Barometer of fixed Internet connections in Slovakia

H2 2021 − H1 2022

Publication of
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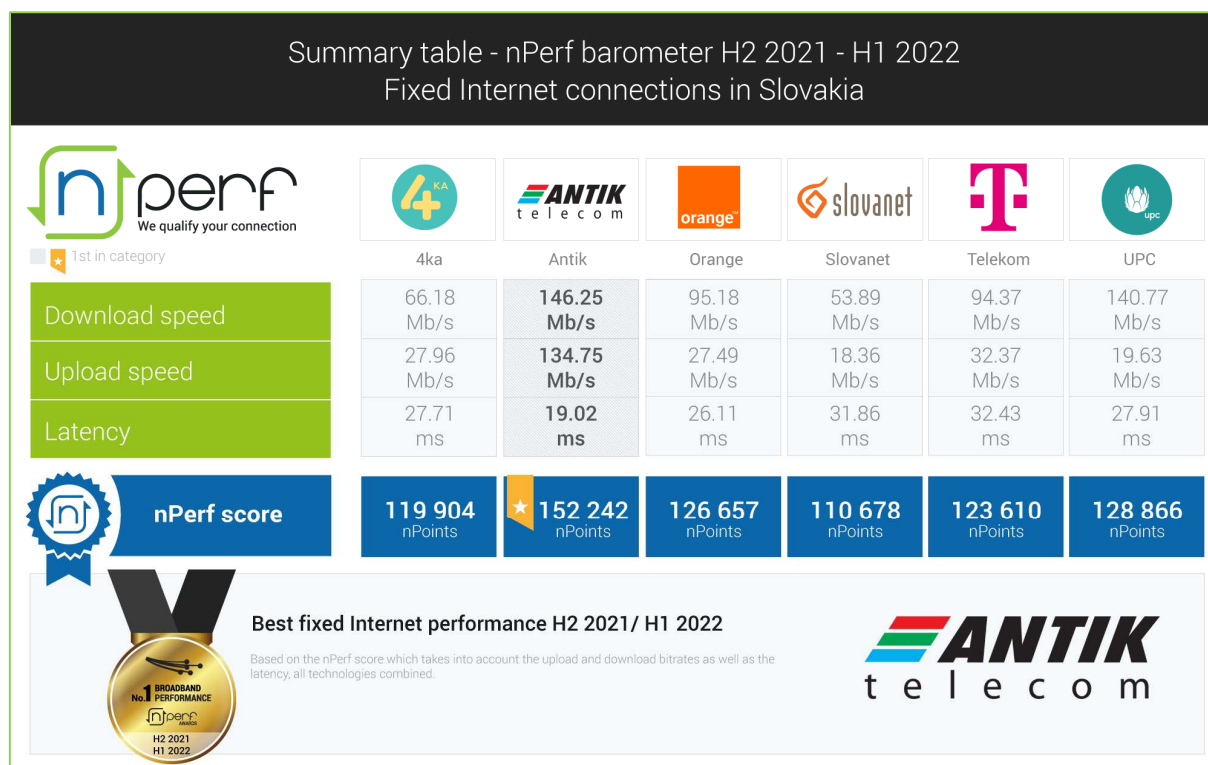
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1 Overall results

1.1 Summary table and nPerf score

Summary table - nPerf barometer H2 2021 - H1 2022 Fixed Internet connections in Slovakia						
	4ka	Antik	Orange	Slovanet	Telekom	UPC
Download speed	66.18 Mb/s	**146.25 Mb/s**	95.18 Mb/s	53.89 Mb/s	94.37 Mb/s	140.77 Mb/s
Upload speed	27.96 Mb/s	**134.75 Mb/s**	27.49 Mb/s	18.36 Mb/s	32.37 Mb/s	19.63 Mb/s
Latency	27.71 ms	**19.02 ms**	26.11 ms	31.86 ms	32.43 ms	27.91 ms
nPerf score	119 904 nPoints	★ 152 242 nPoints	126 657 nPoints	110 678 nPoints	123 610 nPoints	128 866 nPoints

□★ 1st in category

Best fixed Internet performance H2 2021/ H1 2022

Based on the nPerf score which takes into account the upload and download bitrates as well as the latency, all technologies combined.

No.1 BROADBAND PERFORMANCE
nPerf AWARDS
H2 2021
H1 2022

ANTIK telecom

Antik Telecom provided the best broadband Internet performances in Slovakia during the last two semesters.

1.2 Our analysis

This study is based on tests carried out by users of the nPerf website. During the last two semesters, users of the nPerf app completed, before filtering, **563.715 tests.**

Antik Telecom reaches the top of the Slovak broadband Internet, in our newest barometer.

Thanks to its clear victory on each indicator of this report, the least represented ISP (5,2% of the tests) gives no chance to its competitors: just ahead of UPC and showing stunning figures on the download, overwhelmingly leading the upload (approximately 5 times faster than its rivals) and recording an impressive and stable latency, under the 20 ms. To sum up, its 152 242 nPoints and the large score gap between this provider and the rest of the contenders are truly deserved.

Behind, a group of serious contenders don't give up

Despite being quite behind the winner in the score, UPC and Orange end up showing good results too, and finish respectively in the second and third step of the podium. Indeed, Orange and Telekom prove their willing to offer a better connexion quality through their recent enhancements of last spring. Telekom finishes in the fourth place.

4ka and Slovanet get the last ranks

Both under 120 000 points, specially Slovanet, these operators seem to offer correct broadband services. But when looking at each KPI separately, we guess they still can do much better, and aren't yet the best option for Slovak Internet users.

To sum up, the national figures are good, the competition is fierce between several providers, and some trends very exciting (Orange, Telekom…). If ever Antik manages to keep being representative enough, its lead will remain obvious in the short term, but behind, Orange and Telekom have recently surpassed UPC, second in the general ranking.

Thus, all the ingredients are gathered for a thrilling sequence of events. Will the next months bring some surprises ? Of course, nPerf will keep an eye on this!
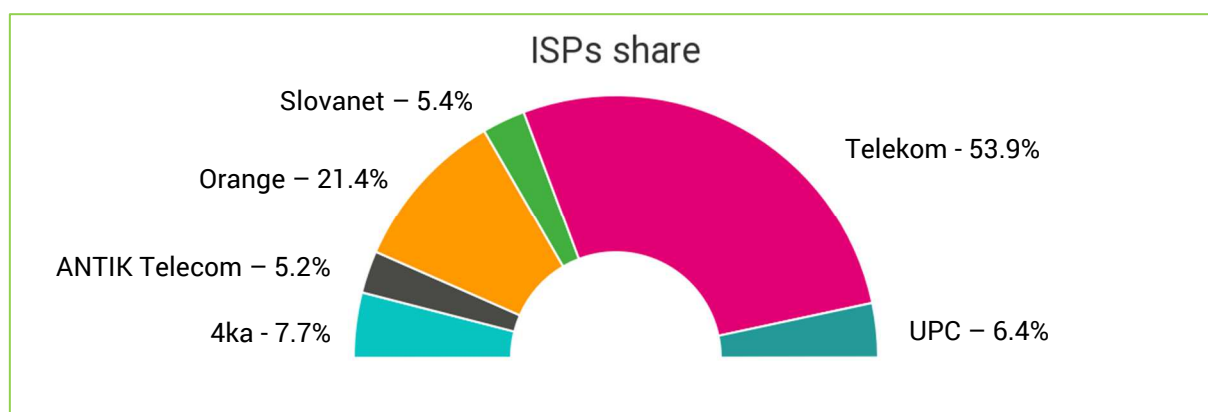
1 Results, all technologies combined

1.1 Data volume and distribution

Between **July 1st, 2021** and **June 30th, 2022** we counted in Slovakia **517.363 speed tests**, distributed as follows, after filtering (see § 4.4) :
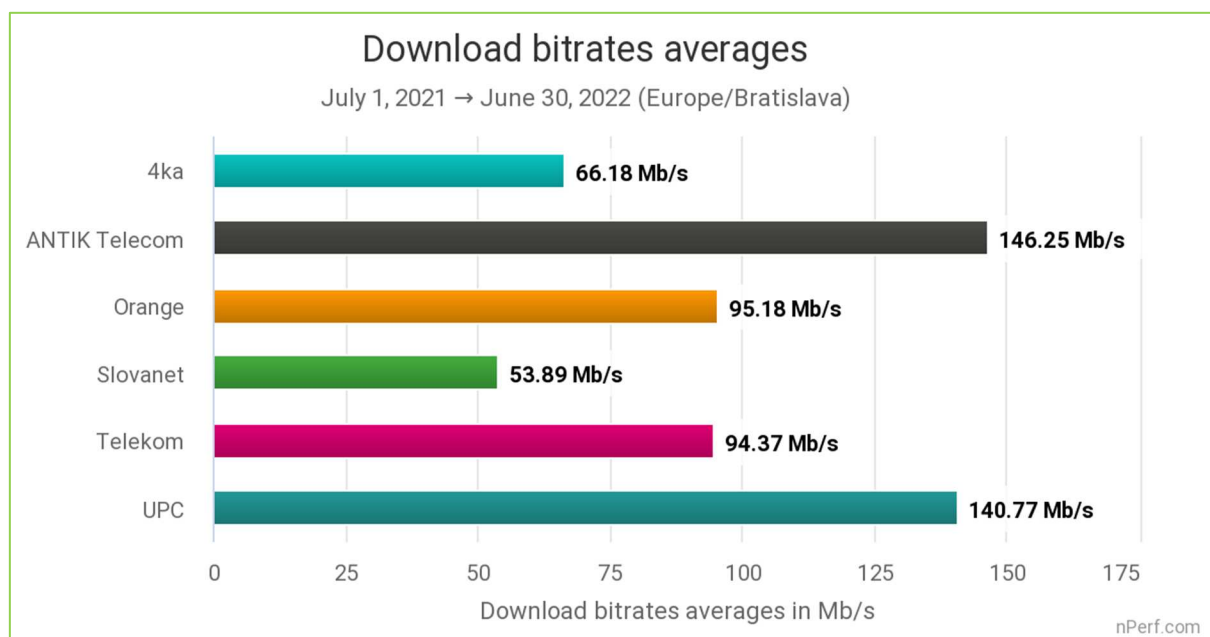
Country	Total
Slovakia	**491.426**

The overall distribution of the tests per provider is as follows:

Telekom Slovakia, with more 54% of the tests carried out in the country during the last twelve months, is hugely represented. The next is Orange with only 21% and, last but not least, our newest winner, Antik Telecom, only gets 5,2% of the tests selected.
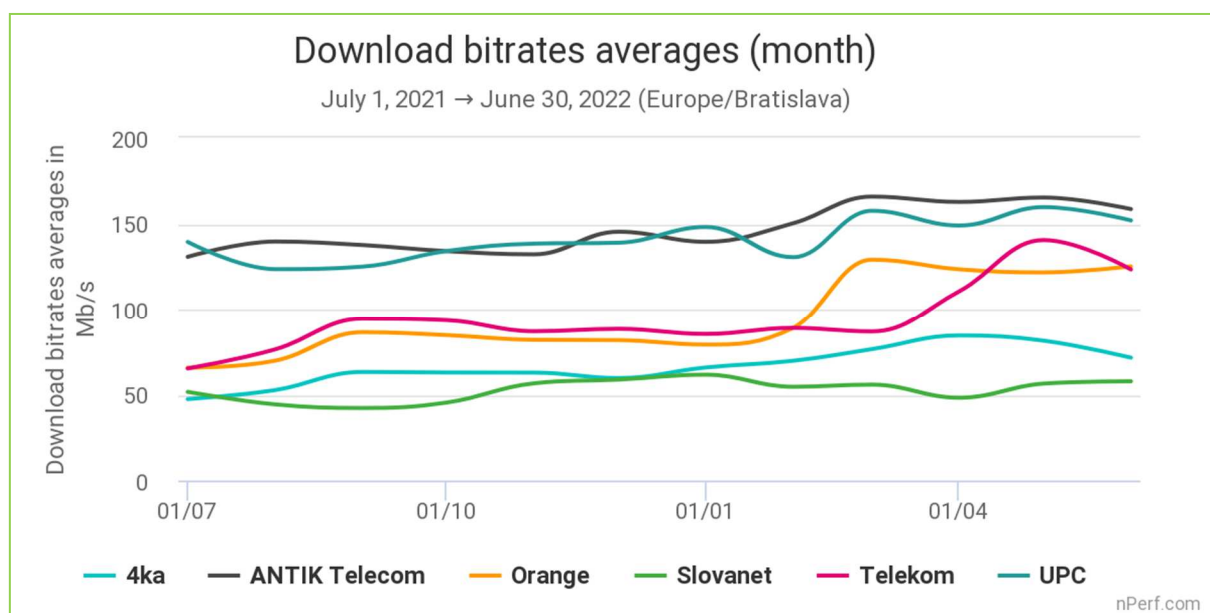
1.2 Download speed

Download bitrates averages
July 1, 2021 → June 30, 2022 (Europe/Bratislava)

ISP	Mb/s
4ka	66.18 Mb/s
ANTIK Telecom	146.25 Mb/s
Orange	95.18 Mb/s
Slovanet	53.89 Mb/s
Telekom	94.37 Mb/s
UPC	140.77 Mb/s

Download bitrates averages in Mb/s

nPerf.com

The highest speed is the best.

ANTIK subscribers enjoyed the best average broadband download speed, during the last two semesters.
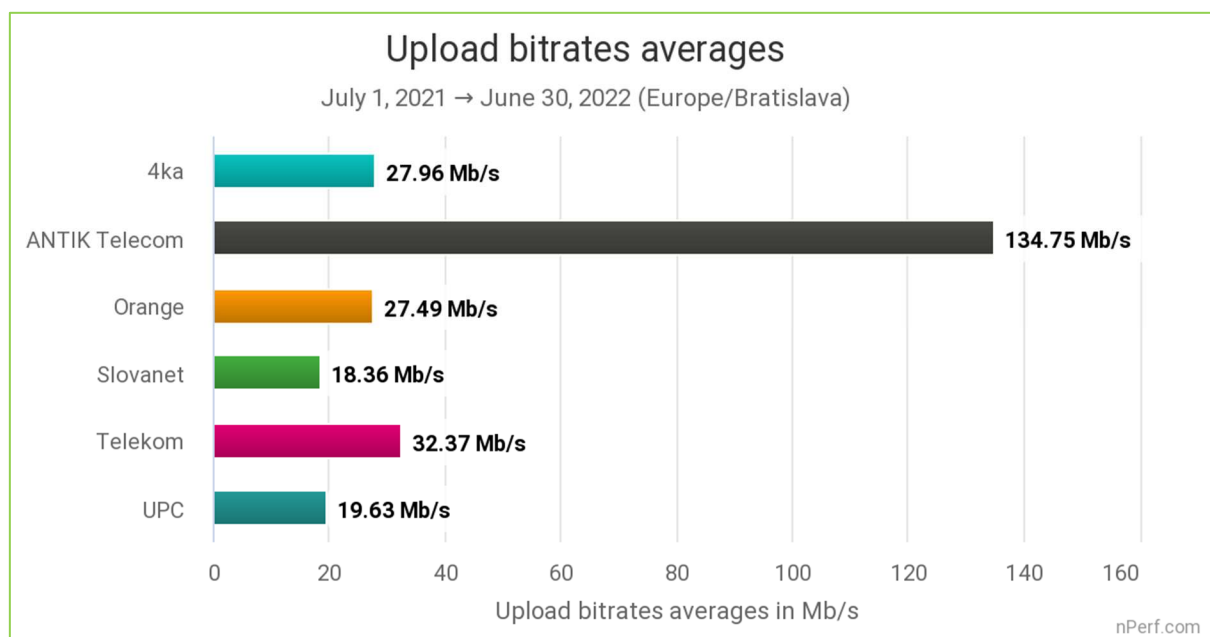
Antik Telecom and UPC have made the difference, by offering high average speeds, above 140 Mb/s. Then come a second couple of ISP, Telekom and Orange, which are situated just beneath 100 Mb/s, and finally 4ka and Slovanet, rather close to 60 Mb/s. This way, the faster ISP has recorded an almost three-times higher average performance than the slowest provider studied.

Download bitrates averages (month)
July 1, 2021 → June 30, 2022 (Europe/Bratislava)

Legend: 4ka — ANTIK Telecom — Orange — Slovanet — Telekom — UPC

nPerf.com

The graph above shows the evolution of the *monthly* average bitrates throughout the period.

Antik Telecom and UPC have seemingly dominated from start to end, while Orange and Telekom have shown significant enhancements in the first half of 2022.
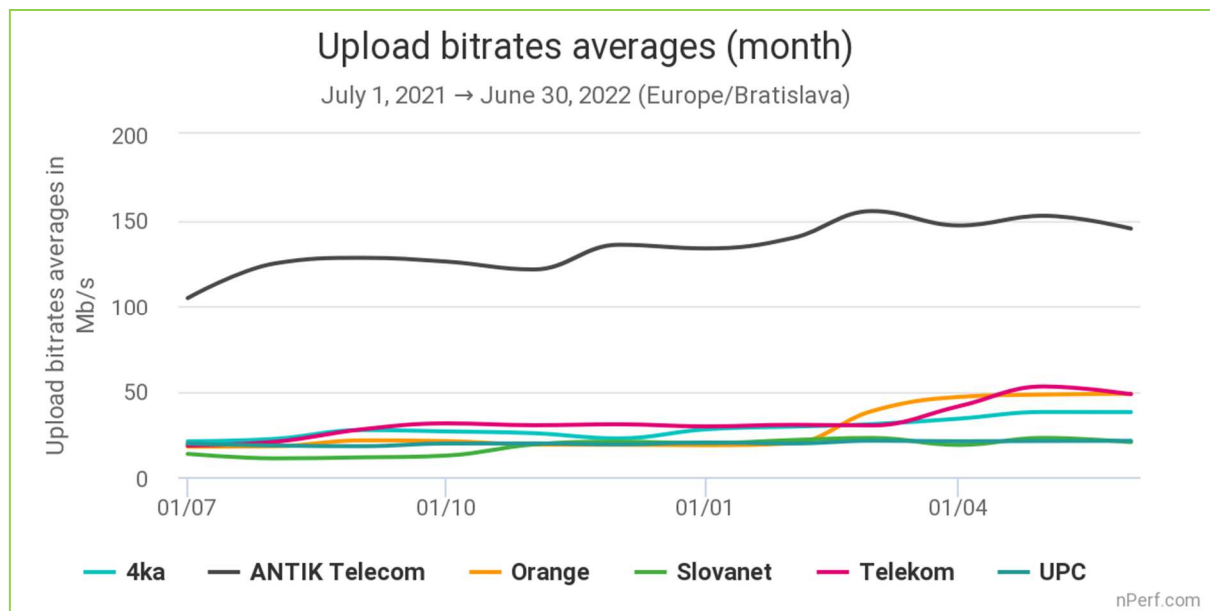
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1.3 Upload speed

Upload bitrates averages
July 1, 2021 → June 30, 2022 (Europe/Bratislava)

- 4ka — 27.96 Mb/s
- ANTIK Telecom — 134.75 Mb/s
- Orange — 27.49 Mb/s
- Slovanet — 18.36 Mb/s
- Telekom — 32.37 Mb/s
- UPC — 19.63 Mb/s

Upload bitrates averages in Mb/s

nPerf.com

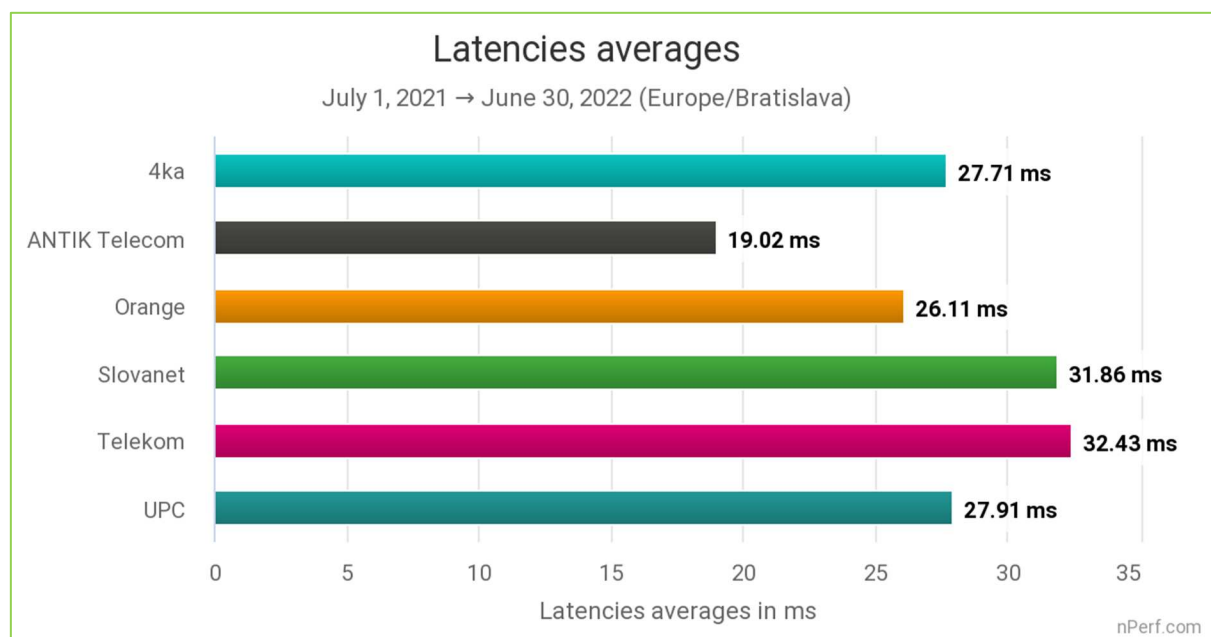*The highest speed is the best.*

ANTIK subscribers enjoyed the best average broadband upload speed, during the last two semesters.

Without the shadow of a doubt, ANTIK crushes its opponents with a nearly symmetric connexion, which is rare for actual broadband offers. Its closest challenger on this field appears to be Telekom, with 32 Mb/s, meaning more than four times slower than the leader !

Upload bitrates averages (month)
July 1, 2021 → June 30, 2022 (Europe/Bratislava)

Upload bitrates averages in Mb/s

— 4ka   — ANTIK Telecom   — Orange   — Slovanet   — Telekom   — UPC

nPerf.com

The graph above shows the evolution of the *monthly* average bitrates throughout the period.

1.4 Latency

Latencies averages

July 1, 2021 → June 30, 2022 (Europe/Bratislava)

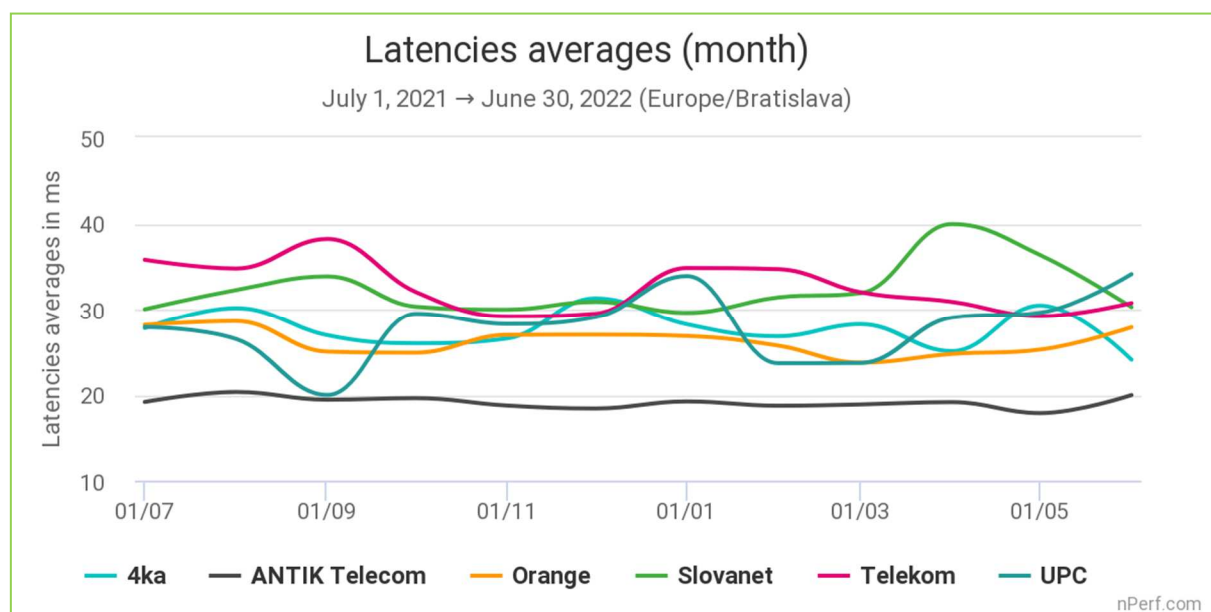| Operator	Latency
4ka	27.71 ms
ANTIK Telecom	19.02 ms
Orange	26.11 ms
Slovanet	31.86 ms
Telekom	32.43 ms
UPC	27.91 ms

The shortest time is the best.

ANTIK subscribers enjoyed the best average broadband latency, during the last two semesters.

By showing an average time of 19 ms, this minor operator shows the very best latency of the country. This could for example be very attractive for gamers. Moreover, this victory is comfortable, as the second best average performance is 26 ms for Orange. Nevertheless, even the slowest time of response (Telekom, 32 ms) is pretty correct this year. No major issue seems to have happened with the Slovak latency throughout the period, so the Internet users of this country can be reassured.

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Latencies averages (month)

July 1, 2021 → June 30, 2022 (Europe/Bratislava)

Legend: 4ka — ANTIK Telecom — Orange — Slovanet — Telekom — UPC

nPerf.com

The graph above shows the evolution of the *monthly* average latencies throughout the period.

Here, the domination of Antik across the last twelve months is pretty clear: permanently underneath 20 ms, whereas its rival oscillate mostly between 25 and 35 ms.
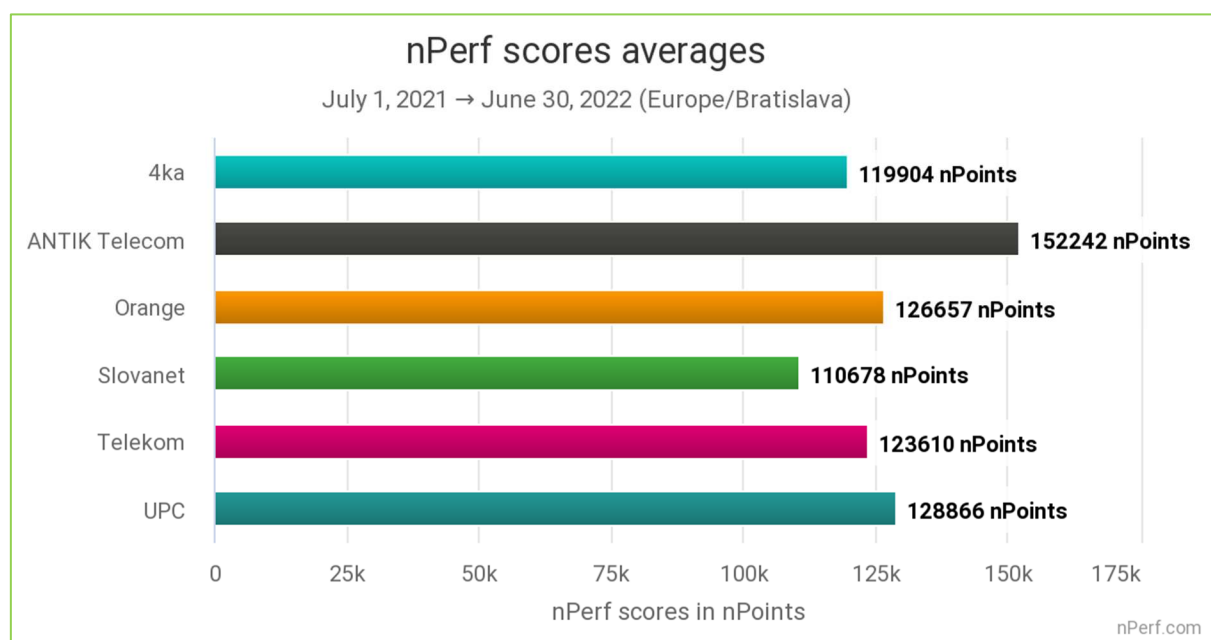
1.5 nPerf scores

The nPerf score, expressed in nPoints, gives an overall picture of the quality of a connection. It takes into account the measured bitrates (2/3 Download + 1/3 Upload) and the latency. These values are calculated on a logarithmic scale to better represent the perception of the user.

Thus, this score reflects the overall quality of the connection **felt by the user**.
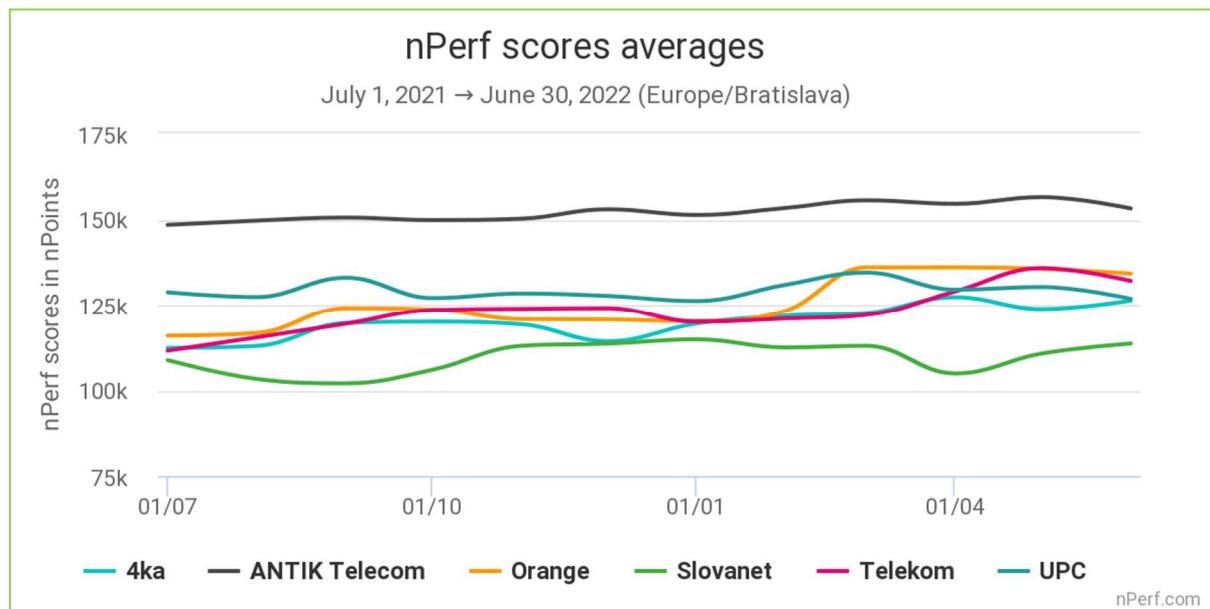
The results below consider all the previous indicators and therefore all the tests carried out. As technologies are grouped together, the proportion of tests in different technologies strongly impacts this global trend.

nPerf scores averages
July 1, 2021 → June 30, 2022 (Europe/Bratislava)

Provider	nPoints
4ka	119904 nPoints
ANTIK Telecom	152242 nPoints
Orange	126657 nPoints
Slovanet	110678 nPoints
Telekom	123610 nPoints
UPC	128866 nPoints

nPerf scores in nPoints

nPerf.com

The highest value is the best.

Antik Telecom subscribers enjoyed the best broadband Internet performances, during the last two semesters.

nPerf scores averages
July 1, 2021 → June 30, 2022 (Europe/Bratislava)

Legend: 4ka — ANTIK Telecom — Orange — Slovanet — Telekom — UPC

nPerf.com

The graph above illustrates the evolution of the *monthly* average scores throughout the period.

While Antik flew through the race, Orange and Telekom have recorded solid progresses in the last spring, to the extent that they managed exceeded UPC's score since, given that the latter performances haven't evolved significantly, despite its final second position.

> Find this global indicator directly in the website, or on your mobile device, via the « Compare » function at the end of the (full) test. It is updated in real time over 14 rolling days.

2 You too, participate in the nPerf panel!

To participate in the panel, simply test your connection on the website www.nperf.com.

For mobile Internet, you can also use the nPerf app, available for free on the Apple AppStore for iPhone and iPad and on Google Play for Android devices.

3 Custom analysis & contact

Do you need further studies, or want to get the raw data, punctually or automatically, to compile it yourself?

You can contact nPerf via www.nPerf.com through the "Contact Us" section, or directly from the mobile app.

Phone contact: +33 482 53 34 11

Address: nPerf SAS, 87 rue de Sèze, 69006 LYON, France

Stay in touch with us, follow us!

4 Methodology

4.1 The panel

nPerf offers an Internet speed test application, which can be used for free at www.nPerf.com.

Everyone is free to use nPerf to measure the quality of their Internet connection. The panel of this study is formed by its users in Slovakia. In addition, the results from the nPerf speed tests integrated on our partner websites are also included in the panel.

Thus, the nPerf study is based on the **tens of thousands of tests** carried out monthly, exclusively by the operators' end customers, which makes it the "crowdsourced" study based on **one of the largest panels of the country.**

These tests reflect the **actual experience of the general public** on the various Internet networks.

4.2 Speed and latency tests

The purpose of the nPerf Speed Test is to measure the maximum capacity of the data connection in terms of data rates and latency.

To achieve this, nPerf establishes multiple connections simultaneously to saturate the bandwidth to accurately measure it. The speed used for the barometer is the average speed measured by the application.

Speed measurements thus reflect **the maximum capacity** of the data connection. This rate may not be representative of the user experience experienced during normal use of the Internet, as it is measured only on nPerf servers.

The measured bit rate can be impacted by the quality of the user's local network, especially since the expected flow is high. Thus, for an optical fiber internet connection, a local Wi-Fi or Power-Line connection can greatly reduce performance. However, since these constraints are identical to all market operators, they do not bias the comparison. In addition, the user is made aware of these constraints and invited to use a wired local connection for testing very high speed.

4.3 nPerf servers

To ensure maximum user bandwidth at all times, nPerf relies on a network of servers dedicated to this task. These servers are hosted in the country and abroad. Indeed, nPerf has also installed dedicated servers directly at some providers' facilities, to maximize measurement reliability. **Local carriers are welcome** to install nPerf servers, that's free !

The total bandwidth available for Slovakia is **14 Gb/s**, and reaches more than **10 Tb/s** worldwide**, with more than **2.300** active nPerf servers!

4.4 Filtering of test results

The results obtained are subject to automatic and manual checks to avoid duplication and to rule out possible abusive or fraudulent use (massive tests, robots…).

The exclusive nPerf algorithm retains only the relevant tests, thus eliminating biases related to the overrepresentation of certain terminals, users or test locations.

The results are classified by provider. Tests performed on cellular connections (2G, 3G, 4G & 5G), or on professional/business/military/academic networks are also excluded from this barometer.

4.5 Statistical accuracy

With regard to the total volume of unit tests, the statistical precision used in this publication is:

Category	Number of tests (filtered)	Absolute values	Percentages
Global	491.426	2%	1 point

If, for a given indicator, one or more operators have results very close enough to the best, in the confidence interval defined above, these will **share the first place**.

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