### think**broadband**®

# The State of Broadband

### **A Comprehensive Overview**

**March 2023** 



# **The State of Broadband**

Welcome to the State of Broadband Report - your go-to source for the latest updates and insights into the comings and goings of the world of broadband. As the demand for fast and reliable connectivity continues to grow, it is more important than ever to stay up to date with the latest developments in this ever-evolving industry.

In this edition, we provide a comprehensive overview of the state of the nations, including fibre coverage and progress towards the government Project Gigabit targets, with English regional breakdowns including the best and worst local authorities for full fibre coverage, as well as a snapshot of the average prices of consumer fibre packages and more. Whether you're a consumer, industry insider or commentator, this report is designed to keep you informed and help you navigate the constantly changing landscape of broadband technology. Unless otherwise stated the data in this report was extracted between 9 and 13 February 2023. **Please visit <u>https://labs.thinkbroadband.com/local</u> for the most up-to-date data.** 







#### **About Think Broadband**

Think Broadband is the UK's leading source of broadband news and analysis and home to the UK's largest community of users looking to get the most out of their home broadband. Run by a small team passionate about all things connectivity, we are independent of broadband providers and offer listings to any provider who meets our listing criteria, not based on whether they pay a commission.

Over the past two decades, we have created a wide range of free tools to help consumers understand how to make the most out of their broadband connection including speed tests, broadband maps, local broadband statistics, and our one-second resolution broadband quality monitor.

We have also developed a range of industry-specific solutions, such as our broadband availability API. This tool is designed to assist websites requiring information on broadband service availability in a particular area, enabling them to power their own services and deliver their users with accurate comparison listings.





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## **State of the Nations**

#### **Quarterly Statistics**





**Gigabit 85% prediction** Sept 2024

Data: 09/02/2023; includes households and business premises

Country	Superfast Coverage 30 Mbps+	Gigabit Coverage (FTTP or DOCSIS 3.1)	<b>7</b> Full Fibre (FTTP) Coverage
England	97.77%	74.47%	46.11%
Wales	96.67%	58.69%	43.67%
Scotland	95.30%	67.36%	43.60%
Northern Ireland	94.79%	90.13%	89.33%

Source: labs.thinkbroadband.com

### **English Region Breakdown**

English Region	Superfast Coverage 30 Mbps+	Gigabit Coverage (FTTP or DOCSIS 3.1)	<b>Full Fibre (FTTP)</b> Coverage
London	98.04%	83.50%	50.99%
North West England	97.78%	69.66%	43.82%
South West England	96.50%	66.55%	43.82%
West Midlands	98.28%	79.97%	41.74%
Yorkshire and Humber	97.62%	77.06%	54.43%
East of England	97.79%	68.03%	40.75%
South East England	98.28%	74.99%	50.59%
East Midlands	98.47%	75.24%	47.37%
North East England	98.10%	73.53%	35.88%

# **Winners & Losers**

Top 20 best and 10 worst local authorities for FTTP coverage. We also include a date for 85% and 100% FTTP prediction. Note that this is strictly 'full fibre' and areas with low fibre (which is future proof) may still receive Virgin Media 1Gbps services over DOCSIS 3.1.

### Top 20 Authorities by Full Fibre Rollout



Authority	Code	Full Fibre %	85% FTTP Prediction	100% FTTP Prediction
City of Kingston upon Hull	E06000010	99.73	Achieved	-
Belfast	N0900003	94.85	Achieved	Dec 2023
Coventry District	E08000026	93.07	Achieved	Jan 2024
Milton Keynes	E06000042	92.64	Achieved	May 2025
Ards and North Down	N09000011	92.37	Achieved	Jun 2025
Derry and Strabane	N0900005	91.22	Achieved	Sep 2024
Lisburn and Castlereagh	N0900007	91.09	Achieved	Oct 2024
Antrim and Newtownabbey	N0900001	90.78	Achieved	Oct 2024
Mourne and Down	N09000010	90.46	Achieved	Nov 2023
Mid and East Antrim	N0900008	89.65	Achieved	May 2024
City of Peterborough	E06000031	88.95	Achieved	Jan 2027
Armagh, Banbridge and Craigavon	N0900002	87.49	Achieved	Apr 2024
<b>Causeway Coast and Glens</b>	N0900004	87.05	Achieved	Jun 2024
Worthing District	E07000229	86.74	Achieved	Mar 2024
Swindon	E06000030	81.97	Mar 2023	Aug 2023
Hammersmith and Fulham	E09000013	81.17	Aug 2023	Oct 2025
East Riding of Yorkshire	E06000011	81.06	Aug 2023	Sep 2025
Torbay	E06000027	81.06	May 2023	Apr 2024
West Northamptonshire	E06000062	80.7	Apr 2023	Sep 2023
Mid Ulster	N0900009	80.52	May 2023	Apr 2024

Note: Where we cannot predict, no date is shown. Dates in far future are not necessarily likely as intervention may apply changing the likely dates. This information relates to 'full fibre' and does NOT include DOCSIS 3.1 cable services which can deliver 1Gbps broadband. The prediction of future dates is based exclusively on the performance in the past 9 months; future performance is not necessarily based on past performance. We therefore recommend in particular that you are cautious about the 100% figures.

### 😍 Bottom 10 Authorities by Full Fibre Rollout

Authority	Code	Full Fibre %		85% FTTP Prediction	100% FTTP Prediction
Na h-Eileanan an Iar	S12000013	ſ	5.88	-	-
Argyll and Bute	S12000035	•	5.81	-	-
Gosport District	E07000088	•	5.72	-	-
Enfield	E09000010	•	5.70	-	-
Rossendale District	E07000125	•	5.62	-	-
Woking District	E07000217	•	5.32	-	-
Shetland Islands	S12000027	•	4.44	-	-
Copeland District	E07000029	•	3.38	-	-
Orkney Islands	S12000023	•	2.74	-	-
Isles of Scilly	E06000053	•	2.61	-	-

Source: labs.thinkbroadband.com

### Top 5 Councils for Increase in FTTP Build Rates

There are constant changes as new builds go up so these statistics change frequently.

Authority	Code	Feb 2022		Feb 2023	
Broxtowe District	E07000172	_	24%		76%
City of Wolverhampton District	E08000031	•	3%		49%
Eastbourne District	E07000061	•	8%		54%
Adur District	E07000223	•	6%		50%
Reading	E06000038	-	13%		58%

Source: labs.thinkbroadband.com; Rate comparisons are Feb 2022 to Feb 2023.

### UK Nations – Progress Towards Government Targets

**Progress towards 85% Gigabit and 85% FTTP, and 100% FTTP targets;** Conservative manifesto promise from 2019 and as we head to 2024, this is important. Ofcom didn't do much in the way of projecting. We use nine months of data to project.

	2022	2023	2024	2025	2026
UK (whole)			85% Gigabit Prediction September 2024	85% FTTP Prediction July 2025	100% FTTP Prediction July 2026
<b>Great</b> Britain (England/ Scotland/Wales)			85% Gigabit Prediction October 2024	85% FTTP Prediction August 2025	100% FTTP Prediction July 2026
England			85% Gigabit Prediction August 2024	85% FTTP Prediction July 2025	100% FTTP Prediction July 2026
Northern Ireland	85% Gigabit Achieved May 2022		100% FTTP Prediction June 2024		
Scotland	Achieved July 2022			<b>85% Gigabit</b> Prediction September 2025	<b>100% FTTP</b> <b>Prediction</b> December 2026
Wales				85% FTT Predictio December 202 85% Gigabit Prediction June 2025	P 55 100% FTTP Prediction December 2026
				85% FTT Predictio December 202	P 19 10 10 10 10 10 10 10 10 10 10

Source: labs.thinkbroadband.com; theoretical prediction is based on performance in the past 9 months. The 100% performance is likely to slow down as we get to harder-to-reach areas.

### **Evolution of Technologies**

Over the past two decades, the advancement of technology has led to a significant evolution in the way fibre is brought closer to people's homes. Originally ADSL meant that fibre came up to the telephone exchange before being extended to street cabinets for FTTC and even

closer with G.FAST, until it entered the home with FTTP. Although cable services appear static, these have gone through their own evolution of DOCSIS standards, leading up to DOCSIS 3.1 which can deliver Gigabit services. Some cable services are not over fibre using RFoG.



Source: labs.thinkbroadband.com; figures represent Q4 figures except 2011 which is based on Q1/2012.

### **UK New Build & Fibre Coverage**

This section presents a summary of the number of newly constructed (mostly residential) properties built over the past decade, and the percentage of these properties that can receive Superfast, Gigabit, and Full Fibre broadband services. While there is currently little difference between a 'Gigabit' and 'Full Fibre' service, it's important to note that physical fibre is future-proof and capable of delivering services that aren't yet available, and as such should be considered as a separate target. As a result, Full Fibre has emerged as the technology of choice. By ensuring availability of full fibre technology, developers are ensuring that their properties are equipped with the latest and most reliable broadband infrastructure, ready to meet the growing demands of the digital age.

Year	Total Premises Built	Superfast 30 Mbps +	Gigabit		Full Fibre	
2012	133,553	96.6%		70.1%		61.3%
2013	133,511	96.3%		71.2%		62.6%
2014	151,530	96.8%		70.1%		63.1%
2015	179,163	96.4%		69.0%		63.4%
2016	200,071	96.1%		71.6%		67.1%
2017	192,949	97.2%		76.5%		72.8%
2018	<b>**</b> 246,601	97.8%		86.1%		84.0%
2019	<b>**</b> 233,632	98.4%		91.3%		90%
2020	189,832	98.9%		92.9%		92.0%
2021	<b>*</b> 200,205	99.4%		97.3%		96.7%
2022	<b>**</b> 98,029*	99.8%		99.1%		98.3%

\*We are still locating 2022 new build homes so the total number of premises is not complete however it is included for the statistics based on those found so far.

### **Largest Full-Fibre Networks**

The UK has many alternative network operators (altnets), and competitors to the incumbent (Openreach and technically KCom in Hull) network, despite being significantly smaller in size. These altnets play a vital role where Openreach FTTP is not available, providing an alternative commercial proposition, which can often be superior to the consumer in terms of choice. Despite being less known, these smaller networks are an essential part of the UK's broadband infrastructure and provide a critical lifeline for local communities desperate for fast broadband.



Note: This refers to 'full fibre' (FTTP) networks and not gigabit-capable networks. As such the current Virgin Media DOCSIS 3.1 footprint (capable of delivering gigabit broadband) is not included. We expect Virgin Media will upgrade its network to RFOG (Radio Frequency over Glass) so this will increase Virgin's FTTP share in due course.

### Relative Market Share of the Big Retail Providers



Source: Point-Topic UK Plus Data Set. Note: These figures will include estimates as not all providers publish information in a consistent manner. Only 'consumer' services are included. We note that BT Business has a significant lead in the business segment.

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## **Average Prices of Consumer Fibre**

We track average broadband prices by speed category for major providers to provide market guidance. There are always offers available as well as a wider selection of broadband providers, so these **prices are only guidelines and not intended to be used for selecting a provider**.



Most fibre-based services require an 18- or 24-month contract

Category	Package	Download Speed	Upload Speed	Contract	Cost
50-80 Mbps	BT Full Fibre 1	50 Mbps	10 Mbps	24 months	£28/month
	Virgin Media M50	54 Mbps	5 Mbps	18 months	£25.00/month + £15.00/setup
	Sky Superfast	59 Mbps	16 Mbps	18 months	£25/month
	<b>BT Full Fibre 74</b>	74 Mbps	20 Mbps	24 months	£30/month
	TalkTalk Fibre 65	77 Mbps	21 Mbps	18 months	£26/month
150 Mbps	Virgin Media M125	132 Mbps	20 Mbps	18 months	£26.50/month
	Sky Ultrafast	145 Mbps	27 Mbps	18 months	£28/month
	TalkTalk Fibre 150	152 Mbps	30 Mbps	18 months	£30/month
500 Mbps	Sky Ultrafast+	500 Mbps	60 Mbps	18 months	£39/month
	BT Full Fibre 500	500 Mbps	73 Mbps	24 months	£31/month + £10/setup
	Virgin Media M500	516 Mbps	36 Mbps	18 months	£44.50/month
	TalkTalk Fibre 500	525 Mbps	72 Mbps	18 months	£39/month
1 Gbps	<b>BT Full Fibre 900</b>	900 Mbps	110 Mbps	24 months	£41/month + £10/setup
	TalkTalk Fibre 900	944 Mbps	111 Mbps	18 months	£49/month
	Virgin Media Gig1	1,130 Mbps	52 Mbps	18 months	£45/month

Methodology: Comparisons on 12/02/2023 based on provider websites for comparable products, noting that variations apply. We have not included promotions which include an initial period at a lower price, unless this is substantially less over contract length as purpose of this report is to outline broad prices rather than recommend individual services. No bundling of other services (telephone, TV, mobile) is included. Pricing for services is likely to increase mid-contract in most cases annually, around April. Where speed ranges quoted, we will use the marketed average figure or a mid-point rounded figure, so caution advised on minor variations (e.g. 74 vs 78 Mbps) as these are likely to be on the same underlying technology. Pricing may vary by location however our lookup is based on the same address on what we believe indicates market for full fibre services. Pricing is rounded up to nearest pound where it is close. Do not use this table to select a provider for your personal circumstances – please visit thinkbroadband.com and compare deals specific to you.

# Price Increases – April 2023

Many broadband providers include inflationary increases in their terms and conditions. Therefore, it's **always** advisable to compare packages and deals when you're out of your minimum contract period. In some cases, you may be entitled to cancel your service in the event of a price increase, but this is usually not the case.

As inflation is currently high, these increases are substantial, but there are operators who are guaranteeing no mid-contract increases, not even for base inflation.

#### Advice

"If you're not sure about the price increases, contact your provider and ask. Some customers on older contracts may be protected from increases, so do check before you agree to a new deal. If your cost is going up and you can find a better deal, tell your provider and see if they will agree to a discount, or if not, then switch!"



1: <u>https://www.bt.com/tell-me-more</u>

2: https://www.plus.net/help/legal/2023-pricing-changes-faq/

3: https://www.virginmedia.com/help/pricechange2023

4: https://new.talktalk.co.uk/legal/annual-price-change

5: https://static.skyassets.com/contentstack/assets/blt7f2b03fd02c7fe60/

blt035edec8411eee8f/63ef4605bc8ae610d2fda5cb/download?disposition=inline

6: https://www.vodafone.co.uk/pricechanges

7: <u>https://www.hyperoptic.com/press/posts/hyperoptic-takes-mid-contract-price-rise-</u>campaign-to-tv/

8: https://www.zzoommgroup.com/zzoomm-launch-new-plans-to-make-gigabit-speeds-evenmore-accessible/ 9: https://www.kcom.com/home/help/account/2023-pricing-changes-faqs/

10: "If you have a received a letter or an email confirming there will be a change to the price of your existing package you will be able to review and confirm your available options online via your personalised link, which is included in your letter or email"

11: LightSpeed guarantee no mid-contract price increases and have frozen prices until 2025 – https://www.lightspeed.co.uk/news/bringing-broadband-happiness-for-less

2: Zen removed their "price for life guarantee" in 2022 as inflation shot up but introduced a no mid-contract price promise – <u>https://www.zen.co.uk/contract-price-promise</u>

13: https://www.youfibre.com

14: https://www.airband.co.uk/why-choose-airband-fibre-broadband-provider/

15: https://www.brsk.co.uk/documents/terms-and-conditions-home-broadband

### **Rural vs Urban**

There is no consistent definition of 'rural' vs 'urban' across the United Kingdom. The statistics refer to Ofcom's areas which are defined as full fibre deployment competition, on the basis that in more populated areas, competition will be higher (more full fibre providers). This definition is the subject to some controversy so caution is advised.

Area 2 ("urban")	Superfast (30 Mbps)	Gigabit (1 Gbps)	"Full Fibre"	
22.1m premises	98.7%	85.0%	47.7%	
Area 3 ("rural")	Superfast (30 Mbps)	Gigabit (1 Gbps)	"Full Fibre"	

Context: the problem is getting the 46% less densely populated areas up to 1Gbps; in practice this will need full fibre.

## **Broadband Speed Requirements**

What speed broadband connection do you really need for most applications?

Application			Recommended Bandwidth		
			🔂 Up	<b>Down</b>	
	Video Streaming	Standard Definition / SD	-	O 1-2 Mbps	
V	(Netflix / YouTube)	High Definition / HD	_	<b>O</b> 3-5 Mbps	
		UHD / 4K	-	<b>O</b> 15-20 Mbps	
	Zoom Calls	1080p Full HD <sup>1</sup>	<b>4</b> Mbps	O 3 Mbps	
		720p	<b>1</b> .2 Mbps	<b>9</b> 1.2 Mbps	
		Standard Video	<b>0</b> .6 Mbps	<b>0.6 Mbps</b>	
	VoIP Calls / Digital Voice		<b>0</b> 0.5 Mbps	<b>O</b> 0.5 Mbps	
			Actual usage may be less but more likely to be affected by other usage during call		
	Online Gaming	Fortnite	3 Mbps	5 Mbps <sup>2</sup>	
<b>HD</b>	(real-time multiplayer)		"Gigabit fibre with [] symmetrical upload and download speeds absolutely smashes those requirements out of the arena"		
	raw speed for the game but about avoiding latency/jitter	Roblox	<b>0</b> 4-8 Mbps	<b>4-8</b> Mbps <sup>3</sup>	
	than one thing or your household has multiple users.	Call of Duty MW2	<b>4-8</b> Mbps	<b>0</b> 4-8 Mbps	
$\frown$	Twitch Streaming /		<b>3</b> -10 Mbps	<b>0</b> 20 Mbps	
	Broadcasting		Some recommendations i	ncrease upload speed to 25Mbps	
	Web Browsing, E-mail		1 Mbps	O 5 Mbps	
	& Social Media		Once connection above 40 as DNS lookups likely to be	Mbps, unlikely to see much improvement a more of a factor than raw speed	
L	Downloading Games		-	<b>O</b> 100 Mbps	
<b></b>	and Large Content		100 Mbps or faster is ideal	but balance cost vs patience	
	Larger Households		For real-time simultaneous two people watching Netfl probably not going to be w	s use, you need to multiply the above. E.g. ix at 4K might need up to 40Mbps; a third is ratching at the same time.	

1 https://support.zoom.us/hc/en-us/articles/201362023-Zoom-system-requirements-Windows-macOS-Linux

2 https://blog.frontier.com/2022/08/4-ways-fiber-helps-you-win-in-fortnite/

3 https://en.help.roblox.com/hc/en-us/articles/203312800-Computer-Hardware-Operating-System-Requirements

### **Types of Broadband**

#### ADSL (or variations thereof, e.g. ADSL2+)

Asymmetric Digital Subscriber Lines which means broadband though your phone line. The speed is determined by the distance between your property and the telephone exchange (usually up to a few kilometres) and the quality of your line. Asymmetric means the download speed is usually much faster than the upload speed, common in all consumer broadband. There are variants such as 'Annex M' which allow you to sacrifice some download speed for faster uploads. These were typically 'up to 8 meg' or 'up to 24 meg' type services depending on generation but speeds vary wildly based on the quality and length of the line.

#### "FTTC" or "VDSL2" or commonly called "fibre broadband"

Broadband where the fibre optic cable ends at the street cabinet, which is likely to be some distance from your house. A phone line is then used for the final link to your house, similar to ADSL. VDSL is the underlying technology, "Very High Speed Digital Subscriber Line" which allows faster speeds than ADSL, but it is more limited by distance – a few hundred metres rather than kilometres.

#### "FTTP", "FTTH", "FTTB" or "full fibre"

Fibre to the premises/home/building. i.e. the entire circuit to the property is fibre. There may in some cases be copper wiring inside the building depending on the setup. The speed is usually not limited by the distance where you can get FTTP as this is delivered over a fibre optic wavelength.

#### "FTTx"

Combination of the 'fibre to the...' services, i.e. fibre to the home and fibre to the cabinet.

#### Cable & DOCSIS 3.1

Cable broadband (typically meaning Virgin Media) is broadband delivered through the copper co-axial network (in most cases; RFOG- excepted) used to deliver cable TV services. This has traditionally been capable of delivering faster speeds than phone line based services. The latest generation, DOCSIS 3.1, can deliver gigabit broadband services.

#### Satellite

Satellite broadband uses geostationary satellites in space to deliver broadband to hard-to-reach areas. Aside from cost the main disadvantage is latency, which makes satellite broadband services slower to use for very 'interactive' applications, such as online gaming. Starlink claims to reduce this significantly. If you're in an area with limited options, this may be worth considering however.

#### 3G / LTE / 4G / 5G (mobile broadband)

These are mobile technologies, evolutions beyond GPRS (2G) and EDGE (2.5G) which were the first types of data used by mobile phones and offered much slower speeds. The later generations like 5G can deliver very fast connections, although the performance varies significantly based on where you are. Using a fixed 4G/5G setup can take advantage of a fixed antenna which will perform better. The difficulty lies when in a congested city environment using a mobile phone, where it's quite possible for a 5G service to perform slower than a 4G one, so newer isn't always better (in the real world).

#### Wireless

Some broadband providers use wireless technologies such as directional Wi-Fi and microwave links to deliver broadband, often across wide open rural areas, where laying cables could be prohibitively expensive.

### Glossary

#### "meg" or Mbps

The speed of broadband services is these days measured in Megabits per second (or Mbps). It is commonly referred to (albeit technically incorrectly) as "meg". 1 Mbps is broadly speaking 1,000Kbps, and 1Gbps (gigabit per second) is around 1,000 Mbps (technically it's a multiplier of 1024 from binary, rather than 1000). Note in particular that a Megabit (Mb) and Megabyte (MB) are very different, 1MB/s = 8Mbps as there are 8 bits in 1 byte. Sometimes you may see speeds when downloading expressed as MB/s, but broadband speeds are referred to in Mbps.

#### "Gig" or "Gigabit" broadband

Broadband that is capable of achieving speeds of 1Gbps (gigabits per second) or thereabouts. In practice this usually means FTTP or DOCSIS 3.1 cable services.

#### "Premises passed"

Term used to describe a premise which is able to order a broadband service with a given provider.

#### "Decent" broadband

This is a definition used by Ofcom of a broadband connection capable of delivering 10 Mbps downstream, and 1 Mbps upstream.

#### "Take-up"

The ratio between premises that order a service and the total 'premises passed' (where a service is available). It should be noted that even if full fibre is available, it doesn't meal all service are provided at 1 Gbps speeds.

### **Recent Developments**



#### New Guide

### How to stay online if the UK experiences power cuts in 2023

https://www.thinkbroadband.com/guides/how-to-stay-online-if-uk-experiences-rolling-power-cuts



#### 22/02/2023 Lords Digital Committee told social tariffs should be VAT exempt

https://www.thinkbroadband.com/news/9482-lords-digital-committee-told-social-tariffs-should-be-vat-exempt



#### 27/02/2023 Will UK reach 50% household full fibre coverage in March?

https://www.thinkbroadband.com/news/9478-will-uk-reach-50-household-full-fibre-coverage-in-march



#### 16/02/2023

# TalkTalk sets new record for traffic carried due to football and Call of Duty release

https://www.thinkbroadband.com/news/9476-talktalk-sets-new-record-for-traffic-carried-due-to-football-and-call-of-duty-release



#### 31/01/2023

# Future gazing - How fast should broadband connections be in 2033?

https://www.thinkbroadband.com/news/9435-how-fast-should-broadband-connections-get-2033



#### 15/12/2022

#### Ofcom Connected Nations report for data up to September 2022

https://www.thinkbroadband.com/news/9406-ofcom-connected-nations-report-for-data-up-to-september-2022-published



#### o6/12/2022 Stop complaining - UK mobile and broadband bills are cheap

https://www.thinkbroadband.com/news/9396-stop-complaining-uk-mobile-and-broadband-bills-are-cheap



# Ofcom performance data shows broadband speeds up 18% in a year

https://www.thinkbroadband.com/news/9333-ofcom-performance-data-shows-broadband-speeds-up-18-in-a-year

21/10/2022

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"When we began our journey to deliver broadband information twenty-three years ago, it was because we were eager to inform the public about the early stages of broadband developments. Since then, the Internet is no longer something we connect to once a day, but part of our everyday lives.

We have always strived to be different. We aren't another comparison site. Hey, we don't even consider ourselves a comparison site as most of the time, we aren't trying to persuade users to switch providers. A lot of the tools we have written are designed to help you troubleshoot your broadband connection. We even work with providers to troubleshoot issues at times.

In 2023 we step into our twenty-fourth year of running the site, with the same passion as when we started, and we look forward to further improving what we offer. We are the most up-to-date source of broadband availability and speed information in the UK, and we want to provide the best and most unique tools to help you understand the performance of your Internet connection.

I am proud that after all this time, the team that was there in the first year is still the team that runs the website today."

#### Sebastien Lahtinen Director



thinkbroadband.com

**labs.thinkbroadband.com/local** Local Broadband Statistics

thinkbroadband.com/speedtest Broadband Speed Test

thinkbroadband.com/ping Broadband Quality Monitor

thinkbroadband.com/download Download Test Files

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