



Barometer of mobile Internet connections in Greece.

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 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!
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2. Executive Summary



The subscribers of Cosmote and Vodafone enjoyed the best mobile Internet performances in Greece during 2023.

Cellular Internet connections in Greece

	Cosmote	Nova	Vodafone
Download bitrates (Mb/s)	100.28	46.50	51.99
Upload bitrates (Mb/s)	19.05	11.03	16.32
Latency (ms)	66.24	67.74	38.28
Web browsing (%)	54.12	46.44	55.94
Youtube streaming (%)	82.93	83.99	84.38
nPerf Score (nPoints)	74 592	60 130	74 254

Source : nperf.com



Best mobile Internet performance in 2023



Source : nperf.com



NOVA



Source : nperf.com

The subscribers of Vodafone enjoyed the best 5G mobile connections in Greece during 2023.

5G mobile connections in Greece

	Cosmote	Nova	Vodafone
▼ Download bitrates (Mb/s)	171.44	92.21	113.61
▲ Upload bitrates (Mb/s)	28.87	22.21	27.99
◀▶ Latency (ms)	53.72	63.86	33.79
🌐 Web browsing (%)	62.04	56.42	65.86
📺 Youtube streaming (%)	82.19	87.69	86.46
nPerf Score (nPoints)	89 034	78 694	94 961

Source: nperf.com

In the dynamic landscape of Greece's mobile internet services, two major Internet Service Providers (ISPs), Cosmote and Vodafone, stand out for their exemplary performance, showcasing a tight competition that reflects the high standards of connectivity in the region. This analysis delves into their performance metrics, highlighting their strengths and areas for improvement.

Cosmote and Vodafone - A Tie at the Top

Cosmote and Vodafone emerge as the frontrunners in the Greek mobile sector, showcasing an impressive tie in performance.

Cosmote, shines with stellar download speeds

Cosmote emerges as a robust competitor with impressive download bitrates averaging 171 Mb/s, setting a high benchmark for mobile internet speed. Despite Vodafone's commendable performance, Cosmote's superior download speed positions it as a preferred choice for heavy data users and streaming enthusiasts. Cosmote offers a respectable upload speed of 29 Mb/s and a latency of 54 ms, ensuring smooth uploads and responsive online interactions. With a web browsing score of 62% and a YouTube streaming score of 82%, Cosmote provides a reliable and enjoyable online experience, although there's room for improvement in web browsing reliability. With an nPerf score of 89,034 nPoints, Cosmote demonstrates strong overall performance, underscoring its commitment to providing quality service.

Vodafone, excels with the lowest latency

Vodafone, matching Cosmote's stride, showcases its strength with the lowest latency of 34 ms among the competitors, ensuring an exceptionally responsive and seamless internet experience, particularly beneficial for online gaming and real-time applications. Vodafone offers competitive download and upload speeds of 114 Mb/s and 28 Mb/s, respectively, catering well to a broad range of online activities, from streaming to file sharing. Vodafone leads with a 66% web browsing score and an 86% YouTube streaming score, indicating a slightly more reliable browsing experience than Cosmote. Vodafone's nPerf score of 94,961 nPoints slightly edges out Cosmote, reflecting its balanced and efficient service delivery.

Nova, the streaming co-champion

Nova, while trailing behind the market leaders, presents a noteworthy analysis. With download speeds of 92 Mb/s and upload speeds of 22 Mb/s, Nova maintains a competitive stance in the data transmission domain. Its latency stands at 64 ms, slightly higher than its counterparts, which may affect real-time applications. The web browsing score is observed at 56%, indicating a relatively efficient browsing experience. Remarkably, Nova excels in YouTube streaming, with an 88% score, surpassing even Cosmote. This strength in streaming is a significant highlight for Nova, appealing to users with a penchant for video content. Despite these strengths, Nova's overall nPerf score of 78,694 nPoints places it behind its competitors, suggesting areas for improvement in balancing various service aspects to enhance user satisfaction.

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 mobile 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.

🌐 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 user's perceived quality of the Internet network.

📺 Streaming performance :

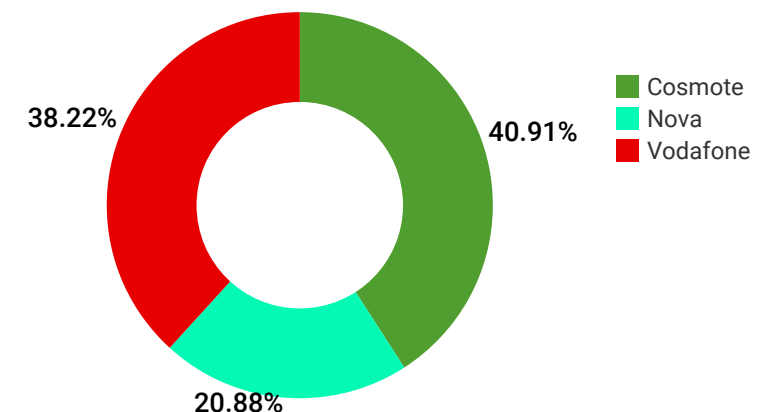
The video streaming test gauges the load time of a fully loaded video in three resolutions on YouTube, considering stalls during playback. This indicator reflects the user's perceived quality of the Internet network.

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



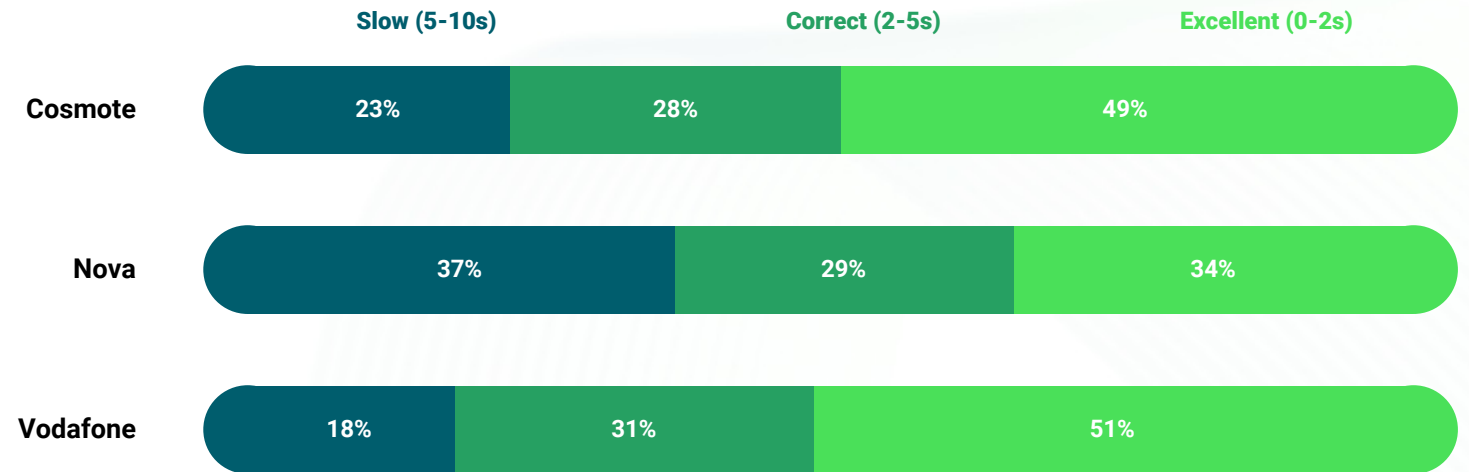
Browsing Performance rate (average)



Source : nperf.com

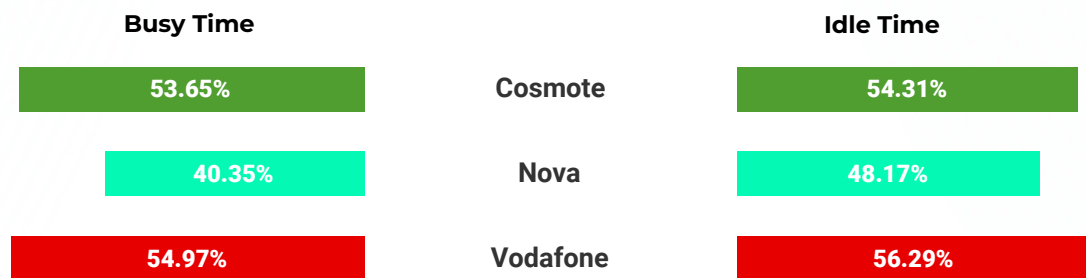
The subscribers of Vodafone enjoyed the best mobile Internet browsing performance in 2023.

Browsing Performance results ventilation (average)



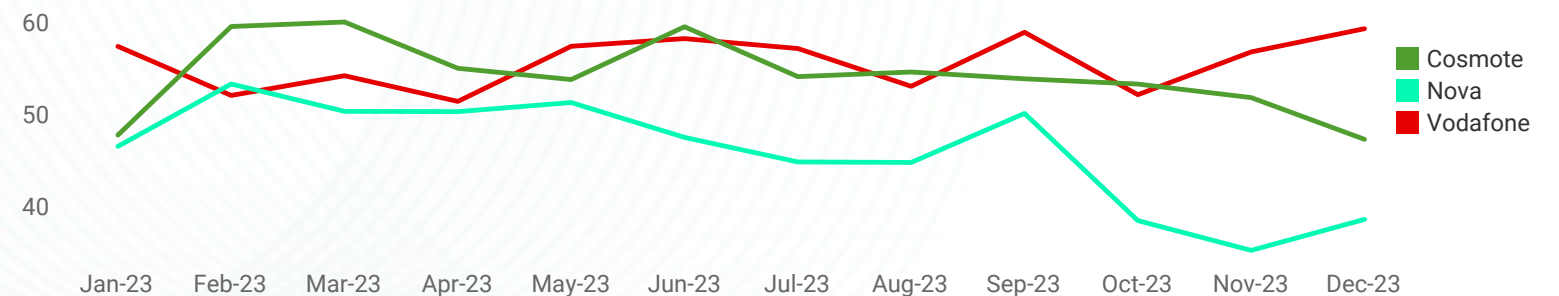
Source : nperf.com

Browsing Performance rate (average)



Source : nperf.com

Browsing performance rate (average) evolution over the year



Source : nperf.com



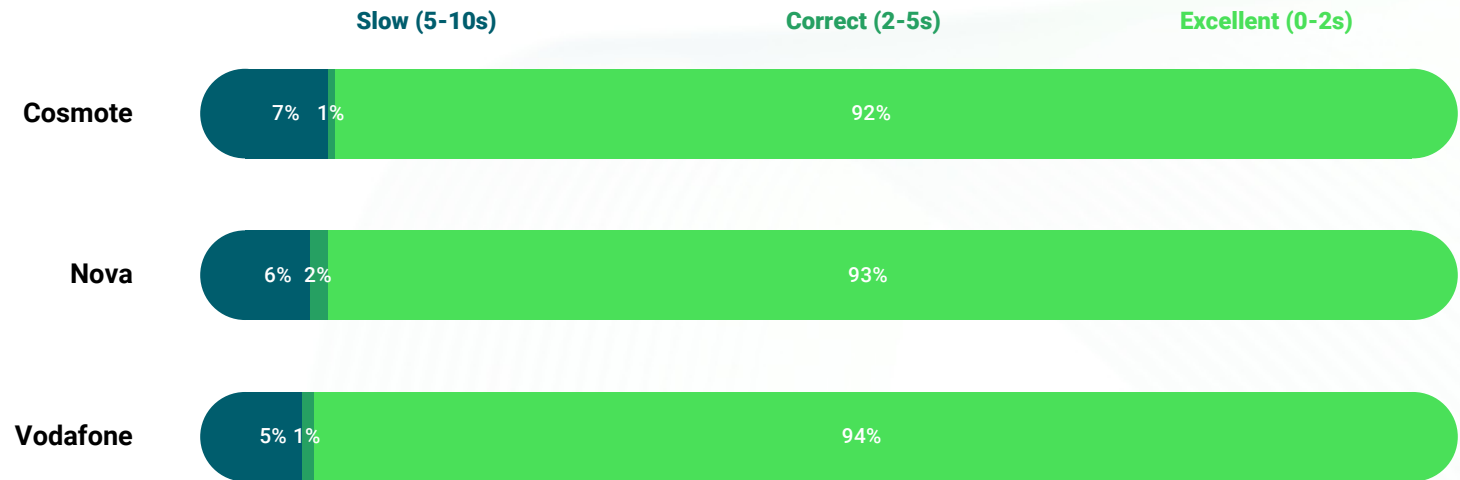
Streaming Performance rate (average)



Source : nperf.com

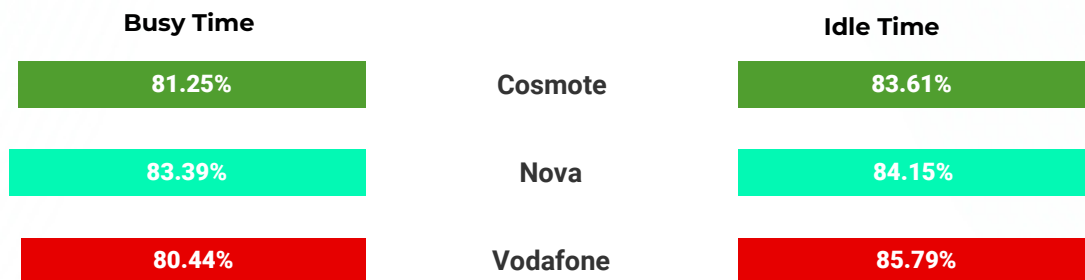
The subscribers of Vodafone and Nova enjoyed the best mobile Internet streaming performance in 2023.

Streaming Performance results ventilation (average)



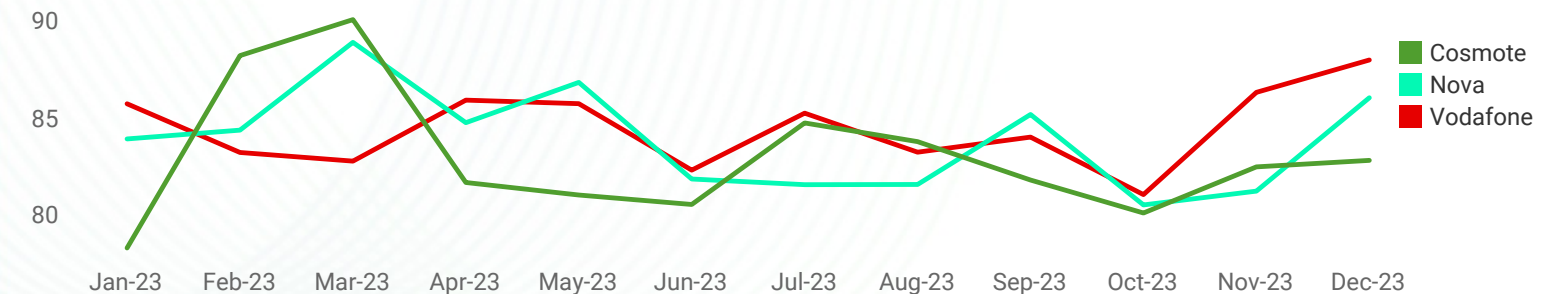
Source : nperf.com

Streaming Performance rate (average)



Source : nperf.com

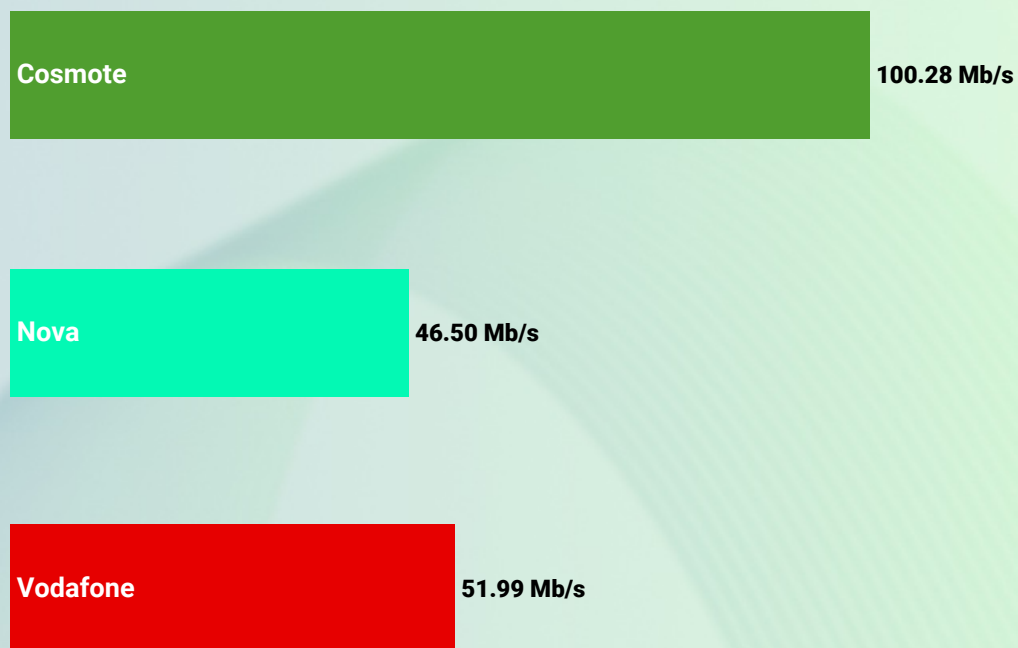
Streaming performance rate (average) evolution over the year



Source : nperf.com



Download Speed (average)



Source : nperf.com

The subscribers of Cosmote enjoyed the best average mobile Internet download speed in 2023.

Download Speed results ventilation (average)



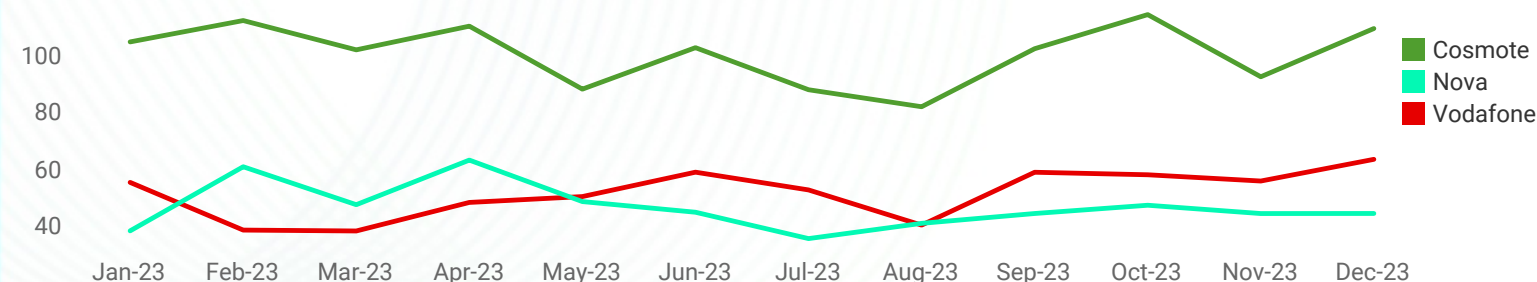
Source : nperf.com

Download Speed (average)



Source : nperf.com

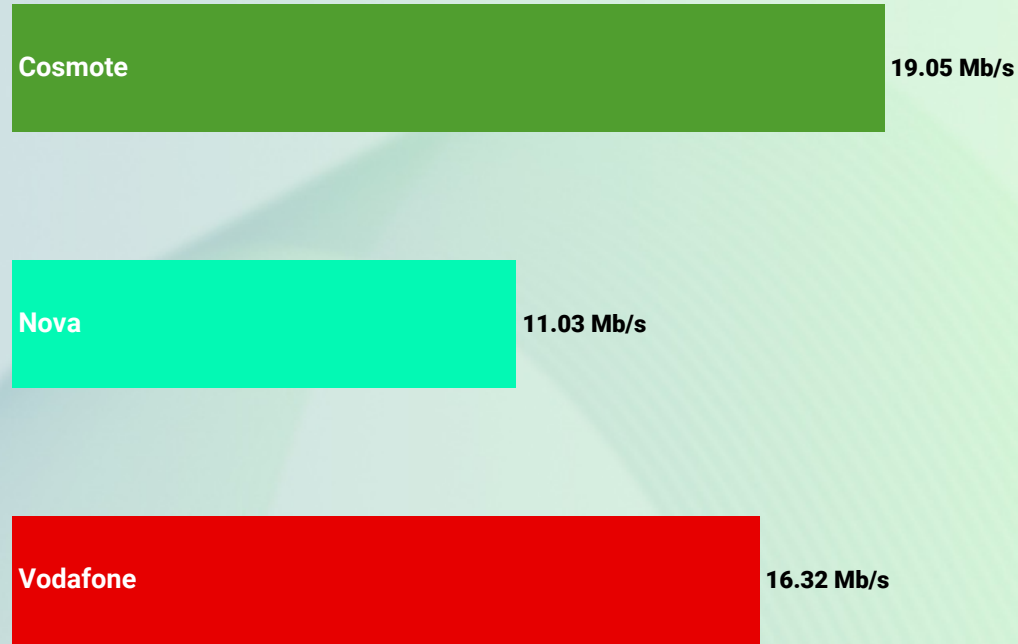
Download Speed evolution over the year (average)



Source : nperf.com



Upload Speed (average)



Source : nperf.com

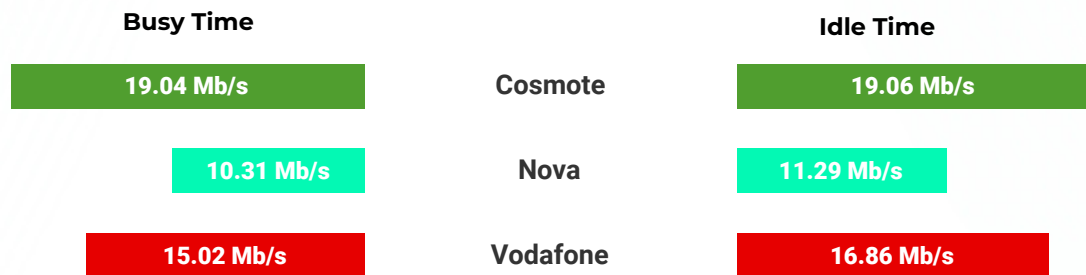
The subscribers of Cosmote enjoyed the best average mobile Internet upload speed in 2023.

Upload Speed results ventilation (average)



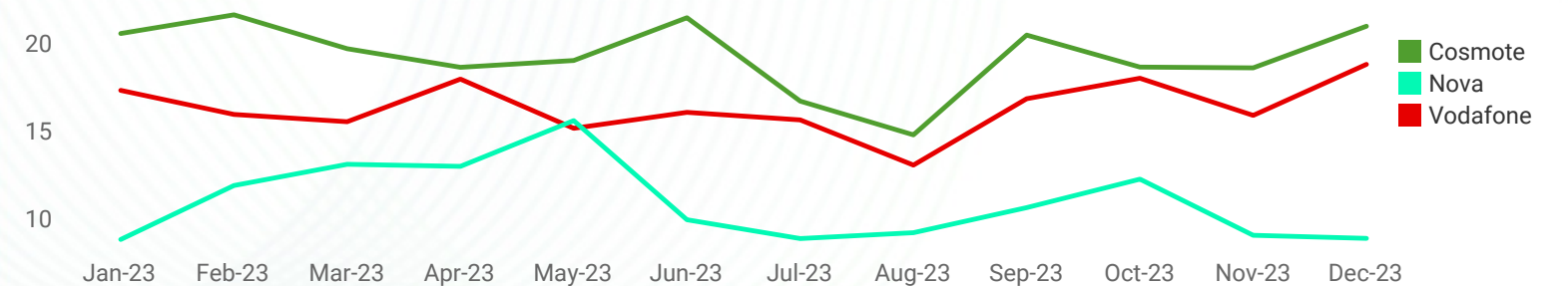
Source : nperf.com

Upload Speed (average)



Source : nperf.com

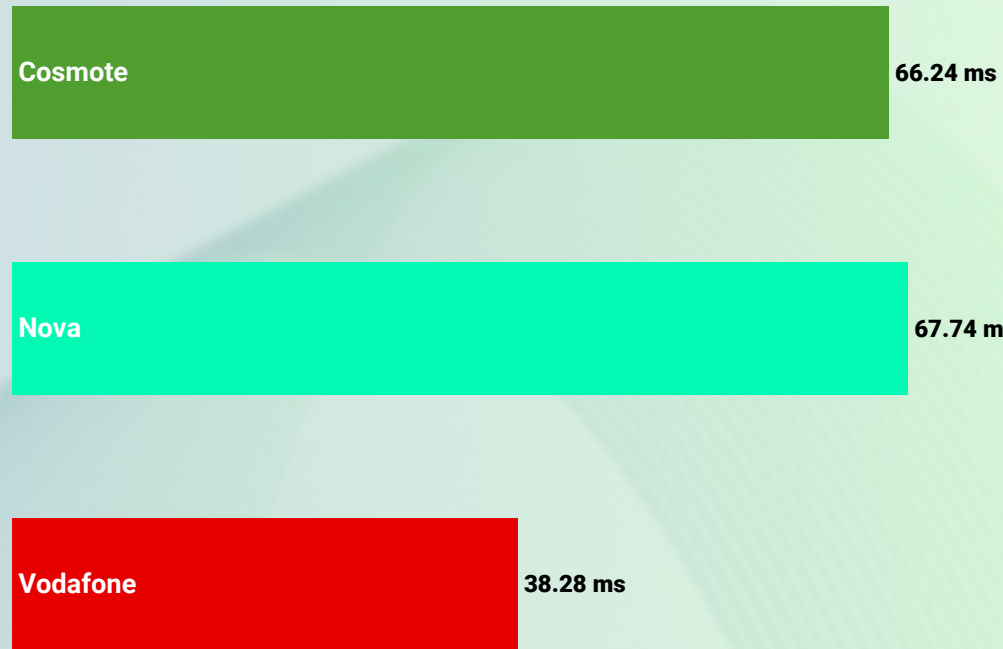
Upload Speed evolution over the year (average)



Source : nperf.com



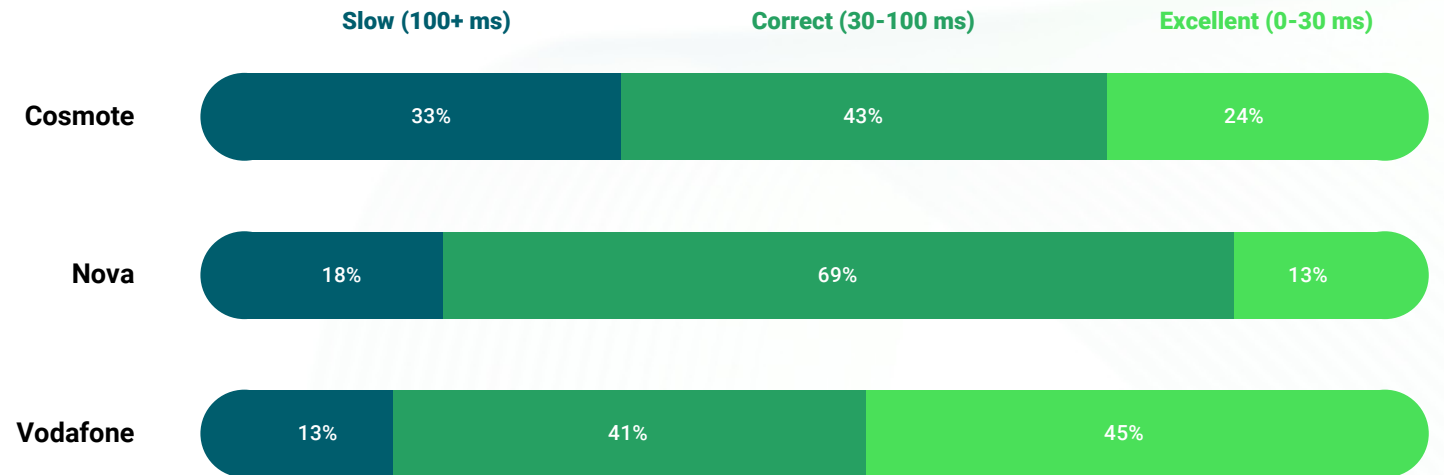
Latency Speed (average)



Source : nperf.com

The subscribers of Vodafone enjoyed the best average mobile Internet latency speed in 2023.

Latency Speed results ventilation (average)



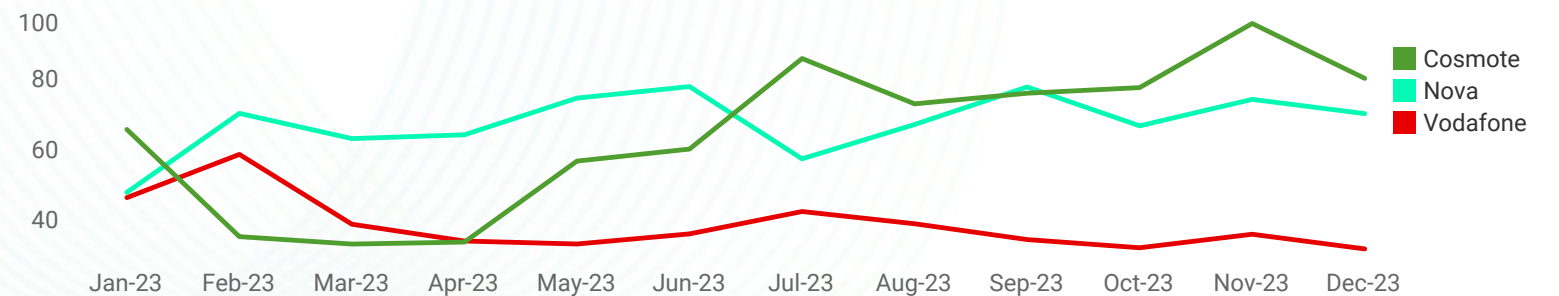
Source : nperf.com

Latency Speed (average)

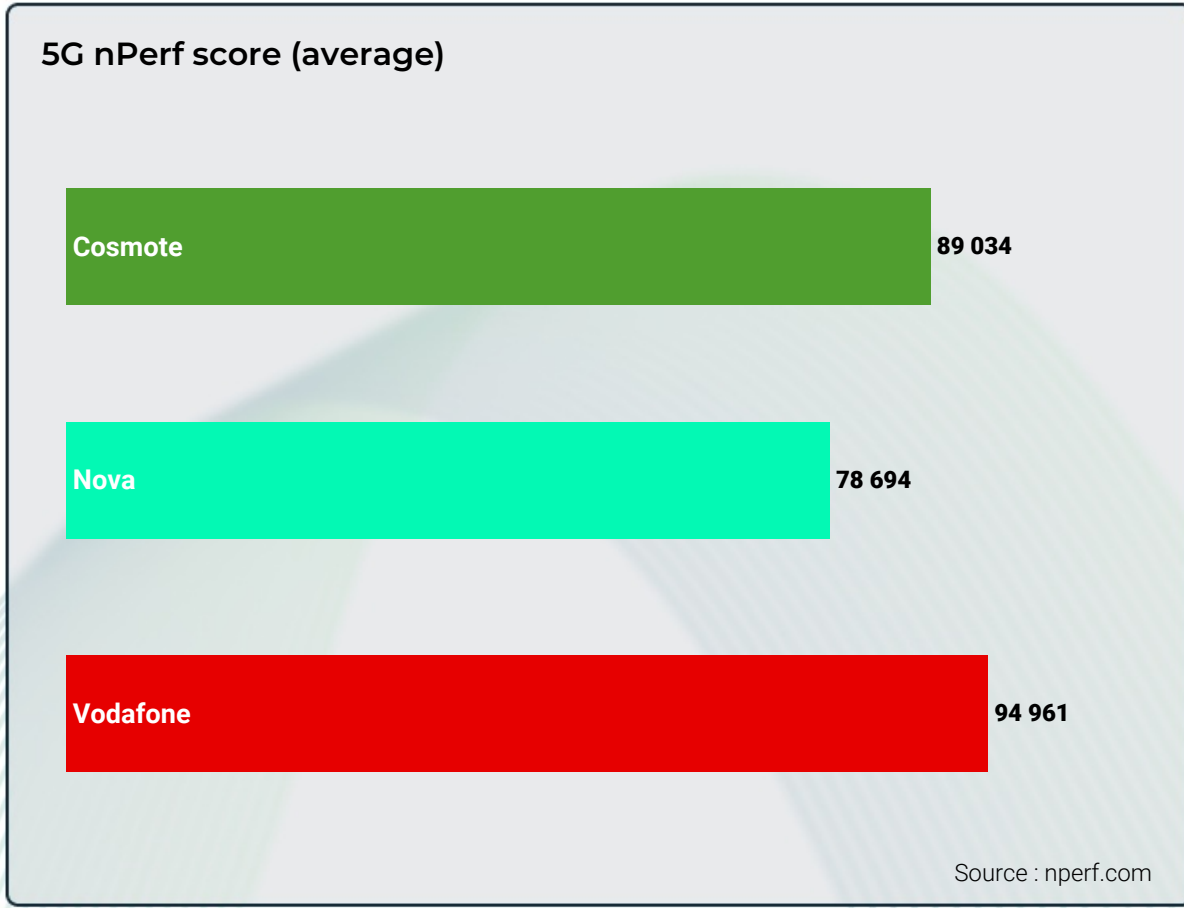


Source : nperf.com

Latency Speed evolution over the year (average)

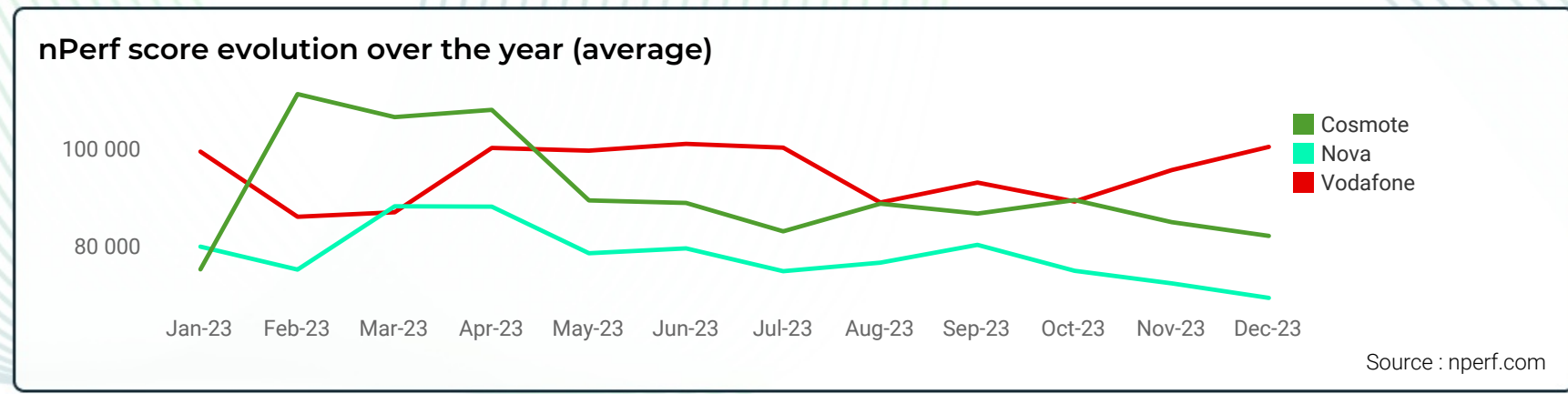
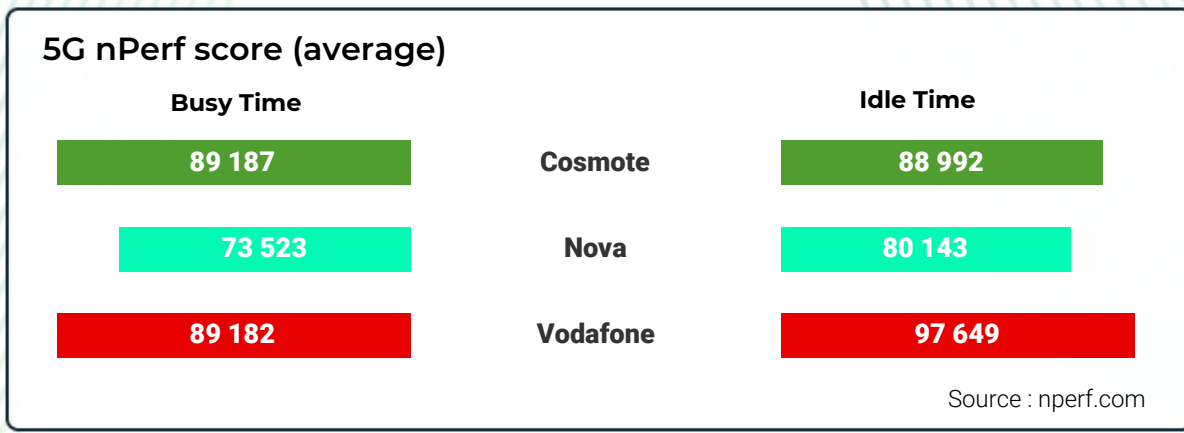


Source : nperf.com

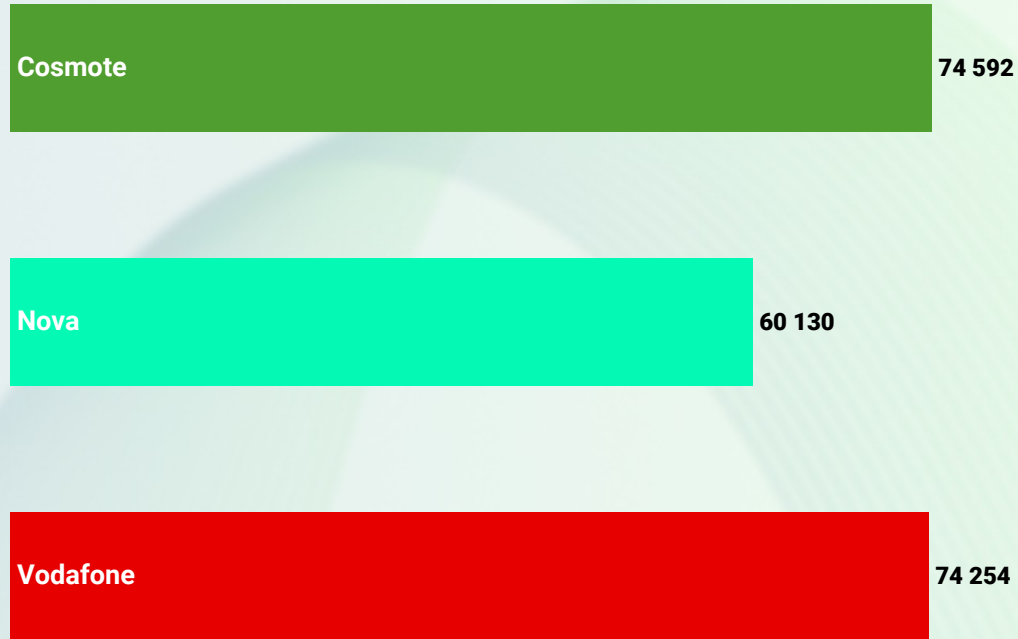


The subscribers of Vodafone enjoyed the best 5G mobile connections in Greece during 2023.

- Best 5G Mobile Performance : Vodafone (94 961 nPoints)
 - Best 5G Mobile Download speed : Cosmote (171.44 Mb/s)
 - Best 5G Mobile Upload speed : Cosmote (28.87 Mb/s)
 - Best 5G Mobile Latency speed : Vodafone (33.79 ms)
 - Best 5G Mobile Browsing experience : Vodafone (65.86 %)
 - Best 5G Mobile Video experience : Nova (87.69 %)
- Source : nperf.com



nPerf Score (nPoints)



Source : nperf.com

The subscribers of **Cosmote** and **Vodafone** enjoyed the best mobile Internet performances in Greece 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



Best mobile Internet performance in 2023

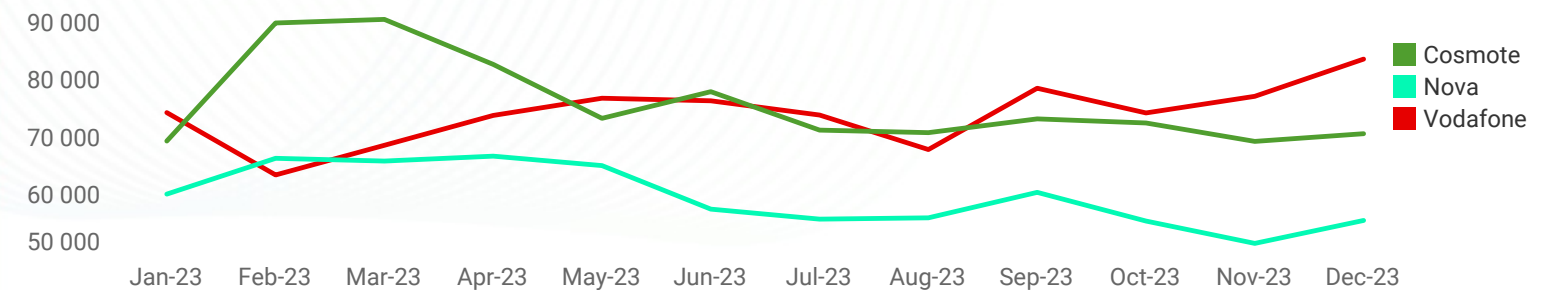


NOVA



Source : nperf.com

nPerf score evolution over the year (average)



Source : nperf.com



We qualify your connection