

July 2026



Barometer of mobile Internet connections in Indonesia

07/01/2025 - 06/30/2026



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1. Introducing nPerf



An independent authority in network performance

nPerf is an independent French Internet performance measurement platform, powered by real user experience. By turning millions of individual measurements into connectivity insights, nPerf helps operators enhance their networks and contributes to building a faster, more reliable Internet for everyone.

 **300k+** tests daily
worldwide.

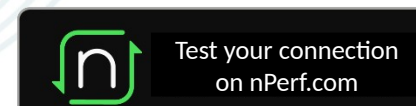
 **26Md+** coverage
scans in total.

 **3k+** servers all
around the world.

A comprehensive suite of tools to measure real-world connectivity

nPerf provides a complete ecosystem of complete measurement tools designed to capture the true quality of fixed, mobile, and Wi-Fi connections with precision, reaching speeds of up to 10 Gbps.

Users test. Operators learn. Everyone benefits.



2. Executive Summary



The subscribers of Smartfren enjoyed the best Mobile Internet performances in 2026 in Indonesia.

Mobile Internet performance in Indonesia

	IM3	Smartfren	Telkomsel	XL Axiata
▼ Download bitrates (Mb/s)	25.96	35.15	32.12	35.49
▲ Upload bitrates (Mb/s)	14.31	13.61	13.28	15.11
◀▶ Latency (ms)	48.35	42.68	48.03	61.88
🌐 Web browsing (%)	52.70	59.65	50.34	55.69
📺 Youtube streaming (%)	71.09	70.06	71.47	70.24
📶 nPerf Score (nPoints)	55 636	62 479	56 495	57 669

Source : nPerf.com

smartfren.

Best Mobile Internet
performance in 2026



Source : nPerf.com

nPerf Podium



Source : nPerf.com

The subscribers of Smartfren enjoyed the best 4G Internet in 2026 in Indonesia.

Mobile Internet performance in Indonesia

	IM3	<u>Smartfren</u>	Telkomsel	XL Axiata
 Download bitrates (Mb/s)	24.81	28.48	29.13	28.34
 Upload bitrates (Mb/s)	13.49	12.24	12.49	13.85
 Latency (ms)	49.12	43.07	49.23	63.08
 Web browsing (%)	52.16	59.21	49.77	55.07
 Youtube streaming (%)	70.40	69.06	70.75	69.35
 nPerf Score (nPoints)	54 209	59 025	54 443	54 191

Source : nPerf.com

3. Analysis



nPerf's latest barometer covering the period from July 2025 to June 2026 reveals a competitive and dynamic mobile Internet landscape in Indonesia. Four major operators — Smartfren, XL Axiata, Telkomsel, and IM3 — are measured across key performance indicators, painting a nuanced picture of a sector where no single player dominates across every dimension. Smartfren emerges as the standout overall leader, while XL Axiata and Telkomsel assert themselves in specific areas, and IM3 holds its ground in streaming quality.

Smartfren: Indonesia's Mobile Performance Leader in 2026

Smartfren has established itself as the top-performing operator in Indonesia for the 2025–2026 period, claiming the highest overall nPerf score of 62,479. This leadership is backed by consistent quality across the most impactful indicators: a Download speed of 35.15 Mb/s, a Latency of 42.68 ms — the best in the sector — a Web Browsing score of 59.65%, and a Youtube Streaming score of 70.06%. On 4G specifically, Smartfren maintains this dominant position with a score of 59,025, leading on Download speed (28.48 Mb/s), Latency (43.07 ms), Web Browsing (59.21%) and Youtube Streaming (69.06%). The breadth of Smartfren's advantage across both overall and 4G rankings reflects a well-rounded network strategy that delivers reliable quality to its users.

XL Axiata: Speed at the Forefront

XL Axiata ranks second in the overall standings with a nPerf score of 57,669, distinguishing itself as the fastest operator in the sector on both Download speed (35.49 Mb/s) and Upload speed (15.11 Mb/s) overall. Its Youtube Streaming score of 70.24% is notably the highest across all operators in the overall category. On 4G, XL Axiata leads on Upload speed (13.85 Mb/s) and Youtube Streaming (69.35%), though its 4G overall score of 54,191 places it fourth in that segment — largely due to its Latency of 63.08 ms, the highest recorded among all operators. XL Axiata's raw throughput performance is a genuine competitive asset, confirming the operator's investment in network capacity.

Telkomsel: A Solid Presence Across the Board

Telkomsel holds third place overall with a nPerf score of 56,495, reflecting a steady and well-distributed performance. The operator ranks first on 4G Download speed (29.13 Mb/s) alongside Smartfren, and achieves a Youtube Streaming score of 71.47% overall — the highest streaming score in the entire sector. On 4G, Telkomsel scores 54,443, placing second in that segment, with a Youtube Streaming score of 70.75%. As Indonesia's largest operator by subscriber base, Telkomsel's ability to maintain competitive KPIs across a vast network is a meaningful achievement in itself.

IM3: Competitive in Streaming, Room to Grow

IM3 ranks fourth overall with a nPerf score of 55,636, and fourth on 4G with 54,209. The operator leads on Upload speed (14.31 Mb/s) in the overall category and ranks second on Upload (13.49 Mb/s) on 4G, signalling solid uplink network quality. Its Youtube Streaming scores — 71.09% overall and 70.40% on 4G — place it among the leaders in this indicator. However, IM3's Download speed of 25.96 Mb/s overall and 24.81 Mb/s on 4G are the lowest in the sector, representing a clear gap to close relative to its competitors.

What to Watch in the Next Barometer

The Indonesian mobile sector remains tightly contested, with score differences between operators often narrow enough to shift rankings with targeted network investment. For Smartfren, the priority will be maintaining its multi-KPI leadership, particularly defending its Latency advantage and Web Browsing performance as competitors close the gap. XL Axiata must work on reducing its 4G Latency — currently a notable weakness — while preserving its throughput edge to consolidate a stronger overall ranking. Telkomsel should focus on improving its Web Browsing score (50.34% overall), which is currently the lowest in the sector, to complement its strong streaming performance. IM3, meanwhile, has the clearest structural challenge: accelerating its Download speed to move closer to the sector average and become a more balanced contender in future editions of the nPerf barometer.

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

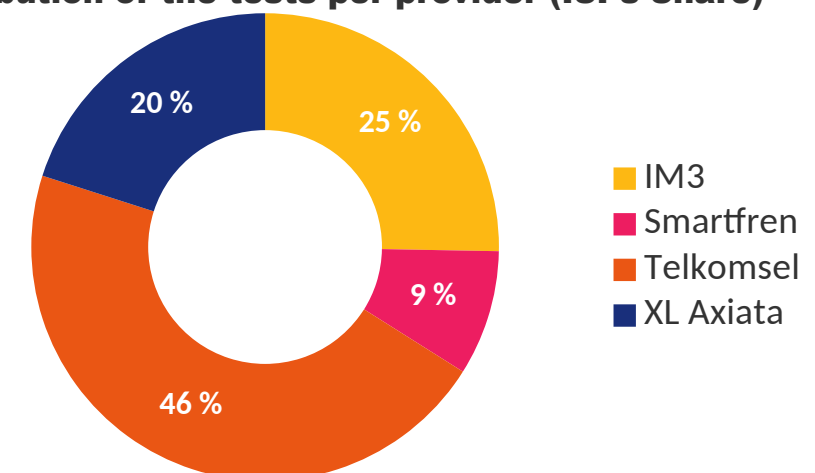
The video streaming test gauges the load time of a fully loaded video in three resolutions on YouTube, considering stalls during playback. This indicator reflects the perceived quality by the user.

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 1.2% 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 takes into account 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)



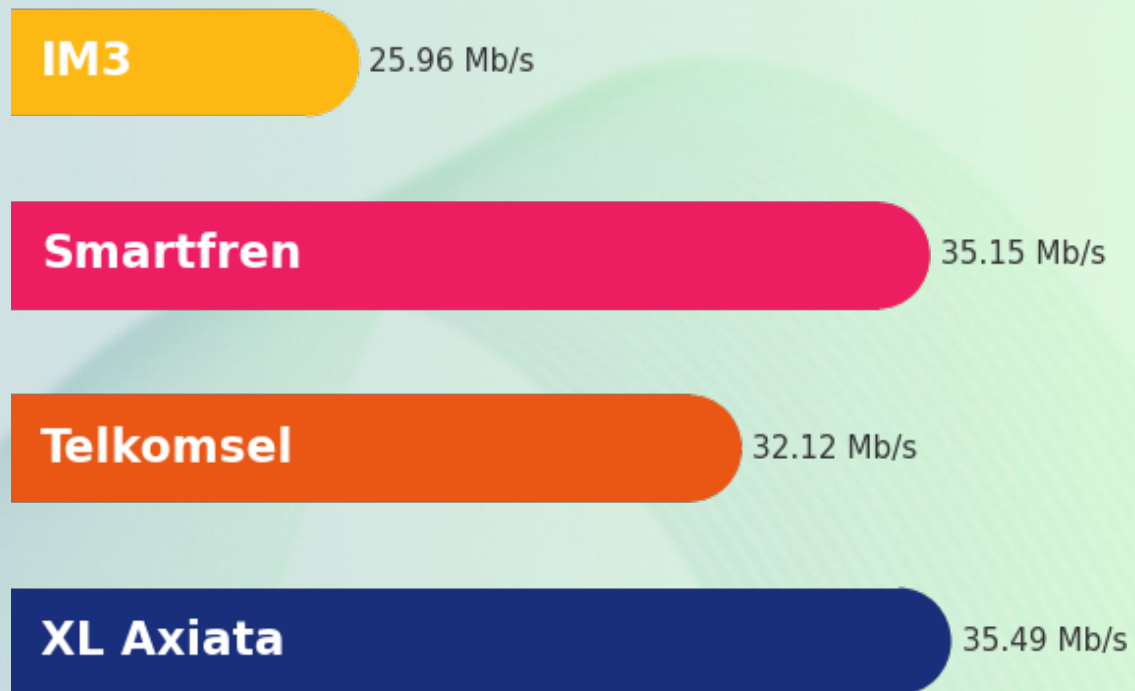
Source : nPerf.com



Download Speed



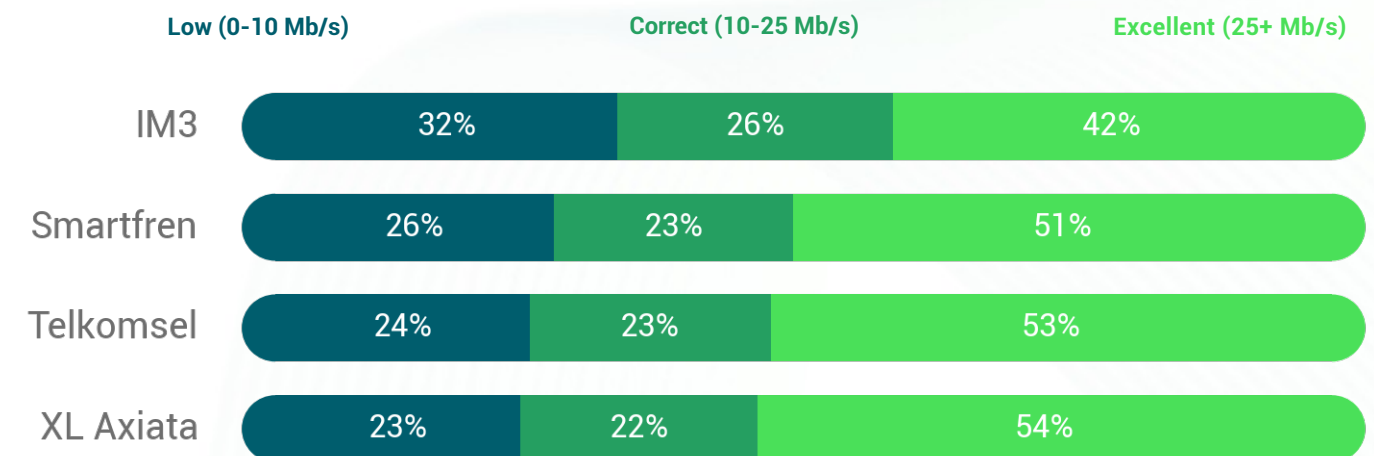
Download Speed (average)



Source : nPerf.com

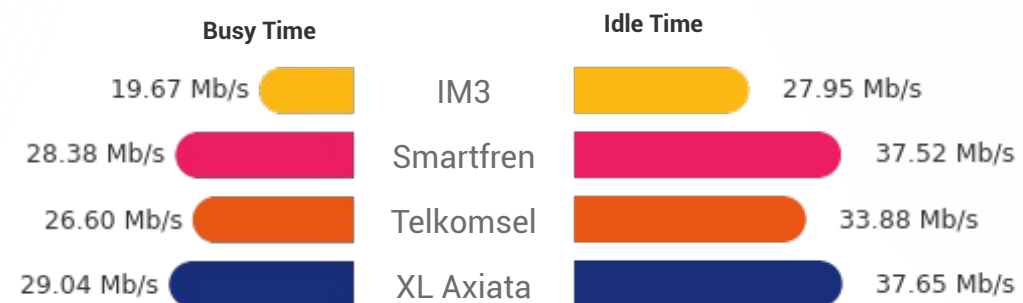
The subscribers of Smartfren and XL Axiata enjoyed the best Mobile Internet Download Speed in 2026.

Download Speed results distribution (average)



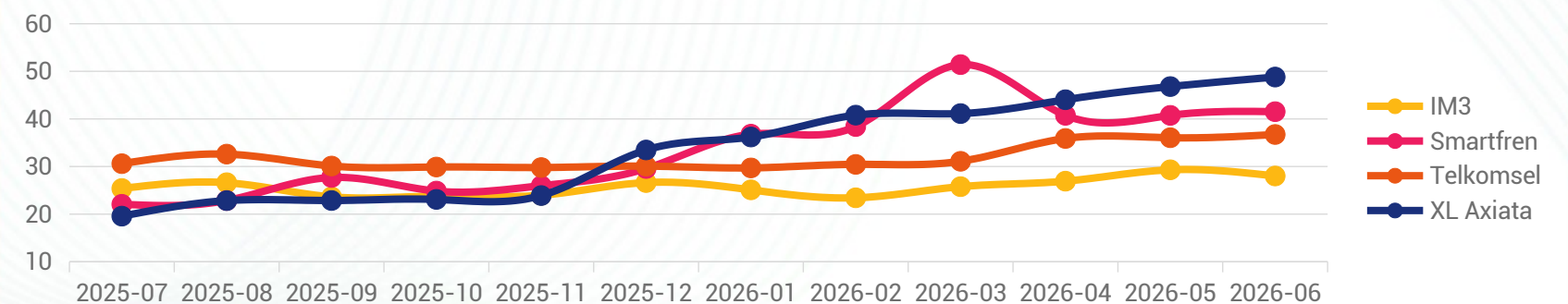
Source : nPerf.com

Download Speed (average)



Source : nPerf.com

Download Speed evolution over the year (average)



Source : nPerf.com



Upload Speed



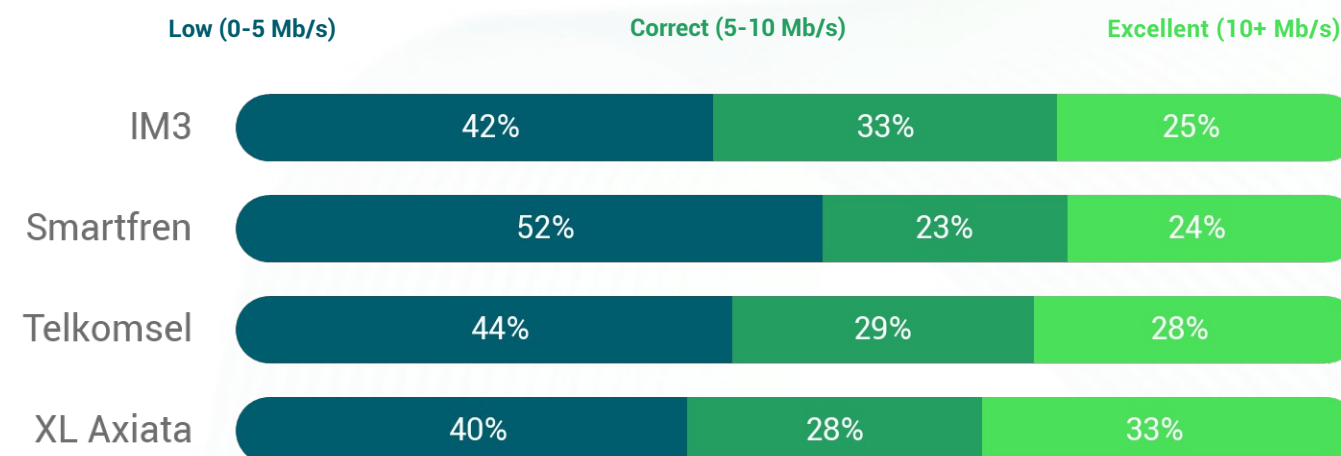
Upload Speed (average)



Source : nPerf.com

The subscribers of XL Axiata enjoyed the best Mobile Internet Upload Speed in 2026.

Upload Speed results distribution (average)



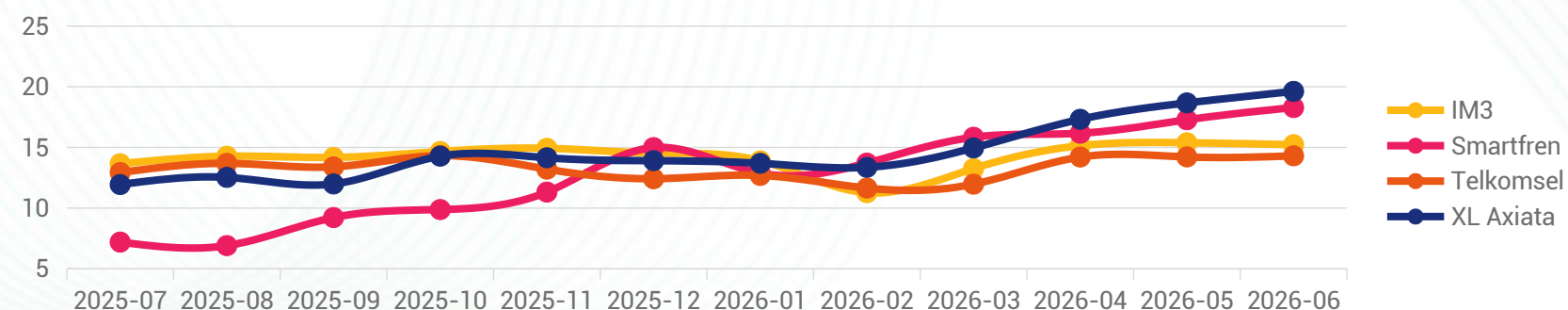
Source : nPerf.com

Upload Speed (average)



Source : nPerf.com

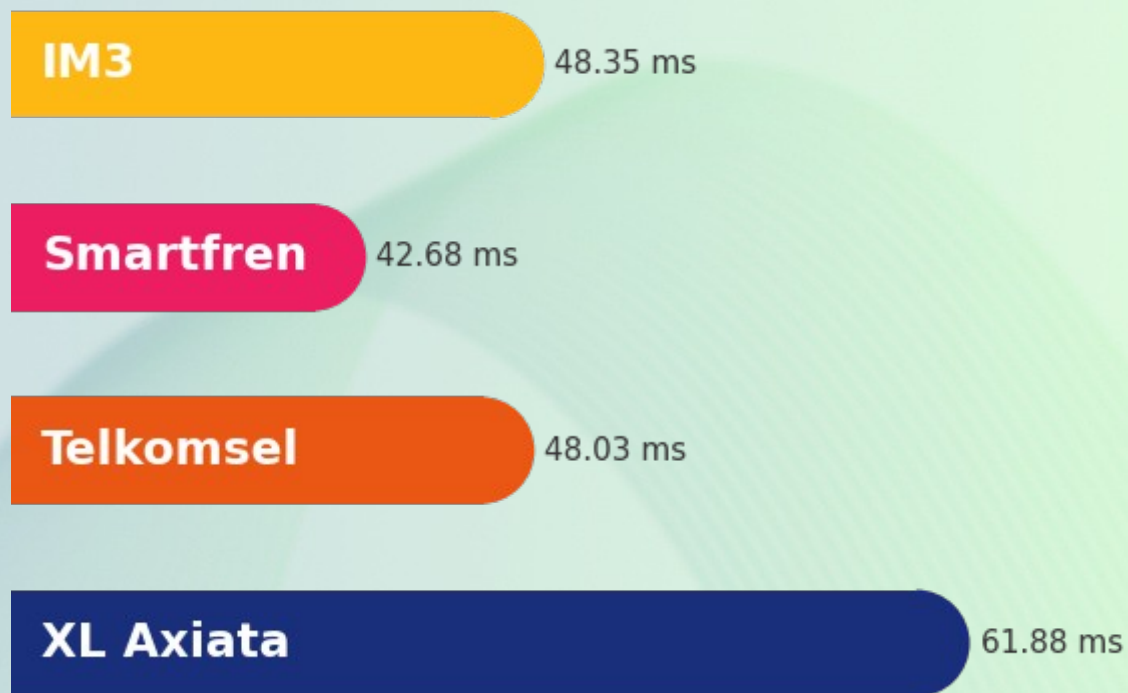
Upload Speed evolution over the year (average)



Source : nPerf.com



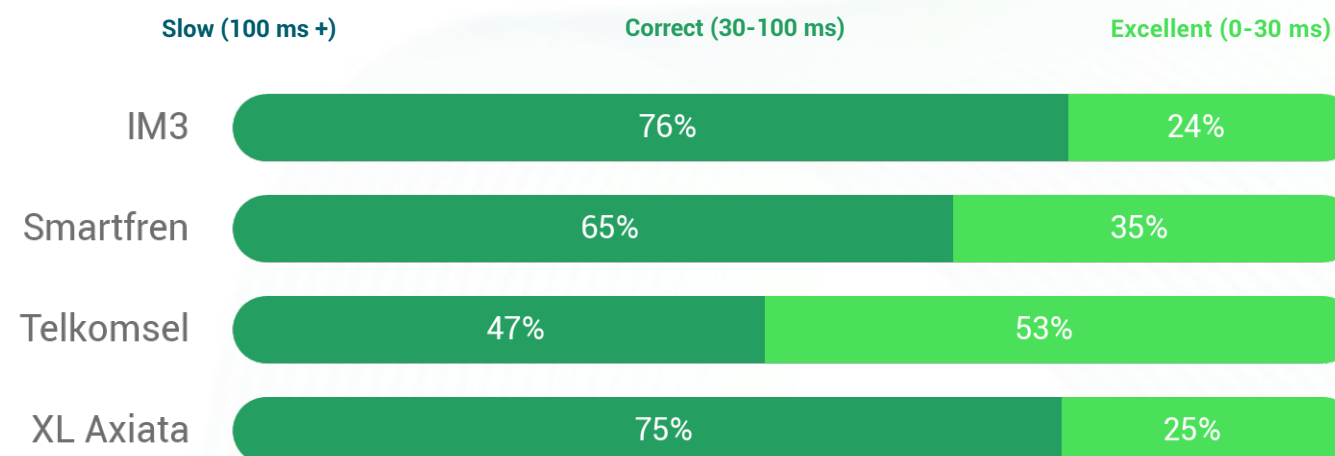
Latency (average)



Source : nPerf.com

The subscribers of Smartfren enjoyed the best Mobile Internet Latency in 2026.

Latency results distribution (average)



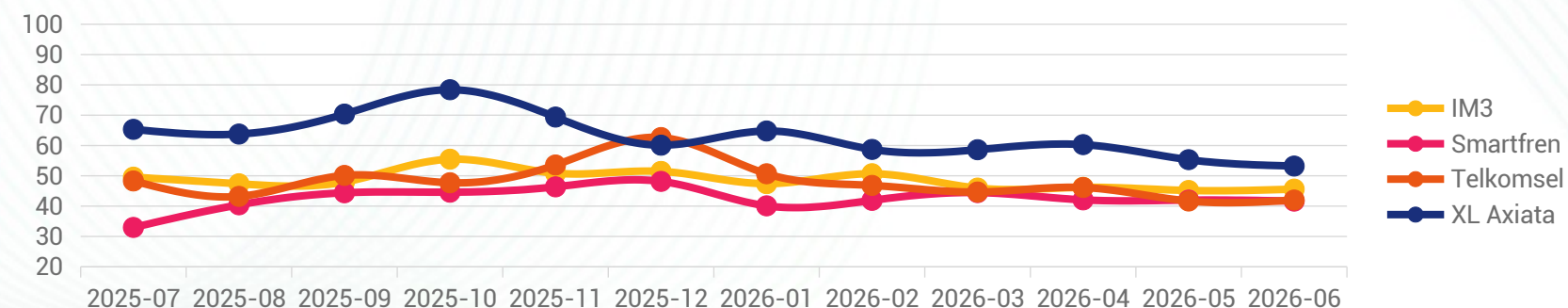
Source : nPerf.com

Latency (average)



Source : nPerf.com

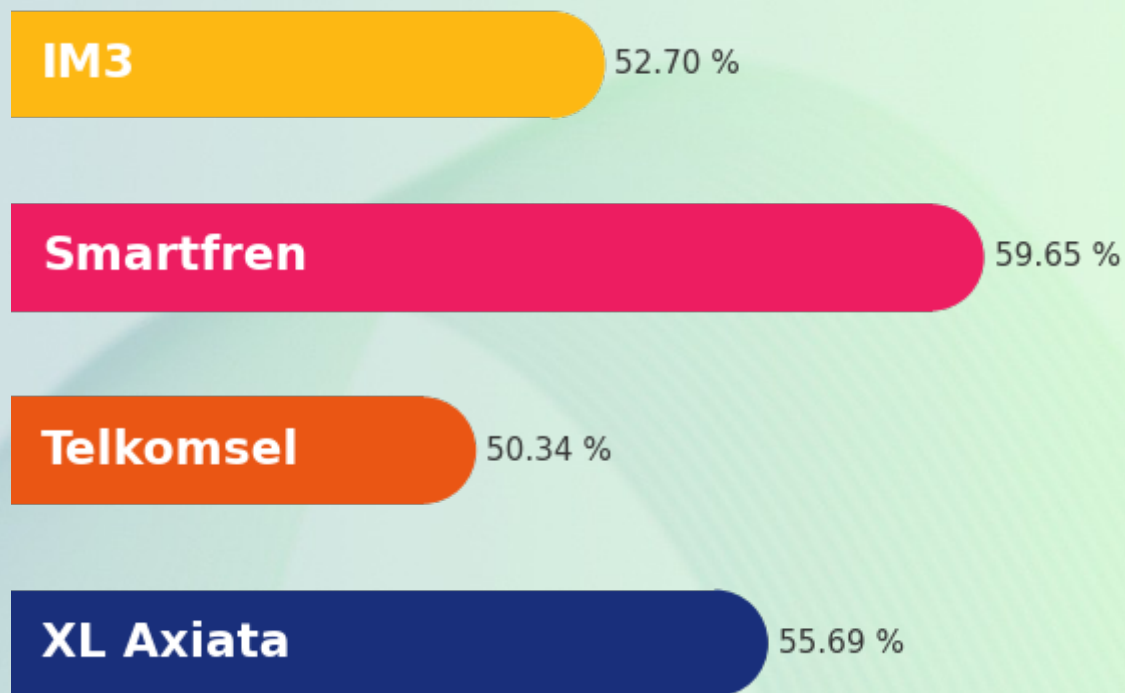
Latency evolution over the year (average)



Source : nPerf.com



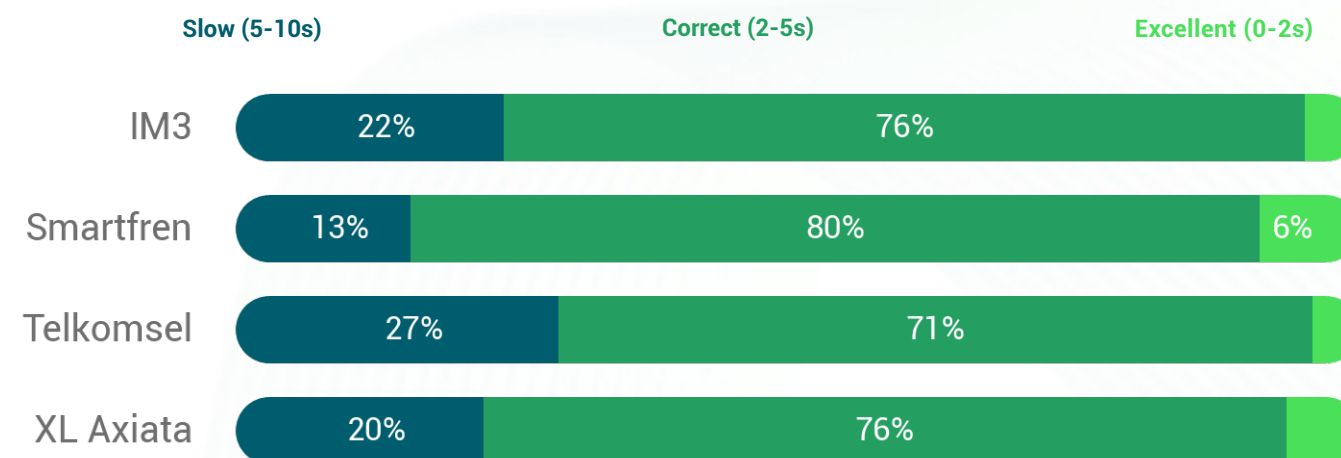
Browsing Performance (average)



Source : nPerf.com

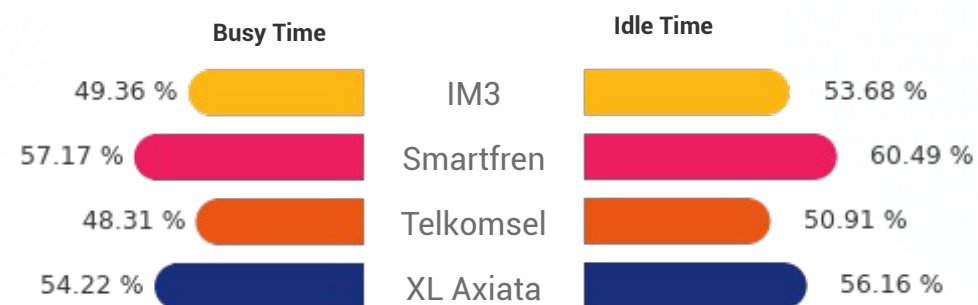
The subscribers of Smartfren enjoyed the best Mobile Internet Browsing Performance in 2026.

Browsing Performance results distribution (average)



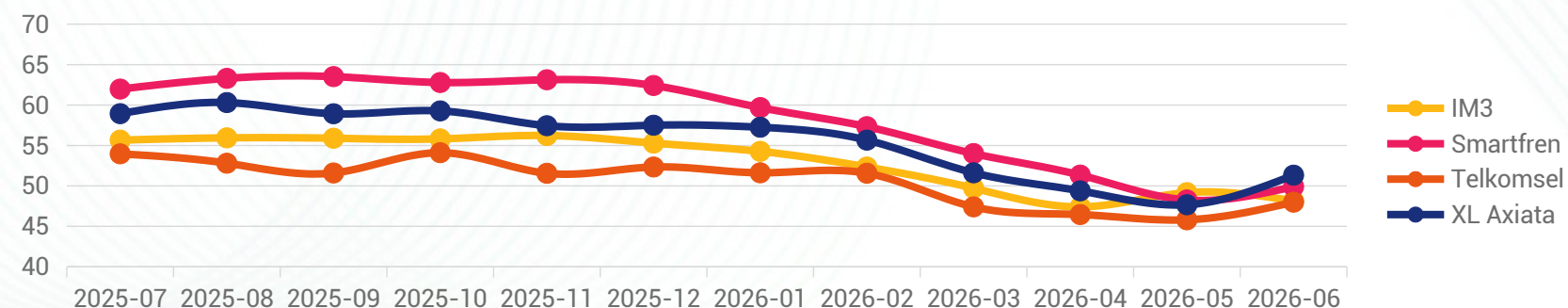
Source : nPerf.com

Browsing Performance (average)



Source : nPerf.com

Browsing Performance evolution over the year (average)



Source : nPerf.com



Streaming Performance



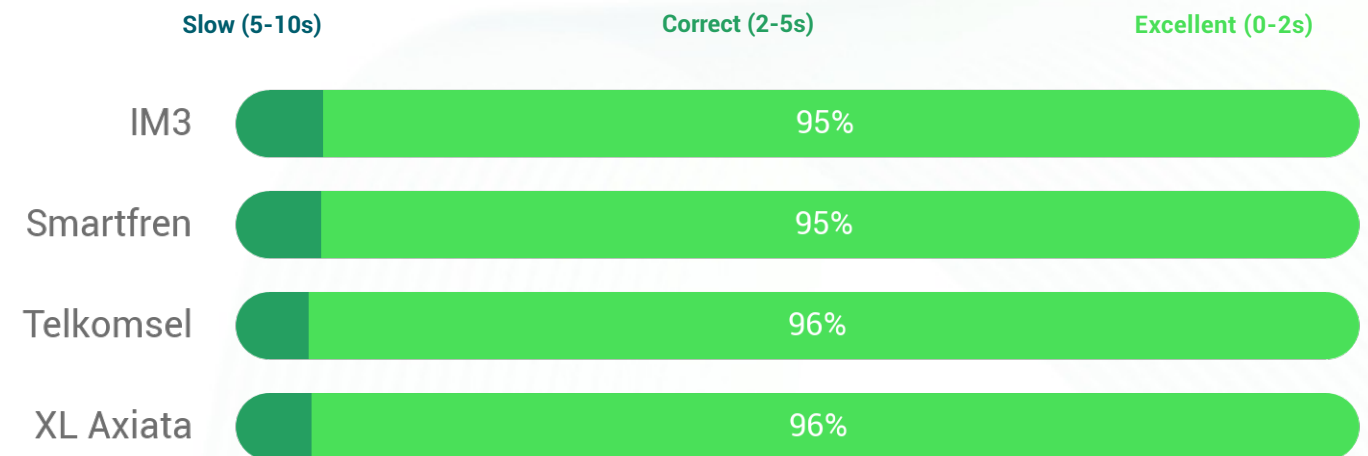
Streaming Performance (average)



Source : nPerf.com

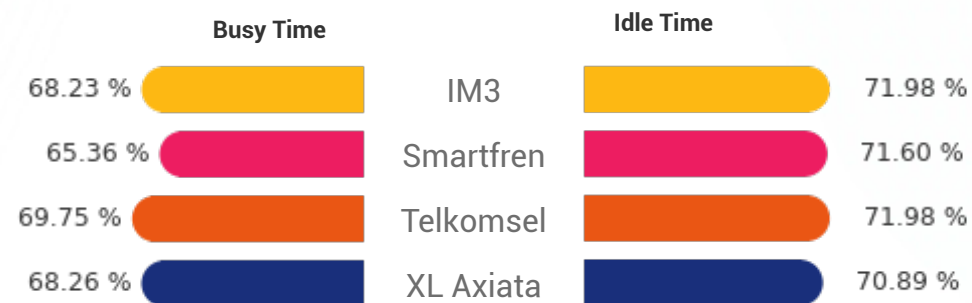
The subscribers of IM3, Smartfren, Telkomsel and XL Axiata enjoyed the best Mobile Internet Streaming Performance in 2026.

Streaming Performance results distribution (average)



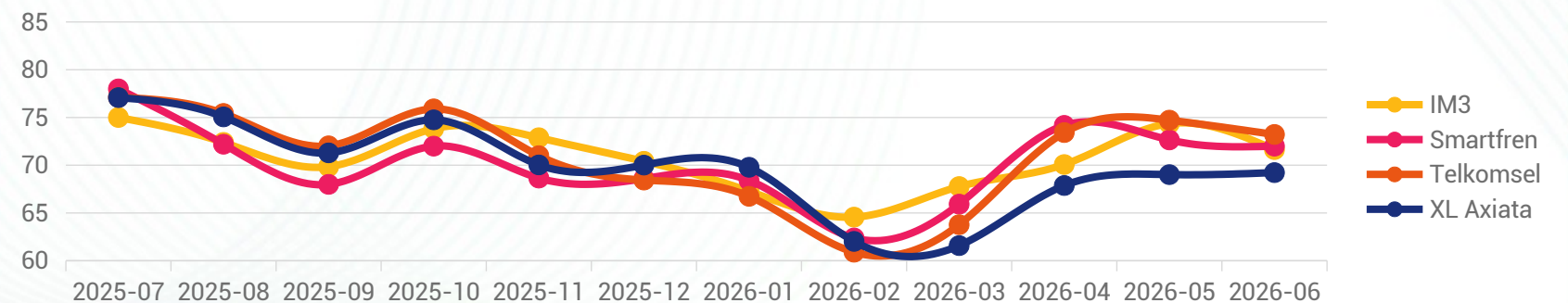
Source : nPerf.com

Streaming Performance (average)



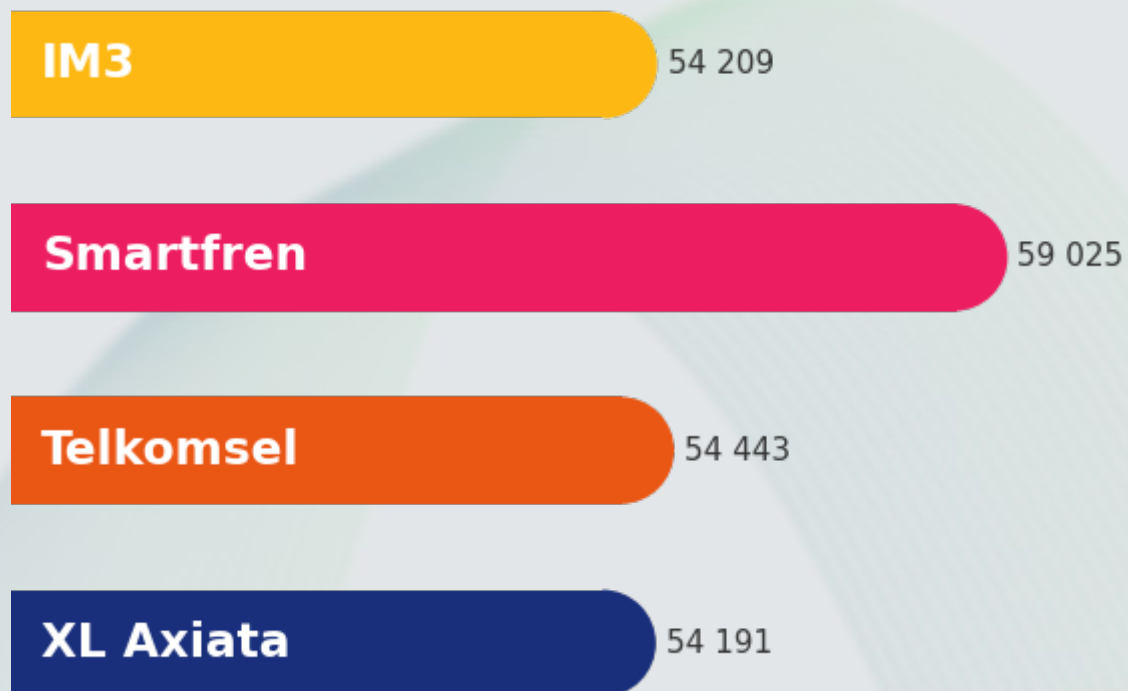
Source : nPerf.com

Streaming Performance evolution over the year (average)



Source : nPerf.com

nPerf QoE nPerf Score (nPoints)



Source : nPerf.com

The subscribers of Smartfren enjoyed the best 4G Internet in 2026.

Best performances 4G: Smartfren

Fastest performances (Download Speed) 4G: Smartfren and Telkomsel

Fastest performances (Upload Speed) 4G: XL Axiata

4G connections with the lowest latency: Smartfren

Best web browsing performances 4G: Smartfren

Best streaming performances 4G: IM3, Smartfren, Telkomsel and XL Axiata

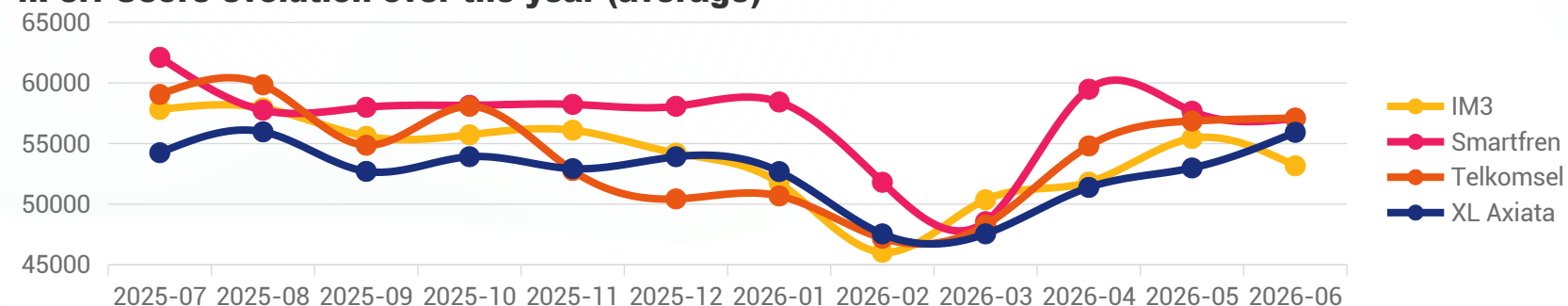
Source : nPerf.com

nPerf Podium



Source : nPerf.com

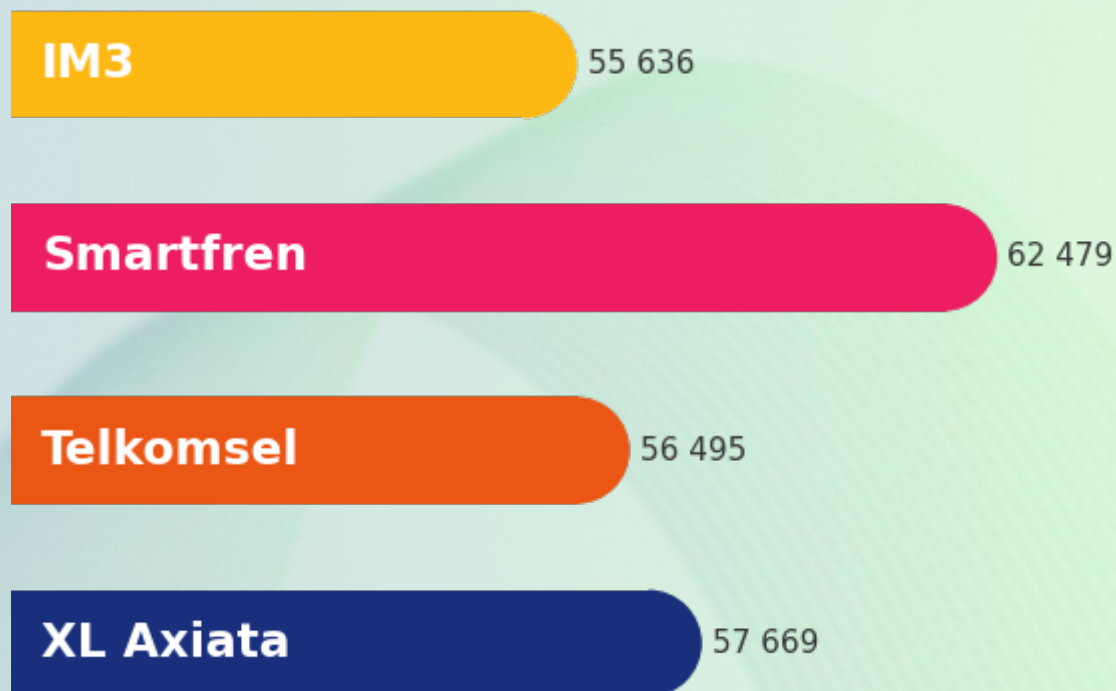
nPerf Score evolution over the year (average)



Source : nPerf.com



nPerf QoE nPerf Score (nPoints)



Source : nPerf.com

The subscribers of Smartfren enjoyed the best Mobile Internet performances in 2026.

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

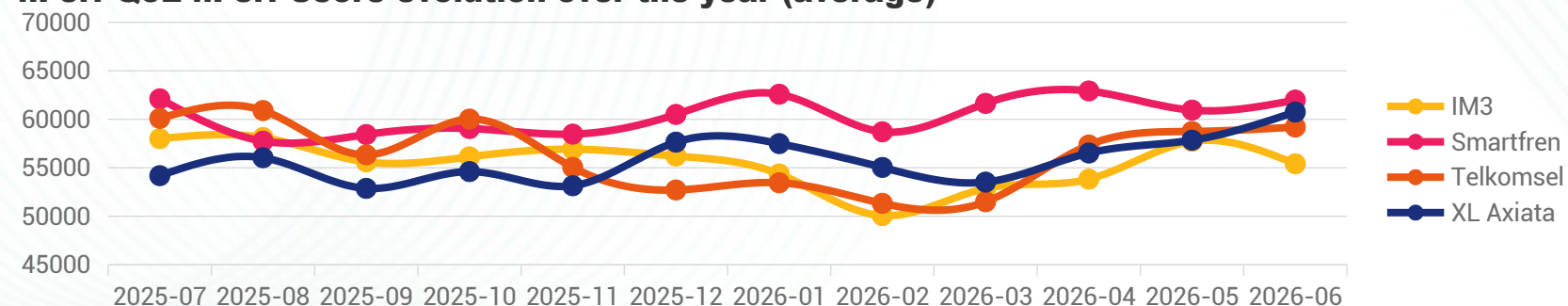
smartfren.

Best Mobile Internet performance in 2026



Source : nPerf.com

nPerf QoE nPerf Score evolution over the year (average)



Source : nPerf.com

