

01/24/2025

# Barometer of mobile Internet connections in Spain

01/01/2024 - 12/31/2024



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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.



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worldwide.



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



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## 2. Executive Summary



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

Mobile Internet connections in Spain

	Digi	MasMovil/Yoigo	Movistar	Orange	Vodafone
▼ Download bitrates (Mb/s)	93,71	52,88	132,84	85,27	58,48
▲ Upload bitrates (Mb/s)	17,15	11,39	19,79	14,73	16,20
◀▶ Latency (ms)	48,34	49,49	44,09	41,22	40,17
🌐 Web browsing (%)	68,11	67,30	68,91	67,24	68,36
📺 Youtube streaming (%)	81,23	79,30	82,76	80,23	81,58
📊 nPerf Score (nPoints)	83 262	72 508	90 722	82 219	80 044

Source : nperf.com



Best mobile Internet performance in 2024



Source : nperf.com

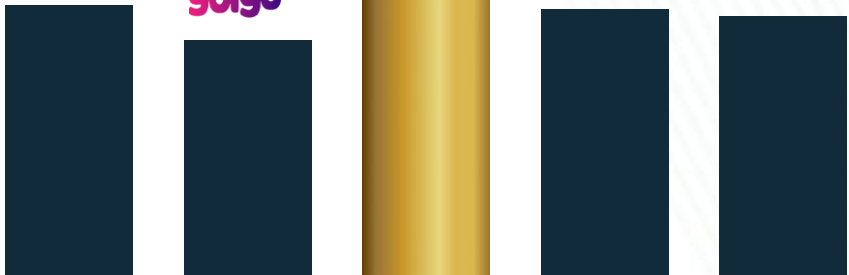
DIGI

Yoigo

Movistar

orange

vodafone



Source : nperf.com

The subscribers of Digi and Movistar enjoyed the best 5G Internet performances in Spain in 2024.

5G mobile Internet connections in Spain

	Digi	MasMovil/Yoi go	Movistar	Orange	Vodafone
▼ Download bitrates (Mb/s)	236,06	100,53	229,58	161,75	113,05
▲ Upload bitrates (Mb/s)	31,09	17,85	28,01	22,72	24,52
◀▶ Latency (ms)	43,35	44,81	39,14	35,76	34,98
🌐 Web browsing (%)	73,59	72,08	73,33	72,40	73,26
🎬 Youtube streaming (%)	84,10	80,24	84,50	80,99	83,52
📶 nPerf Score (nPoints)	104 481	86 945	104 997	97 817	96 353

Source : nperf.com



### Introduction

In 2024, the mobile sector in Spain has witnessed significant developments, particularly in the 5G sector. Movistar has maintained its position as the leader, with no new leaders emerging in 2024. The global winner for this period continues to be Movistar, which has showcased dominance across various KPIs and focus areas. The sector has seen positive trends, particularly with improvements in 5G technology and an increase in the overall nPerf Score for the country.

#### **Movistar: Leader with exceptional performance.**

Movistar continues to lead with a strong global score in 2024. The operator excels in download speed and video streaming, alongside demonstrating strength in the 5G focus area. Movistar also maintains a competitive edge in browsing, ensuring seamless internet experiences for its users.

#### **Vodafone: Excellence in latency.**

Vodafone distinguishes itself with the lowest latency, making it a preferred choice for activities requiring quick response times. It shares the spotlight in browsing performance, showcasing its competence in providing reliable internet services.

#### **Digi: Significant improvement in score.**

Digi has shown notable progress with a 19.3% improvement in its overall score, reflecting its commitment to enhancing service quality. The operator also competes closely in the 5G focus, demonstrating its growing influence.

#### **Orange: Competitive in browsing and streaming.**

Orange remains competitive in browsing and video streaming, ensuring quality internet experiences for its customers. The operator continues to provide strong services, contributing positively to the sector's competitive landscape.

#### **MasMovil/Yoigo: low performance.**

MasMovil/Yoigo offers low performance in download speed and upload speed comparing with competitors. the operator does not provide the same level of service as its competitors

### Conclusion

Movistar retains its position as the leader, showcasing strength across multiple KPIs and focus areas. Vodafone and Digi also contribute significantly to the sector dynamics with their respective strengths. The overall competitiveness and technological advancements in the sector paint a positive outlook for the future, emphasizing the operators' dedication to delivering superior mobile internet performance in Spain.

## 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

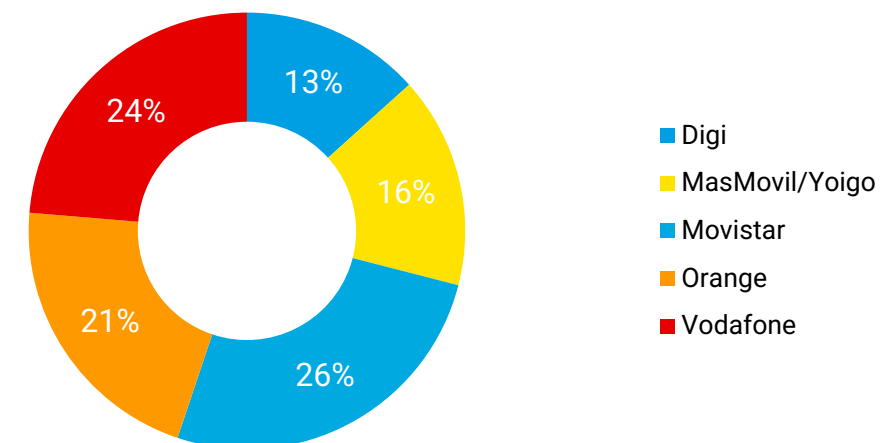
The video streaming test gauges the load time of a fully loaded video in three resolutions on YouTube, considering stalls during playback. This indicator reflects the perceived quality by the user.

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



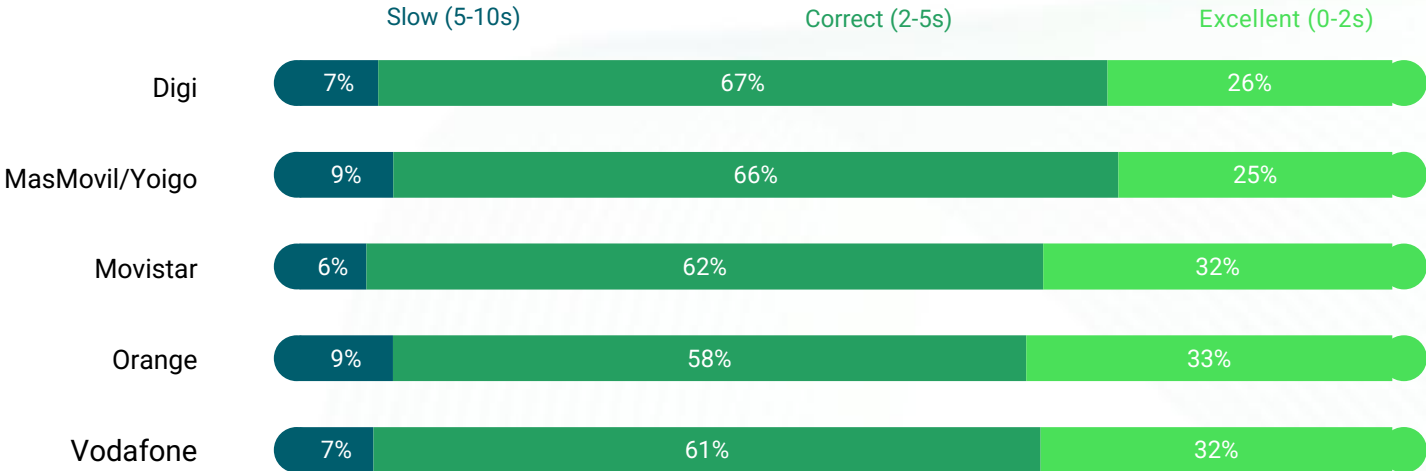
Browsing Performance rate (average)



Source : nperf.com

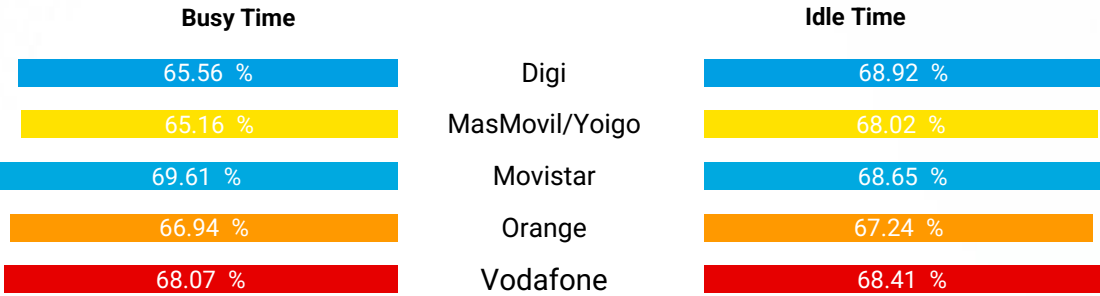
The subscribers of Movistar enjoyed the best mobile Internet Internet browsing performance in 2024.

Browsing Performance results ventilation (average)



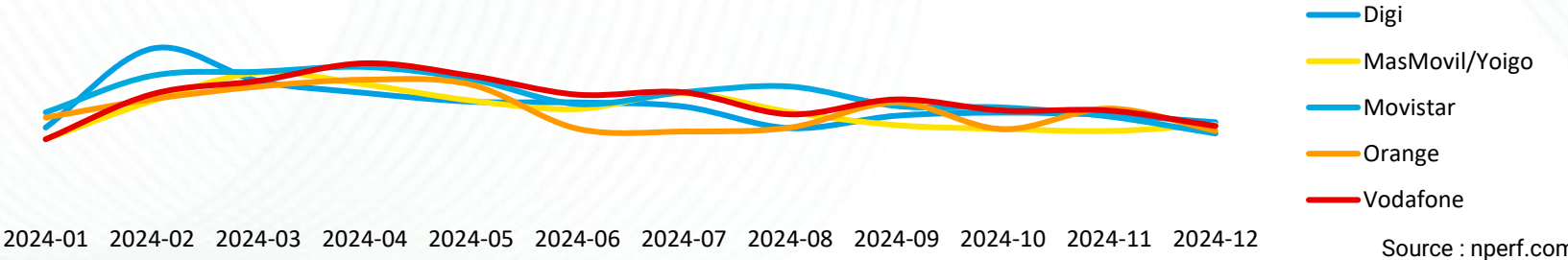
Source : nperf.com

Browsing Performance rate (average)



Source : nperf.com

Browsing performance rate (average) evolution over the year







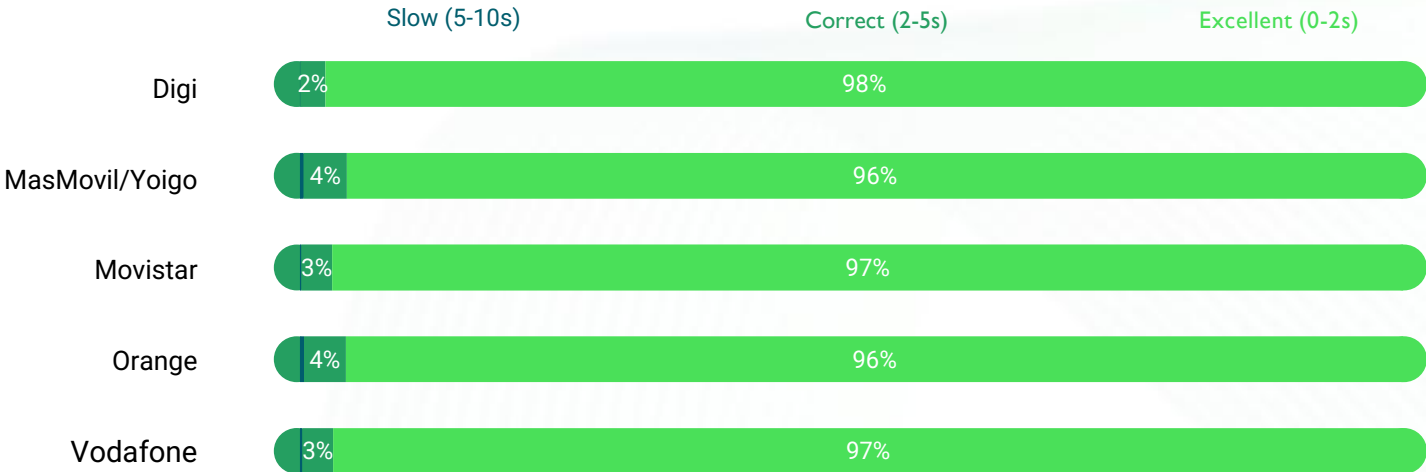
Streaming Performance rate (average)



Source : nperf.com

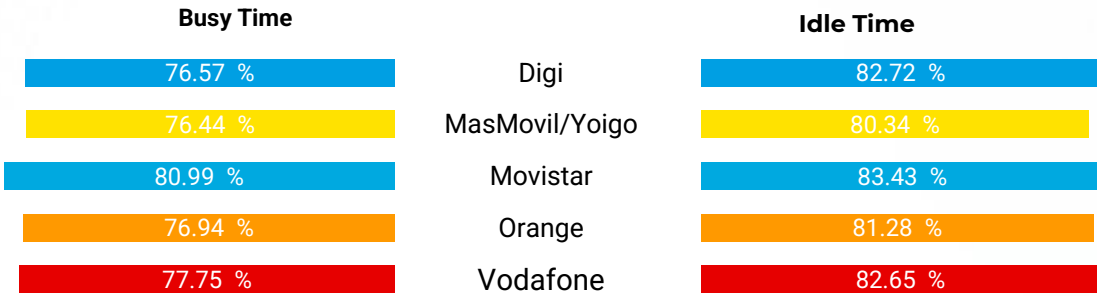
The subscribers of Movistar enjoyed the best mobile Internet streaming performance in 2024.

Streaming Performance results ventilation (average)



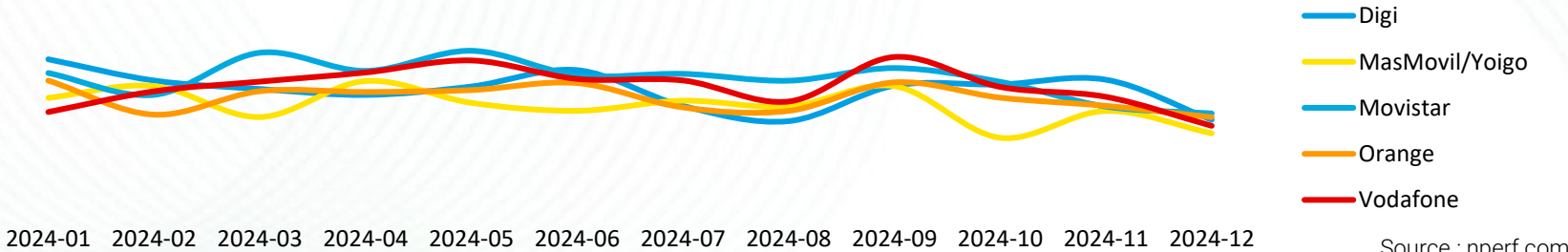
Source : nperf.com

Streaming Performance rate (average)



Source : nperf.com

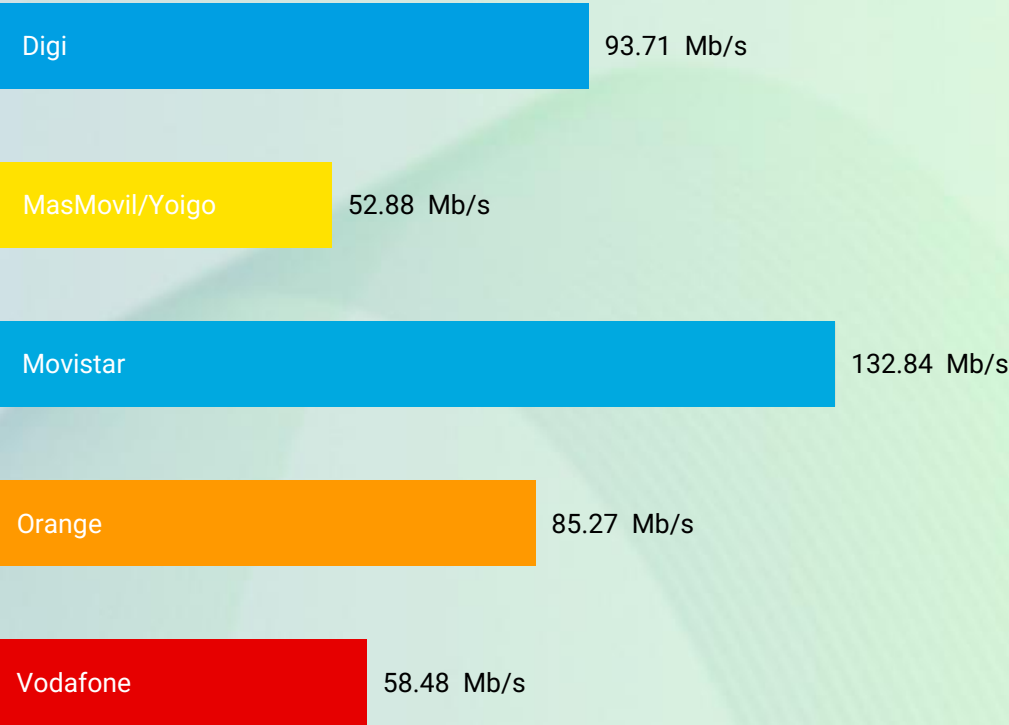
Streaming performance rate (average) evolution over the year



Source : nperf.com



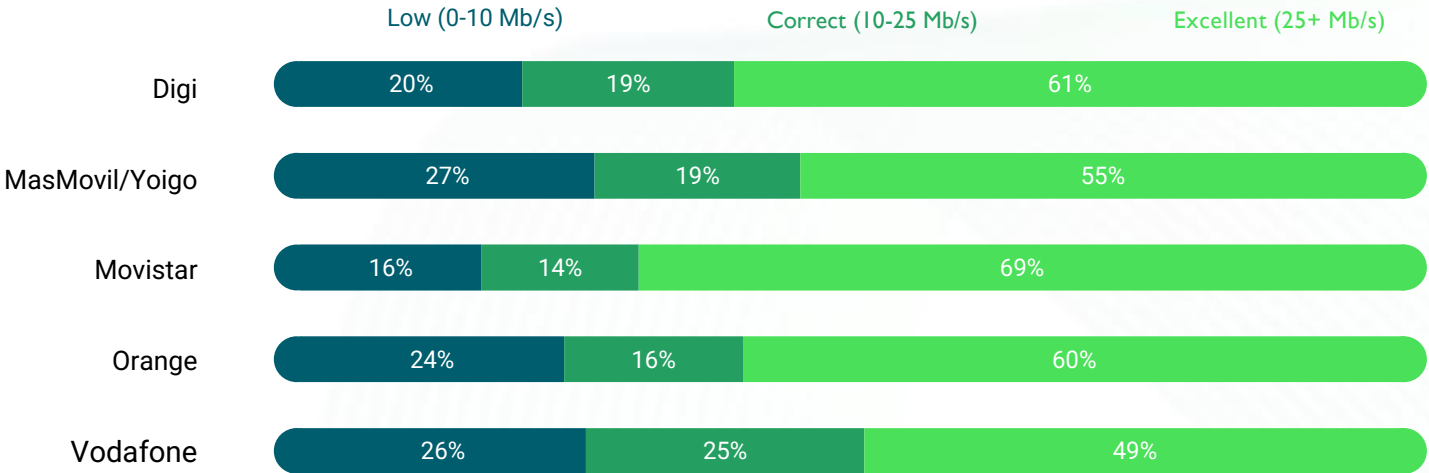
Download Speed (average)



Source : nperf.com

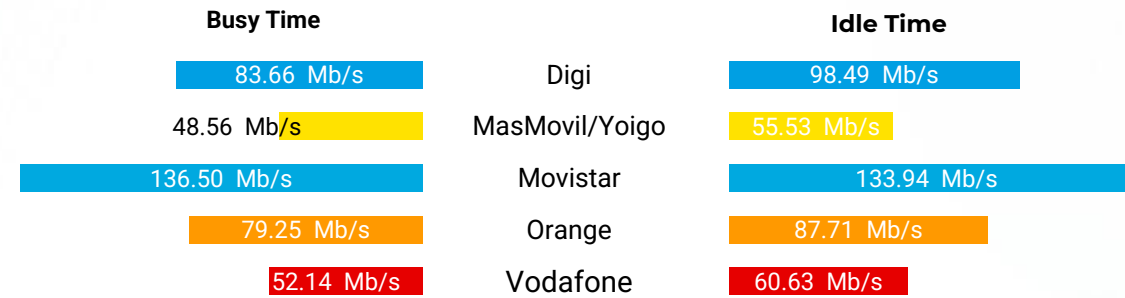
The subscribers of Movistar enjoyed the best average mobile Internet download speed in 2024.

Download Speed results ventilation (average)



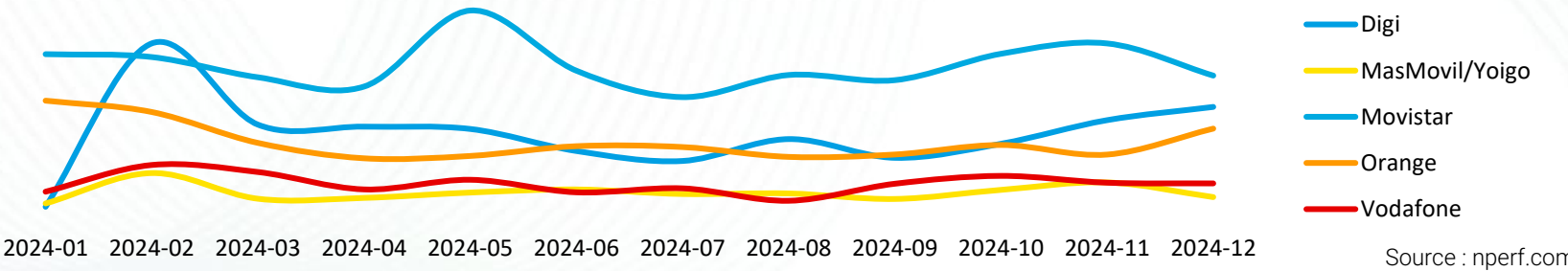
Source : nperf.com

Download Speed (average)



Source : nperf.com

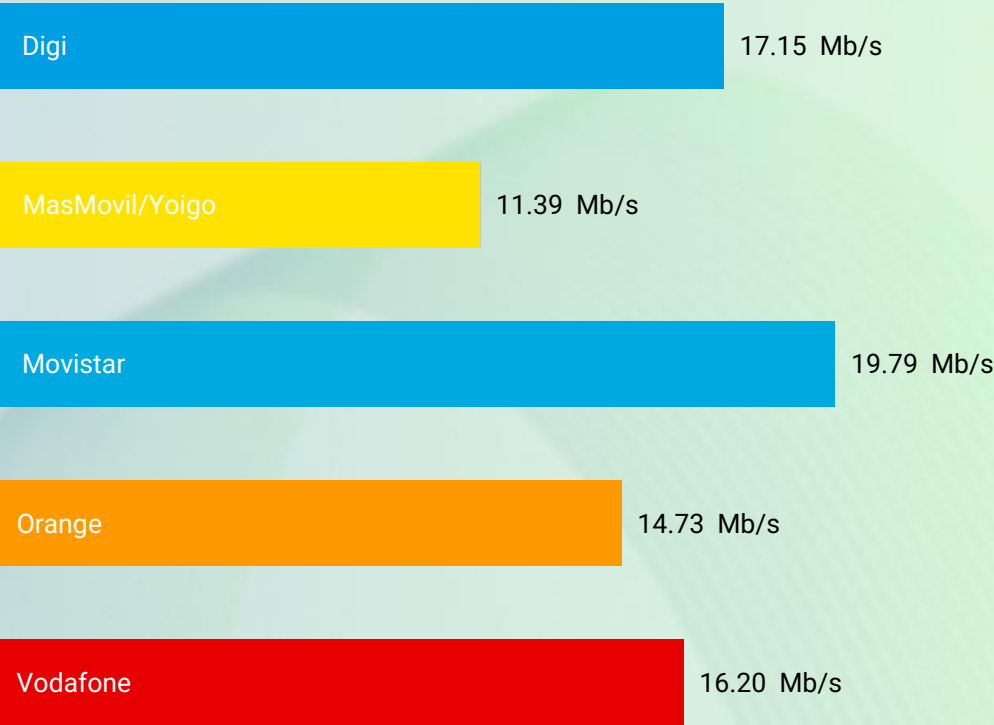
Download Speed evolution over the year (average)







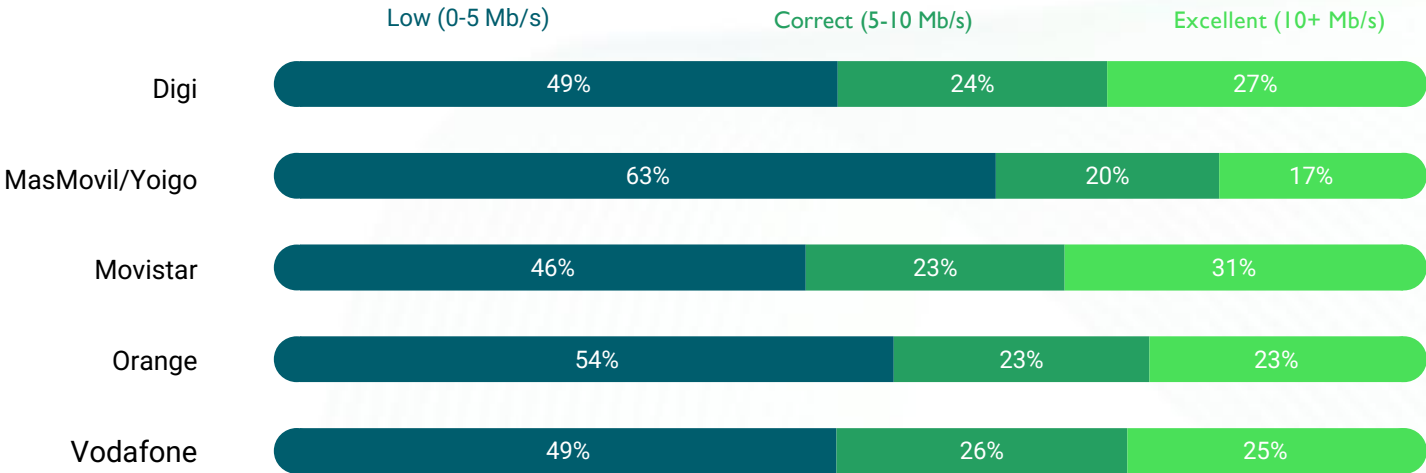
Upload Speed (average )



Source : nperf.com

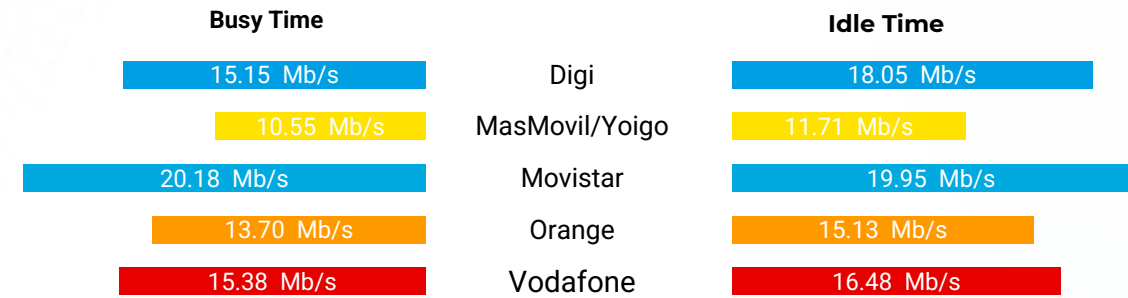
The subscribers of Movistar enjoyed the best average mobile Internet upload speed in2024.

Upload Speed results ventilation (average)



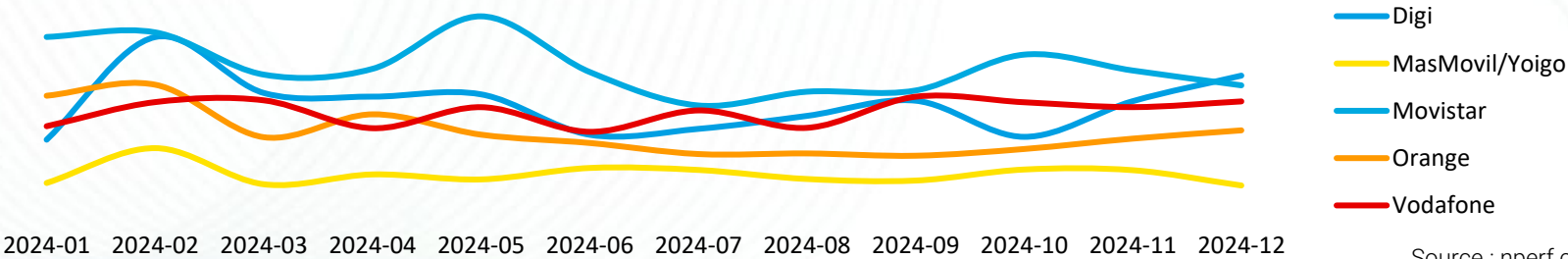
Source : nperf.com

Upload Speed (average )



Source : nperf.com

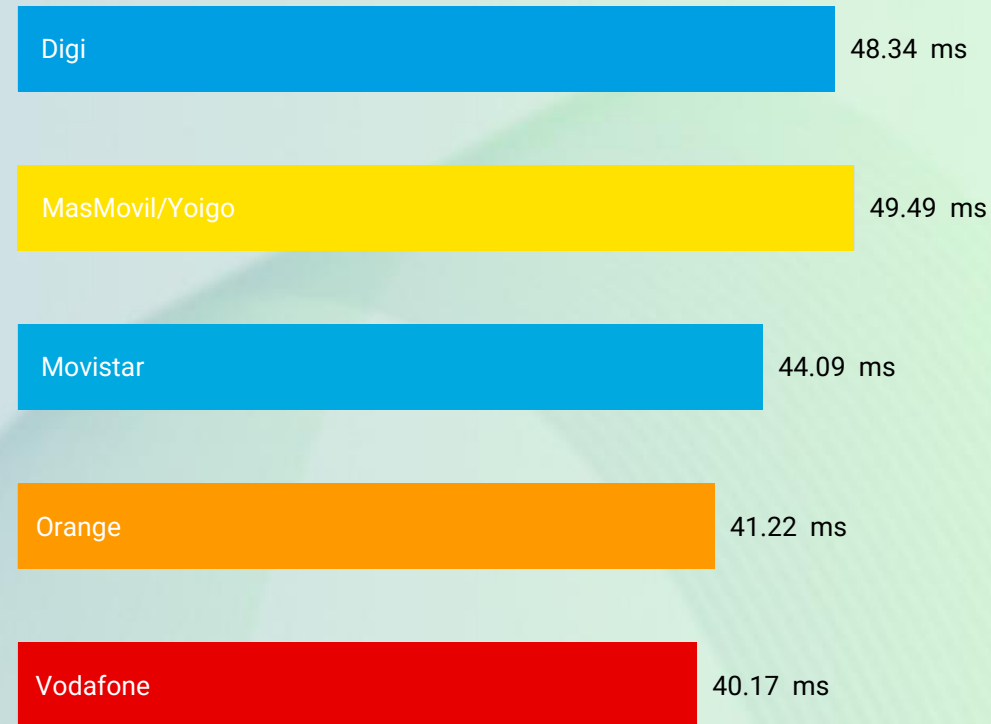
Upload Speed evolution over the year (average)



Source : nperf.com



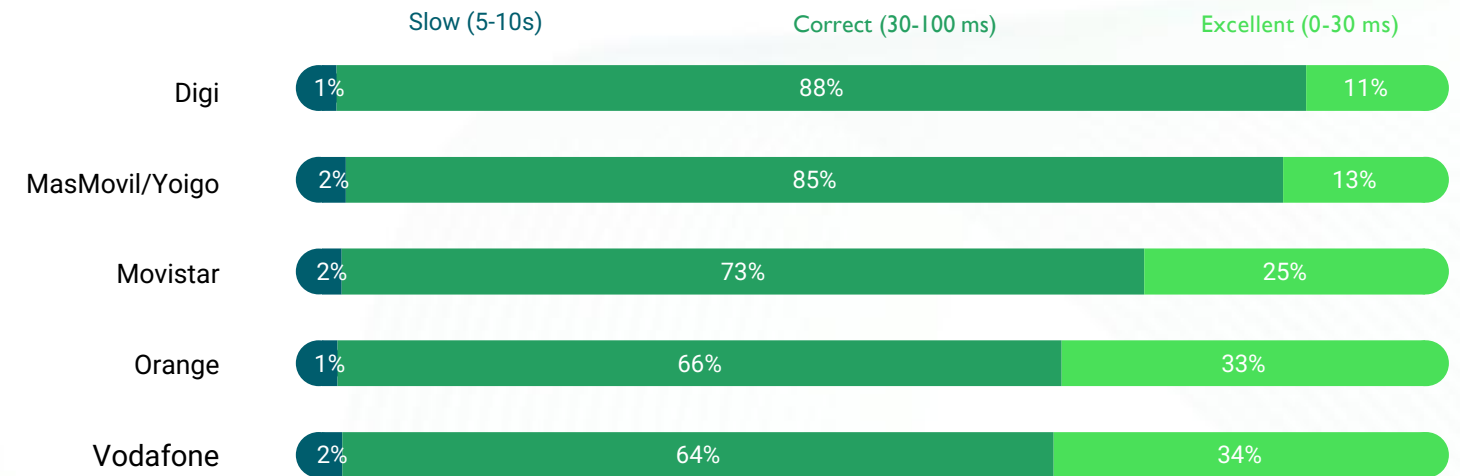
## Latency Speed (average)



Source : nperf.com

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

## Latency Speed results ventilation (average)



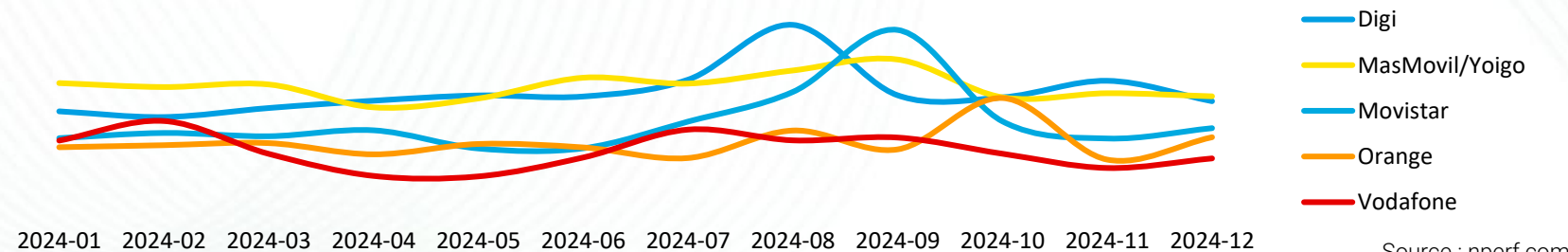
Source : nperf.com

## Latency Speed (average)



Source : nperf.com

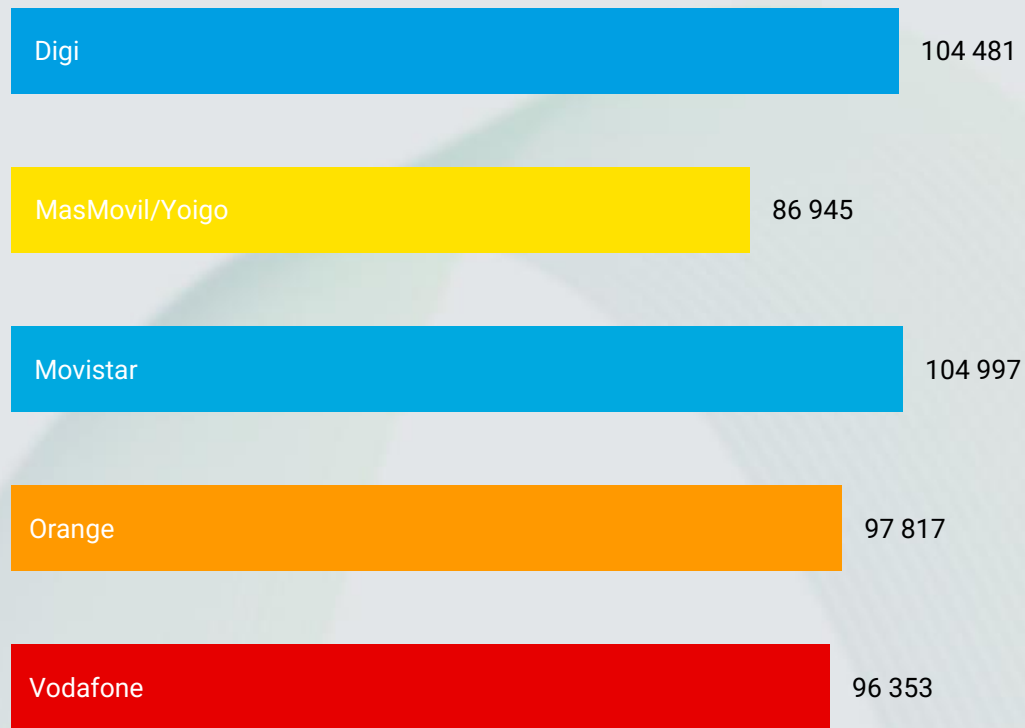
## Latency Speed evolution over the year (average)



Source : nperf.com



## nPerf Score (nPoints)



Source : nperf.com

The subscribers of Digi and Movistar enjoyed the best 5G Internet performances in 2024.

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

Source : nperf.com

DIGI



yoigo



Movistar



orange

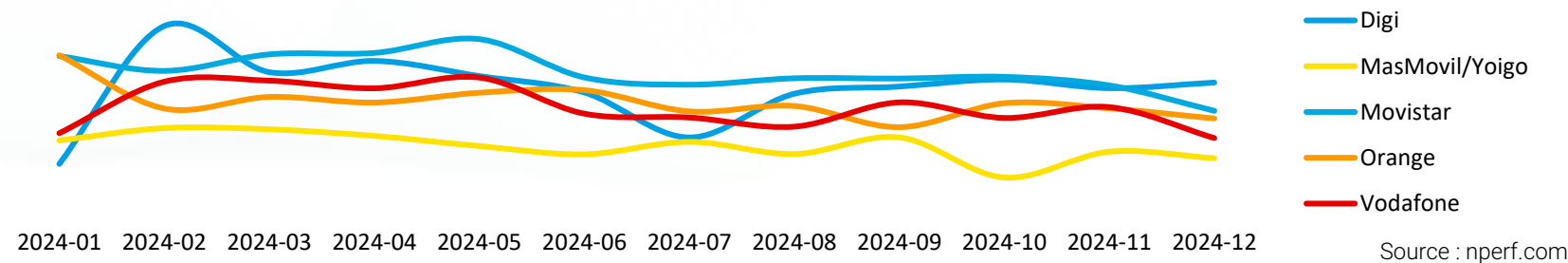


vodafone



Source : nperf.com

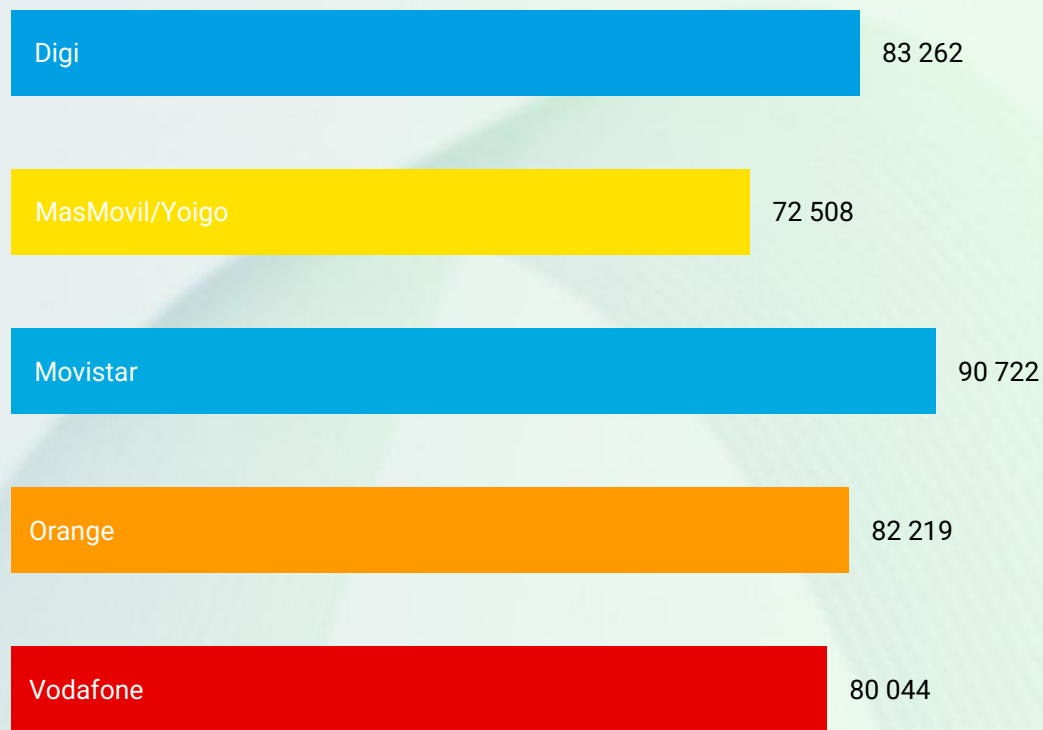
## nPerf score evolution over the year (average)



Source : nperf.com



nPerf Score (nPoints)

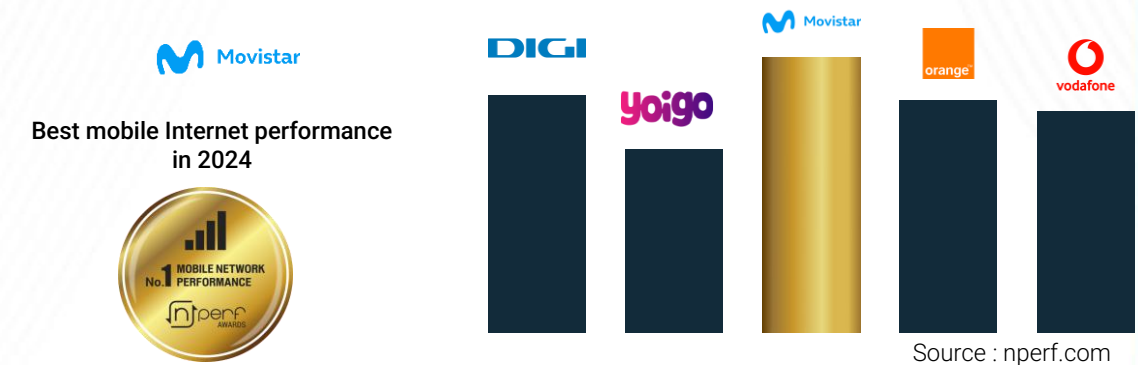


Source : nperf.com

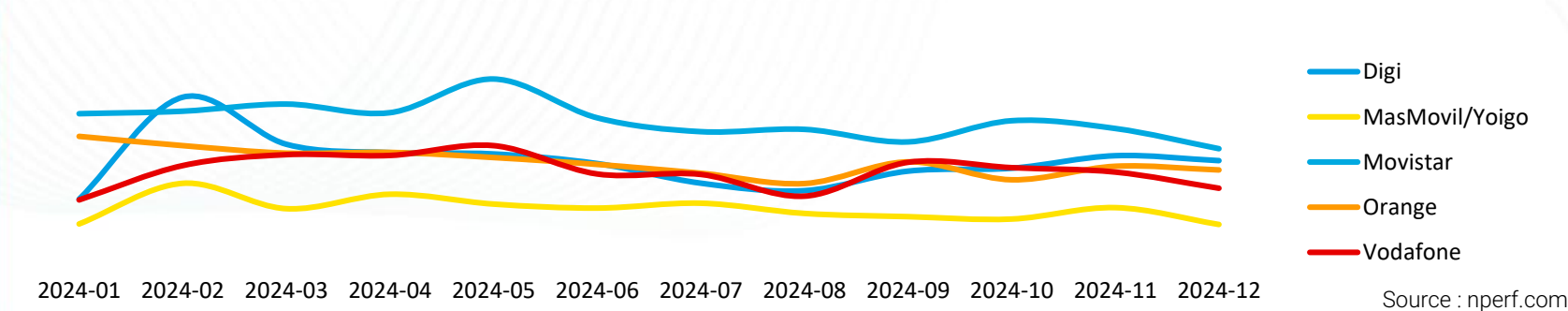
The subscribers of Movistar enjoyed the best mobile Internet performances in 2024.

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



nPerf score evolution over the year (average)





The background of the image features a series of thin, light-colored wavy lines that create a sense of motion and depth. These lines are layered and overlap, forming a complex, organic pattern that flows across the frame. The overall effect is reminiscent of a stylized wave or a series of concentric ripples.

inperf