

07/17/2025

Barometer of mobile Internet connections in Indonesia

07/01/2024 - 06/30/2025



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nPerf**

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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.



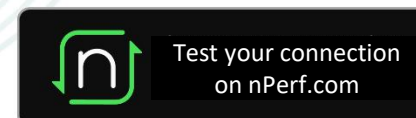
26Md+ coverage
scans in total.



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 IM3 enjoyed the best mobile Internet performances in 2025.

Mobile Internet connections in Indonesia

	IM3	Smartfren	Telkomsel	XL Axiata
▼ Download speedss (Mb/s)	28.24	19.64	29.92	23.10
▲ Upload speedss (Mb/s)	12.55	4.28	12.49	13.34
◀▶ Latency (ms)	47.71	36.96	50.97	60.60
🌐 Web browsing (%)	56.24	50.58	53.79	54.32
🎥 Youtube streaming (%)	77.33	70.04	76.33	77.68
📶 nPerf Score (nPoints)	60 371	48 755	58 699	55 537

Source : nPerf.com

im3

Best mobile Internet performance
in 2025



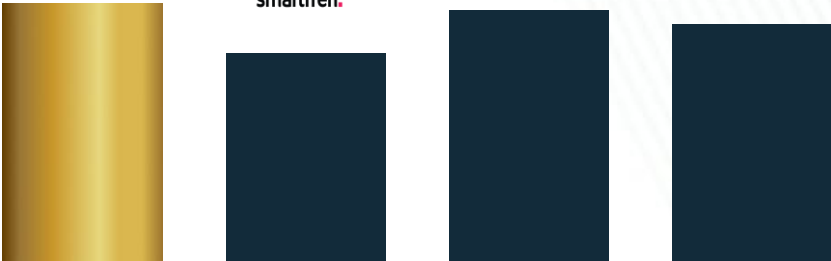
Source : nPerf.com

im3

smartfren.

Telkomsel







XL axiata



Source : nPerf.com

The subscribers of IM3 enjoyed the best 4G Internet performances in Indonesia in 2025.

4G mobile Internet connections in Indonesia

	IM3	Smartfren	Telkomsel	XL Axiata
 Download speedss (Mb/s)	28.23	19.62	28.88	23.14
 Upload speedss (Mb/s)	12.55	4.27	12.19	13.35
 Latency (ms)	47.75	36.97	51.47	60.67
 Web browsing (%)	56.21	50.56	53.66	54.35
 Youtube streaming (%)	77.32	70.04	76.30	77.68
 nPerf Score (nPoints)	60 341	48 718	58 041	55 562

Source : nPerf.com

Introduction

IM3 has taken the lead in Indonesia's mobile Internet sector, reaching the top position with a score of 60,371 nPoints. The competition remains dynamic with Telkomsel, XL Axiata, and Smartfren all showing solid performance across various metrics. For 4G specifically, IM3 has also secured the first place position.

IM3: New sector leader with balanced performance

IM3 has climbed to the number one position with 60,371 nPoints, demonstrating significant improvement across key metrics. The operator stands out as the 4G leader and excels in browsing performance, where it ranks first with a 56.2% , ensuring smooth web navigation for users. IM3 also shares the top position in video streaming quality with XL Axiata, providing fluid content viewing experiences. The operator has shown impressive progress with a 19.9% improvement in download speeds and an 11.0% increase in upload performance, enhancing the overall user experience for multimedia applications.

Telkomsel: Download speed champion

Telkomsel holds the second position with 58,699 nPoints and maintains its leadership in download speeds at 29.9 Mbps. This solid performance makes Telkomsel particularly well-suited for activities requiring fast download speeds, such as streaming high-definition content and downloading large files. The operator has further improved its download speeds by 10.2% compared to the previous period, strengthening its position in this important category while maintaining good overall performance across other metrics.

XL Axiata: Good in multimedia sharing capabilities

With 55,537 nPoints, XL Axiata secures the third position in the sector. The operator distinguishes itself as the upload speeds leader with 13.3 Mbps, making it an excellent choice for users who regularly share content or participate in video conferences. XL Axiata also shares the top position in video streaming quality with IM3, ensuring a comfortable viewing experience for subscribers. The company has shown substantial improvement in upload performance with a 14.9% increase, reinforcing its strength in this area.

Smartfren: Latency specialist

Smartfren ranks fourth with 48,755 nPoints but stands out as the undisputed leader in latency performance with an impressive 37.0 ms. This gives Smartfren users a distinct advantage for real-time applications such as online gaming and video calls where responsiveness is crucial. The operator has made good progress in both upload speeds (13.8% improvement) and browsing performance (13.2% increase), showing its commitment to enhancing user experience across multiple dimensions.

Conclusion

IM3 has successfully claimed the top position in Indonesia's mobile internet sector, while each operator demonstrates unique strengths in specific areas. Telkomsel leads in download speeds, XL Axiata in upload performance, Smartfren in latency, and IM3 in browsing quality. This competitive landscape benefits Indonesian consumers, who can choose providers based on their specific needs and usage patterns. The sector shows positive momentum with multiple operators achieving significant improvements in key performance indicators.

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 mean 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

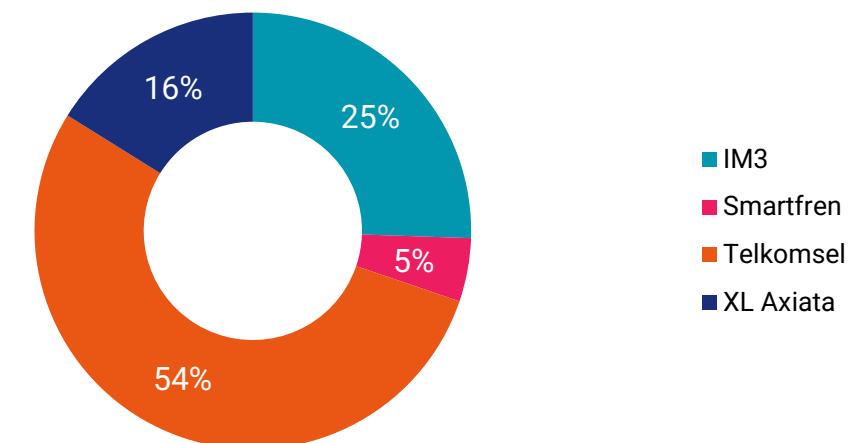
The video streaming test gauges the load time of a fully loaded video in three resolutions on YouTube, considering stalls during playback. This indicator reflects the perceived quality by the user.

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 2.5% 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.

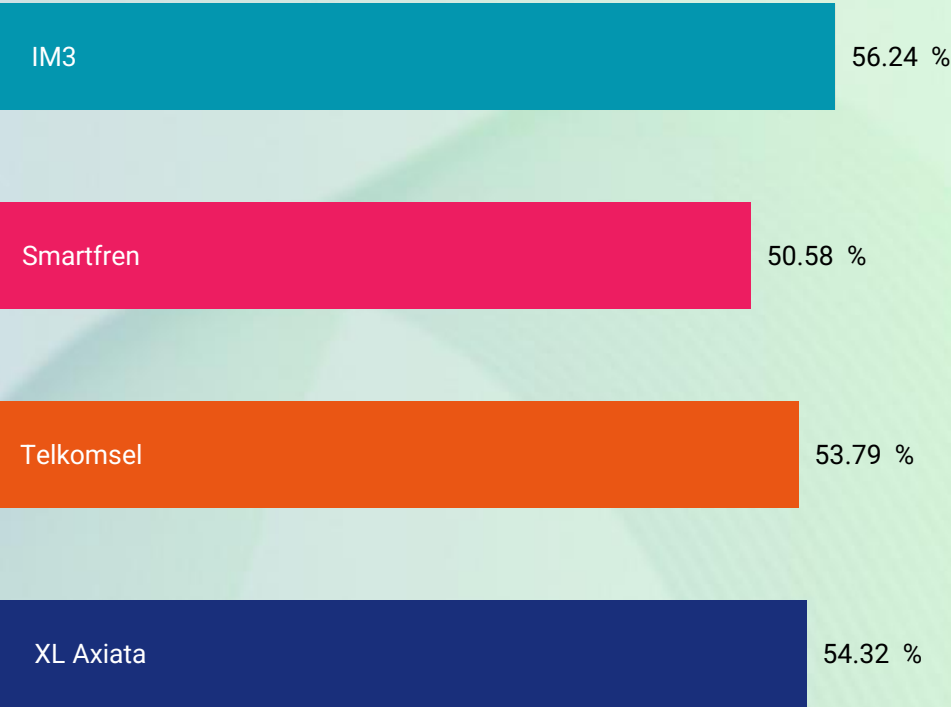
Overall distribution of the tests per provider (ISPs Share)



Source : nPerf.com



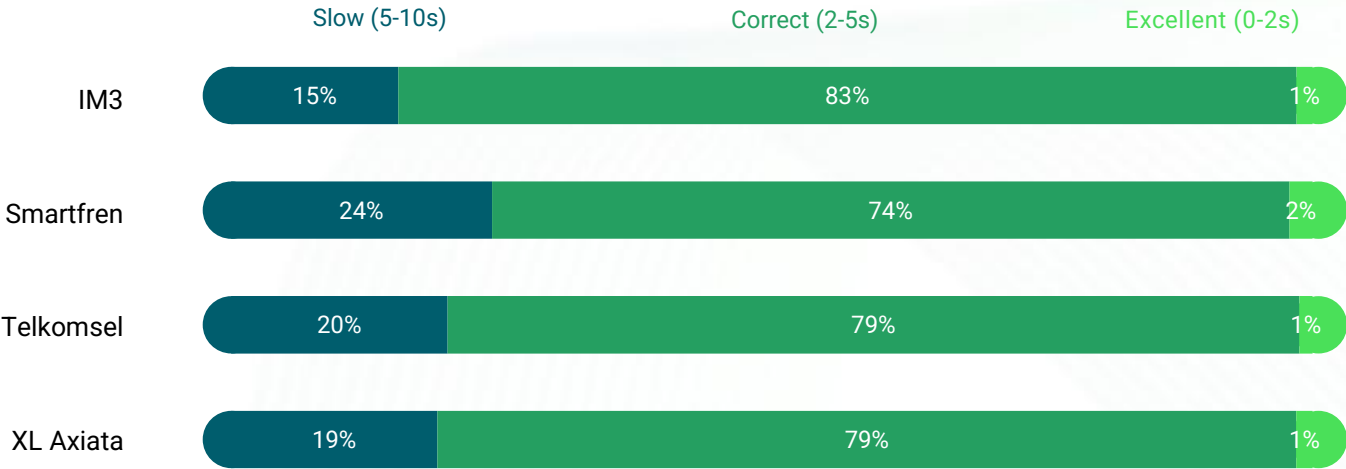
Browsing Performance rate (average)



Source : nPerf.com

The subscribers of IM3 enjoyed the best mobile Internet browsing performance in 2025.

Browsing Performance results ventilation (average)



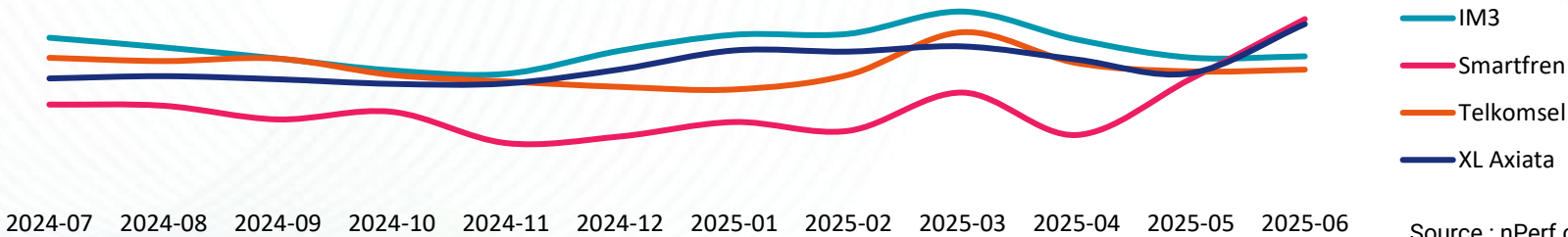
Source : nPerf.com

Browsing Performance rate (average)



Source : nPerf.com

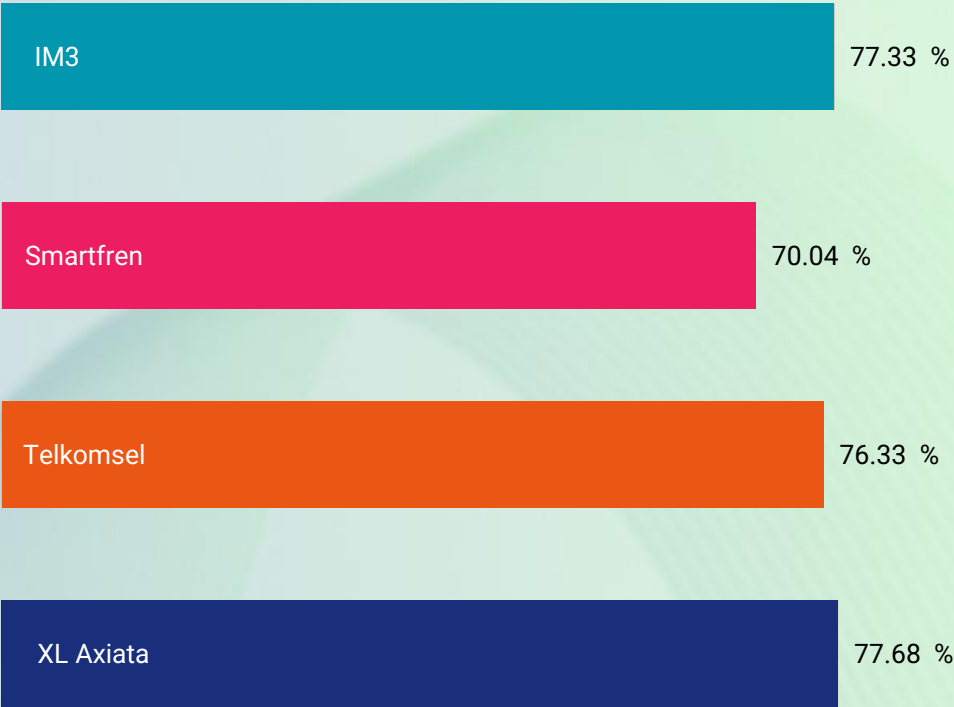
Browsing performance rate (average) evolution over the year



Source : nPerf.com



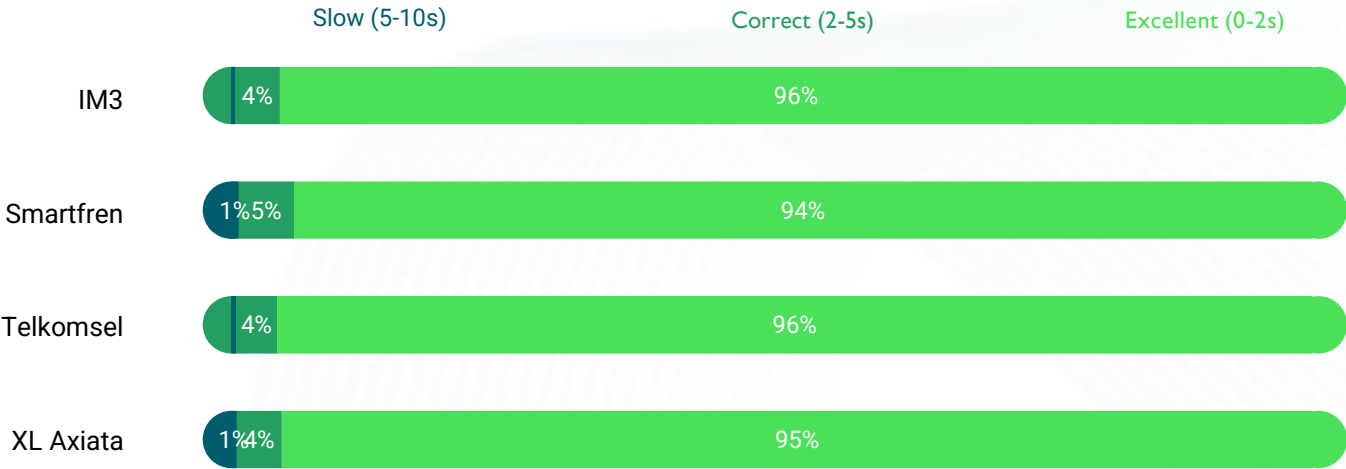
Streaming Performance rate (average)



Source : nPerf.com

The subscribers of IM3 and XL Axiata enjoyed the best mobile Internet streaming performance in 2025.

Streaming Performance results ventilation (average)



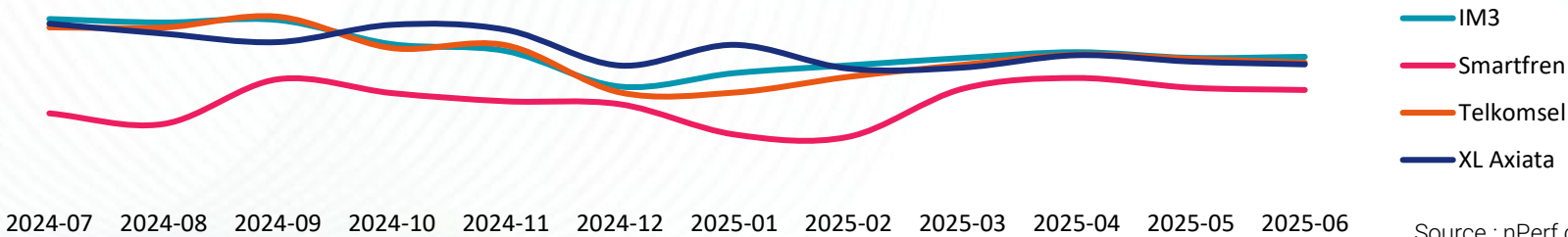
Source : nPerf.com

Streaming Performance rate (average)



Source : nPerf.com

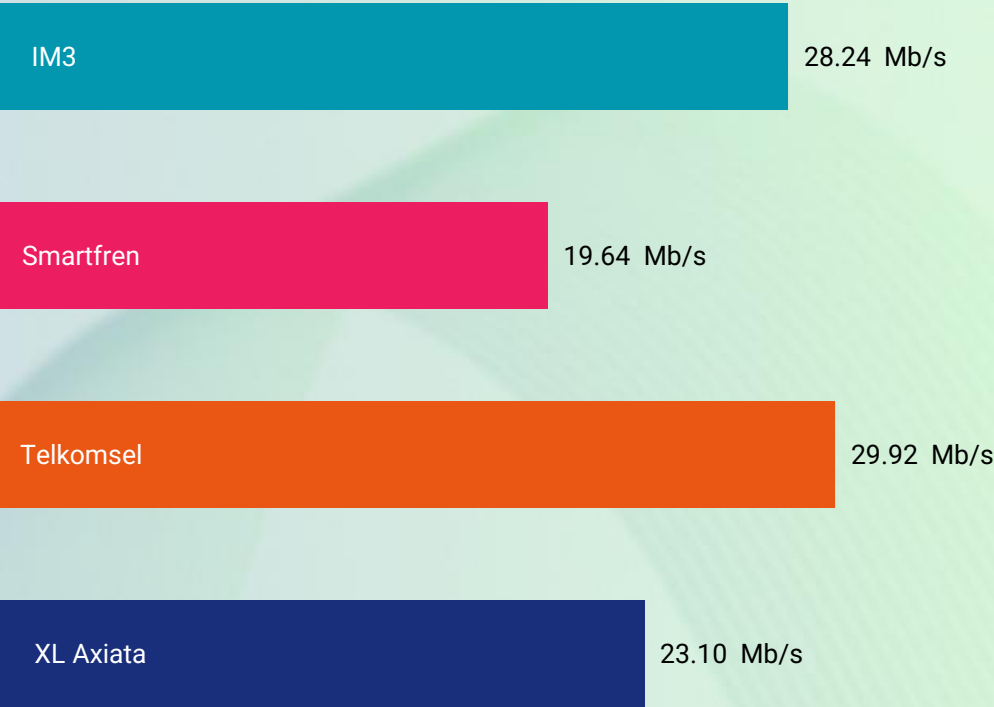
Streaming performance rate (average) evolution over the year



Source : nPerf.com



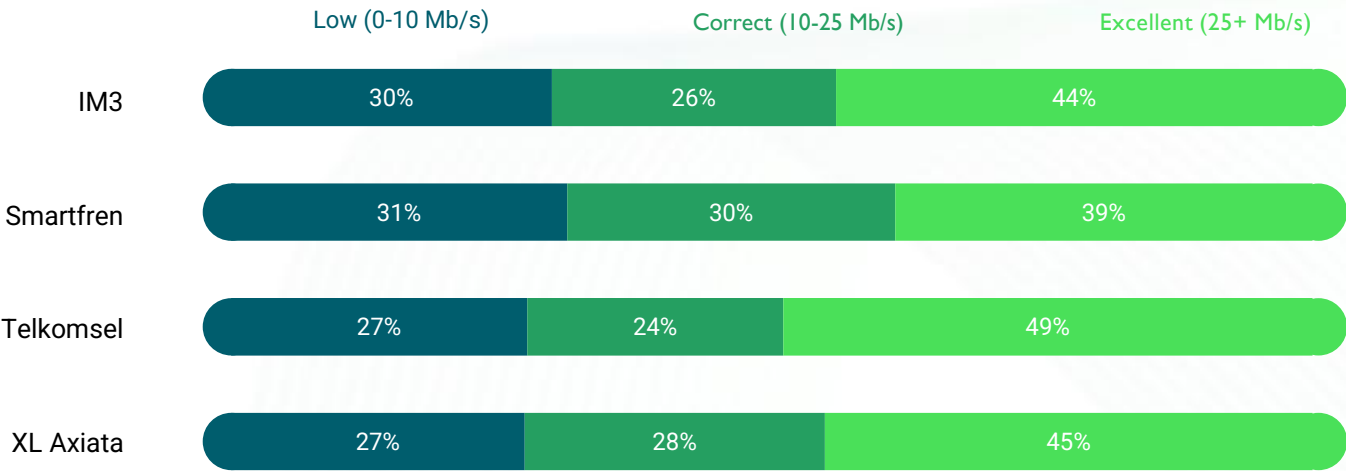
Download Speed (average)



Source : nPerf.com

The subscribers of Telkomsel enjoyed the best average mobile Internet download speed in 2025.

Download Speed results ventilation (average)



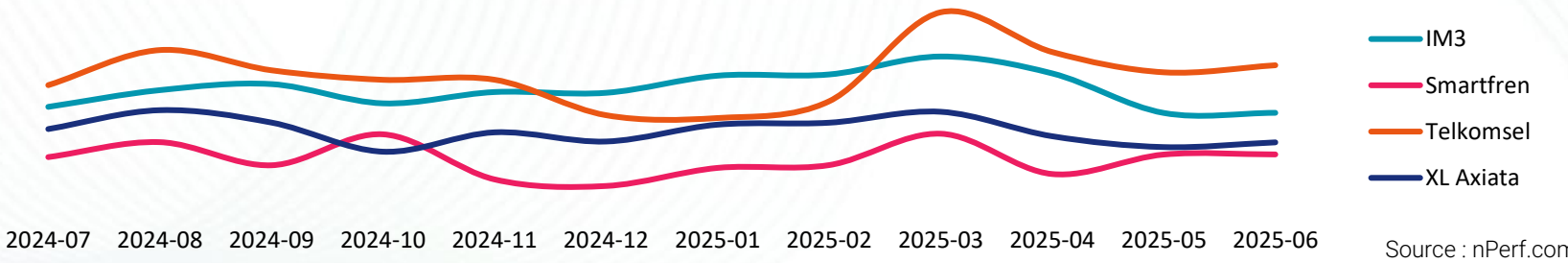
Source : nPerf.com

Download Speed (average)



Source : nPerf.com

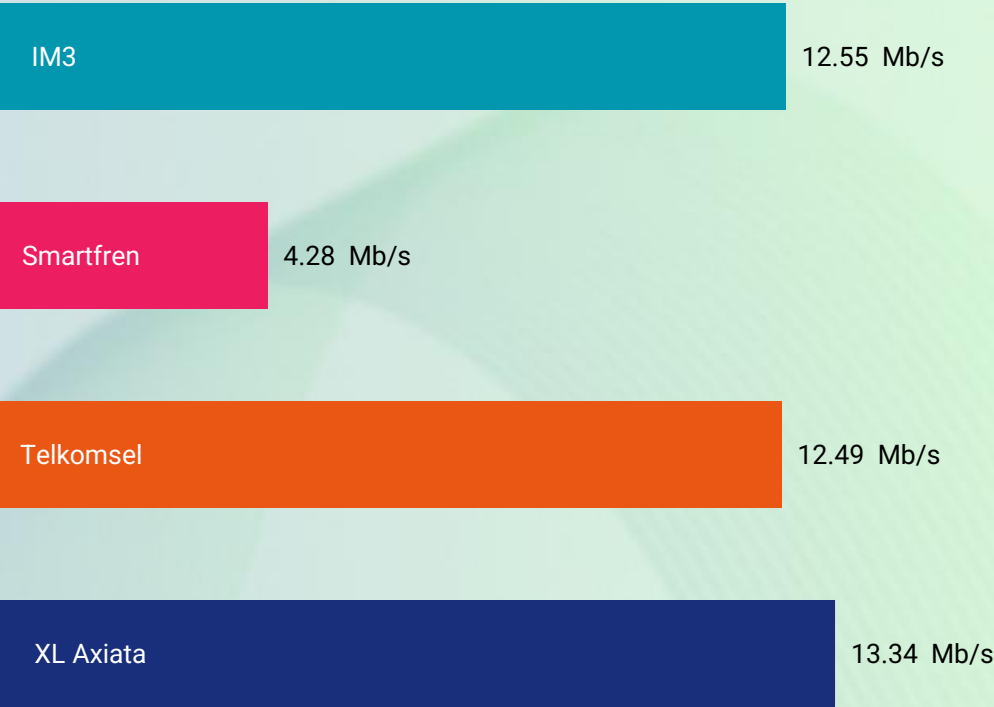
Download Speed evolution over the year (average)



Source : nPerf.com



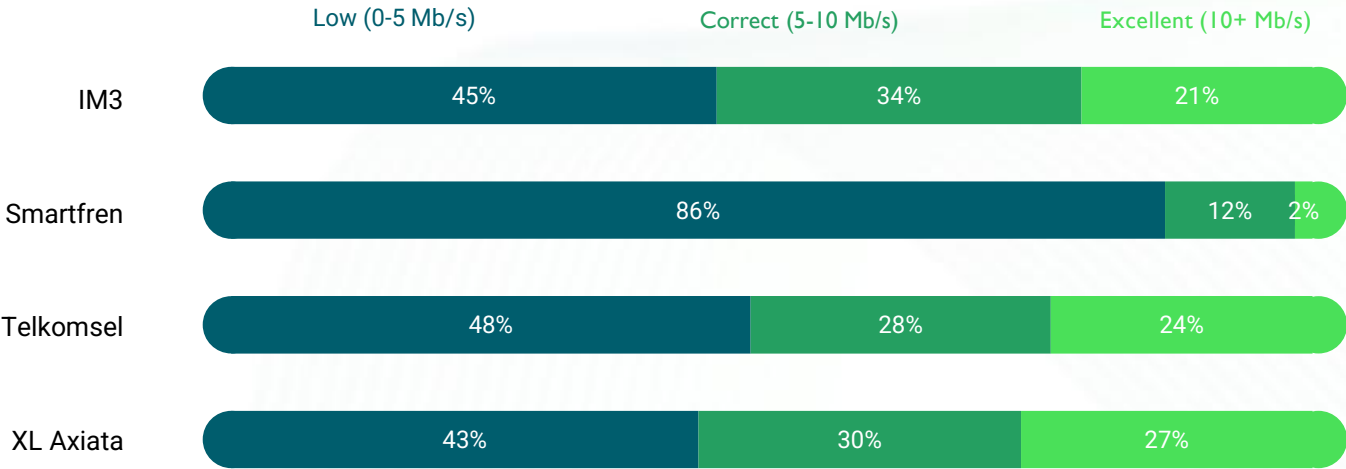
Upload Speed (average)



Source : nPerf.com

The subscribers of XL Axiata enjoyed the best average mobile Internet upload speed in 2025.

Upload Speed results ventilation (average)



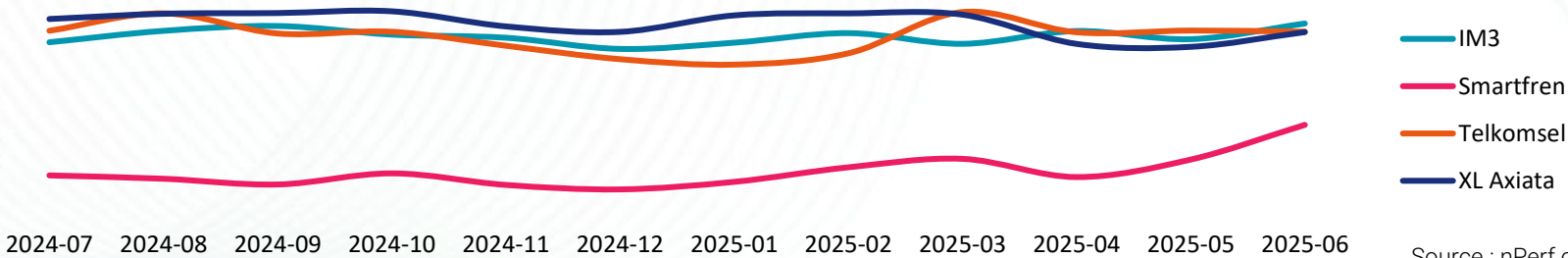
Source : nPerf.com

Upload Speed (average)



Source : nPerf.com

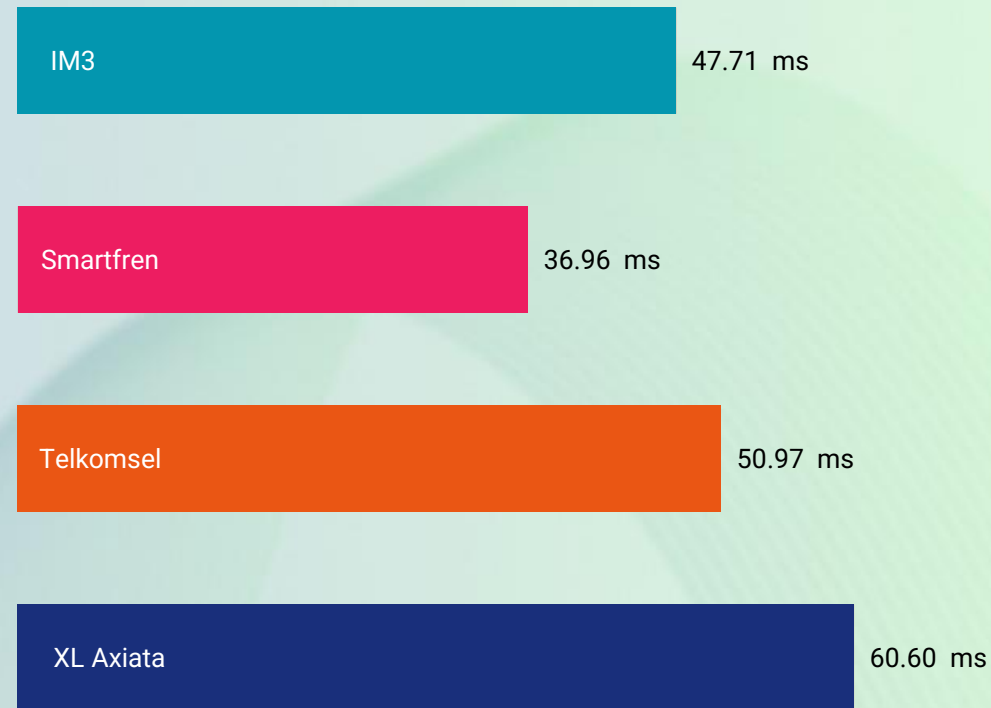
Upload Speed evolution over the year (average)



Source : nPerf.com



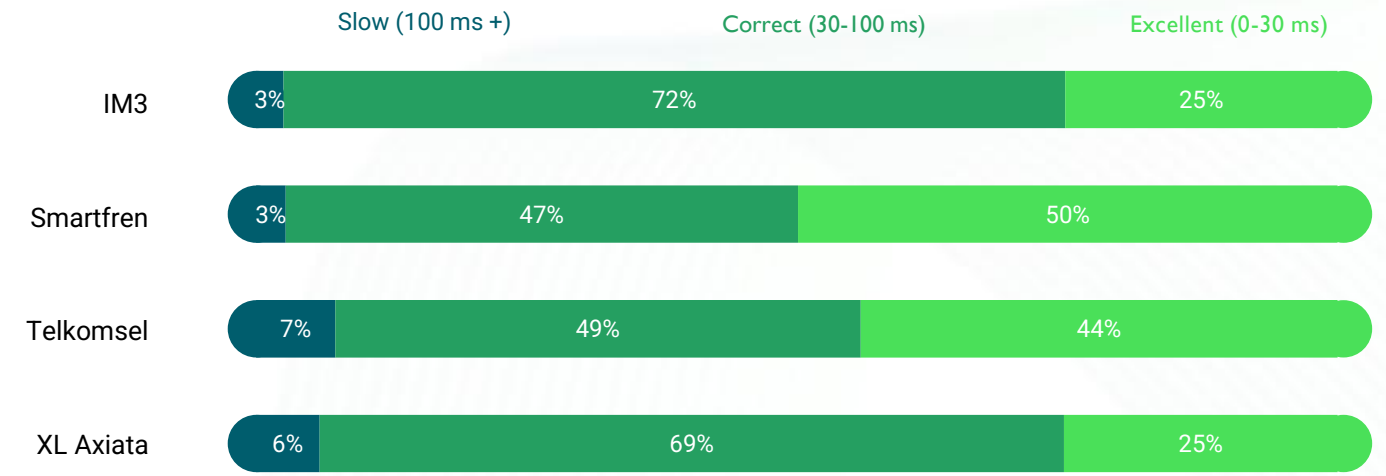
Latency Speed (average)



Source : nPerf.com

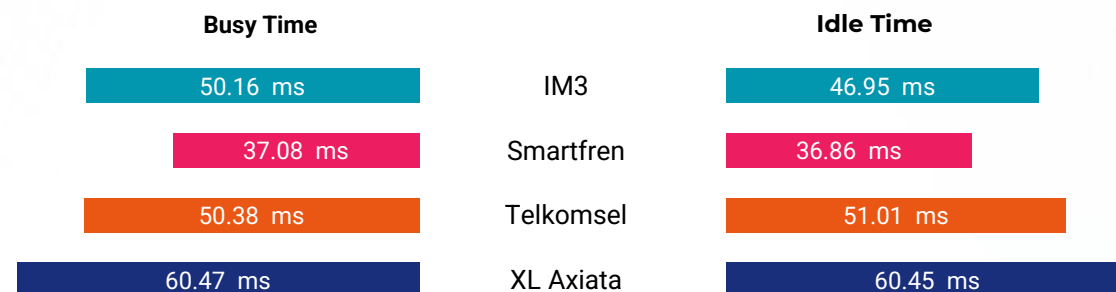
The subscribers of Smartfren enjoyed the best average mobile Internet latency speed in 2025.

Latency Speed results ventilation (average)



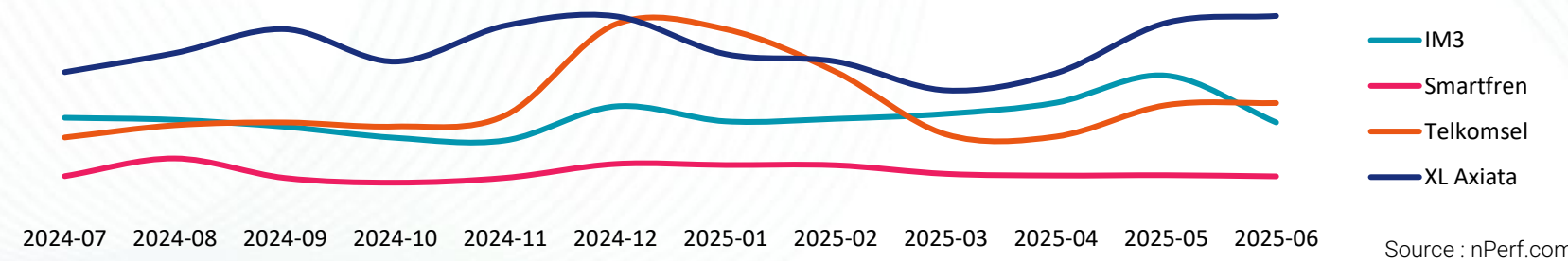
Source : nPerf.com

Latency Speed (average)



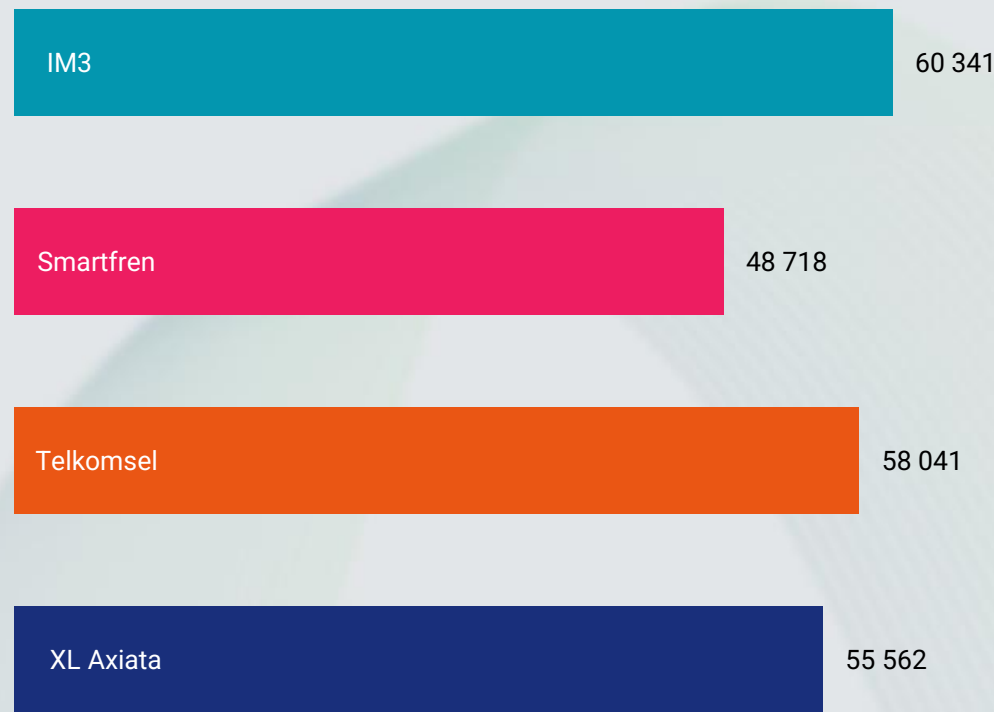
Source : nPerf.com

Latency Speed evolution over the year (average)



Source : nPerf.com

nPerf Score (nPoints)

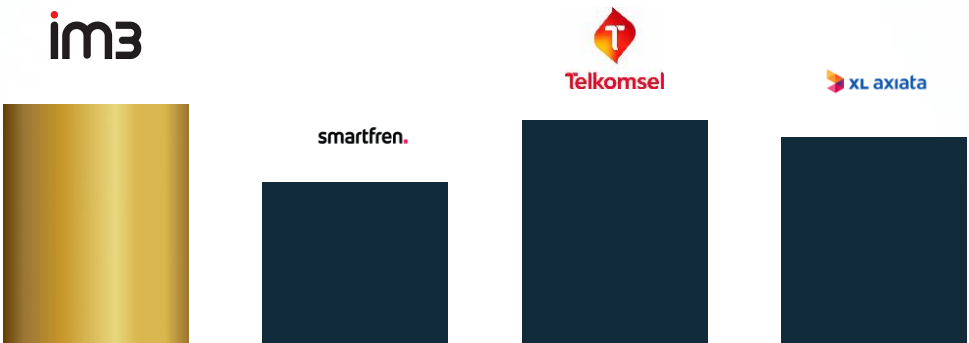


Source : nPerf.com

The subscribers of IM3 enjoyed the best 4G Internet performances in 2025.

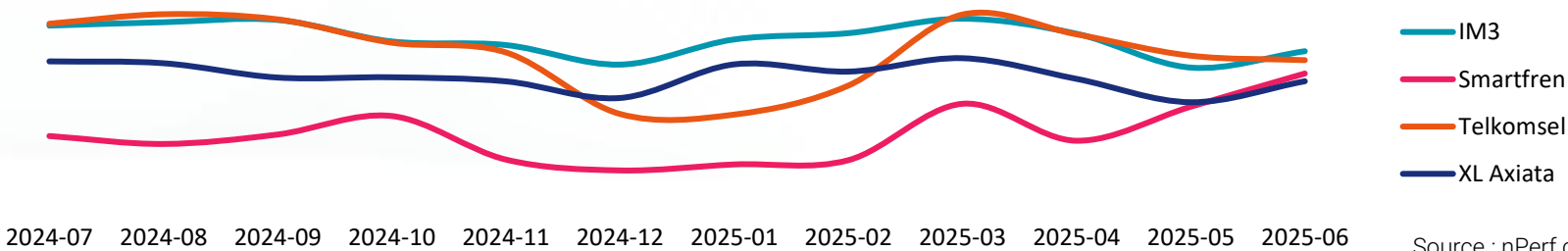
- Best performances 4G: IM3
- Best web browsing performances 4G: IM3
- Best video streaming performances 4G: IM3 and XL Axiata
- Fastest performances (Download) 4G: Telkomsel
- Fastest performances (Upload) 4G: XL Axiata
- 4G connections with the lowest latency: Smartfren

Source : nPerf.com



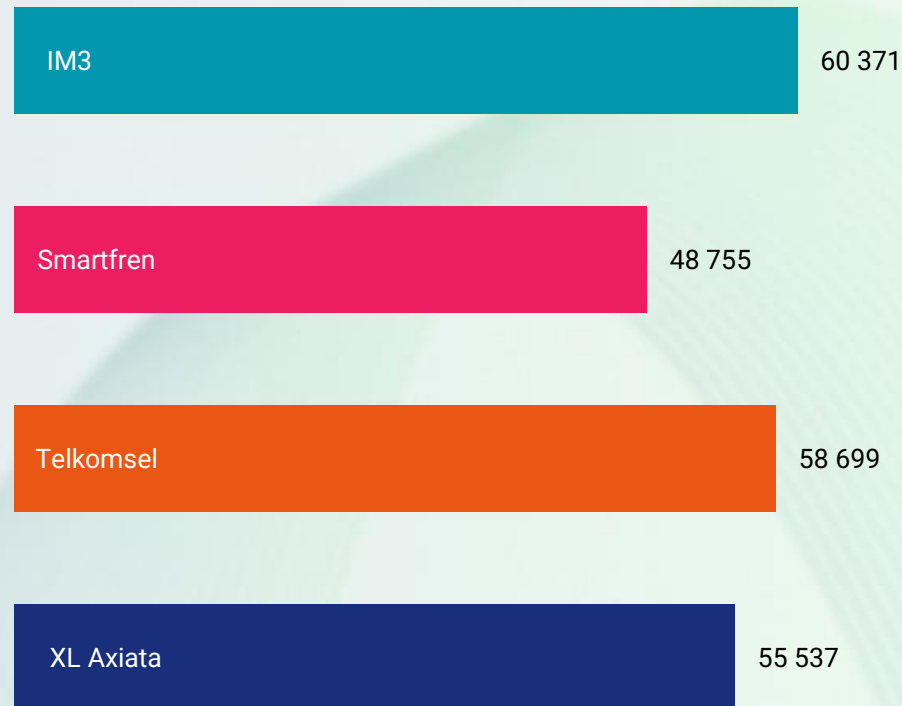
Source : nPerf.com

nPerf score evolution over the year (average)



Source : nPerf.com

nPerf Score (nPoints)



Source : nPerf.com

The subscribers of IM3 enjoyed the best mobile Internet performances in 2025.

The nPerf score takes into account the measured speedss, 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

im3
Best mobile Internet performance
in 2025



im3



Telkomsel

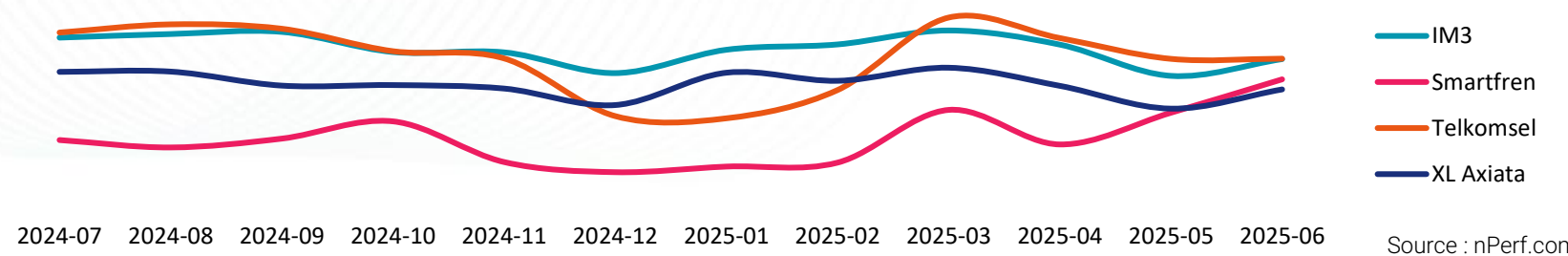


XL AXIATA



Source : nPerf.com

nPerf score evolution over the year (average)



Source : nPerf.com

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 entire frame. The lines are most prominent in the center and fade slightly towards the edges.

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