

01/10/2025

Barometer of mobile Internet connections in Italy

01/01/2024 - 12/31/2024



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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.

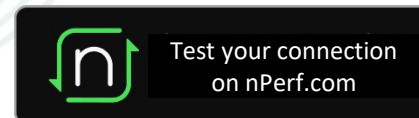
 **300k+** tests daily worldwide.

 **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! Download our app or visit our website!



2. Executive Summary



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

Mobile Internet connections in Italy

	Fastweb	Iliad	TIM	Vodafone	Wind Tre
▼ Download bitrates (Mb/s)	93,44	52,06	75,29	116,71	85,64
▲ Upload bitrates (Mb/s)	14,62	10,26	13,76	18,72	14,93
◀▶ Latency (ms)	53,78	55,75	48,34	38,19	45,97
🌐 Web browsing (%)	69,71	68,45	70,41	74,73	72,21
📺 Youtube streaming (%)	81,33	81,64	81,98	83,75	82,96
📄 nPerf Score (nPoints)	81 978	72 082	81 019	94 836	85 200

Source : nperf.com



Best mobile Internet performance in 2024




Source : nperf.com



Source : nperf.com

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

5G mobile Internet connections in Italy

	Fastweb	Iliad	TIM	Vodafone	Wind Tre
▼ Download bitrates (Mb/s)	147,74	87,19	167,07	243,32	146,04
▲ Upload bitrates (Mb/s)	20,08	15,05	21,85	28,27	20,83
◀▶ Latency (ms)	51,96	50,13	43,52	35,08	42,70
🌐 Web browsing (%)	75,35	74,96	77,57	79,64	78,51
📺 Youtube streaming (%)	84,36	84,73	84,80	85,35	84,99
 nPerf Score (nPoints)	94 846	86 846	100 863	112 227	99 793

Source : nperf.com

Introduction

In 2024, Vodafone has emerged as the market leader in Italy's mobile telecom sector, maintaining its position from the previous year. The focus on 5G remains strong, with Vodafone continuing to lead in this area, demonstrating slight growth in its performance. Vodafone is recognized as the sole leader for 2024, as no new market leaders have emerged. The analysis of key performance indicators (KPIs) highlights Vodafone's dominance, particularly in Download speed, Latency, and other areas, while also showcasing the positive trends and strengths within the market.

Vodafone: Leader of the market with exceptional performances.

For the period Q1 2024-Q4 2024, Vodafone stands out as the market leader with an impressive overall score. Vodafone excels in Download speed, maintaining its leadership in Latency and demonstrating strong performance in both Browsing and Video streaming. In terms of specific focuses, Vodafone remains the leader in 5G, reinforcing its pioneering status in mobile technology.

TIM: Excellence in Browsing.

TIM shows strong performance with a notable score, particularly excelling in Browsing. Although not the market leader, TIM demonstrates competitiveness in specific categories, contributing significantly to the market's overall strength.

Wind Tre: Excellence in Streaming.

Wind Tre performs well in Video streaming, showcasing its capabilities in delivering quality streaming experiences. While not leading the market, Wind Tre's strengths in specific KPIs highlight its contribution to the competitive landscape.

Fastweb: Excellence in Download.

Fastweb's performance is commendable in Download speed, indicating its prowess in providing high-speed connections. Although not the market leader, Fastweb's contributions in this area underline its importance in the market.

Iliad: Solid Performance in Streaming.

Iliad exhibits solid performance in Video streaming, emphasizing its ability to deliver quality streaming services. Despite not being the market leader, Iliad's focus on specific KPIs demonstrates its role in the market dynamics.

Conclusion

Vodafone remains the dominant market leader, excelling across multiple KPIs, including Download speed and Latency, and maintaining a strong focus on 5G technology. The competitive landscape showcases the strengths of various operators, with each contributing uniquely to the market's vitality. The market remains vibrant and competitive, driven by the technological advancements and strategic focus of the operators.

4. Methodology



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 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 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

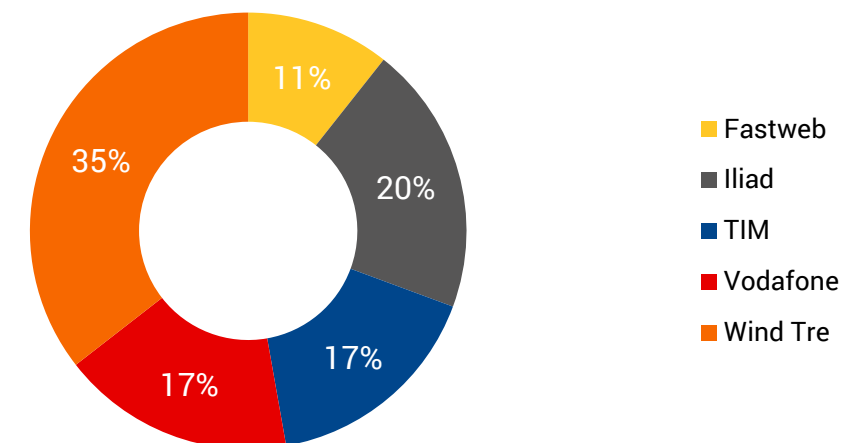
The video streaming test gauges the load time of a fully loaded video in three resolutions on YouTube, considering stalls during playback. This indicator reflects the perceived quality by the user.

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 2% 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.

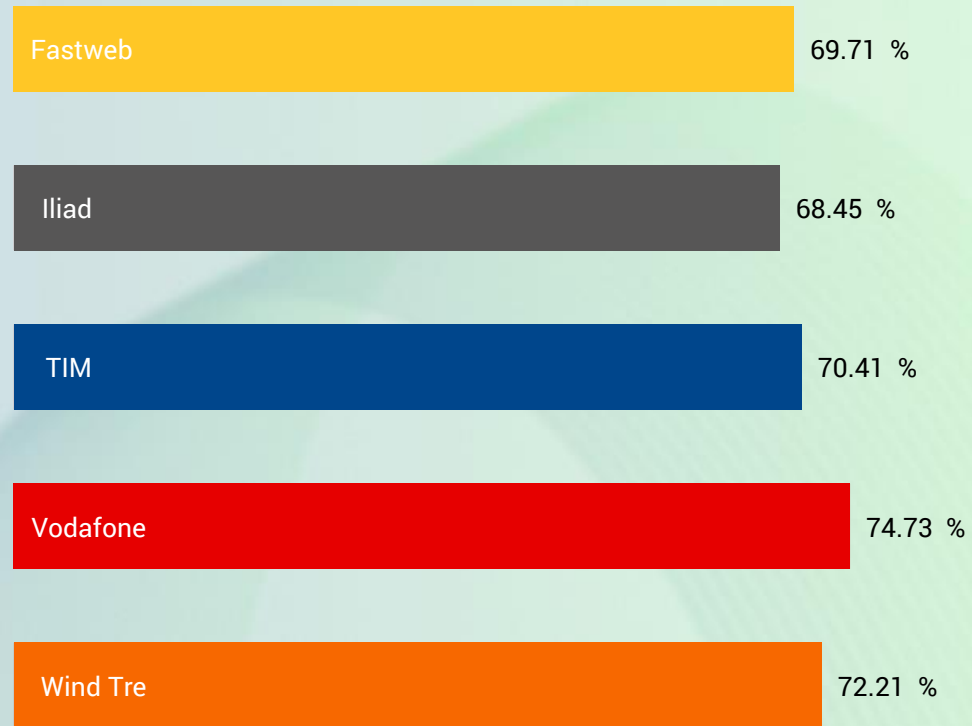
Overall distribution of the tests per provider (ISPs Share)



Source: nperf.com



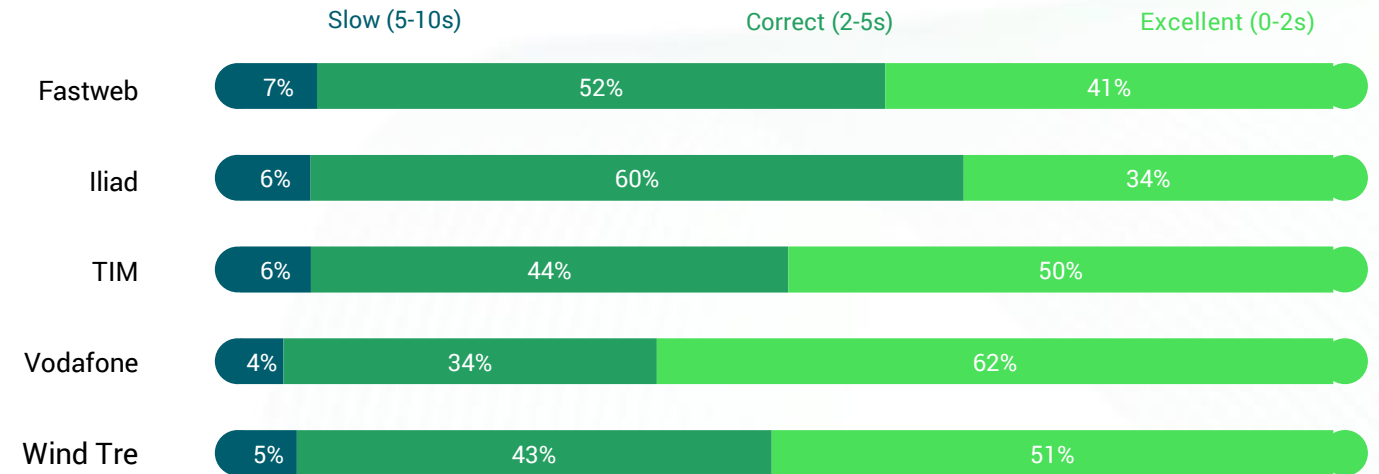
Browsing Performance rate (average)



Source : nperf.com

The subscribers of Vodafone enjoyed the best mobile Internet Internet browsing performance in 2024.

Browsing Performance results ventilation (average)



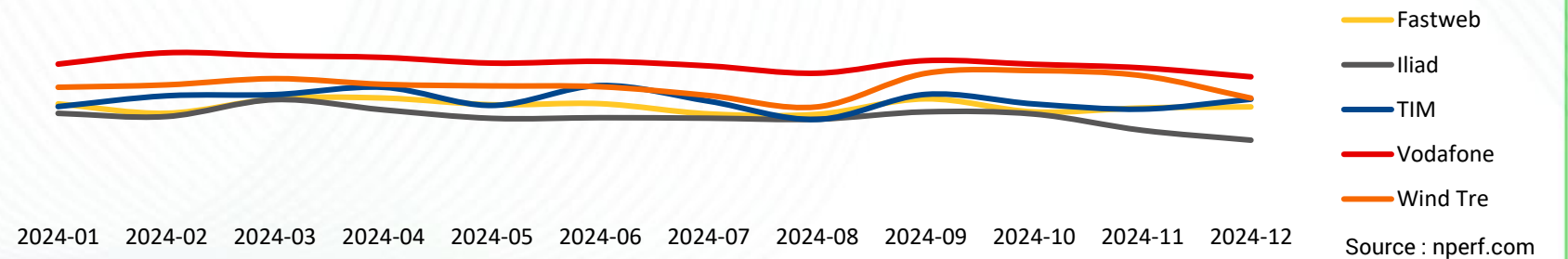
Source : nperf.com

Browsing Performance rate (average)



Source : nperf.com

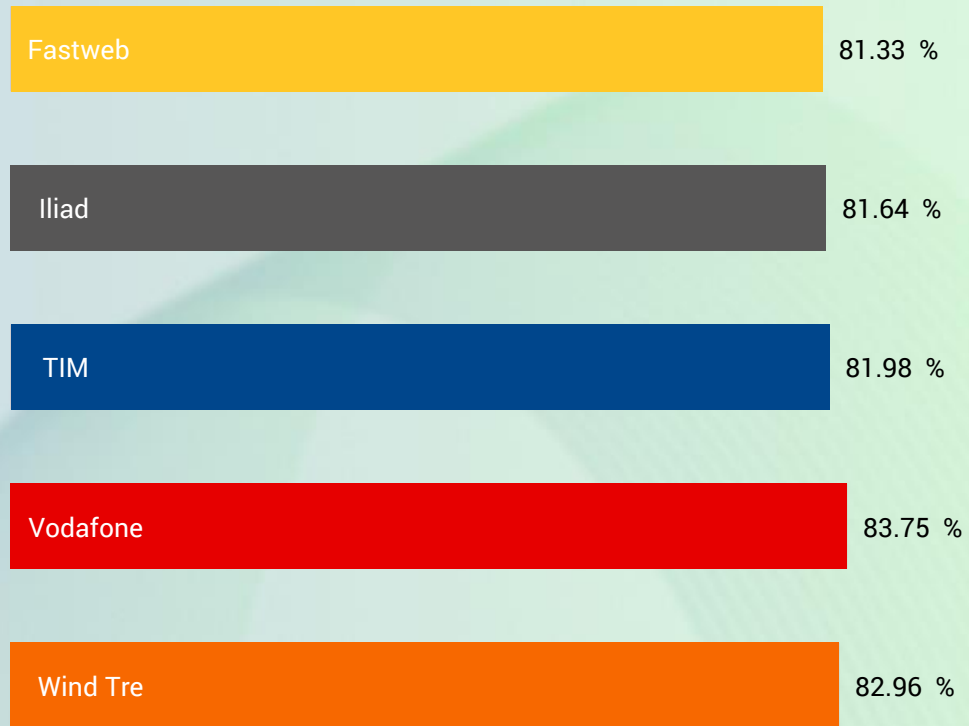
Browsing performance rate (average) evolution over the year



Source : nperf.com



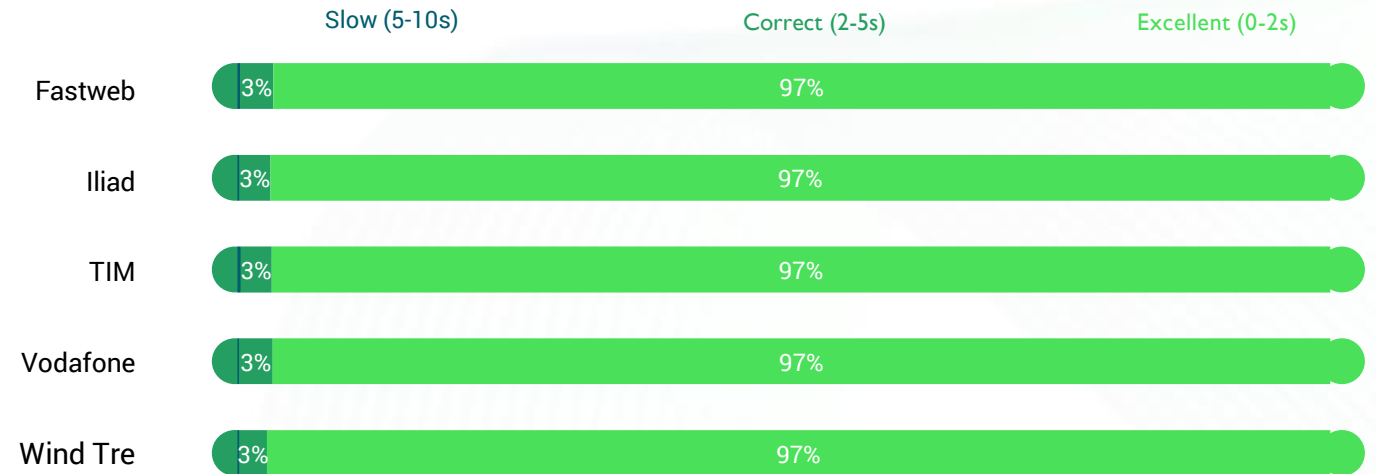
Streaming Performance rate (average)



Source : nperf.com

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

Streaming Performance results ventilation (average)



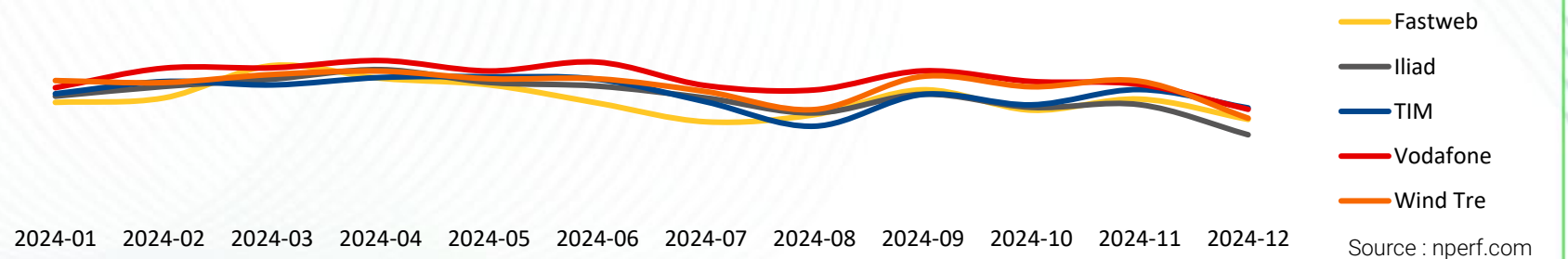
Source : nperf.com

Streaming Performance rate (average)



Source : nperf.com

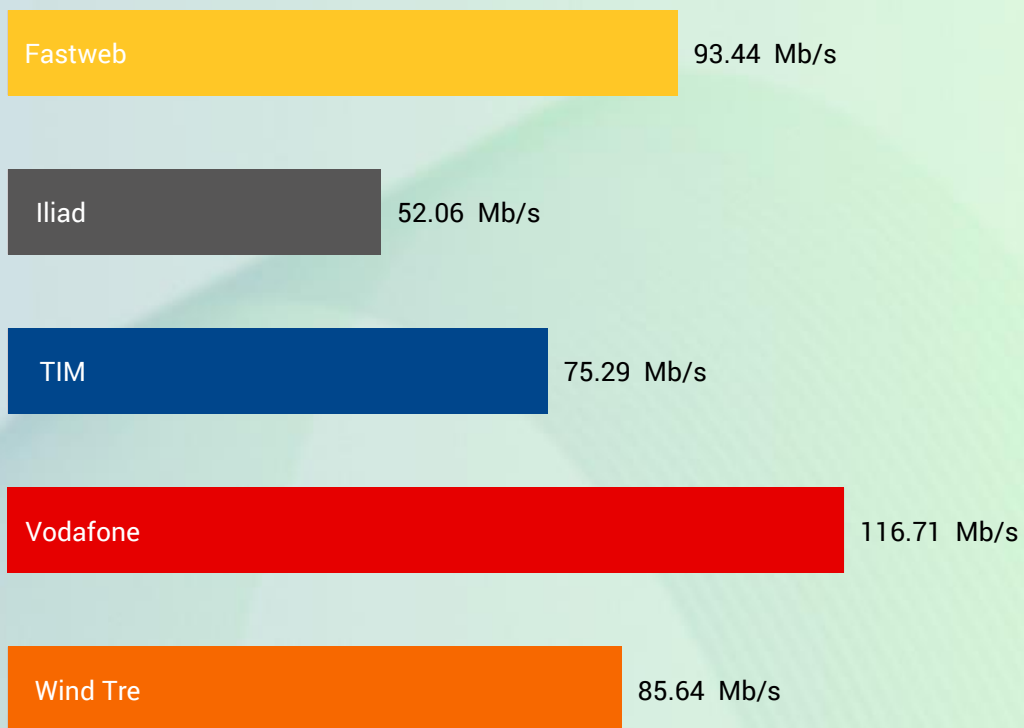
Streaming performance rate (average) evolution over the year



Source : nperf.com



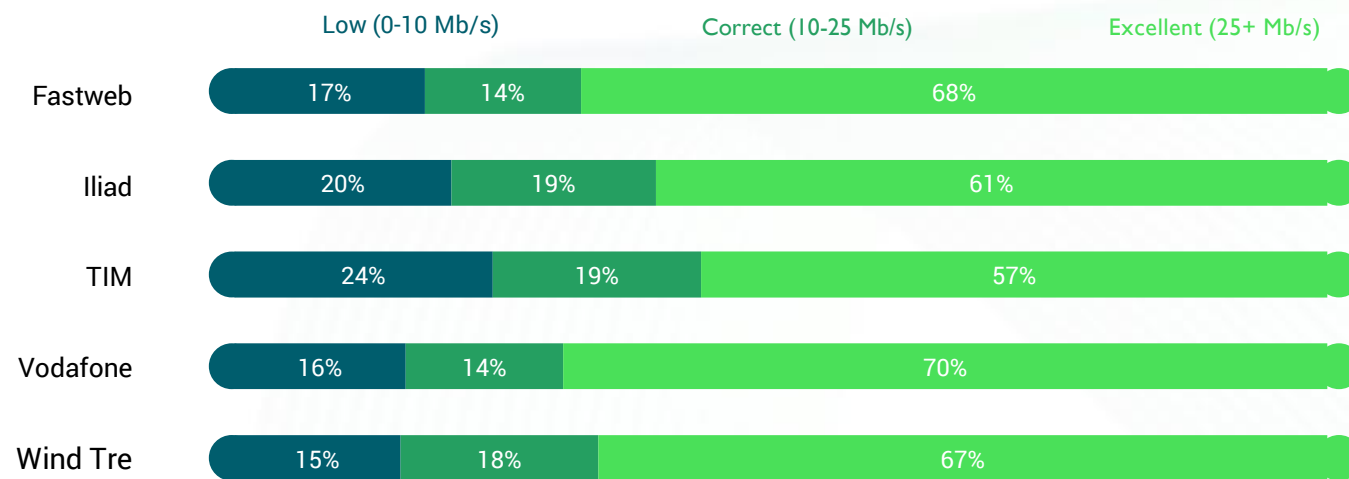
Download Speed (average)



Source : nperf.com

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

Download Speed results ventilation (average)



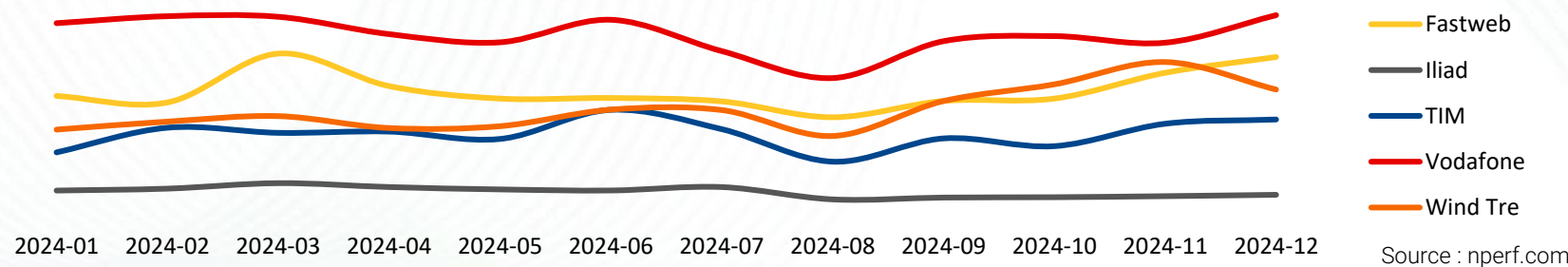
Source : nperf.com

Download Speed (average)



Source : nperf.com

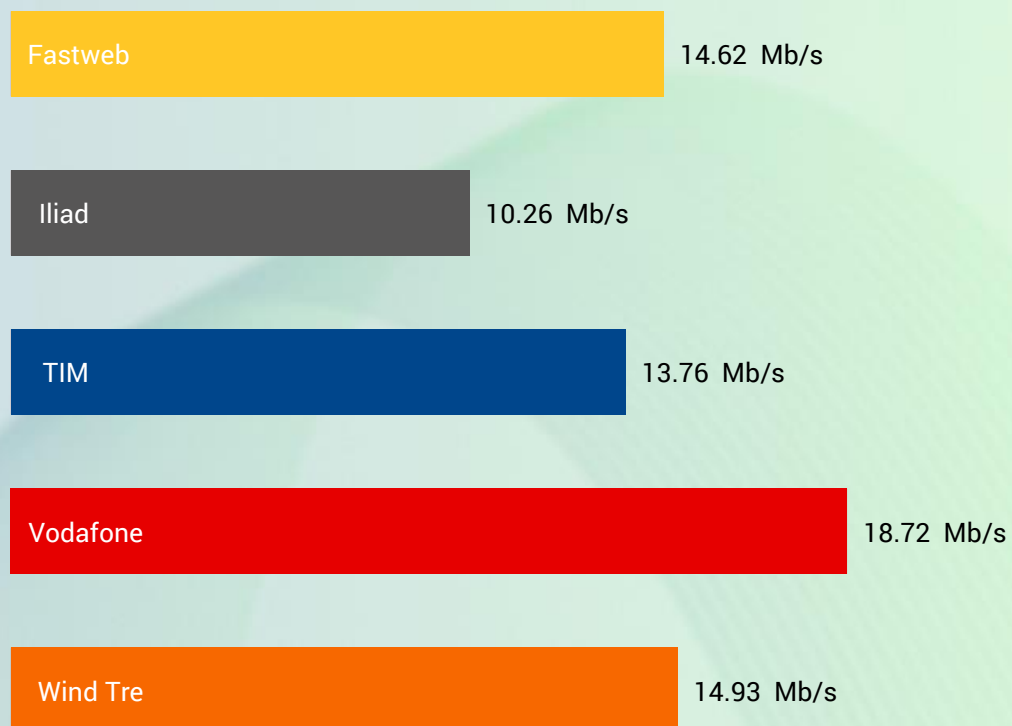
Download Speed evolution over the year (average)



Source : nperf.com



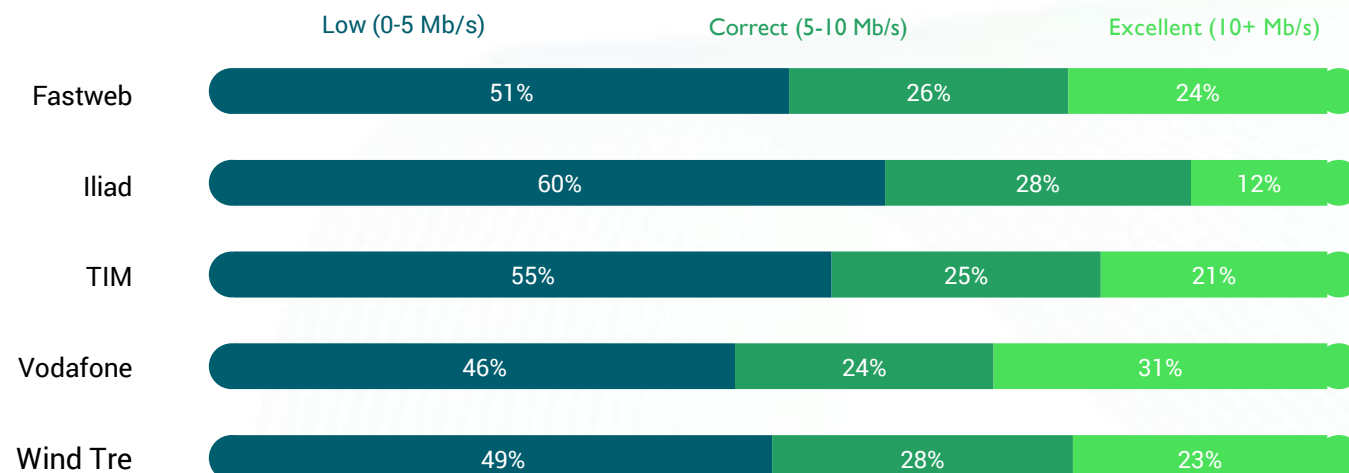
Upload Speed (average)



Source : nperf.com

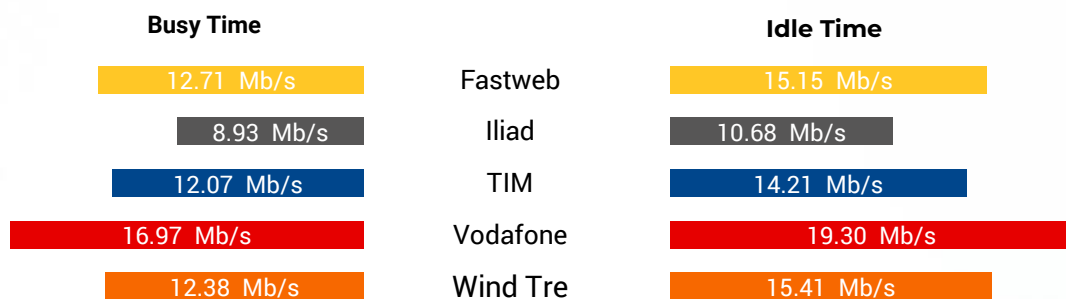
The subscribers of Vodafone enjoyed the best average mobile Internet upload speed in 2024.

Upload Speed results ventilation (average)



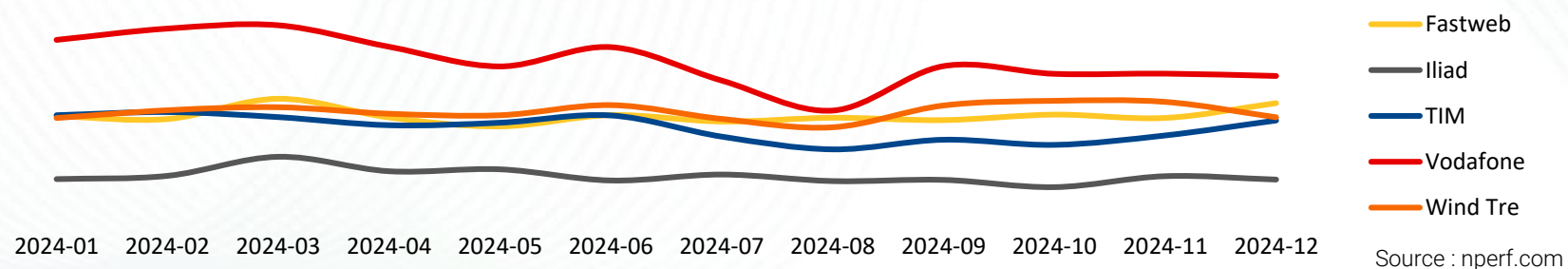
Source : nperf.com

Upload Speed (average)



Source : nperf.com

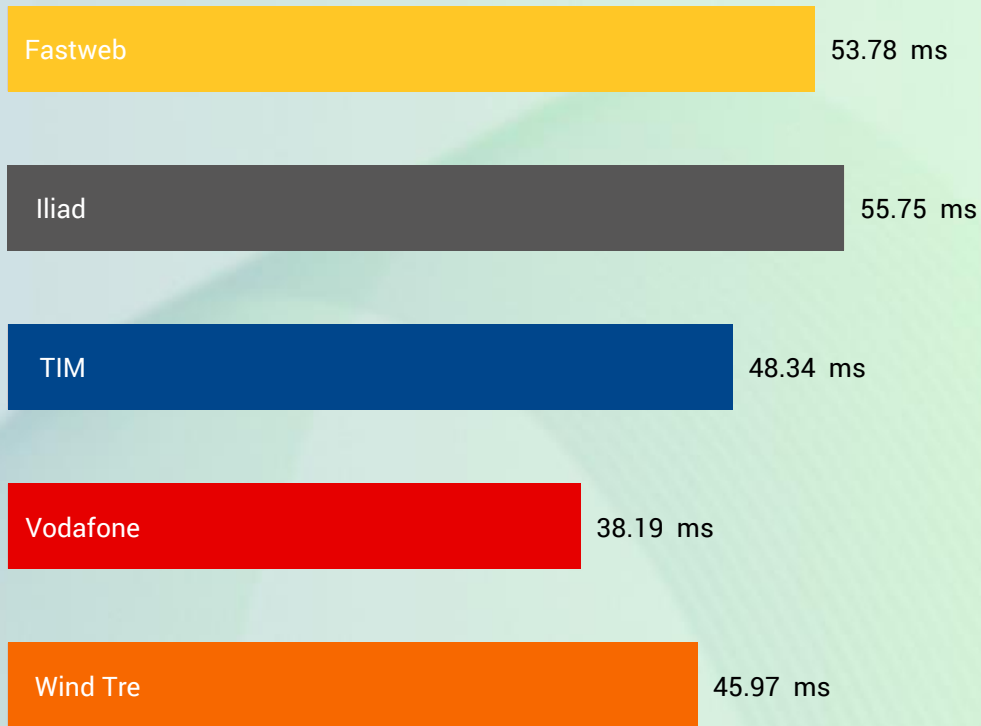
Upload Speed evolution over the year (average)



Source : nperf.com



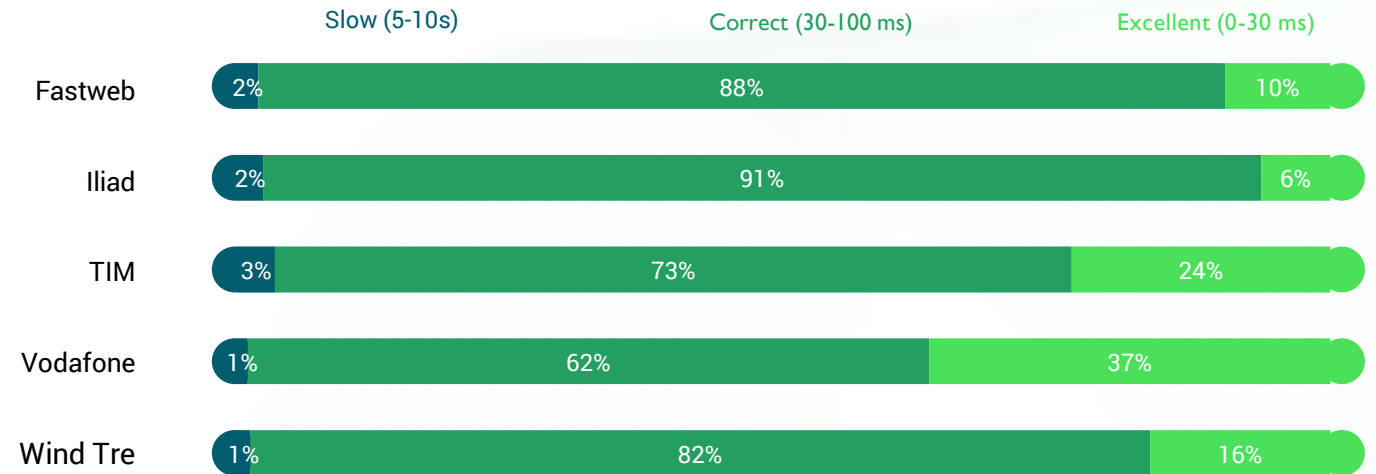
Latency Speed (average)



Source : nperf.com

The subscribers of Vodafone enjoyed the best average mobile Internet latency speed in 2024.

Latency Speed results ventilation (average)



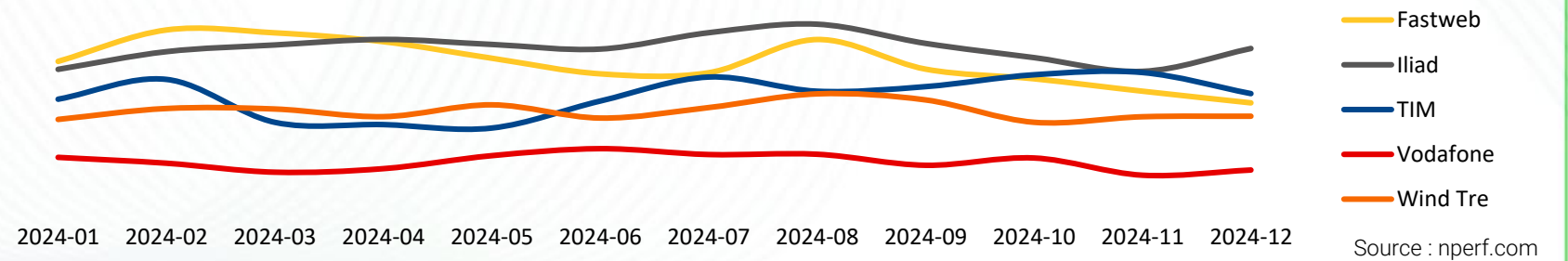
Source : nperf.com

Latency Speed (average)

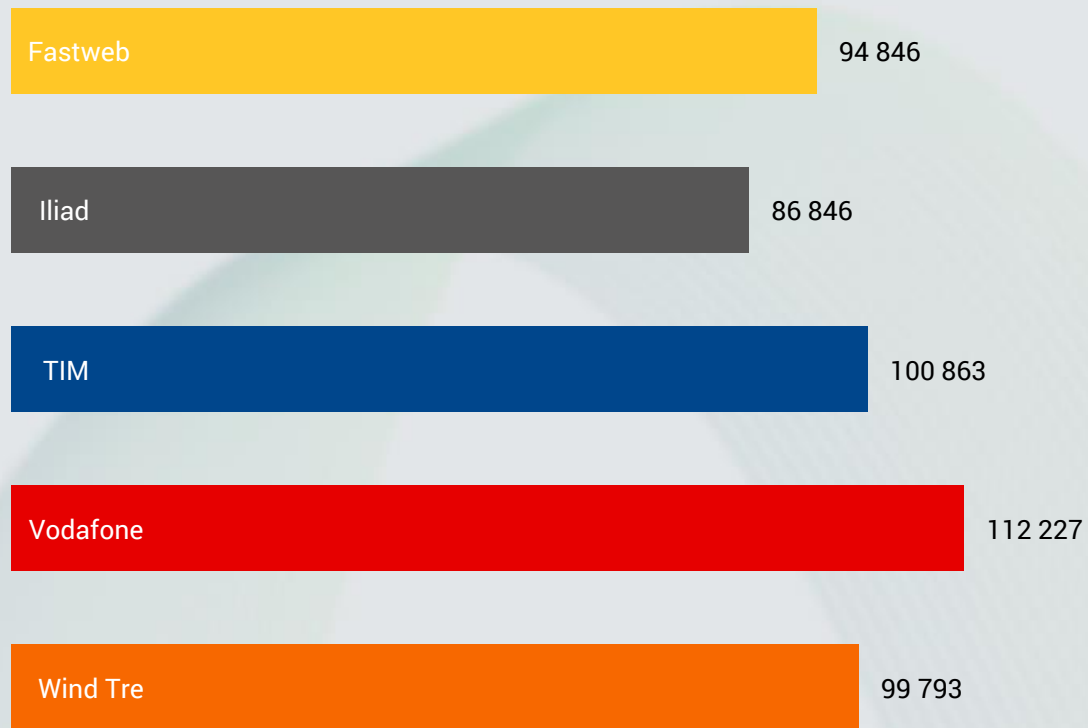


Source : nperf.com

Latency Speed evolution over the year (average)



nPerf Score (nPoints)

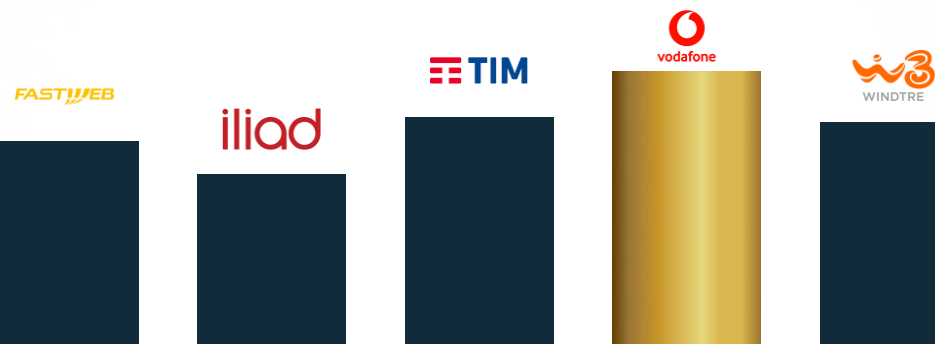


Source : nperf.com

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

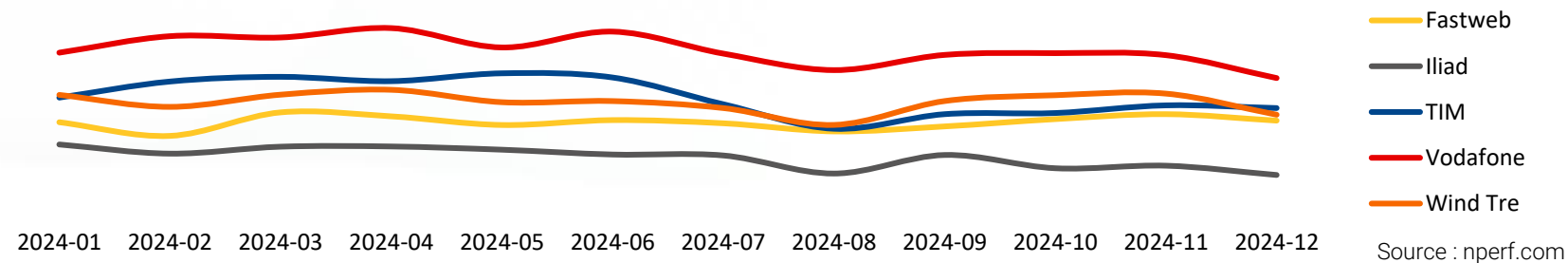
- Best performances 5G: Vodafone
- Best web browsing performances 5G: Vodafone
- Best video streaming performances 5G: Vodafone and Wind Tre
- Fastest performances (Download) 5G: Vodafone
- Fastest performances (Upload) 5G: Vodafone
- 5G connections with the lowest latency: Vodafone

Source : nperf.com



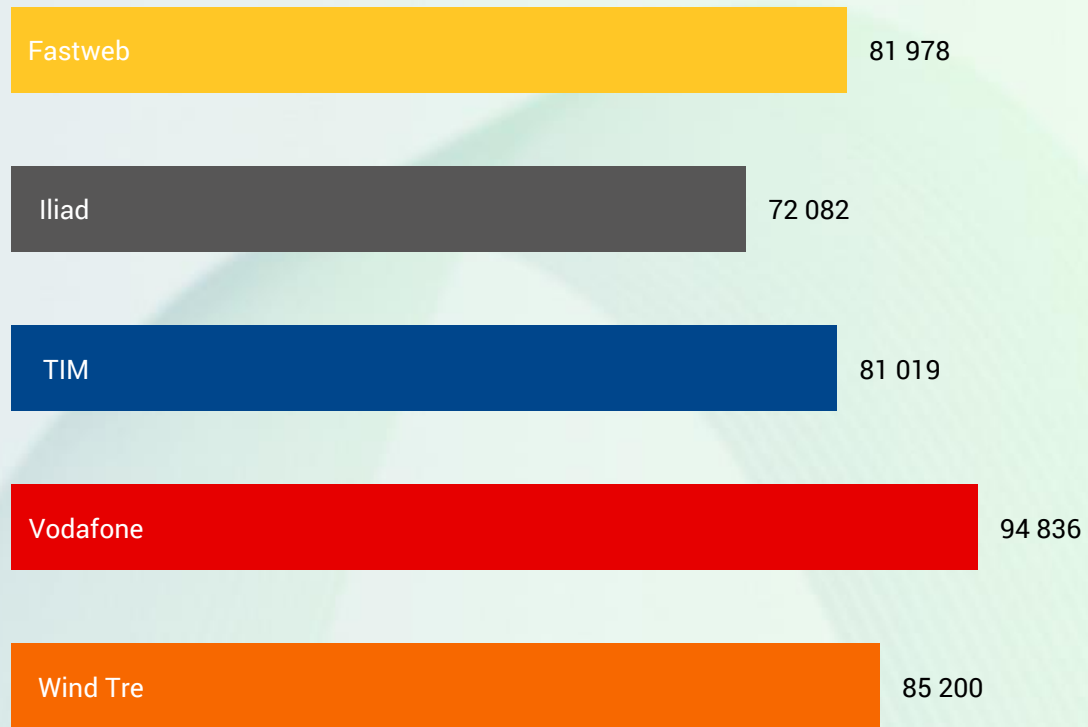
Source : nperf.com

nPerf score evolution over the year (average)



Source : nperf.com

nPerf Score (nPoints)



Source : nperf.com

The subscribers of Vodafone 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.

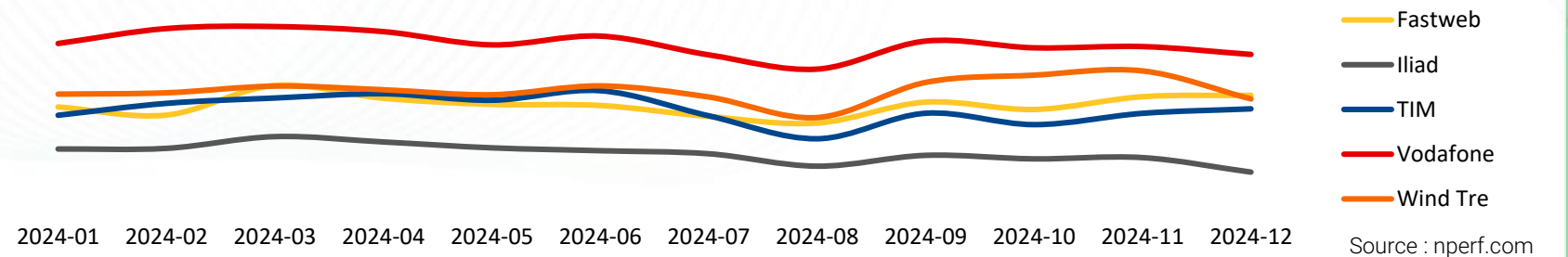
Source : nperf.com

Best mobile Internet performance in 2024



Source : nperf.com

nPerf score evolution over the year (average)



Source : nperf.com

The background features a series of thin, light-colored wavy lines that create a sense of motion and depth. These lines are layered and curve across the frame, set against a dark, muted blue background.

↳ perf