

30/01/2025

Barometer of mobile Internet connections in Romania

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.

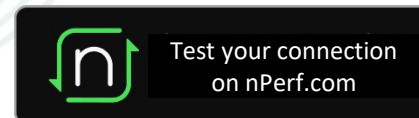
 **300k+** tests daily worldwide.

 **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 Orange enjoyed the best mobile Internet performances in 2024.

Mobile Internet connections in Romania

	Digi	Orange	Telekom	Vodafone
Download bitrates (Mb/s)	68,01	130,54	54,99	52,99
Upload bitrates (Mb/s)	21,56	26,75	18,57	16,70
Latency (ms)	40,39	31,89	41,46	38,95
Web browsing (%)	66,01	70,38	66,12	70,65
Youtube streaming (%)	83,37	82,19	73,41	80,53
nPerf Score (nPoints)	83 125	97 351	74 171	80 125

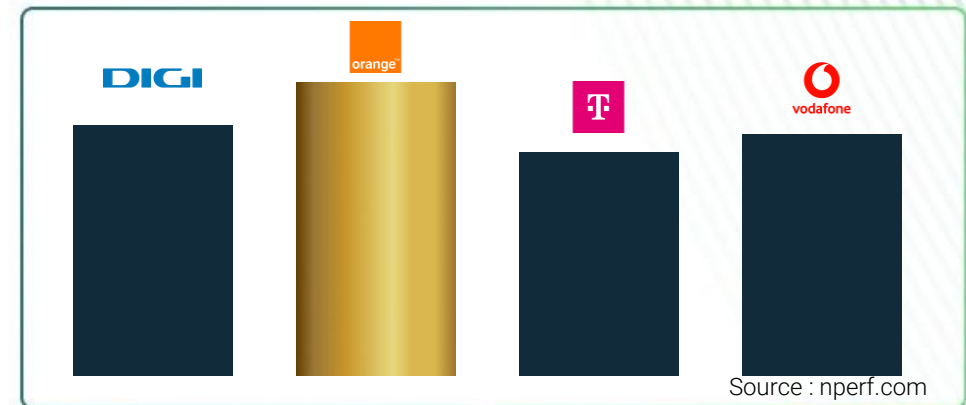
Source : nperf.com



Best mobile Internet performance in 2024




Source : nperf.com



Source : nperf.com

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

5G mobile Internet connections in Romania

	Digi	<u>Orange</u>	Telekom	Vodafone
▼ Download bitrates (Mb/s)	131,13	263,68	103,92	116,13
▲ Upload bitrates (Mb/s)	44,41	42,08	36,07	29,31
◀▶ Latency (ms)	34,26	27,85	38,24	38,21
🌐 Web browsing (%)	75,13	76,37	72,79	78,10
📺 Youtube streaming (%)	89,06	84,96	67,93	88,95
 nPerf Score (nPoints)	106 979	116 854	86 526	102 831

Source : nperf.com

Introduction

In 2024 the market analysis reveals a competitive landscape in the mobile technology sector in Romania. Orange continues to hold its position as the market leader, maintaining its status from the previous year. Notably, Orange has excelled in various key performance indicators (KPIs), including Download and Upload speed, and Latency. In terms of focus technologies, Orange leads in the 5G category, showcasing its strength in the latest mobile technology trends.

Orange: Market leader with exceptional performance.

For the analyzed period, Orange stands out as the market leader with an impressive global score of 97,351. The operator leads in the Download and Upload speed, and Latency categories, showcasing its superior network performance. Orange also excels in 5G, confirming its leadership. The operator's exceptional performance in browsing further emphasizes its strong market position.

Digi: Strong Performance in Streaming.

Digi showcases strong performance in the video streaming category, achieving a noteworthy score of 83,125. The operator's commitment to delivering quality streaming services is evident in its performance, reinforcing its competitive stance in the market.

Vodafone: Excellence en web Browsing.

Vodafone shows its prowess in the web browsing category, achieving a strong

position with a score of 80,125. Vodafone's focus on web browsing area underscores its dedication to meeting consumer demands for seamless browsing experiences.

Telekom: Room for improvement

Telekom has a potential for improvement. With a global score of 74,171, Telekom demonstrates significant strengths but is still far from its competitor across most KPIs.

Conclusion

Orange continues to dominate the market as the clear leader across multiple KPIs, particularly in Download and Upload speed, and Latency. The company's leadership in the 5G focus area further strengthens its market position. Other operators, such as Telekom and Vodafone, exhibit excellence in specific categories like browsing and video streaming, contributing to the dynamic and competitive nature of the market. The Romanian mobile technology market remains vibrant, with operators continuously striving to enhance their offerings and cater to evolving consumer needs.

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

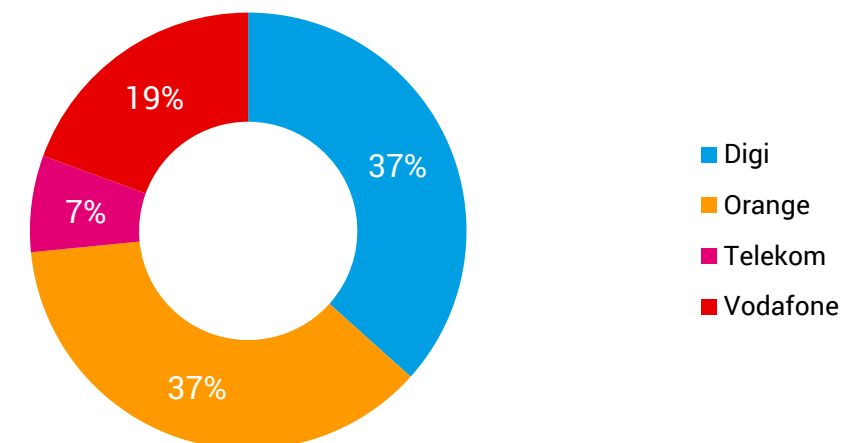
The video streaming test gauges the load time of a fully loaded video in three resolutions on YouTube, considering stalls during playback. This indicator reflects the perceived quality by the user.

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 3% 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.

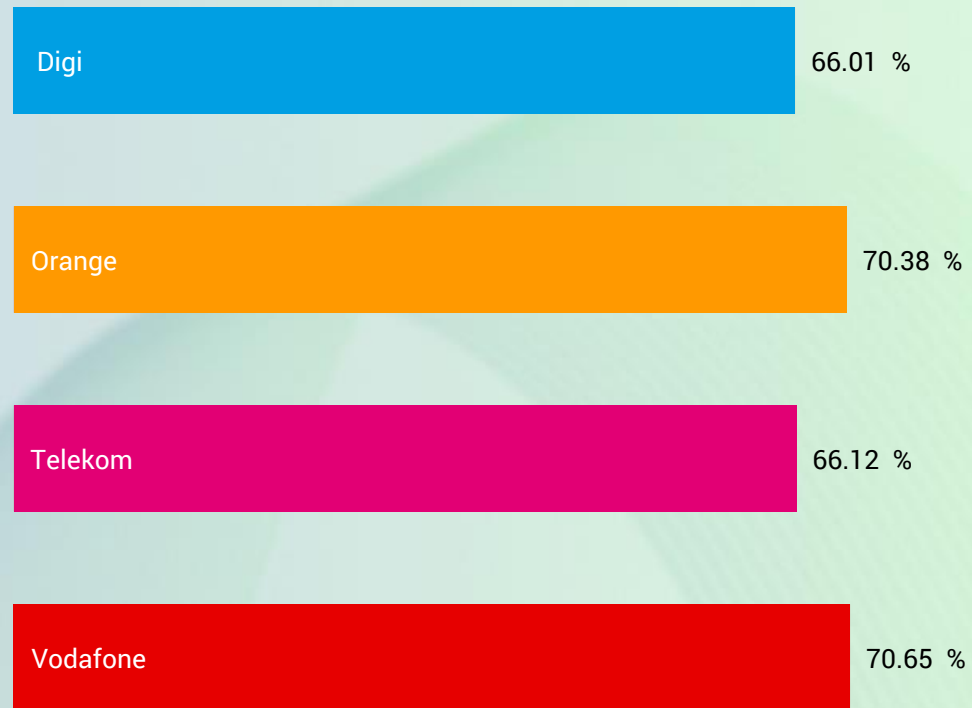
Overall distribution of the tests per provider (ISPs Share)



Source : nperf.com



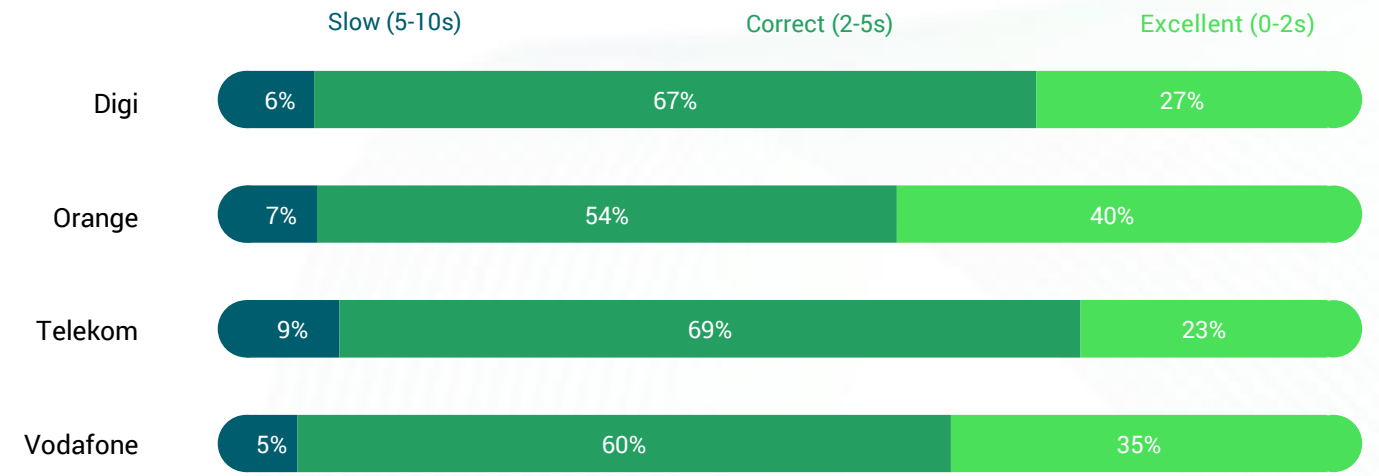
Browsing Performance rate (average)



Source : nperf.com

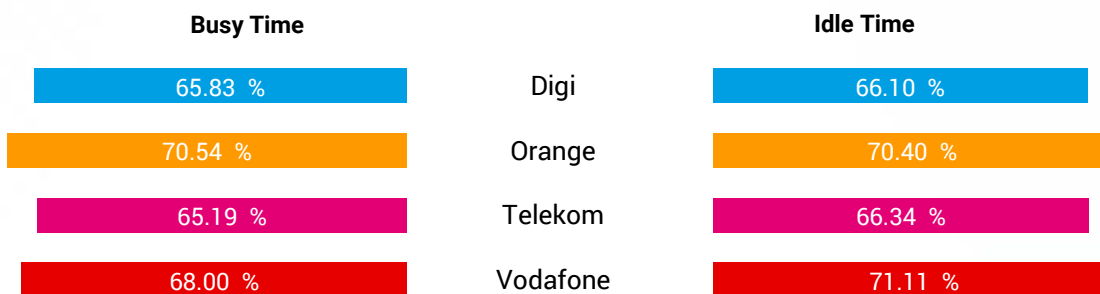
The subscribers of Orange and Vodafone enjoyed the best mobile Internet Internet browsing performance in 2024.

Browsing Performance results ventilation (average)



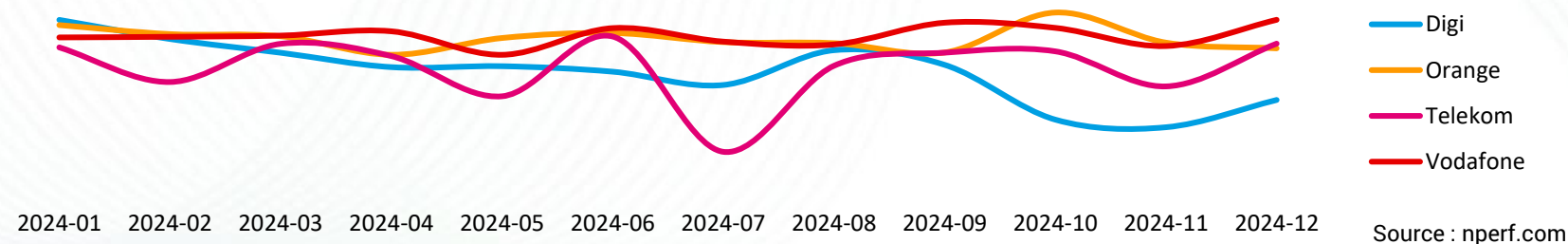
Source : nperf.com

Browsing Performance rate (average)



Source : nperf.com

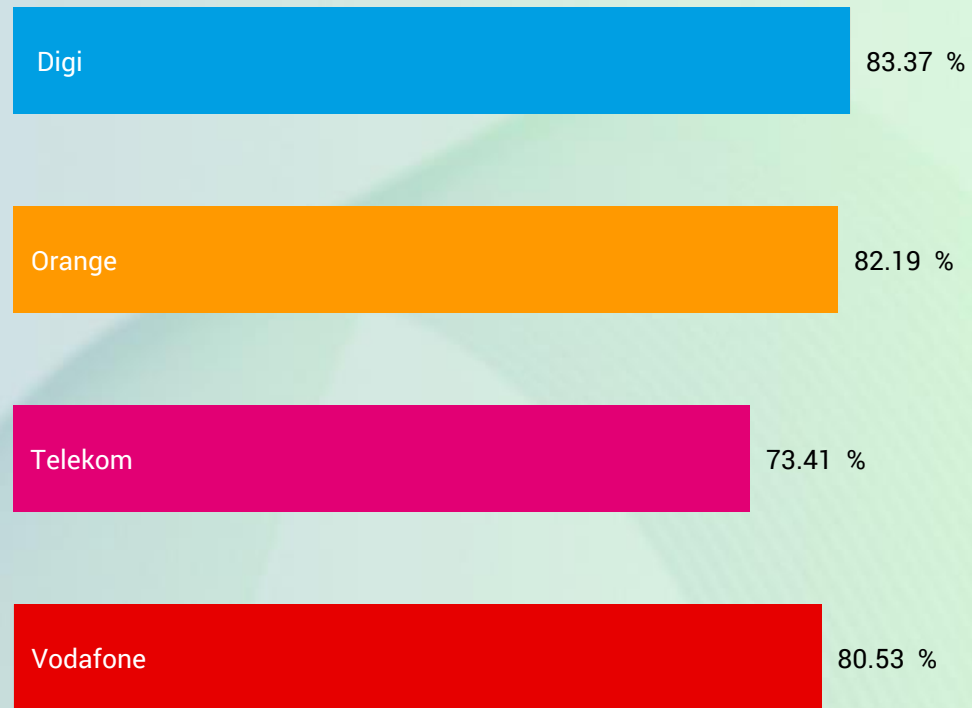
Browsing performance rate (average) evolution over the year



Source : nperf.com



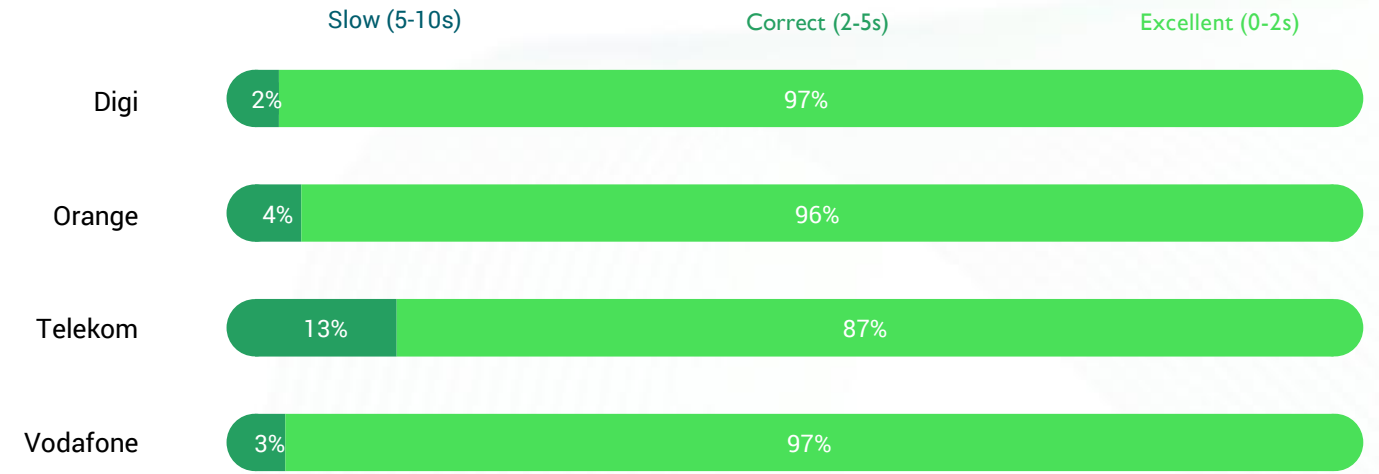
Streaming Performance rate (average)



Source : nperf.com

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

Streaming Performance results ventilation (average)



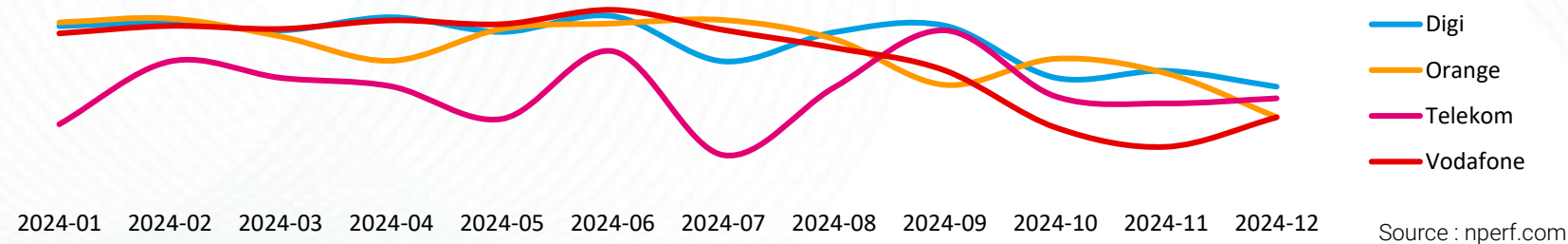
Source : nperf.com

Streaming Performance rate (average)



Source : nperf.com

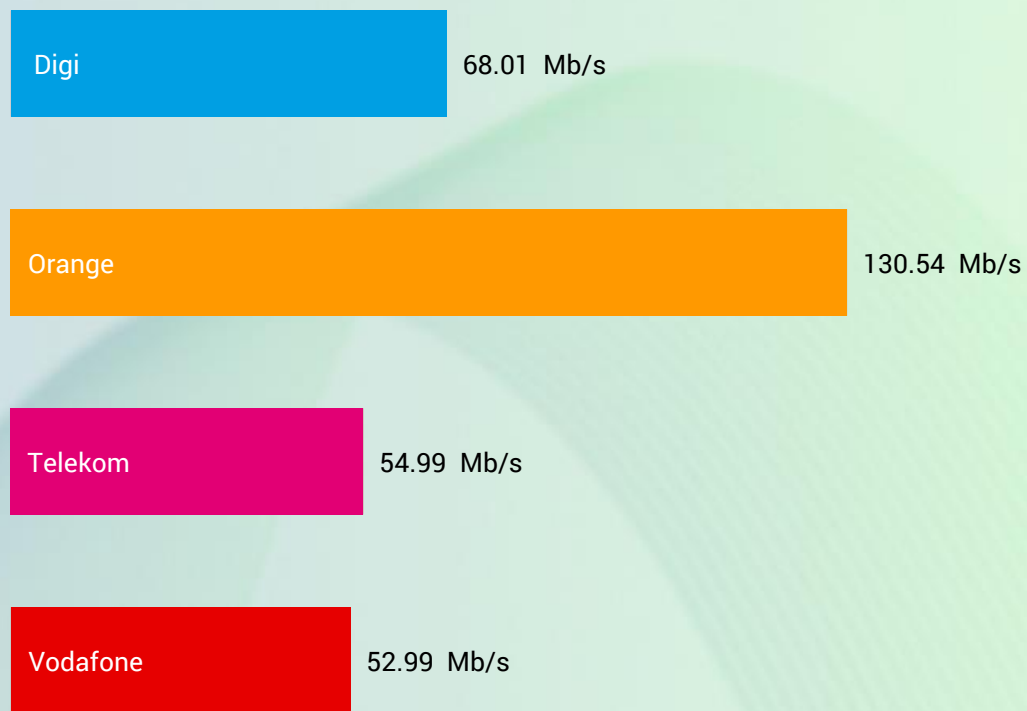
Streaming performance rate (average) evolution over the year



Source : nperf.com



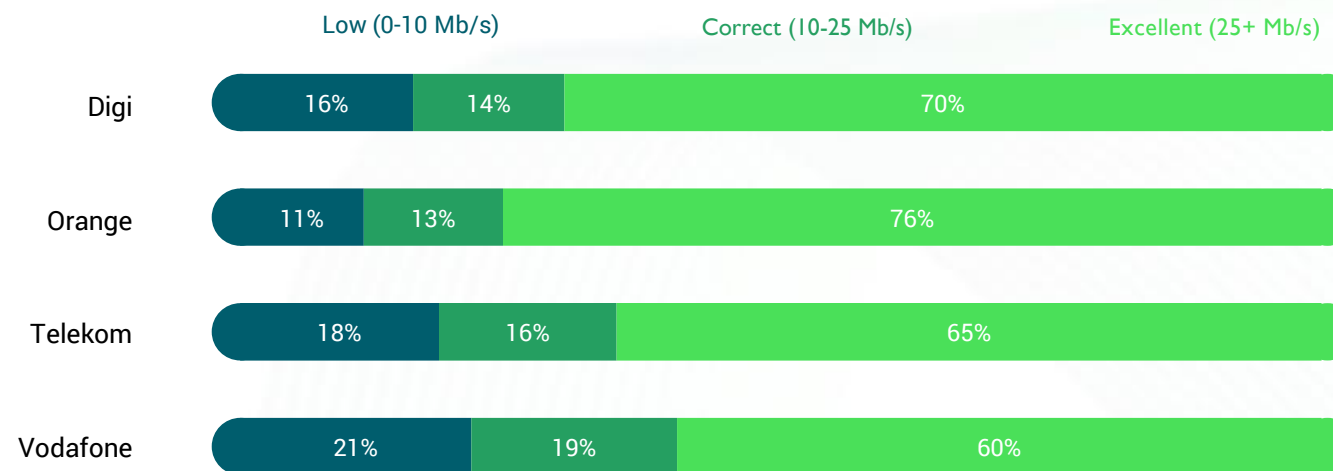
Download Speed (average)



Source : nperf.com

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

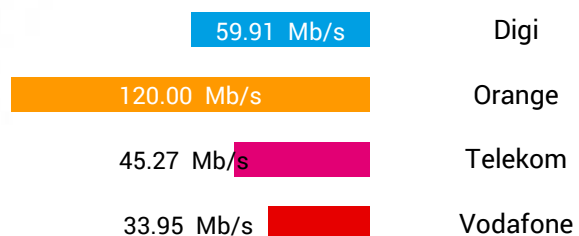
Download Speed results ventilation (average)



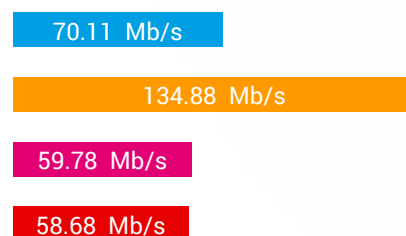
Source : nperf.com

Download Speed (average)

Busy Time

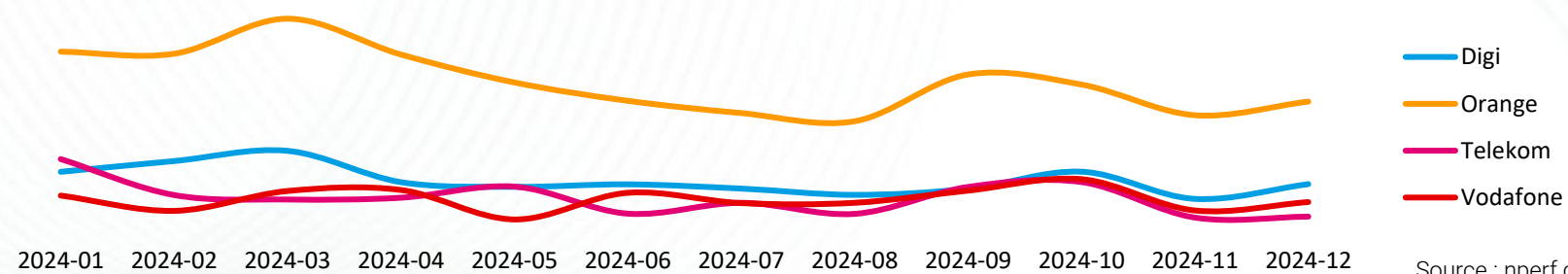


Idle Time



Source : nperf.com

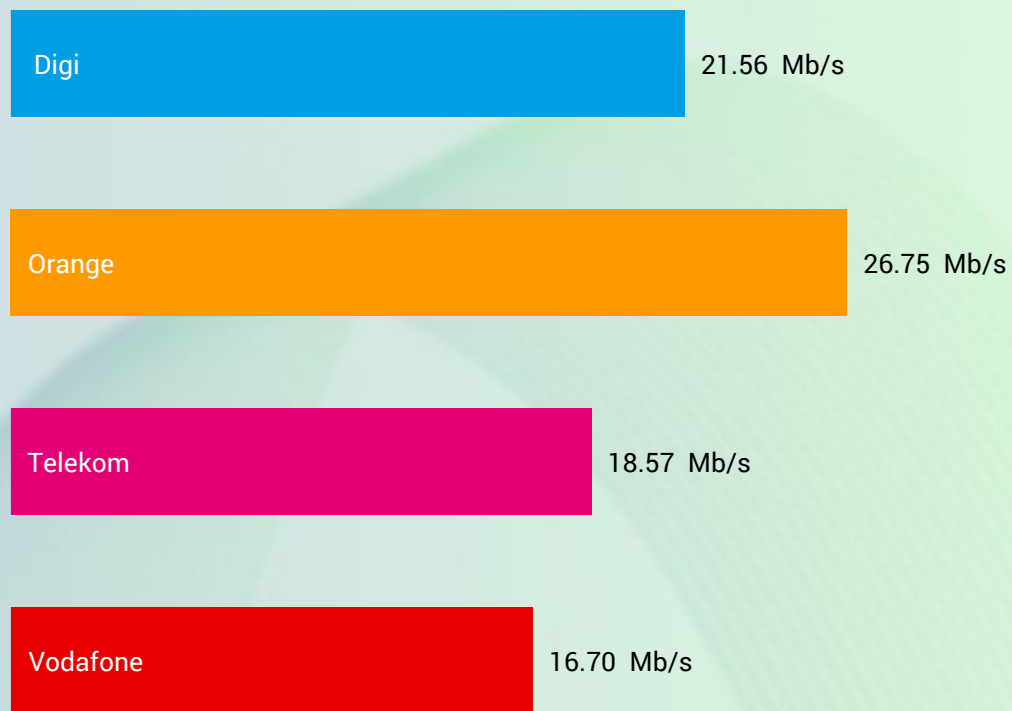
Download Speed evolution over the year (average)



Source : nperf.com



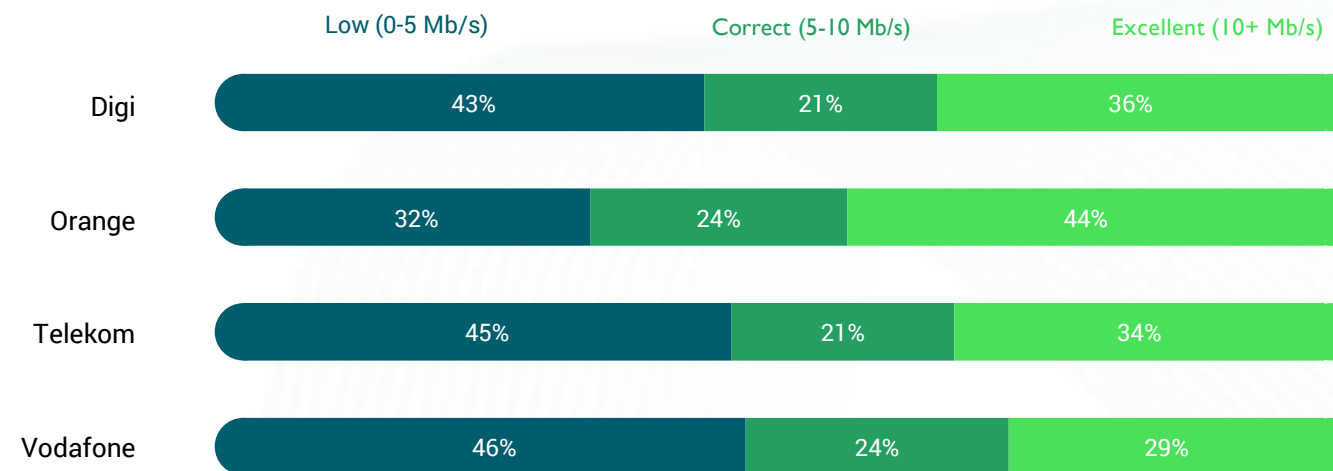
Upload Speed (average)



Source : nperf.com

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

Upload Speed results ventilation (average)



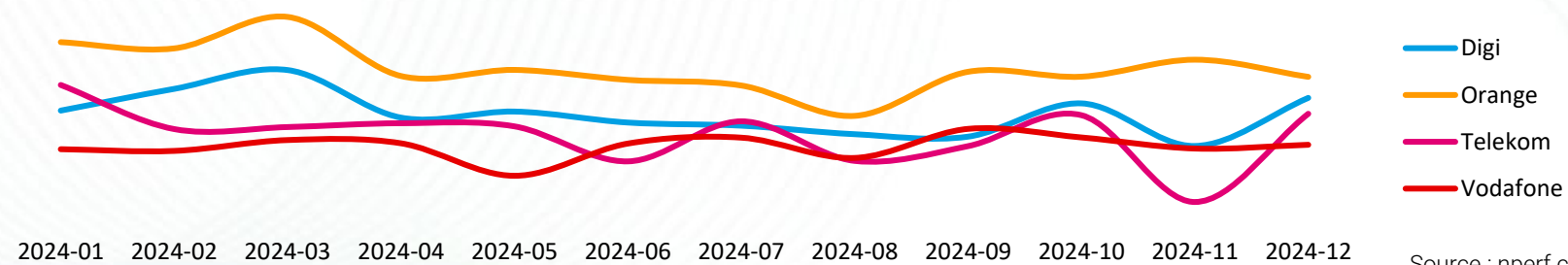
Source : nperf.com

Upload Speed (average)



Source : nperf.com

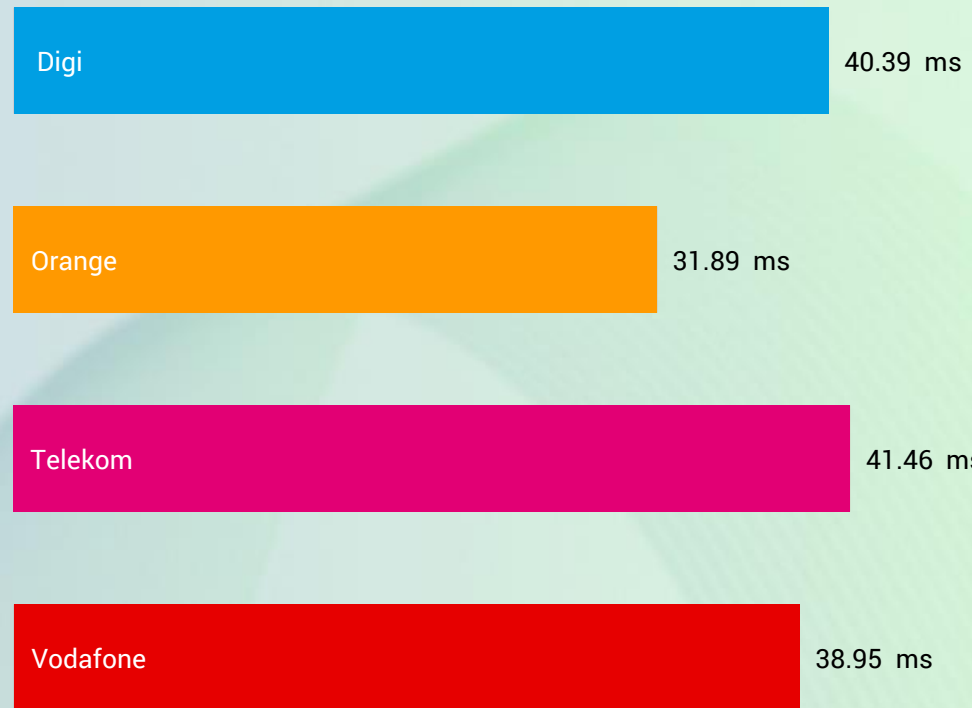
Upload Speed evolution over the year (average)



Source : nperf.com



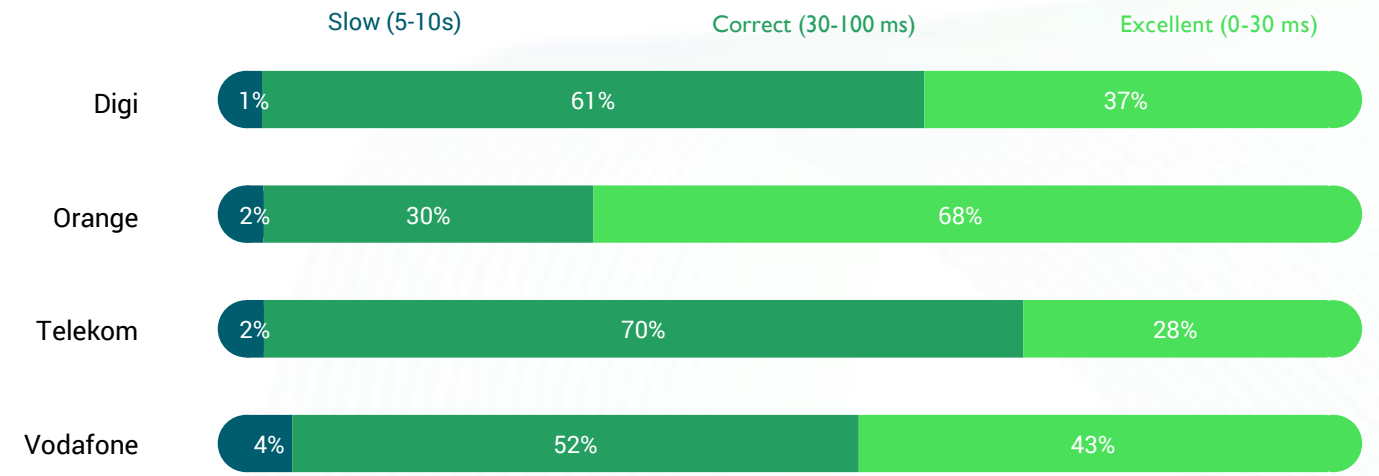
Latency Speed (average)



Source : nperf.com

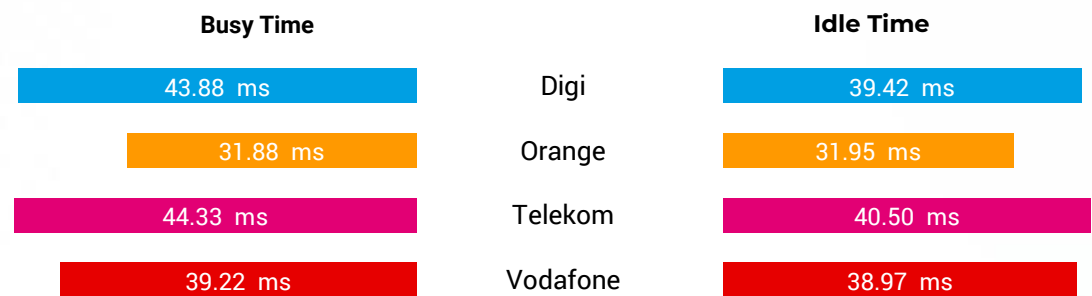
The subscribers of Orange enjoyed the best average mobile Internet latency speed in 2024.

Latency Speed results ventilation (average)



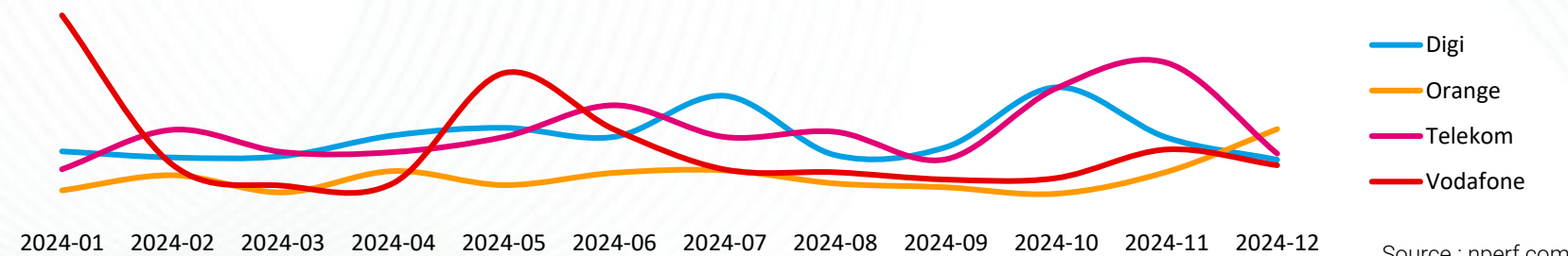
Source : nperf.com

Latency Speed (average)



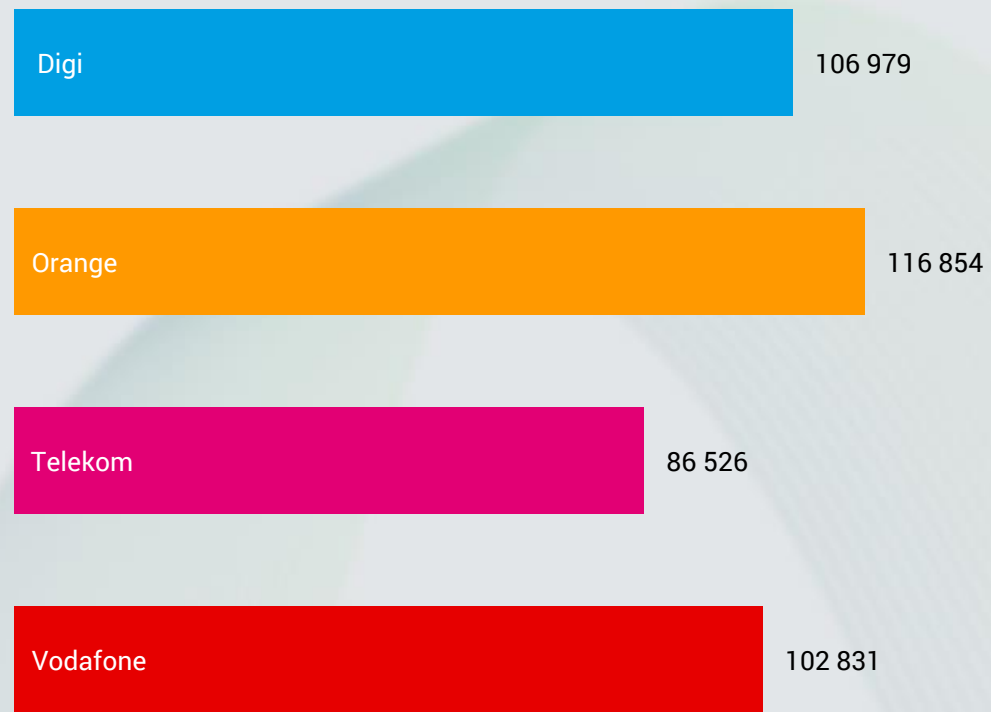
Source : nperf.com

Latency Speed evolution over the year (average)



Source : nperf.com

nPerf Score (nPoints)



Source : nperf.com

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

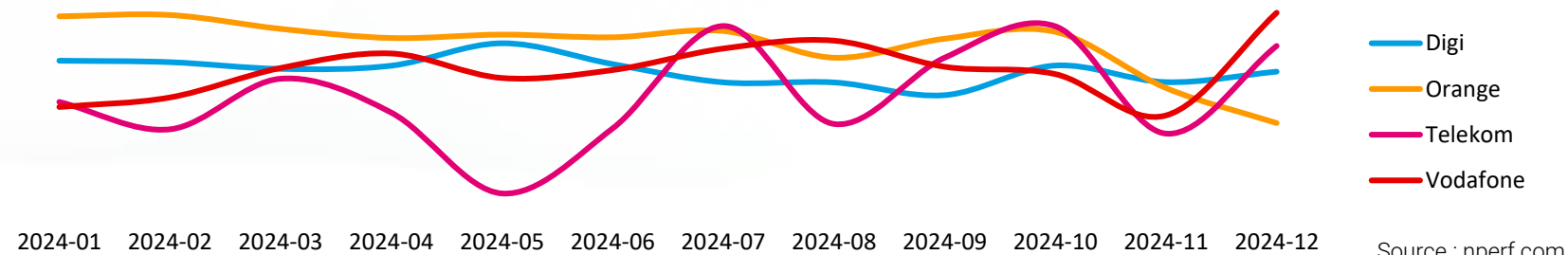
- Best performances 5G: Orange
- Best web browsing performances 5G: Vodafone
- Best video streaming performances 5G: Digi and Vodafone
- Fastest performances (Download) 5G: Orange
- Fastest performances (Upload) 5G: Digi
- 5G connections with the lowest latency: Orange

Source : nperf.com



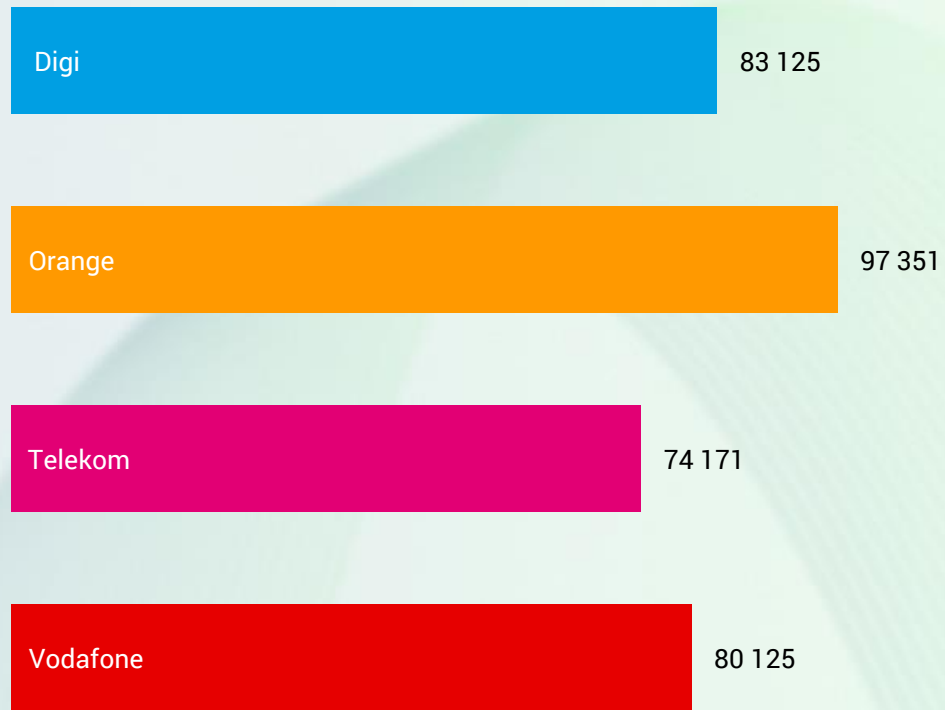
Source : nperf.com

nPerf score evolution over the year (average)



Source : nperf.com

nPerf Score (nPoints)



Source : nperf.com

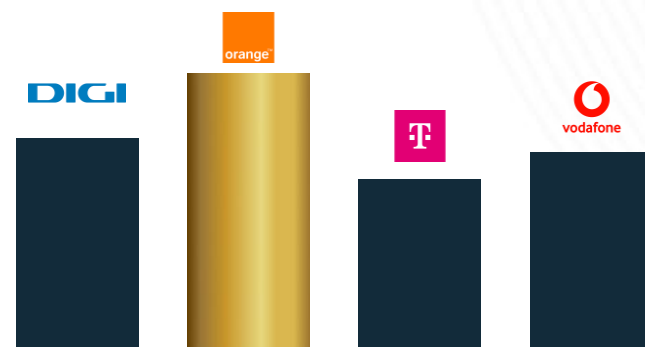
The subscribers of Orange enjoyed the best mobile Internet performances in 2024.

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.

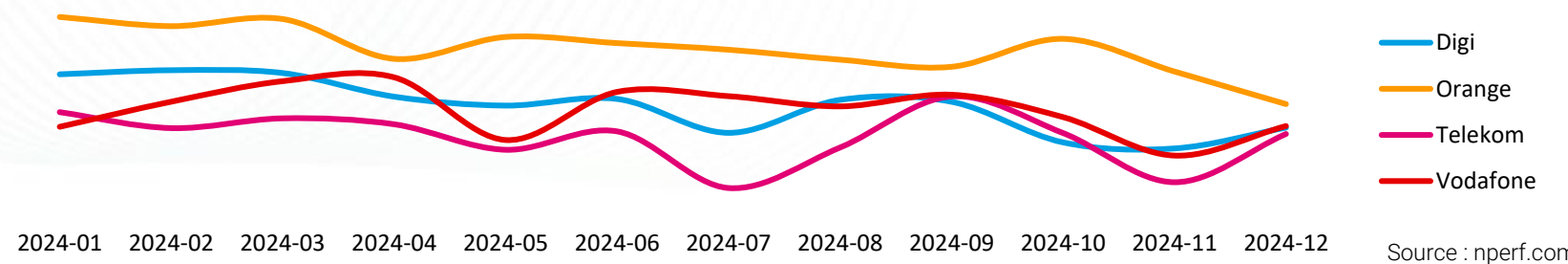
Source : nperf.com

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, set against a dark blue background.

nperf