



ATLAS
TOWER GROUP

October 2024

DY11-01 Hartlebury

Atlas Tower Group Limited

Document Classification: Public

Introduction

About Atlas Tower Group

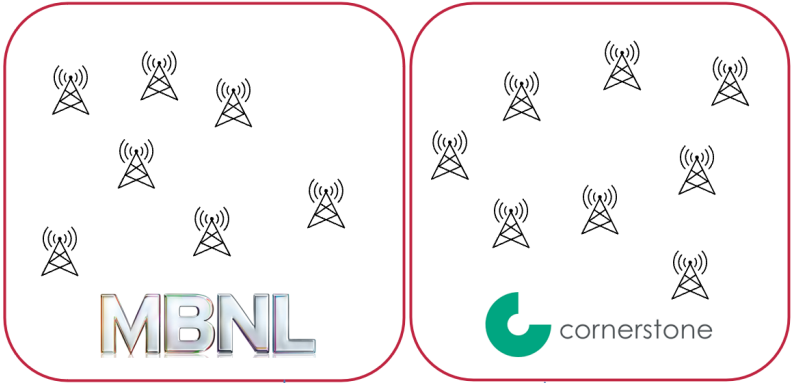
- Atlas Tower Group Limited (Atlas) was established in June 2018, to provide telecommunications infrastructure to the Mobile Network Operators on a national basis
- Over the past 10 months we have been investigating mobile coverage in Shropshire and have identified around thirty locations where we believe mobile coverage is particularly poor
- We are now meeting with the community leaders in groups like this one 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



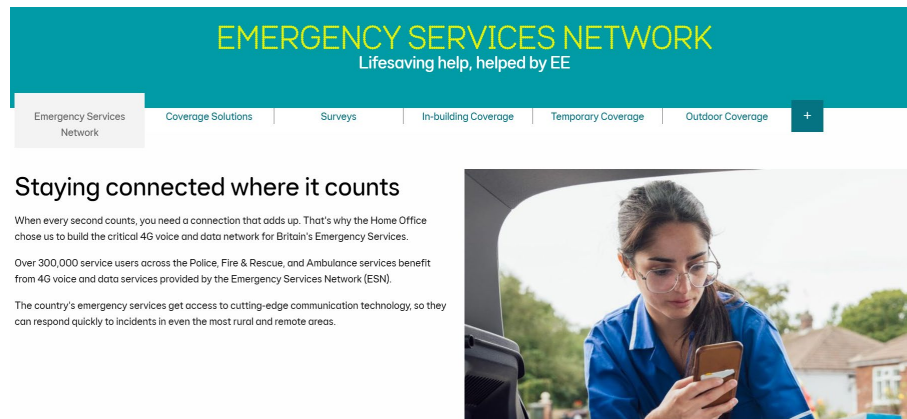
Cellnex and Atlas etc are tower owners only and don't operate networks. MBNL and Cornerstone rent space on these towers



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>



EMERGENCY SERVICES NETWORK
Lifesaving help, helped by EE

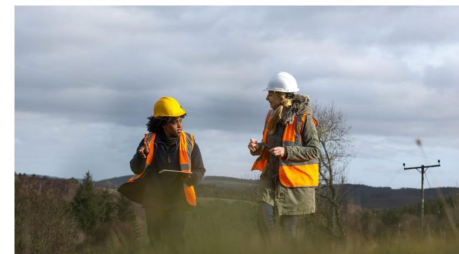
Emergency Services Network | Coverage Solutions | Surveys | In-building Coverage | Temporary Coverage | Outdoor Coverage | +

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>

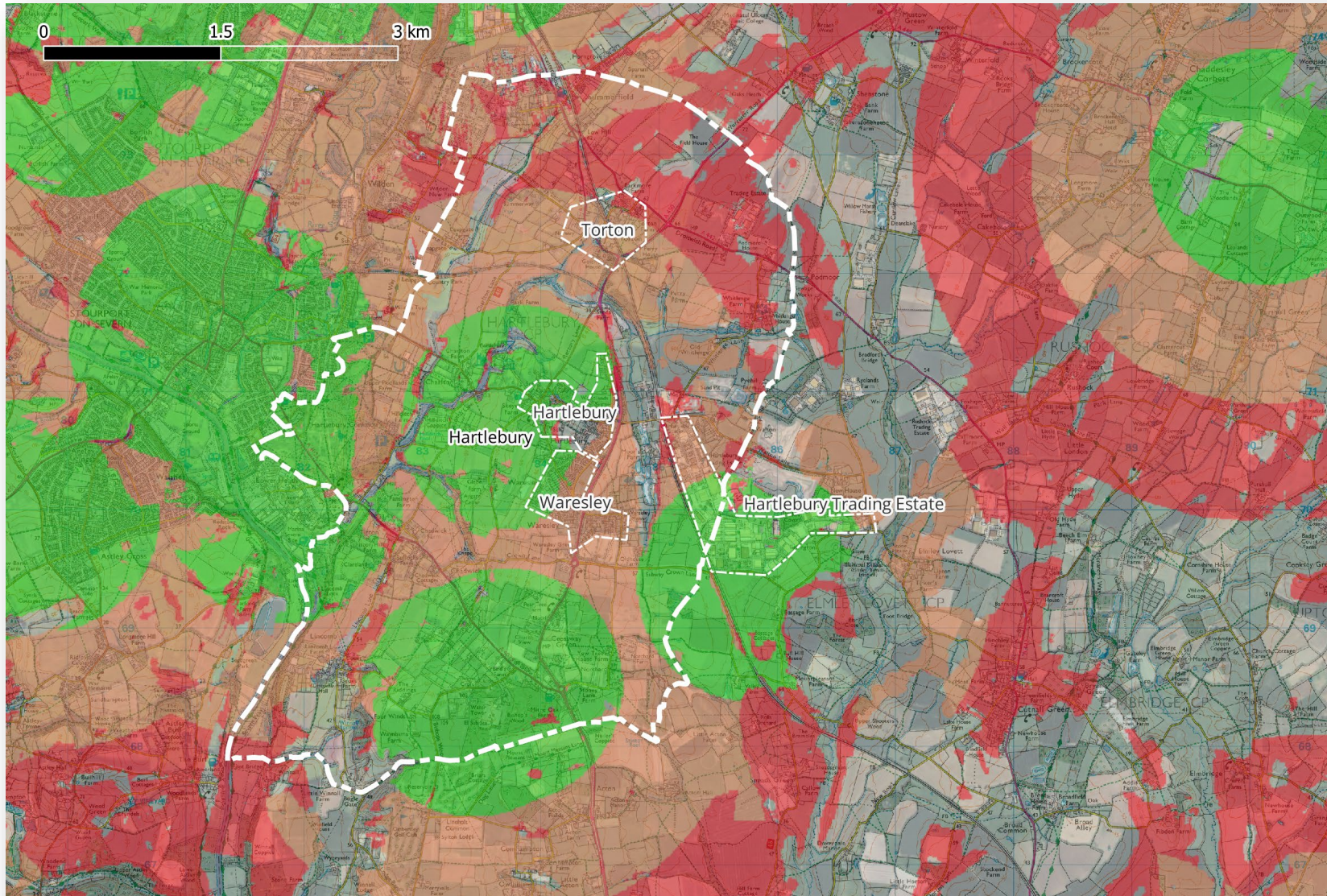
Craster

Working with Craster Parish Council and Northumberland County Council

- Over a period of 8 months, Atlas have acquired a lattice tower in Craster. This includes full lease rights and planning consent.
- Whilst working closely with the local community, parish council and county council, a proposal was agreed to provide coverage in Craster, where there is currently no mobile reception at all.
- As the location is within an AONB designation, Atlas visited the location in person with the AONB officer to discuss the proposal, as well as walking the Northumberland coastal path.
- Presentations and open sessions in the Craster Parish Council meeting provided an opportunity for local residents and business owners to be involved in the acquisition, design and planning process.

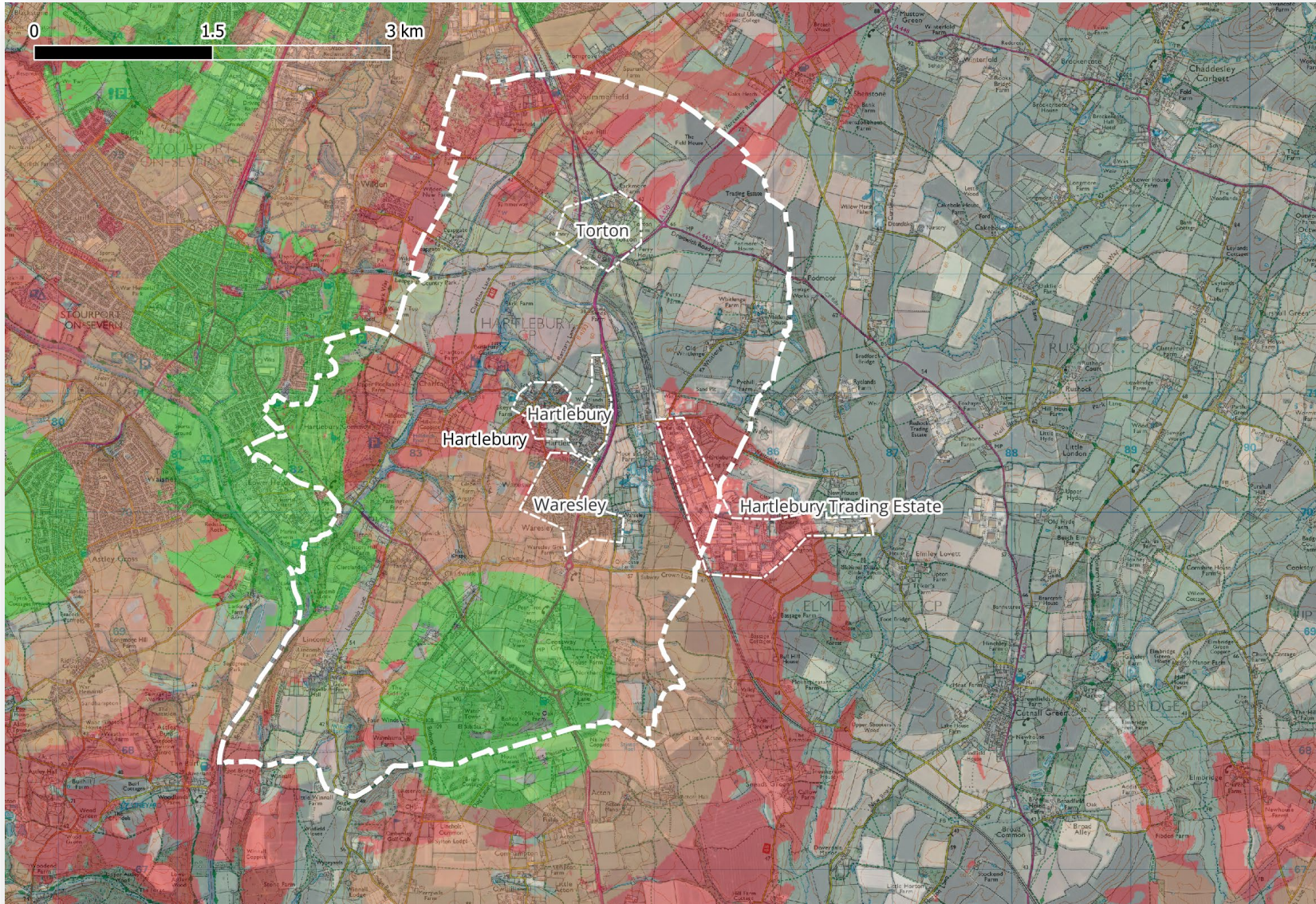


DY11-01 Hartlebury: Predicted Coverage (All Networks)



Whilst predicted coverage appears to be good, the nature and limitations of the nearest sites mean that the village is not covered as well as it could be. This is particularly the case for EE and Three who have a nearby site that is affected by terrain. Vodafone and VMO2 are further away, missing Torton and Hartlebury completely.

DY11-01 Hartlebury : Predicted Coverage (VMO2 and Vodafone)



Existing predicted coverage from nearby sites (at the centre of the green circles).

Coverage for VMO2 and Vodafone fails to reach Hartlebury and Torton.

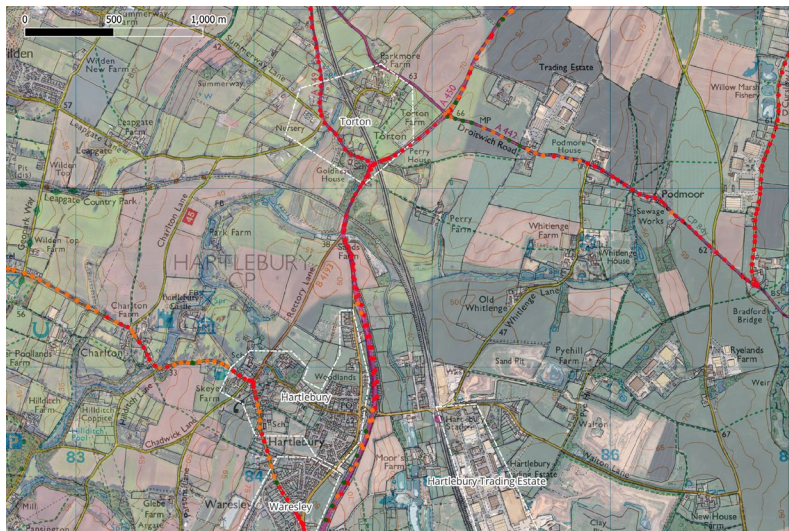
DY11-01 Hartlebury: Drive testing data

- No signal: Disconnection
- Fair to poor: Reliable data speeds may be attained but marginal data with dropouts possible
- Good: Strong signal with good data speeds
- Excellent: strong signal with maximum data speeds

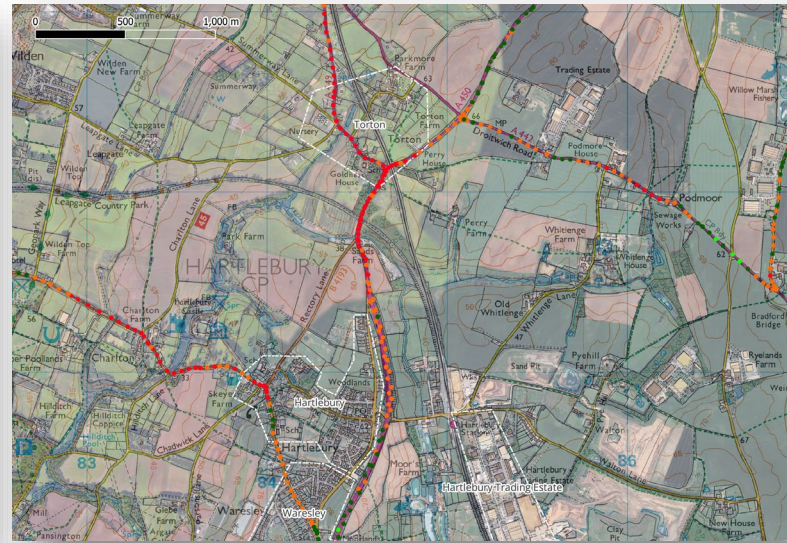
EE



VM02



Three



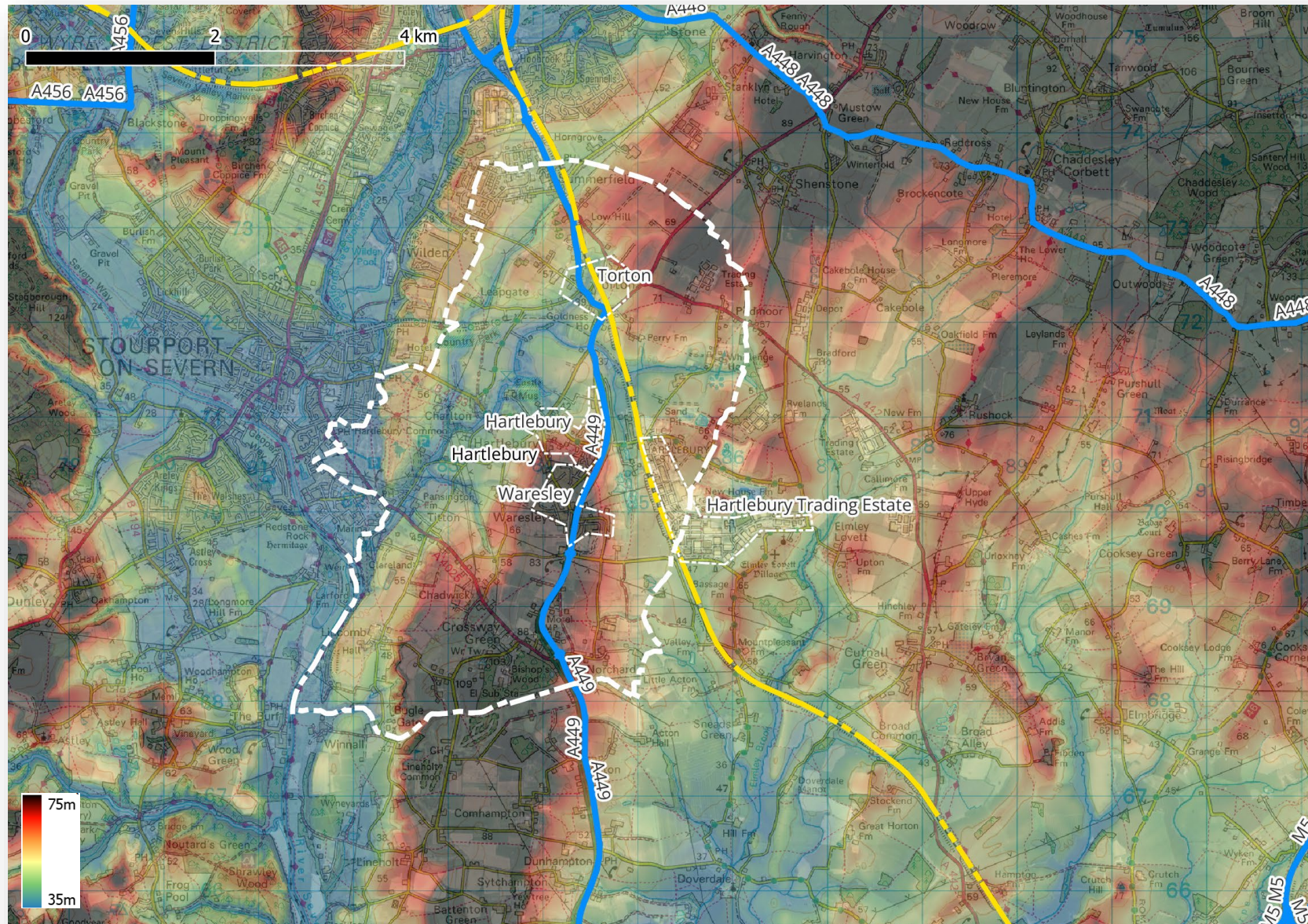
Vodafone



Drive testing that measures how good the mobile phone is in different locations along roads show that coverage is poor.

The type and nature of existing sites, old technology and terrain are key factors that make reception poor in this area.

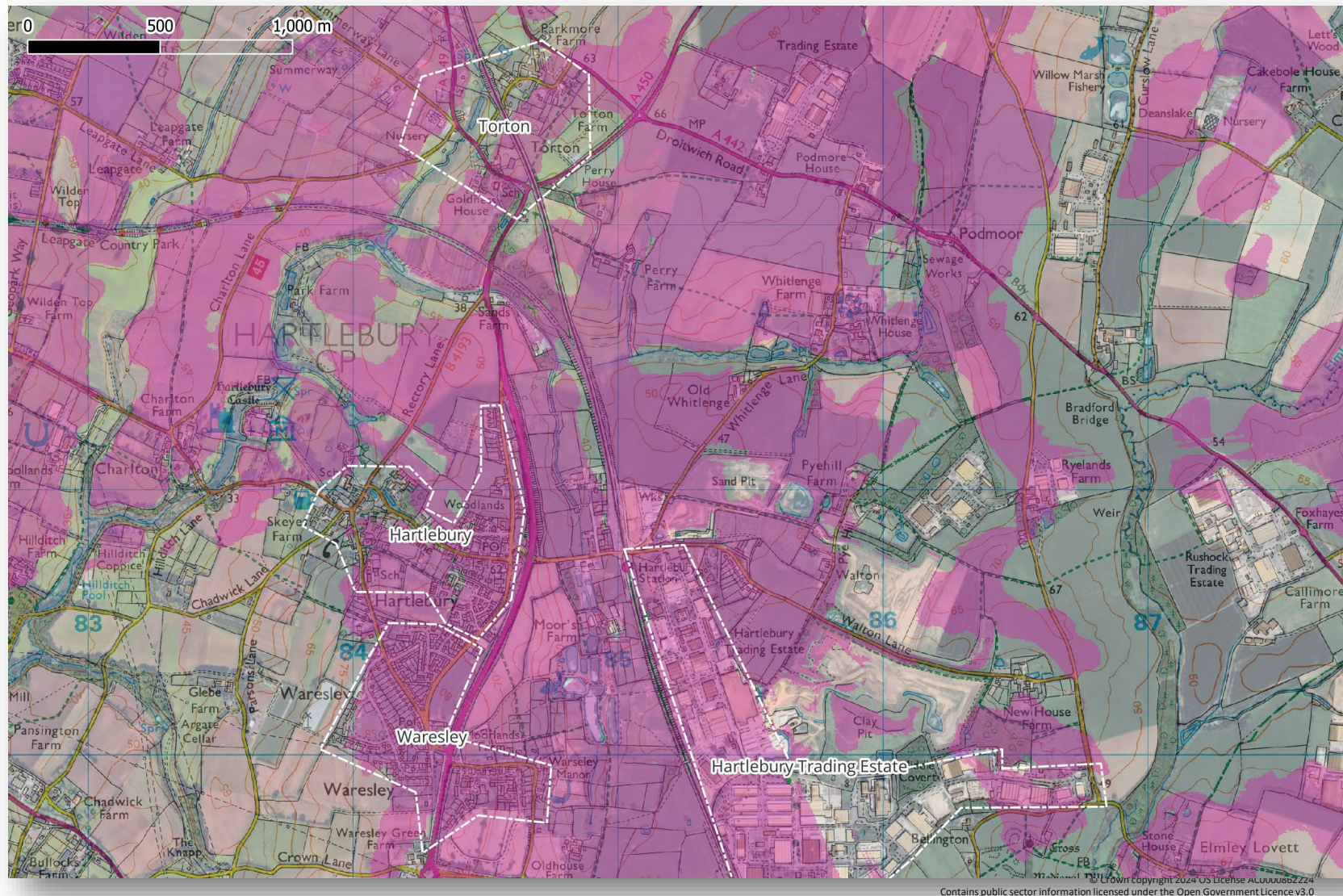
DY11-01 Hartlebury: Terrain



Hartlebury and Waresley are located on the northern section of high ground, with the land dropping sharply on all sides into deep river valleys.

A roads are located along the ridge and to the north of Torton.

DY11-01 Hartlebury : Potential Predicted Coverage



Potential site locations have been identified that provide good coverage to Hartlebury and the surrounding areas. Locations are limited by terrain. The next step is for Atlas to agree terms with a potential landlord.

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