



ATLAS
TOWER GROUP

January 2026

PE19-03 Abbotsley

Atlas Tower Group Limited

Document Classification: Public

Introduction

About Atlas Tower Group

- Atlas Tower Group Limited (Atlas) was established in June 2018, to provide telecommunications infrastructure to the Mobile Network Operators on a national basis
- Over the past year we have been investigating mobile coverage in Cambridgeshire and have identified a number of locations where we believe mobile coverage is particularly poor
- We are meeting with community leaders to discuss the options for improving the coverage issues
- No financial contribution required for the development of the site. Atlas have contracts in place with all of the mobile operators who pay an annual rental for having their equipment on our site
- This proposal is entirely voluntary, Atlas only want to work in locations where the local community are engaged and supportive of what we are trying to do. So far, the response has been extremely positive

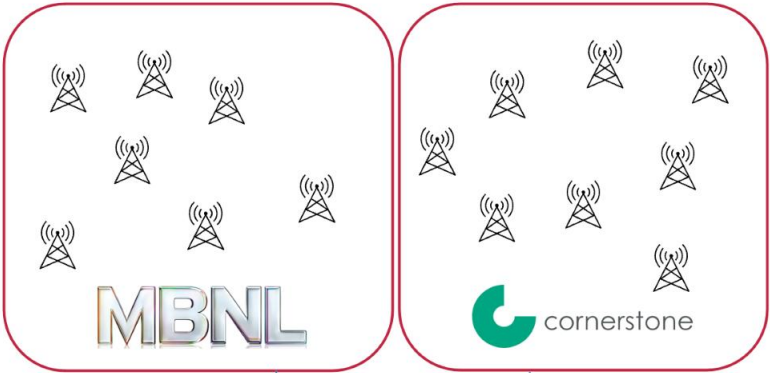
One of our sites in Wolverhampton



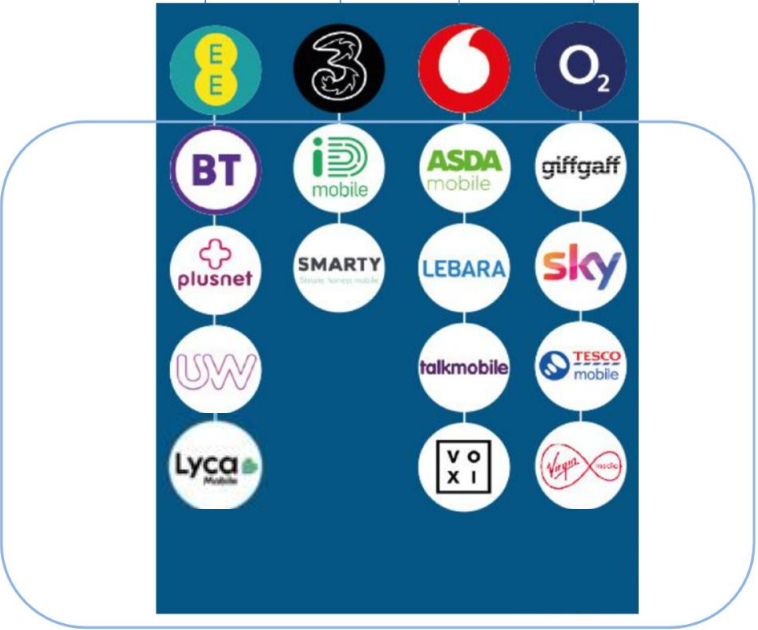
UK Infrastructure



Only two physical networks although there are some unilateral deployments



Network Operators



Wholesale Reseller (MVNO) Mobile Virtual Network Operators do not own any sites



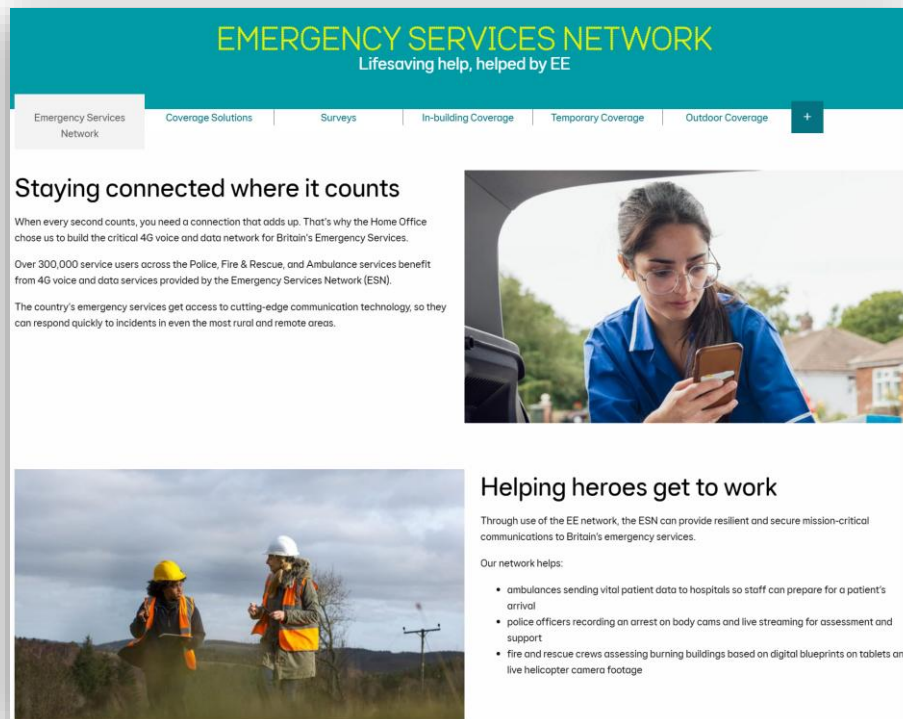
Cellnex and Atlas etc are tower owners only and don't operate networks. MBNL and Cornerstone rent space on these towers



Why do I need mobile phone coverage?

Emergency Services Network (ESN EE)

<https://www.gov.uk/government/publications/the-emergency-services-mobile-communications-programme/emergency-services-network>



The screenshot shows the top of the ESN website with a teal header. Below the header is a navigation bar with links: Emergency Services Network, Coverage Solutions, Surveys, In-building Coverage, Temporary Coverage, and Outdoor Coverage. The main content area has a section titled 'Staying connected where it counts' with text about the critical 4G voice and data network for Britain's Emergency Services. Below this is a photo of a woman in a blue uniform looking at her phone. Another section titled 'Helping heroes get to work' describes how the ESN provides resilient and secure mission-critical communications to Britain's emergency services, with a list of examples: ambulances sending vital patient data, police officers recording an arrest, and fire and rescue crews assessing burning buildings.

EMERGENCY SERVICES NETWORK
Lifesaving help, helped by EE

Emergency Services Network | Coverage Solutions | Surveys | In-building Coverage | Temporary Coverage | Outdoor Coverage | +

Staying connected where it counts

When every second counts, you need a connection that adds up. That's why the Home Office chose us to build the critical 4G voice and data network for Britain's Emergency Services.

Over 300,000 service users across the Police, Fire & Rescue, and Ambulance services benefit from 4G voice and data services provided by the Emergency Services Network (ESN).

The country's emergency services get access to cutting-edge communication technology, so they can respond quickly to incidents in even the most rural and remote areas.

Helping heroes get to work

Through use of the EE network, the ESN can provide resilient and secure mission-critical communications to Britain's emergency services.

Our network helps:

- ambulances sending vital patient data to hospitals so staff can prepare for a patient's arrival
- police officers recording an arrest on body cams and live streaming for assessment and support
- fire and rescue crews assessing burning buildings based on digital blueprints on tablets and live helicopter camera footage

Smart Metering (VMO2 & Vodafone)

<https://www.smartdcc.co.uk/our-smart-network/does-a-smart-meter-need-wi-fi/>



<https://www.renewableenergyhub.co.uk/blog/why-smart-meters-are-important-for-the-net-zero-target>

Medical Applications

Connected wearables are transforming the management of type 1 diabetes



<https://news.virginmediao2.co.uk/supporting-children-with-diabetes/>

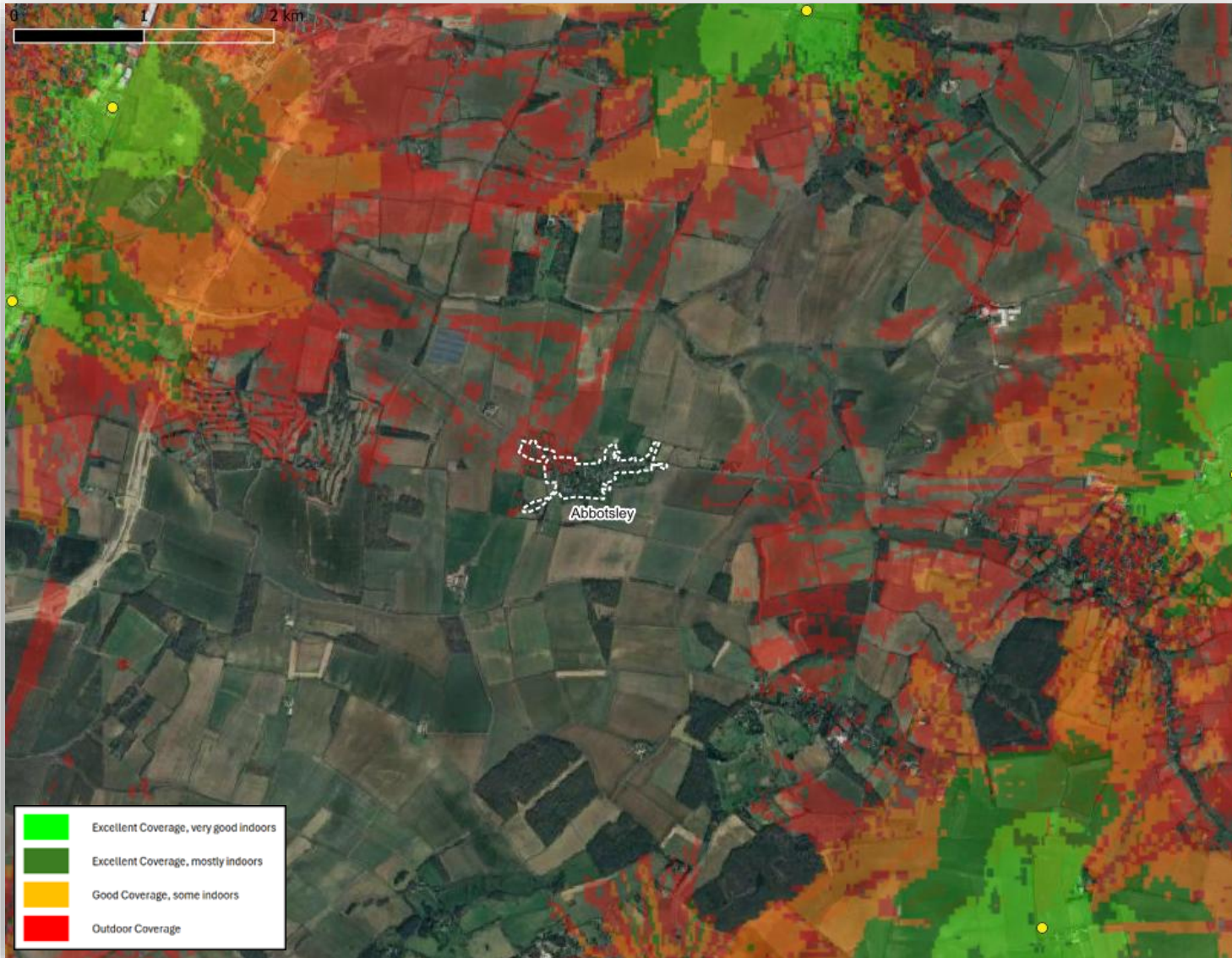
Remote monitoring requires mobile connectivity

- These devices are a 'game-changer' for families across the UK
- Children no longer need to be pricked multiple times a day to check their glucose levels as the results go straight to a smartphone
- Parents can log in remotely and monitor the condition so that children and their parents can lead normal active lives.

VMO2 are working to ensure the technology is available to all

- Virgin Media O2 has provided 1,000 refurbished smartphones via Community Calling to charity, Supporting Children with Diabetes, and pledged a further 500 devices to help low-income families manage Type 1 diabetes
- The devices are helping families across the UK to check their children's blood glucose levels in real-time, which can help keep the condition under control
- It's part of Virgin Media O2's commitment to provide 12,000 devices and data to people who need them throughout 2025

PE19-03 Abbotsley: Existing Coverage

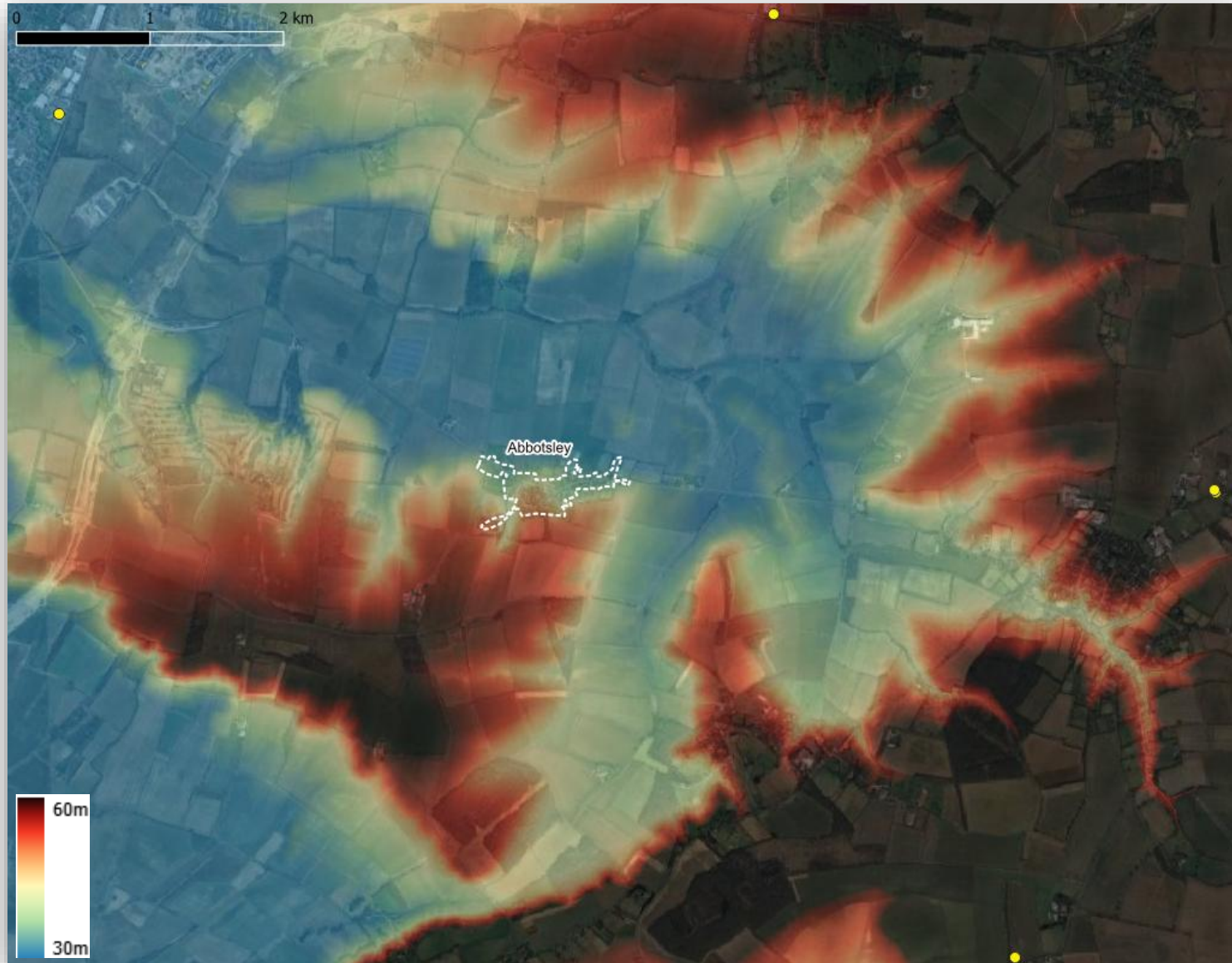


Existing predicted coverage from nearby sites. (Sites are indicated by the yellow dots within the centre of the bright green areas.)

This shows that coverage to Abbotsley is provided by sites that are over 3km away.

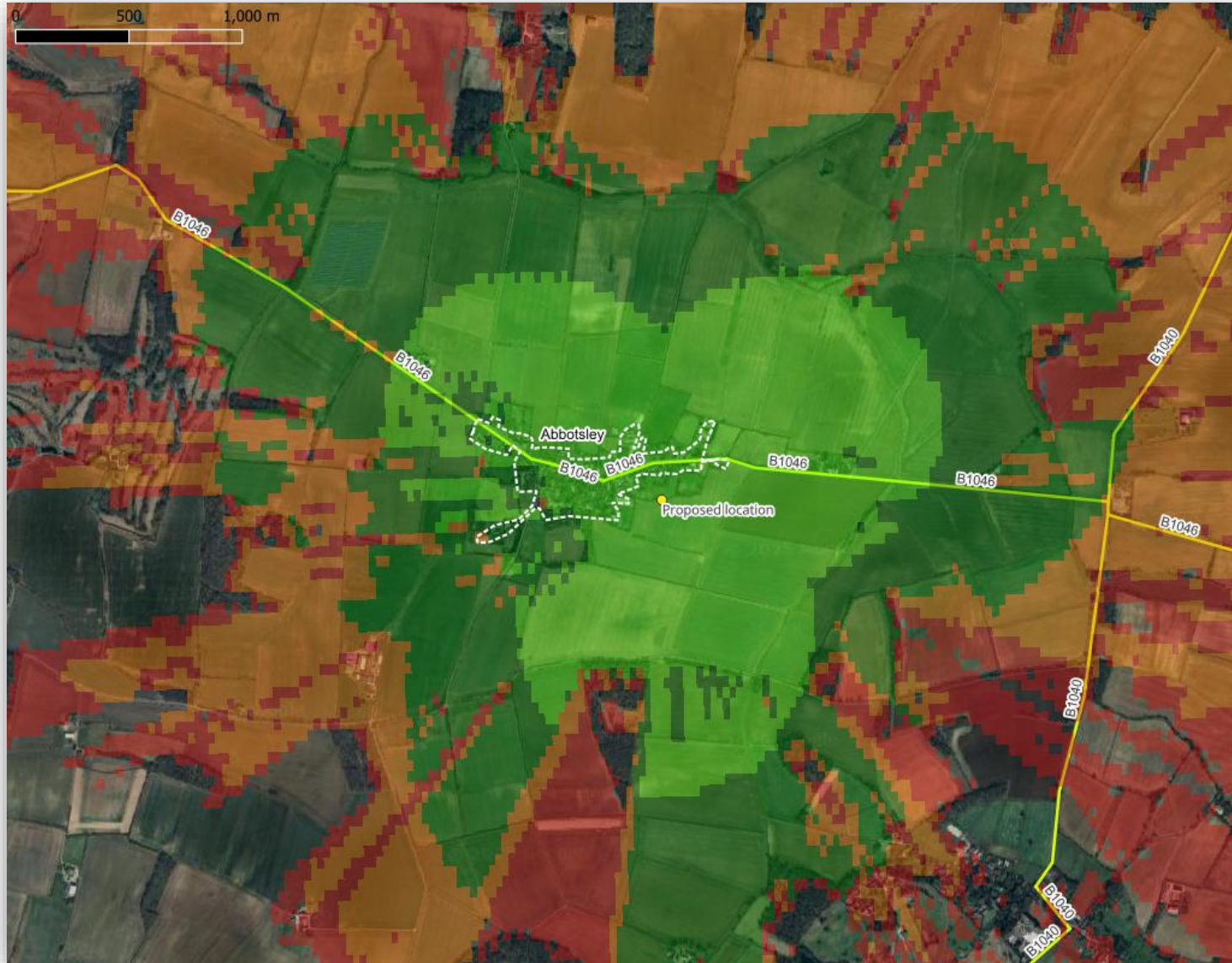
The existing sites are not close enough to provide full 4G and 5G services to the whole village.

PE19-03 Abbotsley: Terrain



Abbotsley sits on the edge of an elevated section of terrain. The village itself has a mixture of ground levels, with the Church of St Margaret at its highest point, approximately 50m above sea level.

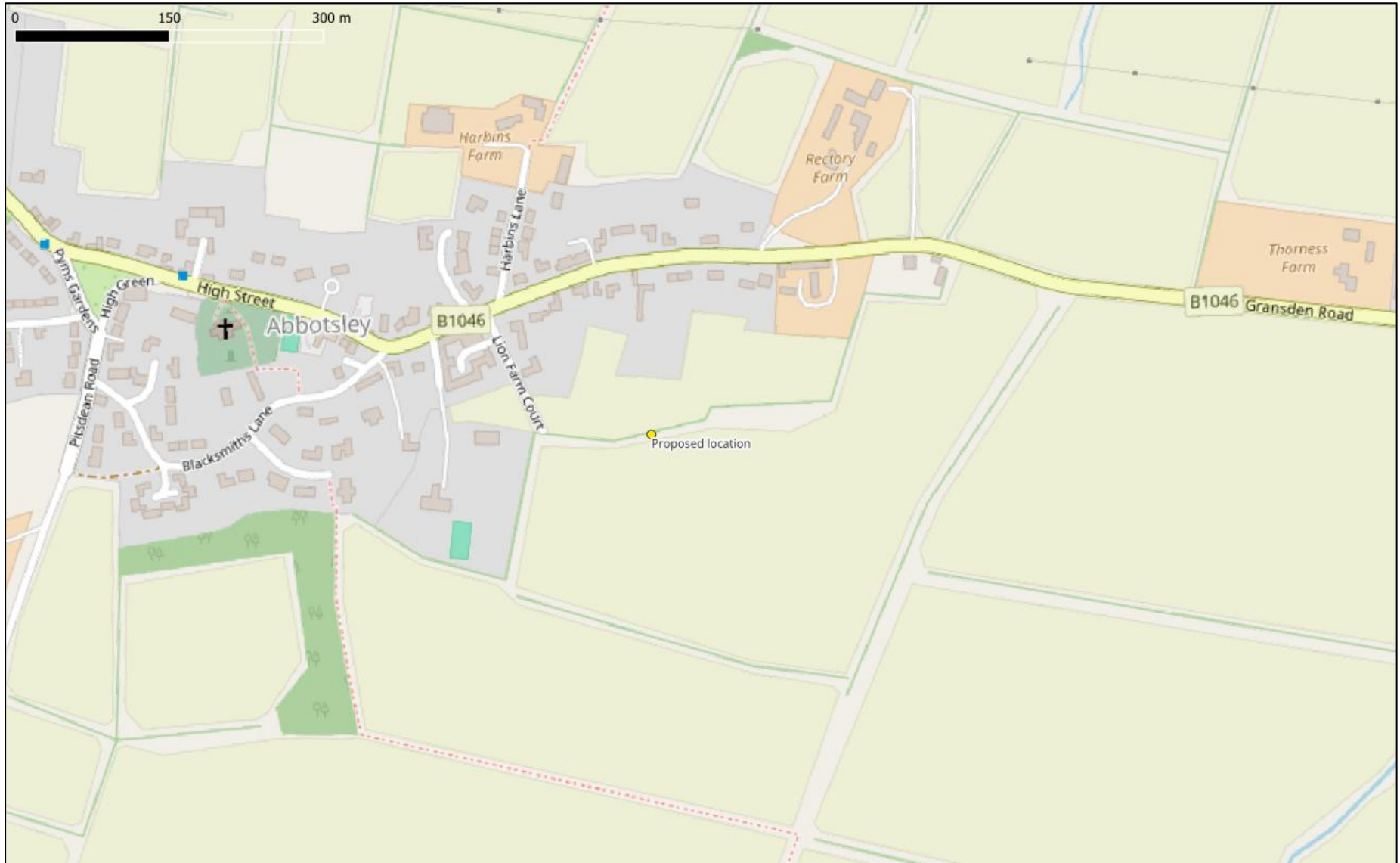
PE19-03 Abbotsley: Predicted Coverage



Areas in and around 1km of a site will receive the best coverage (indoor / outdoor). The further you are from the site the less coverage there will be, decreasing from good indoor and outdoor to outdoor only. Terrain and the environment will also factor into this.

A potential site in the east of the village would provide good coverage to Abbotsley and the B1046.

PE19-03 Abbotsley: Proposed location



PE19-03 Abbotsley: Photomontages viewpoint map



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PE19-03 Abbotsley: Photomontage

Viewpoint 1 - Public right of way to the east of Pitsdean Road



PE19-03 Abbotsley
Viewpoint 1 (25m)



PE19-03 Abbotsley: Photomontage

Viewpoint 2 - Lion Farm Court



PE19-03 Abbotsley
Viewpoint 2 (25m)



PE19-03 Abbotsley: Photomontage

Viewpoint 3 - High Street (bottom of Lion Farm Court)



PE19-03 Abbotsley
Viewpoint 3 (25m)



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PE19-03 Abbotsley: Photomontage

Viewpoint 4 - High Street



PE19-03 Abbotsley
Viewpoint 4 (25m)



PE19-03 Abbotsley: Photomontage

Viewpoint 5 - High Street (next to the Church of St Margaret)



PE19-03 Abbotsley
Viewpoint 5 (25m)



PE19-03 Abbotsley: Photomontage

Viewpoint 6 - High Street (close to Blacksmiths Lane)



PE19-03 Abbotsley
Viewpoint 6 (25m)



PE19-03 Abbotsley: Photomontage

Viewpoint 7 - Gransden Road





So what is the best advice when using a mobile phone?

There is no immediate need for concern when using mobile phones or having a base station in your area. This is because, despite much research, there is no convincing evidence that either will cause harm. However, we have only been using mobile phones widely for the last decade or so and we need more research to look at the situation, particularly in the long term.

The body and nervous system are still developing into the teenage years. Therefore, as a precaution, the UK Chief Medical Officers advise that children and young people under 16 should be encouraged to use mobile phones for essential purposes only, and to keep calls short. If you are concerned, you can take steps to reduce your exposure such as using hands free kits or texting.

To see the evidence available so far, visit the websites given at the back of this leaflet.



Where can I find more information?

The Department of Health website www.dh.gov.uk/en/PublicHealth/Radiation has a list of places to find a whole range of information about:

- scientific research
- international guidelines
- radio wave measurement standards
- European regulations
- planning for base stations
- exposures from base stations
- the law on mobile phones and driving
- many other issues associated with mobile phone use.

Further information

World Health Organization – www.who.int/mediacentre/factsheets/fs193/en/index.html

Health Protection Agency – www.hpa.org.uk
Type 'mobile telephony and health' into the search bar

NHS Choices – www.nhs.uk/conditions/mobile-phone-safety/pages/introduction.aspx

Directgov – www.direct.gov.uk
Type 'mobile phones' into the search bar

Ofcom Sitefinder website about base station emissions – www.sitefinder.ofcom.org.uk

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Mobile phones and base stations



Health advice on using mobile phones

Click image to visit webpage link.



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[Home](#) > [About Cancer](#) > [Causes of cancer](#) > [Cancer myths and common questions](#) > Do mobile phones or Wi-Fi cause cancer?

Do mobile phones or Wi-Fi cause cancer?

- Mobile phones and networks (4G and 5G) do not cause cancer. Wi-Fi does not cause cancer.
- Radiofrequency radiation is too weak to be able to cause cancer by damaging DNA
- Research continues to monitor the safety of mobile phones and signals, in case of any long-term health effects

► [Read about the proven causes of cancer](#)

► [More cancer myths and common questions](#)

► [How does Cancer Research UK evaluate research?](#)

Why are some people worried about mobile phones and cancer?

We often hold our phones to our heads, or keep them close by in pockets or bags. Some people are worried that the radiation from mobile phones can cause cancer, especially brain cancer. Or that keeping phones in a bra will lead to breast cancer.

But the type of radiation that mobile phones and phone masts use doesn't have enough energy to cause cancer by damaging DNA.

What does the research say about mobile phones and cancer?

Using mobile phones does not increase your risk of cancer.

Mobiles use a type of electromagnetic radiation called radiofrequency radiation (radio waves). It's a weak form of radiation, the same type that radios, televisions and microwave ovens produce. Radio waves do not have enough energy to damage DNA. So there's no good explanation for how radio waves could cause cancer.

Some studies claim that mobile phones could increase cancer risk. But a lot of these studies are in animals, and some use unrealistically high levels of radiation. So they cannot reliably tell us about cancer risk from mobile phones in the real world.

Click image to visit webpage link.



[UK Health
Security
Agency](#)

Guidance

Mobile phone base stations: radio waves and health

Updated 30 July 2024

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[Summary](#)

[Mobile network technology](#)

[Exposure guidelines](#)

[Health-related evidence and reviews](#)

[Protection measures](#)

[Monitoring of exposures](#)

Summary

Base stations transmit and receive radio waves to connect the users of mobile phones and other devices to mobile communications networks. The strength of the radio waves from base station antennas reduces rapidly with increasing distance and the levels at locations where the public can be exposed tend to be small.

The health effects of exposure to radio waves have been researched extensively over several decades, and very many publications can be found in scientific journals and elsewhere. Coordinated research around the world has addressed concerns about rapidly proliferating mobile communications technologies from around the year 2000.

Independent expert groups in the UK and at international level have examined the accumulated body of research evidence. Their conclusions support the view that health effects are unlikely to occur if exposures are below international guideline levels.



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#5GCheckTheFacts



#5GCheckTheFacts > 5G and health concerns

[Introduction](#)[What is 5G?](#)[5G radio waves](#)[5G masts and base stations](#)[Macro and Small Cells](#)[5G and health concerns](#)[5G benefits](#)[#Talking5G Series](#)[5G Case Studies](#)

Mobile phones and mobile masts transmit and receive radio waves, which are a type of electromagnetic radiation. Importantly, this type of radiation is classed as mainly harmless, or in scientific terms, non-ionising when used within guidelines, just like our TVs, remote controls, home WiFi and so on. It is widely recognised that the strength of the signals is extremely weak and therefore does not have enough energy to cause adverse health effects.

As you can see from the graph below, 5G falls way short of the ionising (harmful) part of the electromagnetic spectrum.

For further information on the current evidence base please click [here](#) to read a report on Radiofrequency and Human Health: An overview of the current evidence base.



Click image to visit webpage link.