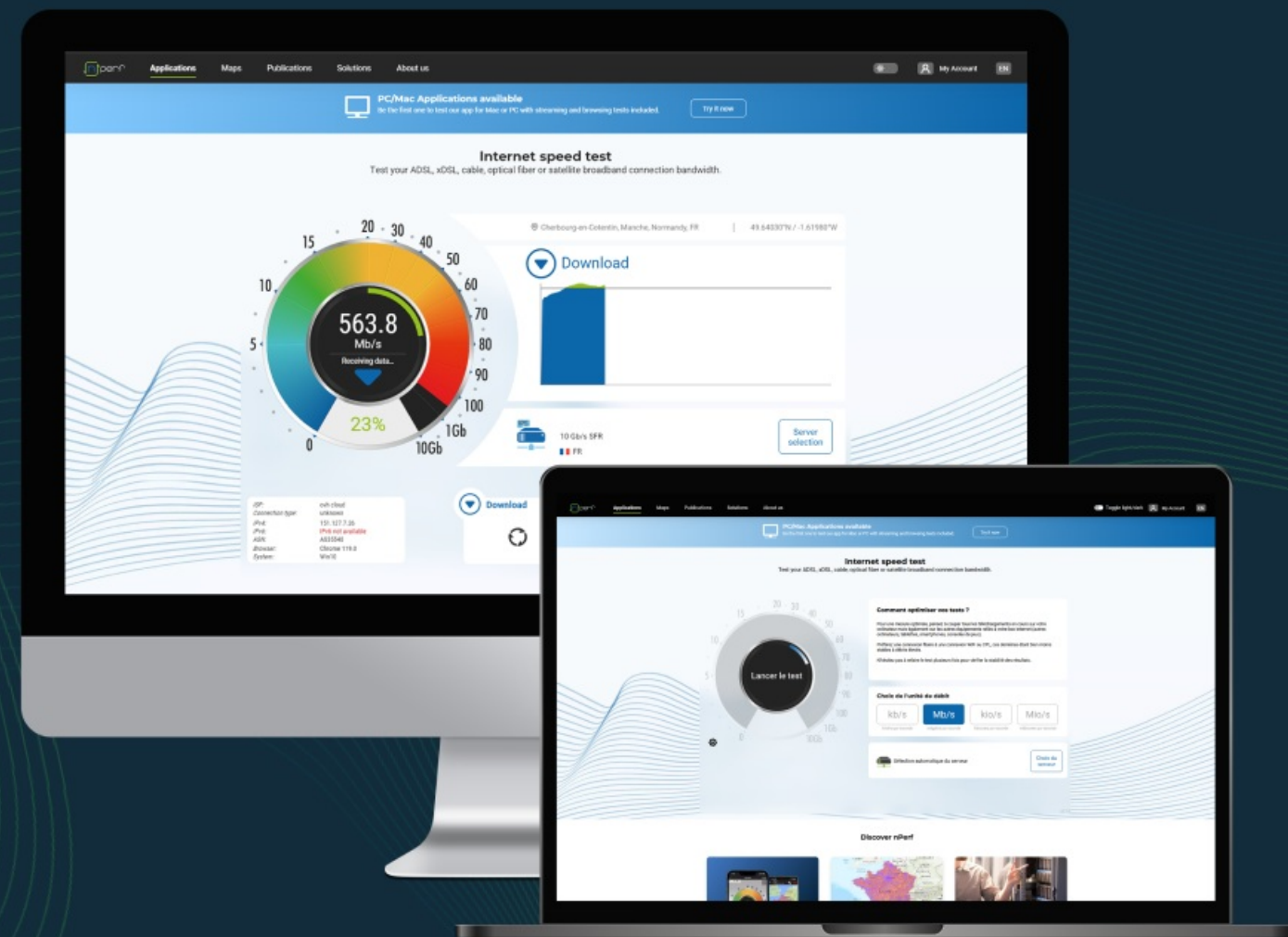


January 26, 2024



Barometer of fixed Internet Connections in Italy.

01/01/2023 - 31/12/2023



1

**Introducing
nPerf**

2

**Executive
summary**

3

Analysis

4

Methodology

5

**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!
Download our app or visit our website!



2. Executive Summary



The subscribers of Iliad enjoyed the best broadband performances in Italy during 2023.

Fixed Internet connections in Italy

	Fastweb	Iliad	TIM	Vodafone	Wind Tre
▼ Download bitrates (Mb/s)	160.94	387.75	166.14	167.53	162.95
▲ Upload bitrates (Mb/s)	88.91	263.82	89.04	98.58	77.58
◀▶ Latency (ms)	25.76	18.49	26.49	32.69	26.08
nPerf Score (nPoints)	144 480	172 983	144 457	141 327	143 370

FTTH Fixed Internet connections in Italy

	Fastweb	Iliad	TIM	Vodafone	Wind Tre
▼ Download bitrates (Mb/s)	465.23	578.16	514.33	485.11	426.35
▲ Upload bitrates (Mb/s)	292.23	400.88	316.92	318.43	243.03
◀▶ Latency (ms)	16.19	16.10	18.43	23.17	19.77
nPerf Score (nPoints)	178 814	184 807	178 929	173 913	172 675

iliad

Best fixed Internet performance
in 2023



Source : nperf.com



Source : nperf.com

Iliad Secures the top spot!

In 2023, Iliad emerged as the frontrunner in Italy's broadband network performance. With an impressive download speed of 388 Mb/s, more than double that of its closest contender, Vodafone, and an upload speed of 264 Mb/s, which is more than triple, Iliad has solidified its position at the pinnacle. Its comprehensive performance, along with robust latency, firmly secures its top rank.

Iliad enjoys a distinct advantage due to its strategic technological choices. By exclusively offering fiber optics (FTTH)-based plans, Iliad positions itself favorably compared to its competitors who rely on technologies such as ADSL and VDSL2. This approach brings numerous benefits, including higher and symmetrical speeds, enhanced reliability, improved scalability, and a competitive edge as a cutting-edge technology provider.

Fastweb: A high-performance contender in FTTH

Fastweb continues to exhibit consistent growth in network performance, boasting a download speed of 161 Mb/s and an upload speed of 89 Mb/s. On the FTTH network, Fastweb's evolution is even more impressive, delivering an average download speed of 465 MB/s to its users.

TIM: Demonstrating the highest performance growth year on year

TIM has demonstrated significant strength, achieving a substantial increase of 12,000 nPoints in just one year and advancing one spot in our overall ranking. With an average download speed of 166 Mb/s and an upload speed of 89 Mb/s, TIM stands on par with its closest competitor, Fastweb.

Win Tre: a steady performance growth

Win Tre shows a slow but constant growth over the year on download and upload.

Vodafone: Stable with room for improvement in latency

Vodafone has maintained its overall network performance relatively steady compared to the previous year. While it performs well in terms of download (168 Mb/s) and upload (99 Mb/s), there is room for improvement in latency.

Conclusion and future trends

Looking ahead to 2024, Italy's broadband network landscape, spearheaded by Iliad, is poised for continued growth and enhancement in FTTH technology. The ongoing race for fiber promises to provide users with faster connectivity and improved network performance.

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 receive 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 2 % precision for absolute values and 1 point for percentage-based results, highlighting the reliability and accuracy of our data.

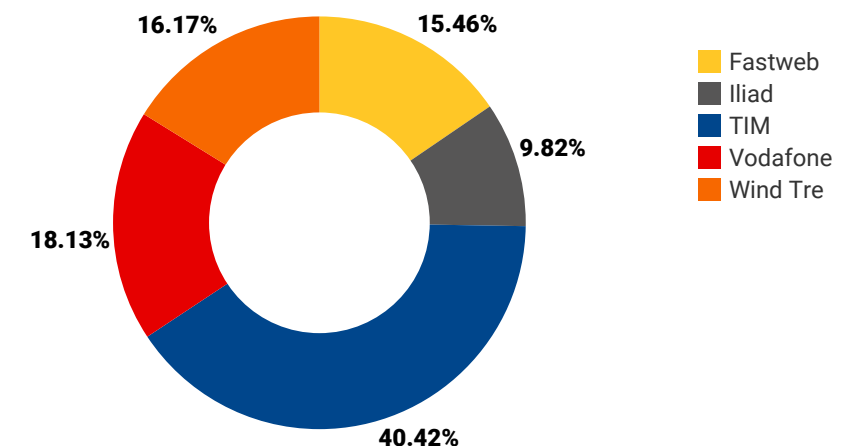
For a more comprehensive understanding of the user experience, our report features test results during both Busy hours (6 PM to 11 PM) and Idle hours (the rest of the day). Busy hours, marked by network strain, can impact user experience through congestion. This approach helps in understanding how network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

To be included in our ranking, an operator must reach a threshold of 5% of tests. Tiscali and SkyWiFi did not reach this threshold and are therefore not included in our study.

Despite still having a limited market share, Iliad is clearly overrepresented in our ranking, accounting for a significant portion of the tests, indicating that Iliad users are frequent users of nPerf.

However, this overrepresentation has no impact on Iliad's network performance.

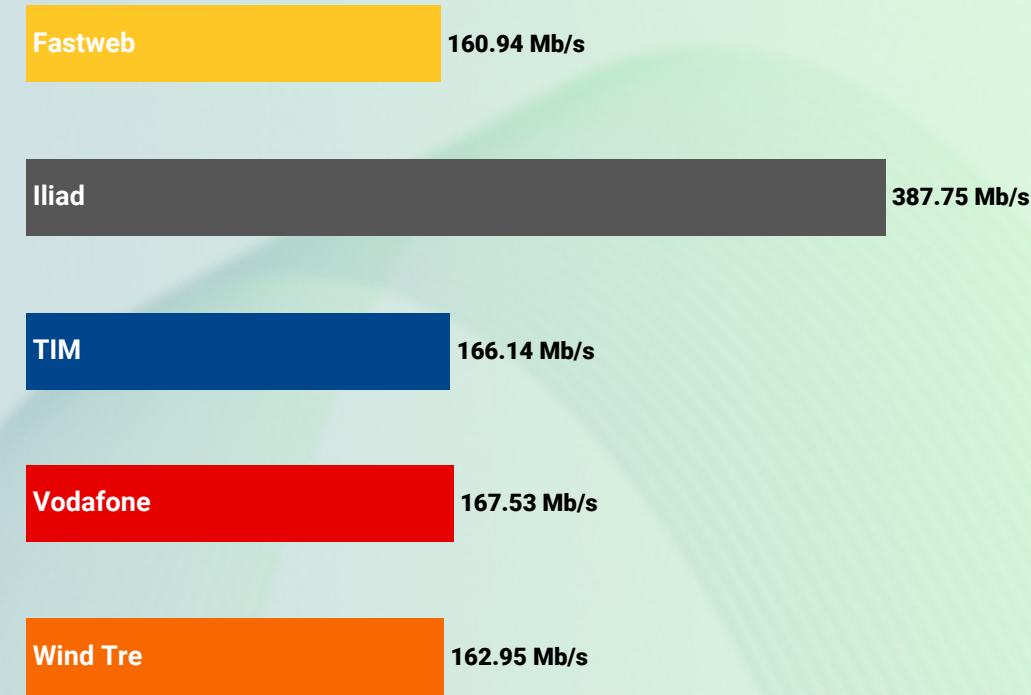
Overall distribution of the tests per provider (ISPs Share)



Source : nperf.com



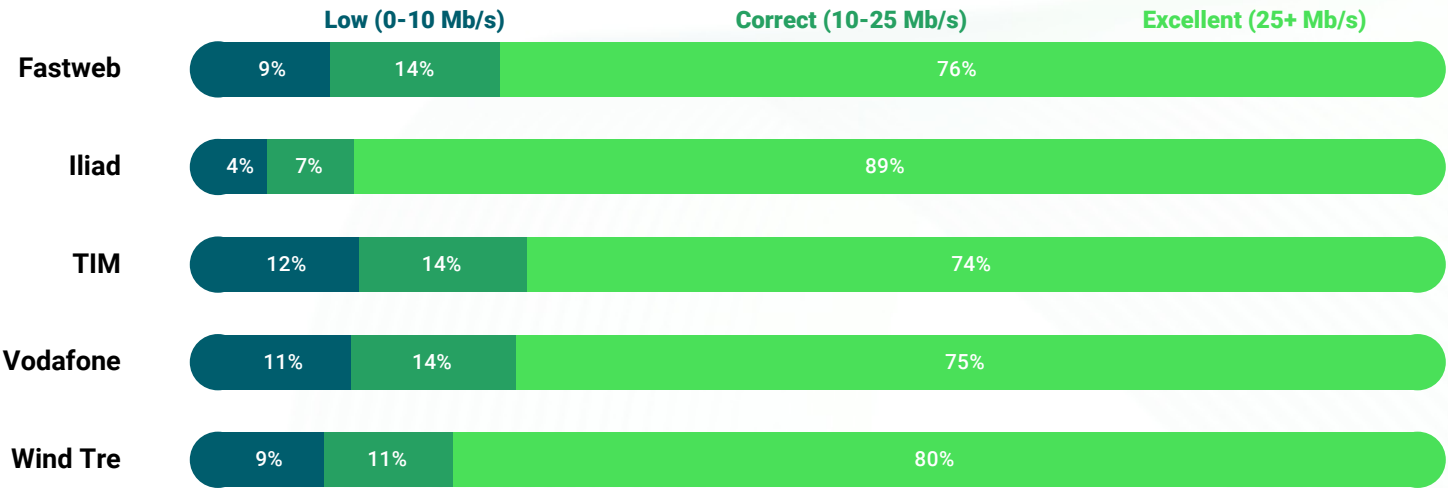
Download Speed (average)



Source : nperf.com

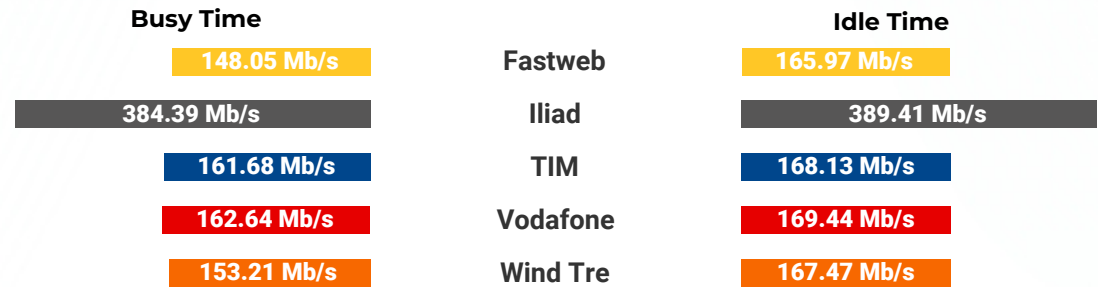
The subscribers of Iliad enjoyed the best average broadband download speed in 2023.

Download Speed results ventilation (average)



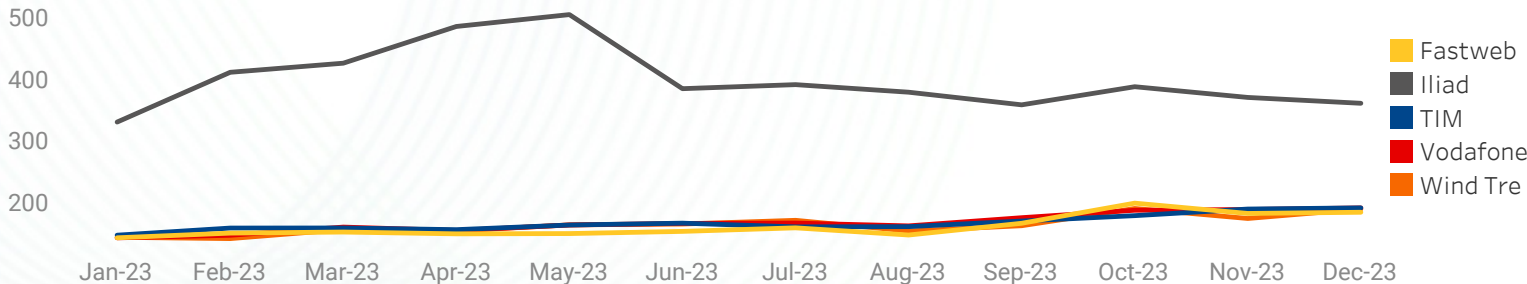
Source : nperf.com

Download Speed (average)



Source : nperf.com

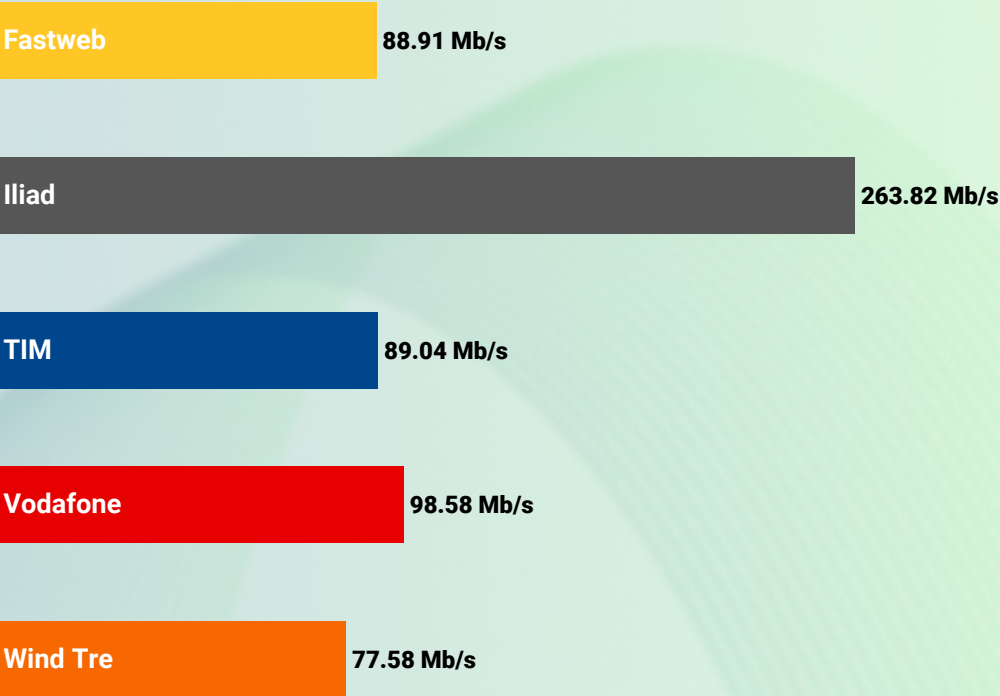
Download Speed evolution over the year (average)



Source : nperf.com



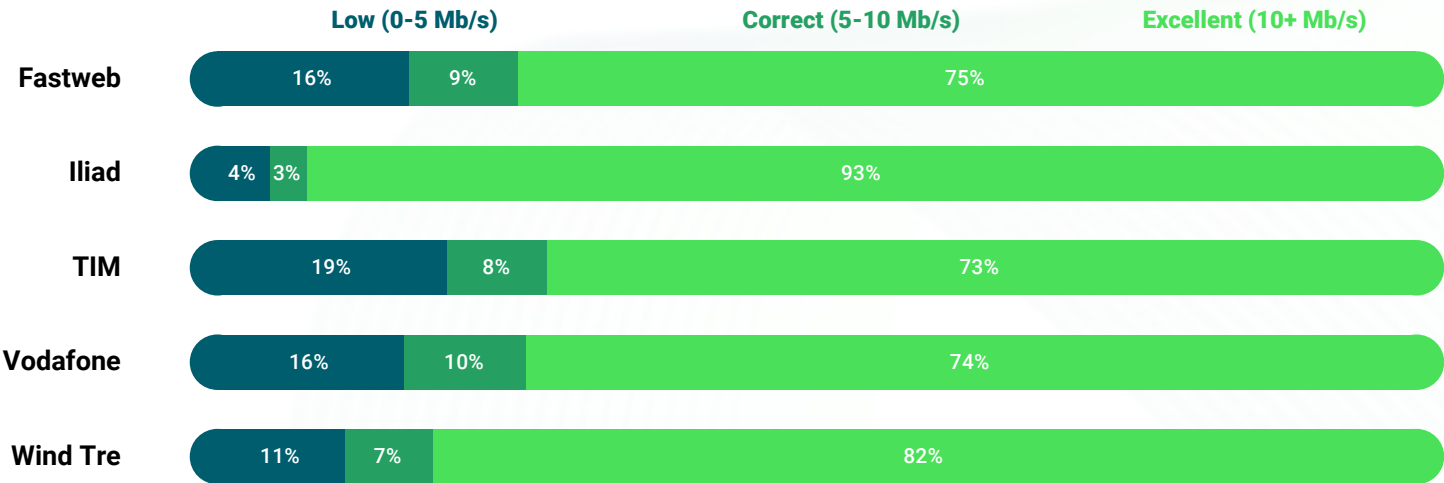
Upload Speed (average)



Source : nperf.com

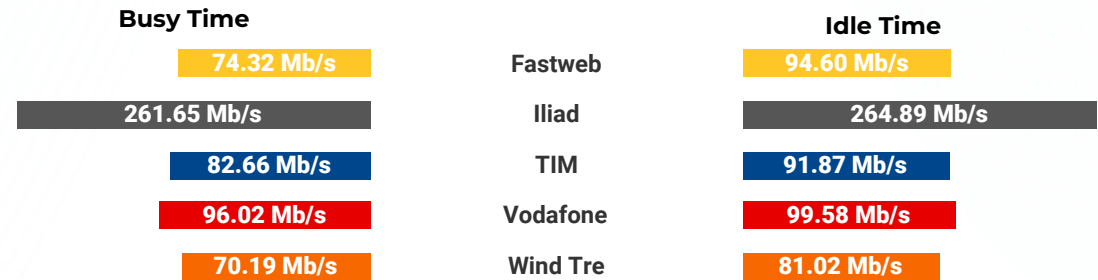
The subscribers of Iliad enjoyed the best average broadband upload speed in 2023.

Upload Speed results ventilation (average)



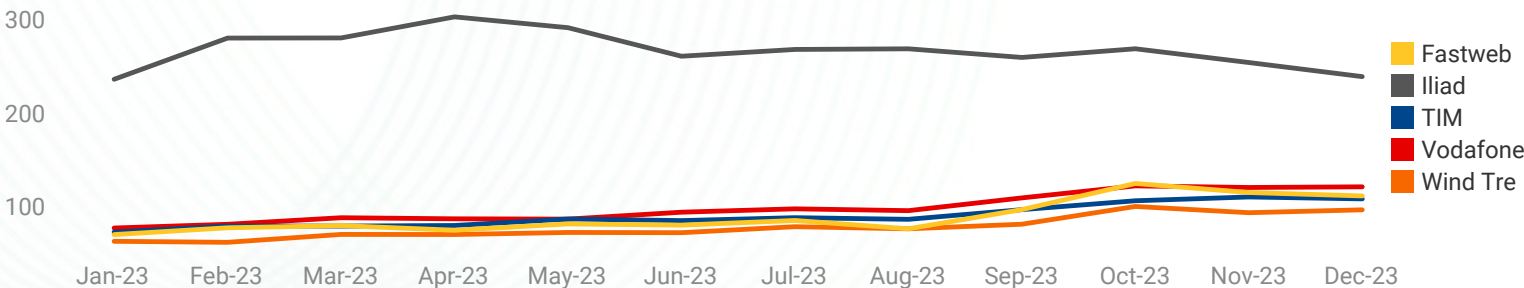
Source : nperf.com

Upload Speed (average)



Source : nperf.com

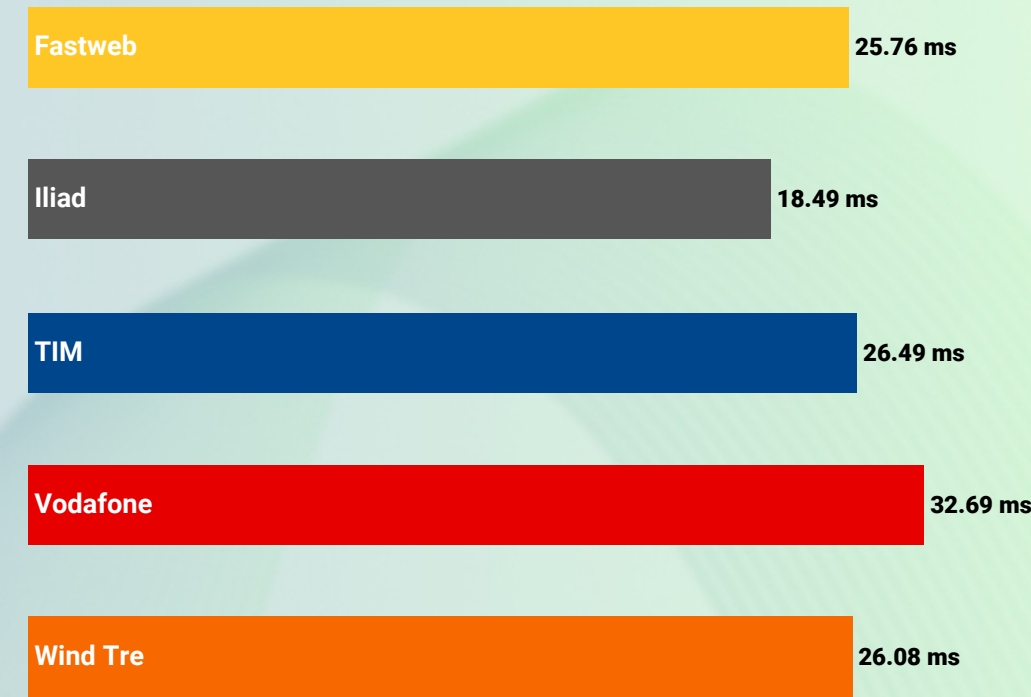
Upload Speed evolution over the year (average)



Source : nperf.com



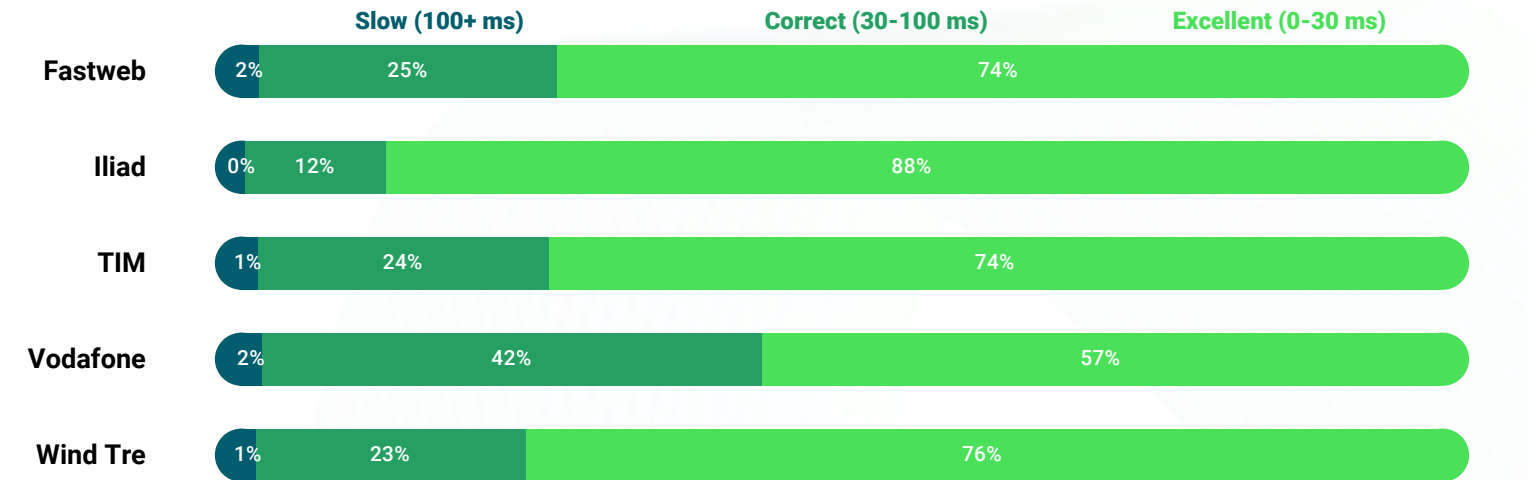
Latency Speed (average)



Source : nperf.com

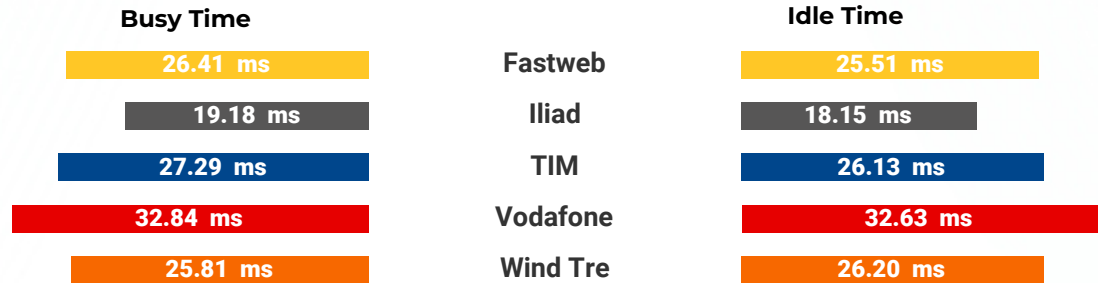
The subscribers of Iliad enjoyed the best average broadband latency in 2023.

Latency Speed results ventilation (average)



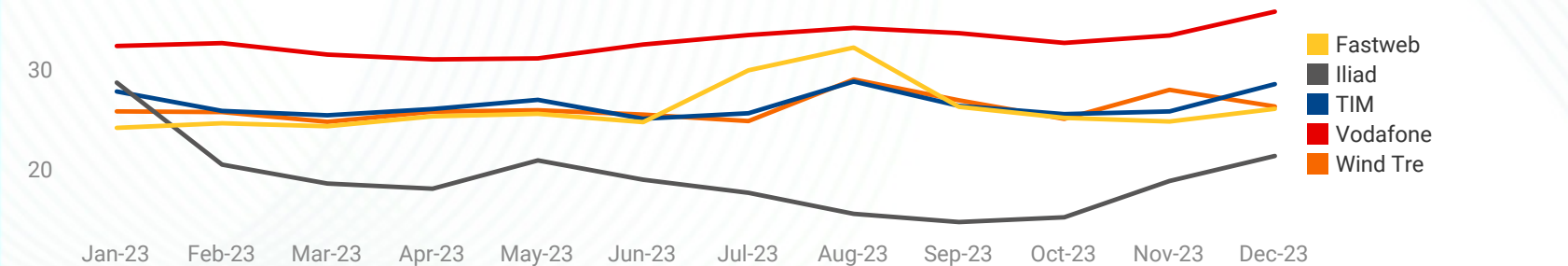
Source : nperf.com

Latency Speed (average)



Source : nperf.com

Average latency Speed evolution over the year



Source : nperf.com

nPerf Score (nPoints)



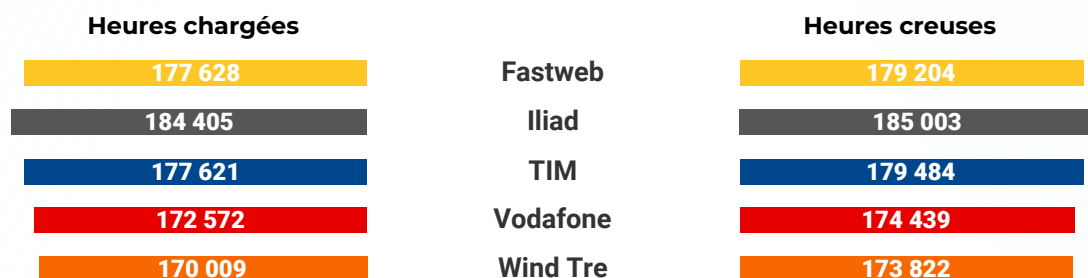
Source : nperf.com

The subscribers of Iliad enjoyed the best broadband performances in Italy during 2023 on FTTH.

- Best FTTH Internet Performance : Iliad (184 807 nPoints)
- Best FTTH Download speed : Iliad (578.16 Mb/s)
- Best FTTH Upload speed : Iliad (400.88 Mb/s)
- Best FTTH Latency speed : Iliad (16.10 ms) and Fastweb (16.19 ms)

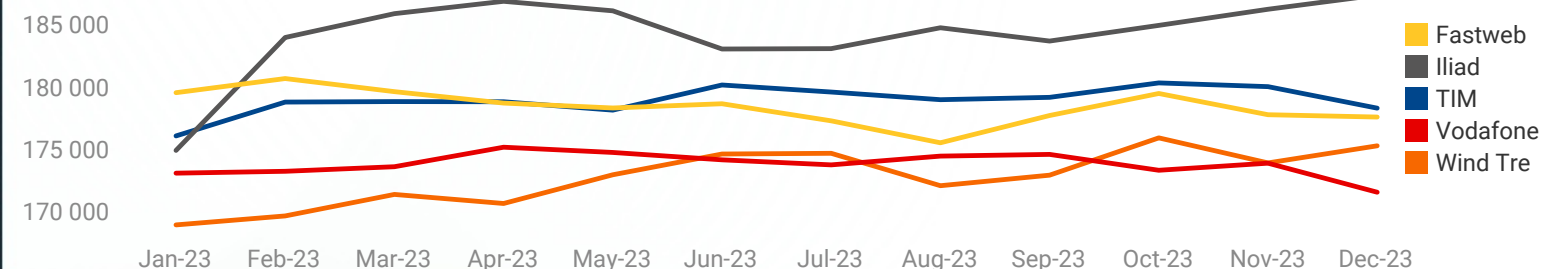
Source : nperf.com

nPerf Score (nPoints)



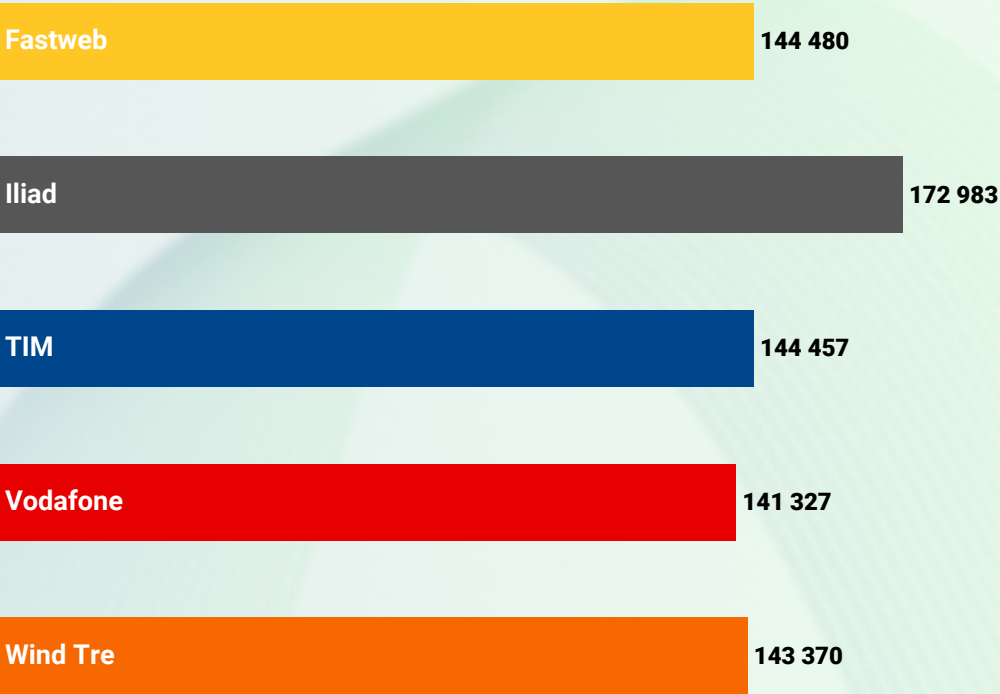
Source : nperf.com

nPerf score evolution over the year (average)



Source : nperf.com

nPerf Score (nPoints)



Source : nperf.com

The subscribers of Iliad enjoyed the best broadband performances in Italy during 2023.

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.

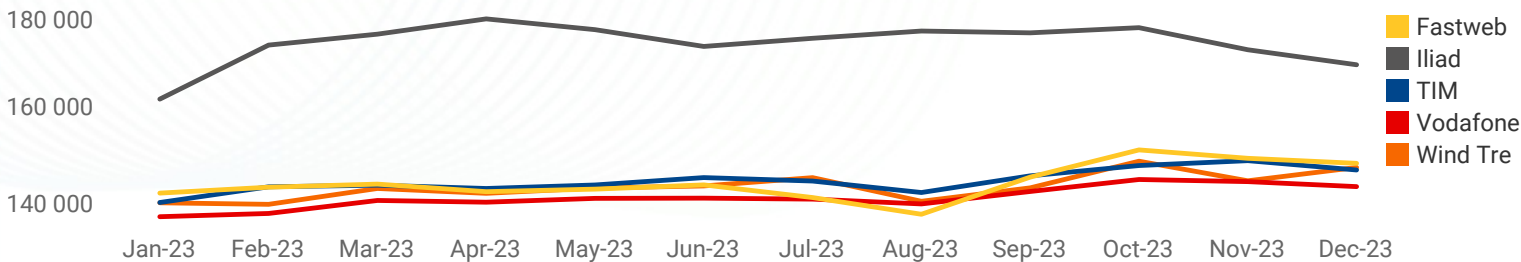
Source : nperf.com

iliad
Best fixed Internet performance
in 2023



Source : nperf.com

nPerf score evolution over the year (average)



Source : nperf.com

