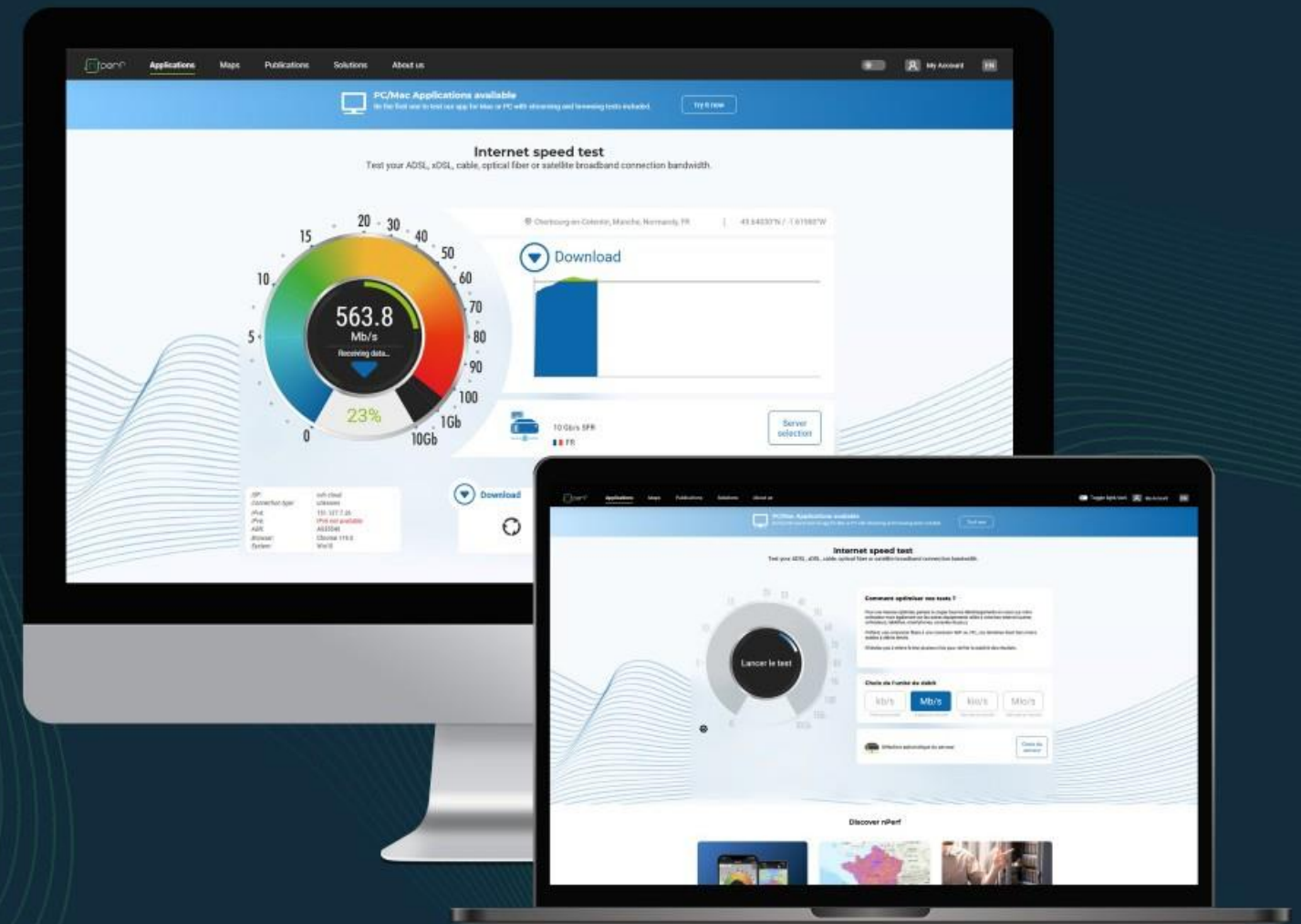


July 18, 2024



# Barometer of fixed Internet connections in Indonesia

01/07/2023 - 30/06/2024



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### 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  
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### Test your Internet connection with nPerf!

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## 2. Executive Summary



The subscribers of CBN and Oxygen.id Home enjoyed the best fixed Internet performances in Indonesia during 2024.

Fixed Internet connections in Indonesia

	CBN	IndiHome / Telkom	MyRepublic	Oxygen.id Home
▼ Download bitrates (Mb/s)	71.26	47.62	57.78	100.09
▲ Upload bitrates (Mb/s)	68.85	32.07	57.64	90.63
◀▶ Latency (ms)	16.49	34.27	22.30	21.83
🌐 Web browsing (%)	58.62	55.33	58.78	61.02
📺 Youtube streaming (%)	80.58	78.28	72.48	77.84
📊 nPerf Score (nPoints)	95 790	74 697	83 808	97 413

Source : nperf.com



Best fixed Internet performance  
in 2024



Source : nperf.com



Source : nperf.com



### Introduction

In Indonesia's telecommunications market, CBN and Oxygen share the leading position, followed by MyRepublic in third place, and IndiHome/Telkom in last. This ranking highlights the strengths and performance levels of each internet service provider (ISP) in areas such as latency, download and upload speeds, web browsing, and YouTube streaming.

### CBN and Oxygen lead the market

CBN and Oxygen stand out as the top performers. CBN leads with impressive latency at 16.49 ms and YouTube streaming score of 80.58. Oxygen excels in download speed (100.09 Mbps), upload speed (90.63 Mbps), and web browsing score (61.02). These strong metrics position both ISPs at the forefront of the market, offering high-quality internet services.

### MyRepublic: solid latency performance

MyRepublic secures the third position with a good latency score of 22.30 ms. While not leading in other areas, MyRepublic provides reliable service that meets the needs of many users, particularly those focused on latency-sensitive activities.

### IndiHome/Telkom: lagging behind

In the last position, IndiHome/Telkom significantly trails its competitors with an average score of 74697 nPoints. This performance does not allow IndiHome/Telkom to compete effectively in the Indonesian telecommunications market, impacting its appeal to users.

### Conclusion

The Indonesian telecommunications market is led by CBN and Oxygen, with CBN excelling in latency and YouTube streaming, and Oxygen dominating in download and upload speeds and web browsing. MyRepublic holds the third position with solid latency performance, while IndiHome/Telkom lags behind in the last position. This competitive landscape offers users a variety of options based on their specific needs, whether they prioritize speed, latency, or overall reliability.

## 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.

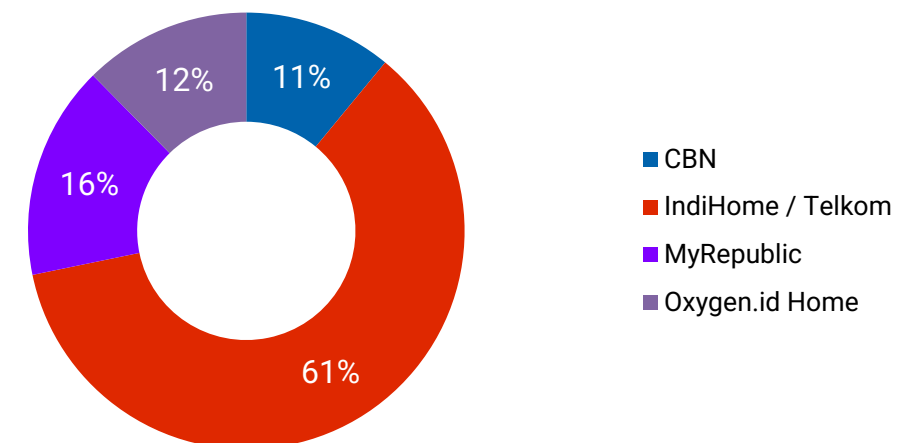
- ▼ **Download bitrate:**  
Indicates the amount of data your connection can receive in one second from the nPerf server. The highest the measured value, the best is the bitrate of your connection.
- ▲ **Upload bitrate:**  
Indicates the amount of data your connection can send in one second from the 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 1.1% 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.

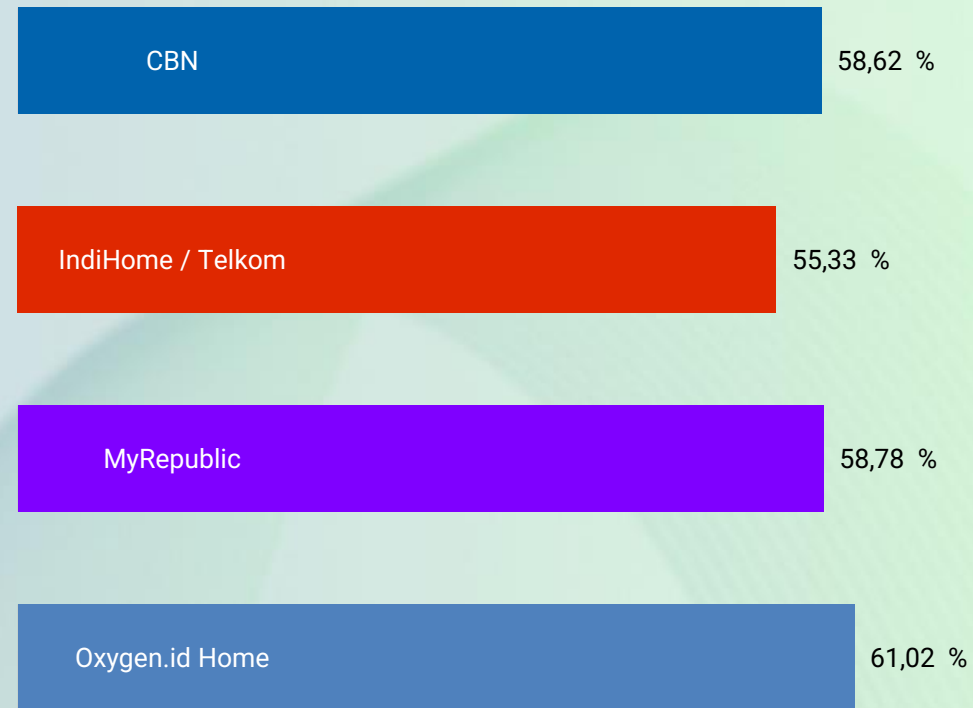
Overall distribution of the tests per provider (ISPs Share)



Source : nperf.com



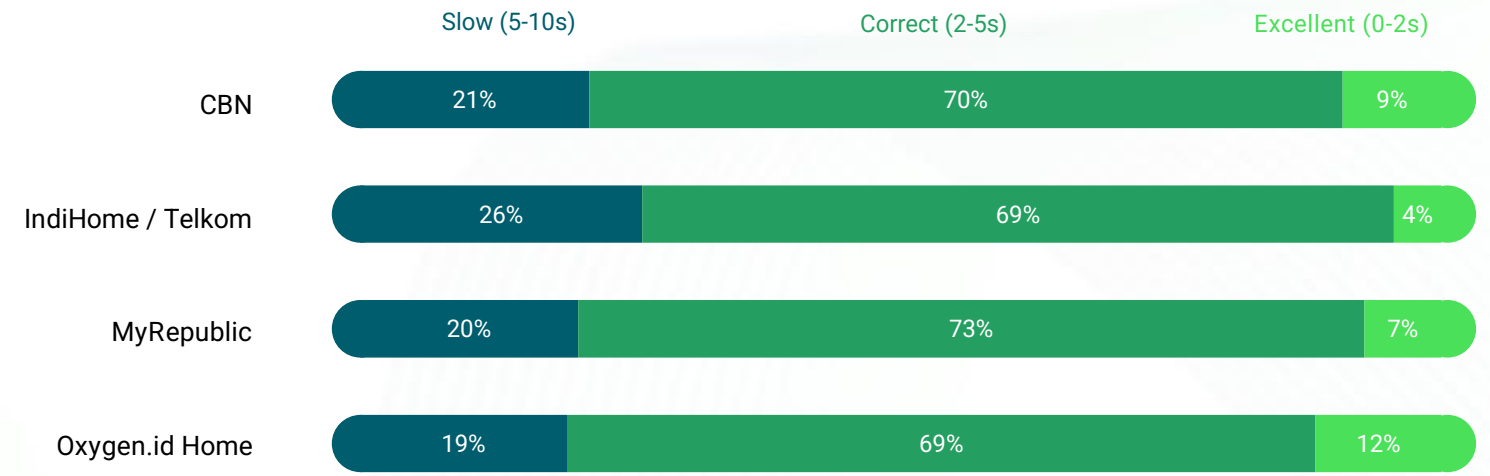
## Browsing Performance rate (average)



Source : nperf.com

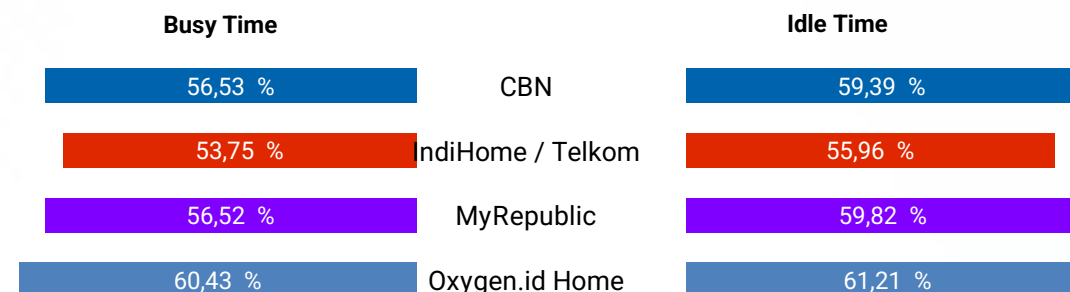
The subscribers of Oxygen.id Home enjoyed the best fixed Internet browsing performance in 2024.

## Browsing Performance results ventilation (average)



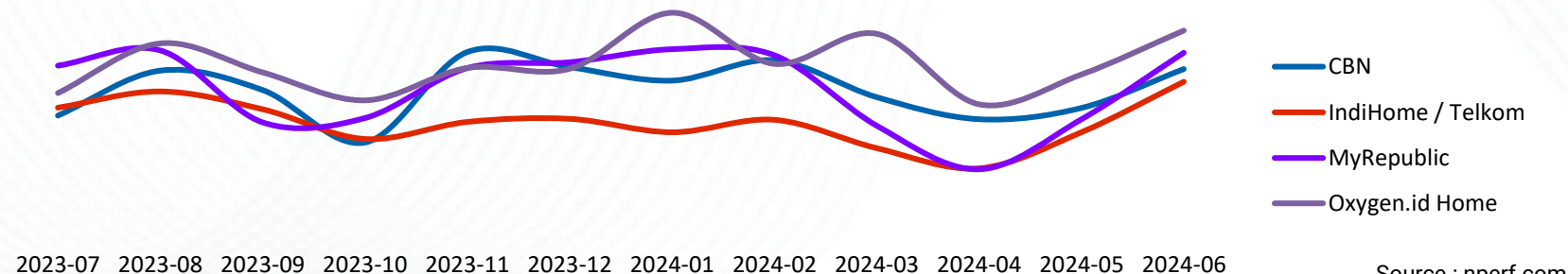
Source : nperf.com

## Browsing Performance rate (average)



Source : nperf.com

## Browsing performance rate (average) evolution over the year

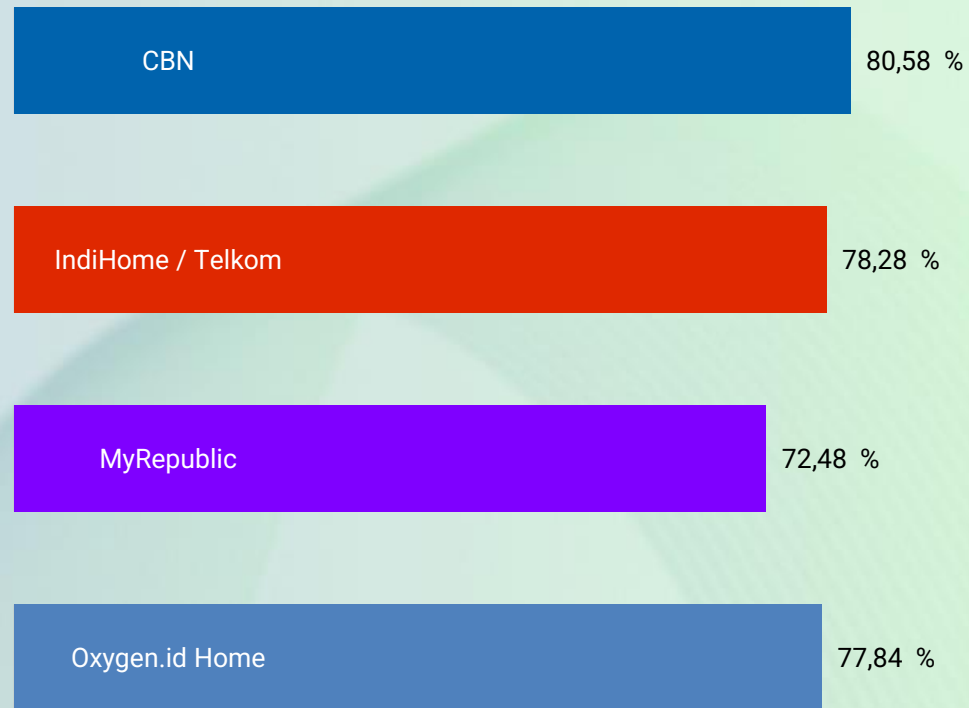


Source : nperf.com





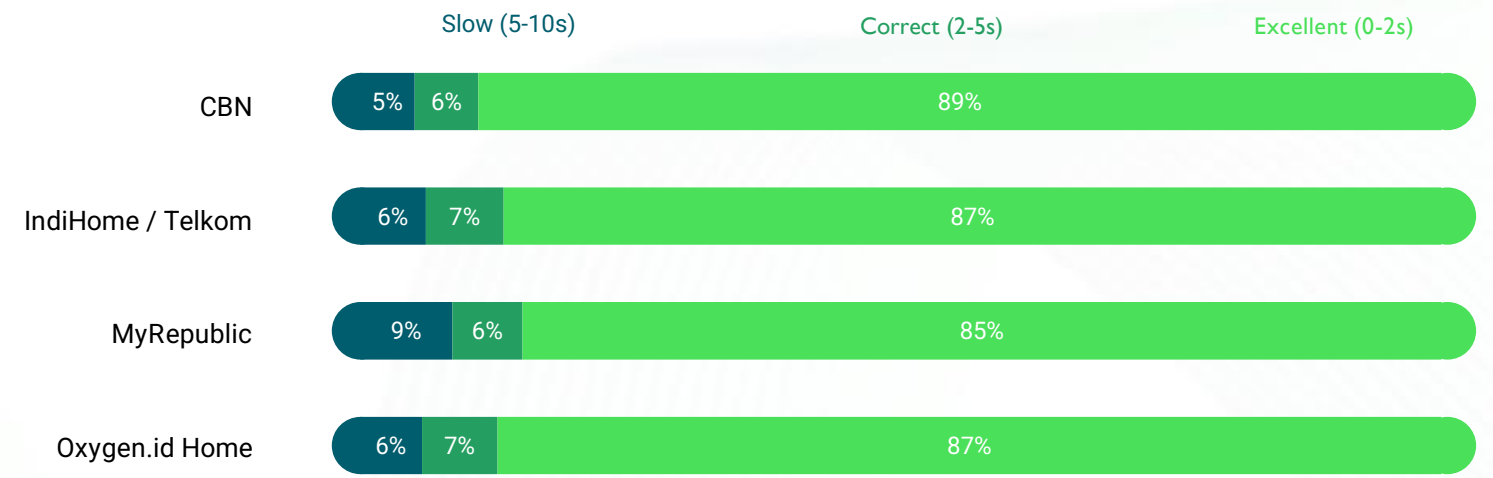
## Streaming Performance rate (average)



Source : nperf.com

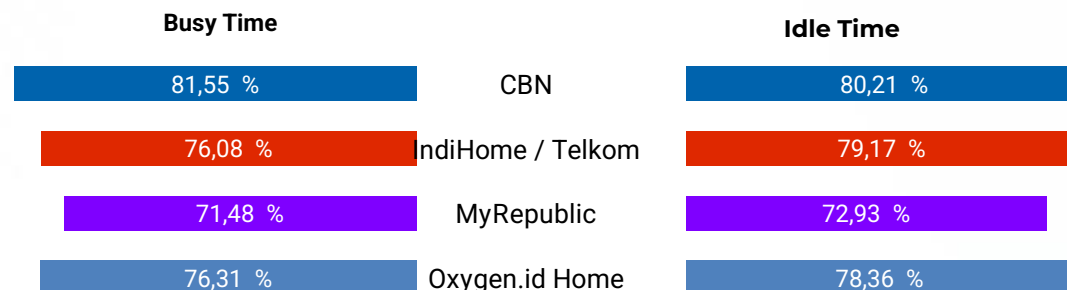
The subscribers of CBN enjoyed the best fixed Internet streaming performance in 2024.

## Streaming Performance results ventilation (average)



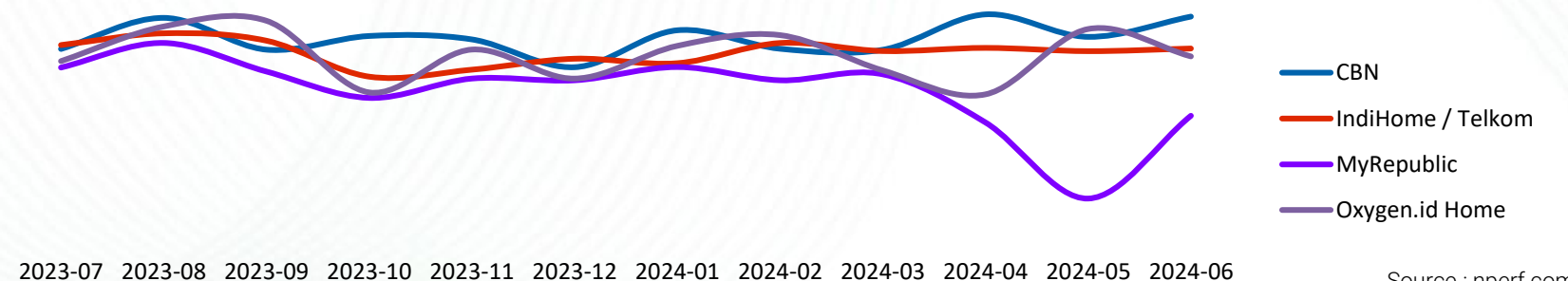
Source : nperf.com

## Streaming Performance rate (average)



Source : nperf.com

## Streaming performance rate (average) evolution over the year

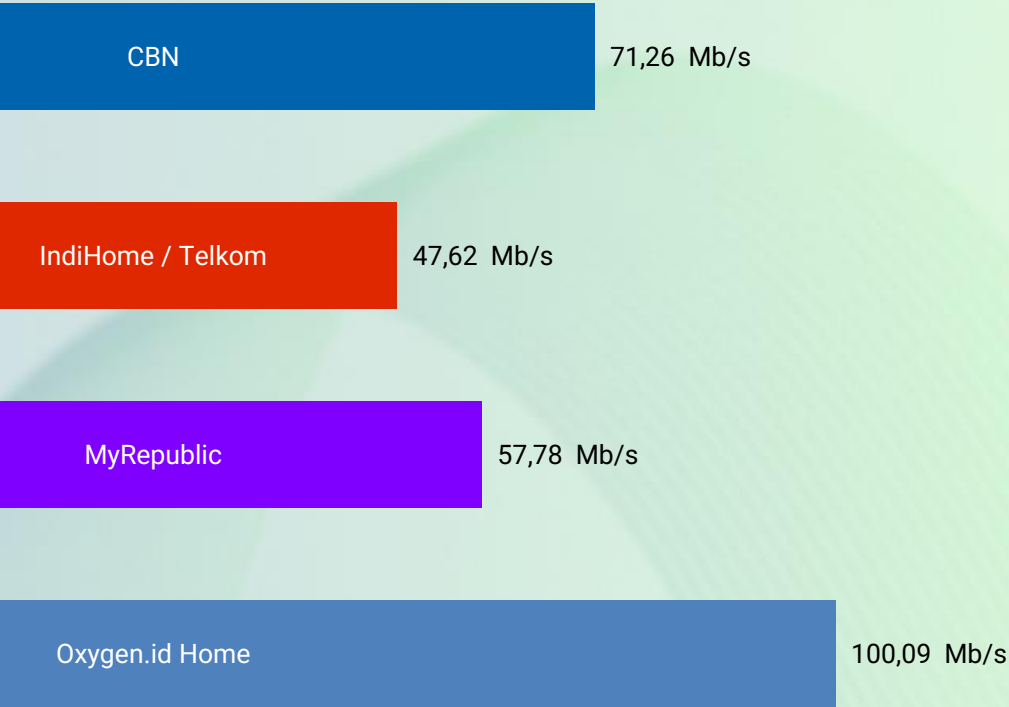


Source : nperf.com





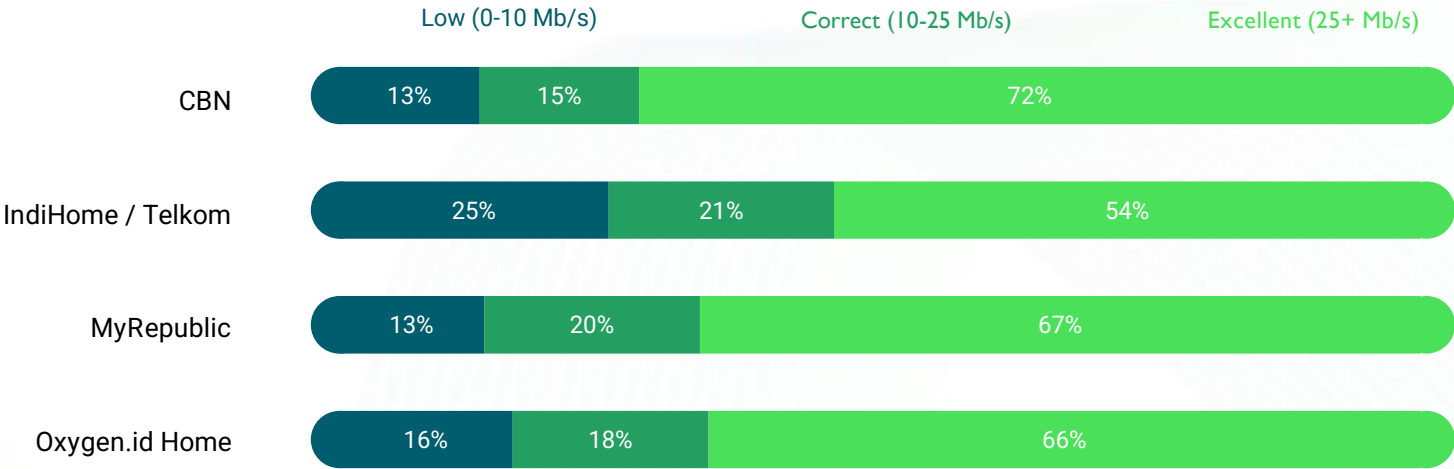
Download Speed (average)



Source : nperf.com

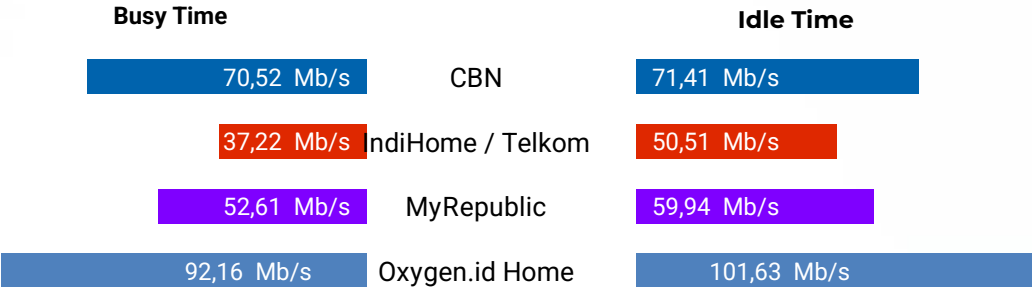
The subscribers of Oxygen.id Home enjoyed the best average fixed Internet download speed in 2024.

Download Speed results ventilation (average)



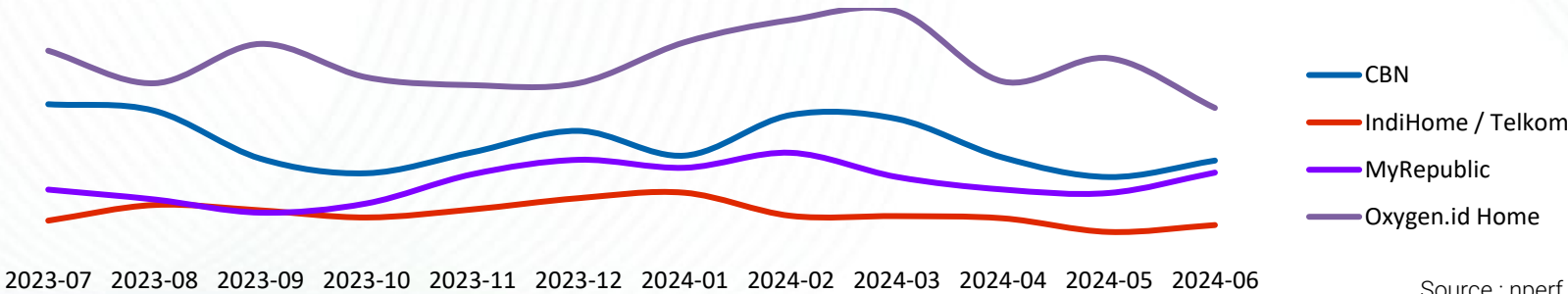
Source : nperf.com

Download Speed (average)



Source : nperf.com

Download Speed evolution over the year (average)



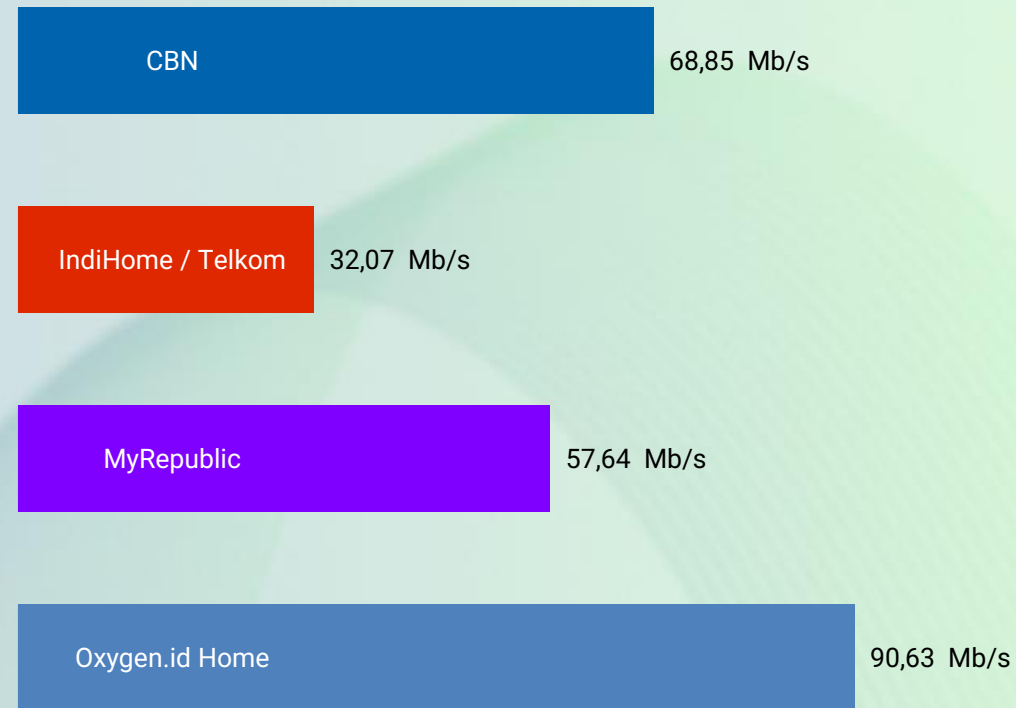
Source : nperf.com



## Speed : Upload



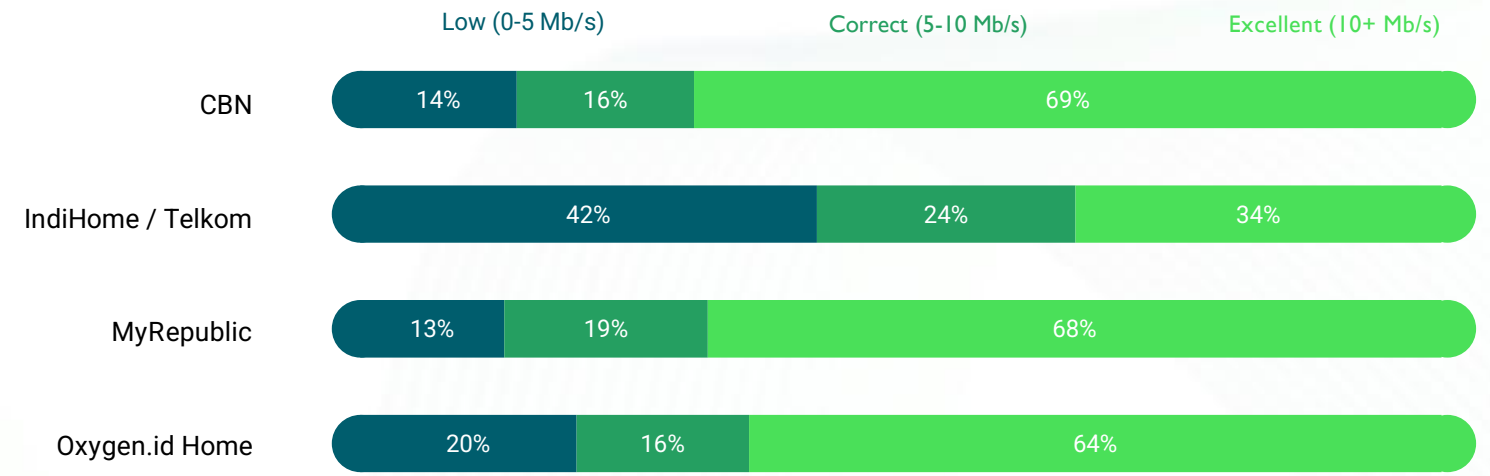
### Upload Speed (average )



Source : nperf.com

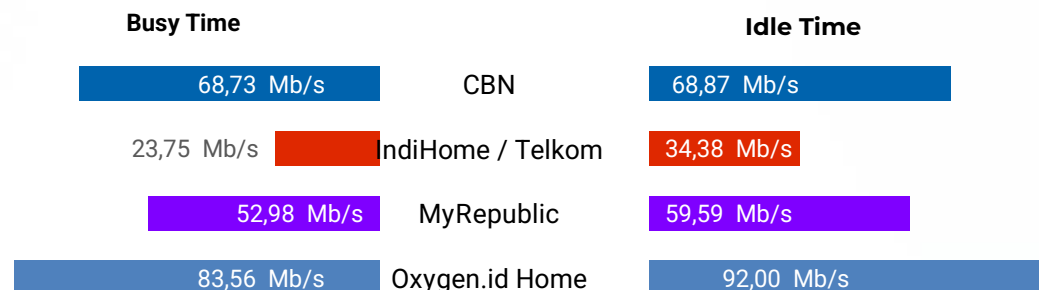
The subscribers of Oxygen.id Home enjoyed the best average fixed Internet upload speed in 2024.

### Upload Speed results ventilation (average)



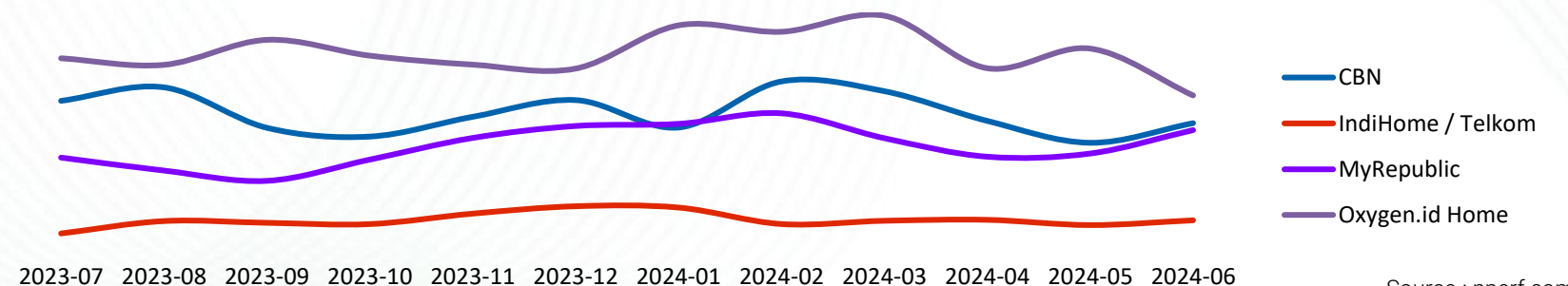
Source : nperf.com

### Upload Speed (average )



Source : nperf.com

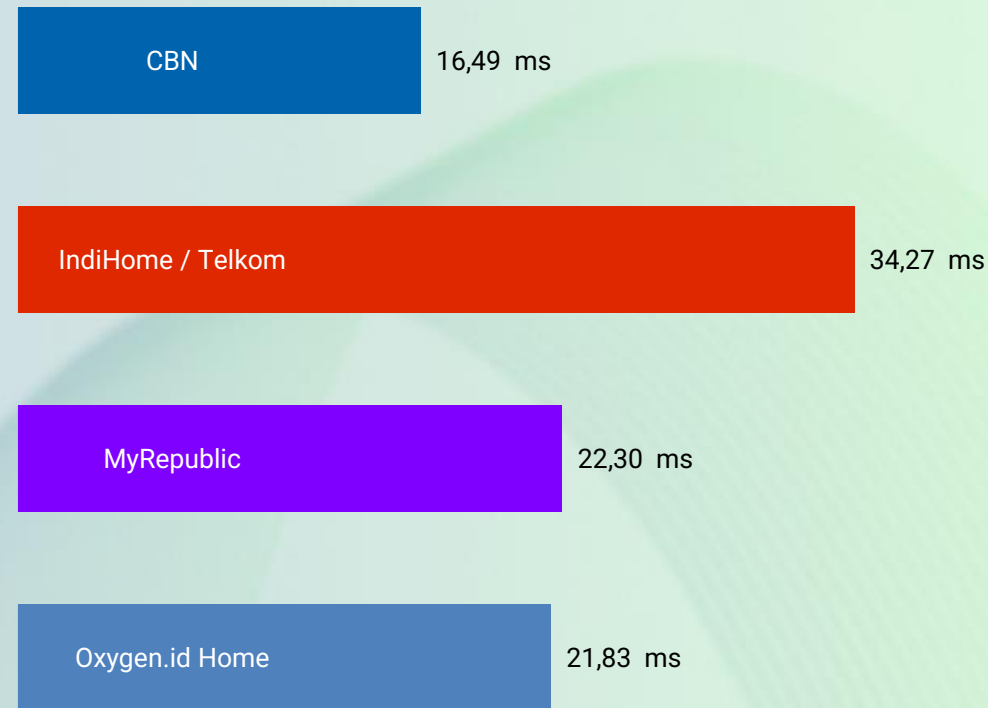
### Upload Speed evolution over the year (average)



Source : nperf.com



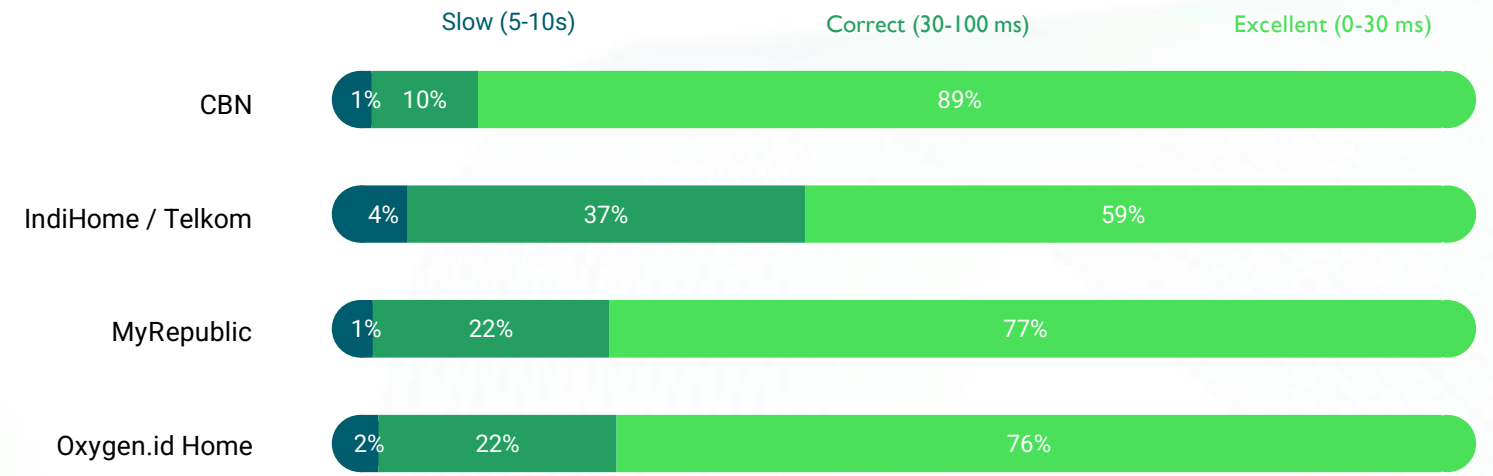
## Latency Speed (average)



Source : nperf.com

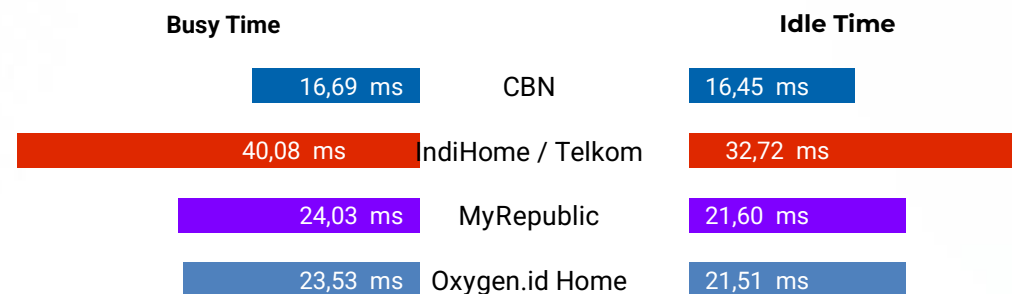
The subscribers of CBN enjoyed the best average fixed Internet latency speed in 2024.

## Latency Speed results ventilation (average)



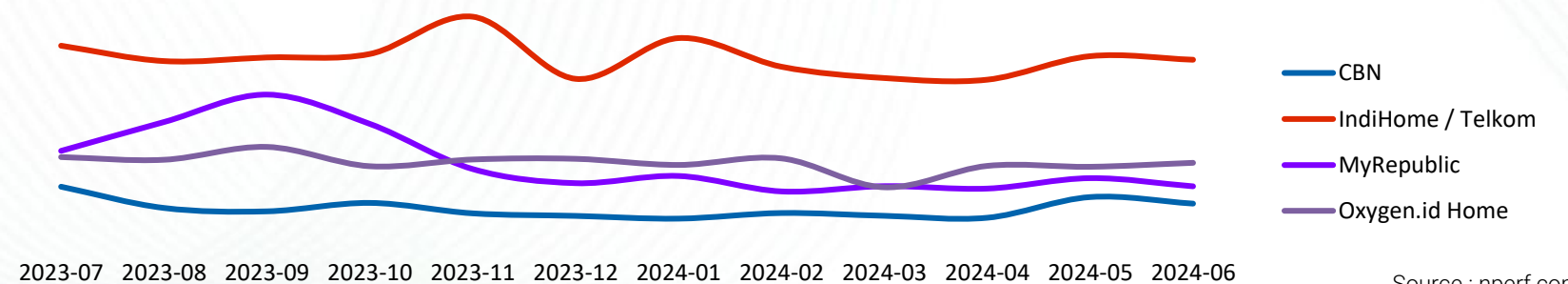
Source : nperf.com

## Latency Speed (average)



Source : nperf.com

## Latency Speed evolution over the year (average)

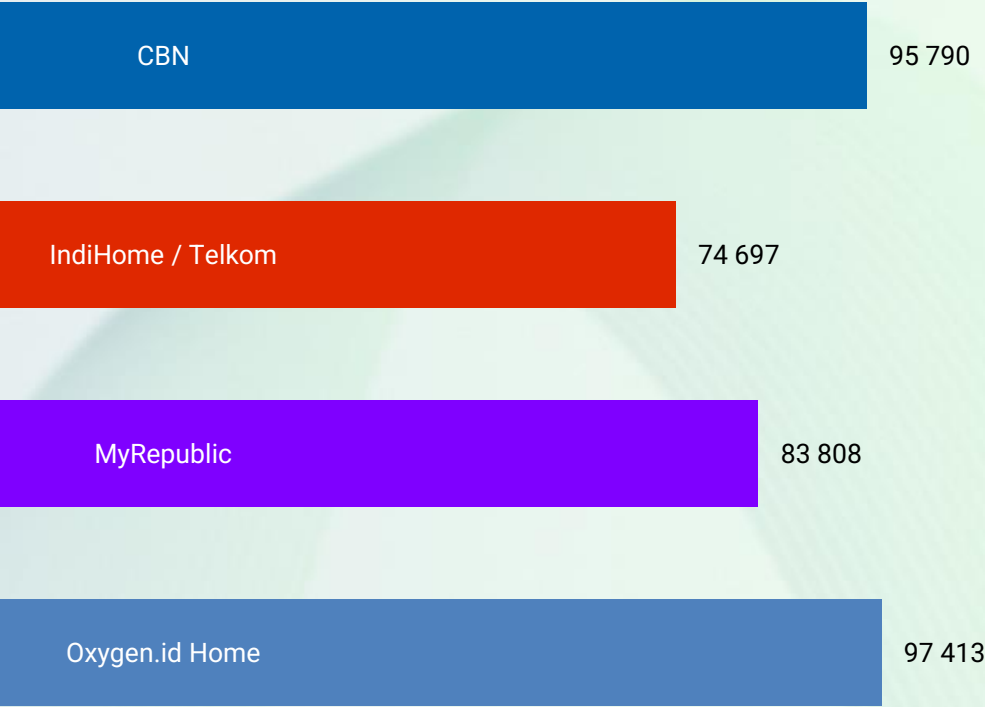


Source : nperf.com





nPerf Score (nPoints)



Source : nperf.com

The subscribers of CBN and Oxygen.id Home enjoyed the best fixed Internet performances in Indonesia during 2024.

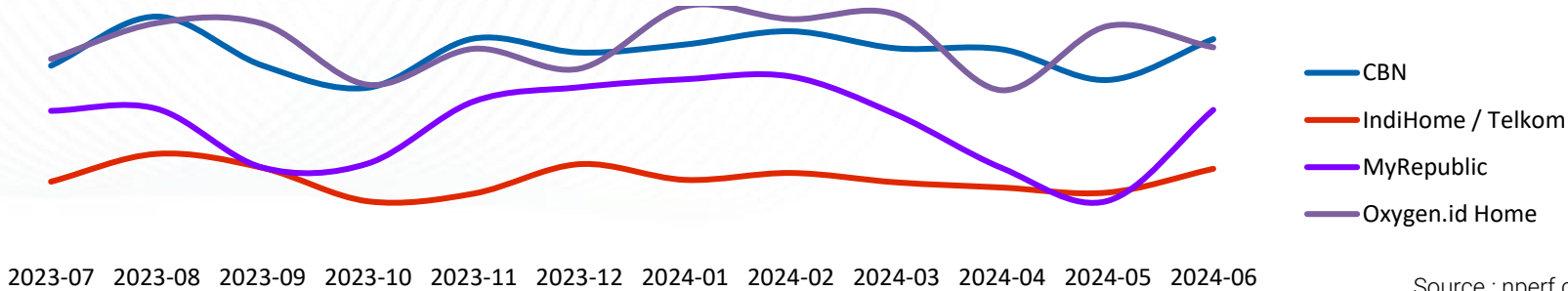
The nperf score takes into account the measured bitrates, the latency and the QoE tests. The value of the points for the rates and the latency is calculated on a logarithmic scale, to better represent the perception of the user. Thus, this score reflects the overall quality of the connection experienced by the user.

Source : nperf.com



Source : nperf.com

nPerf score evolution over the year (average)



Source : nperf.com



We qualify your connection