



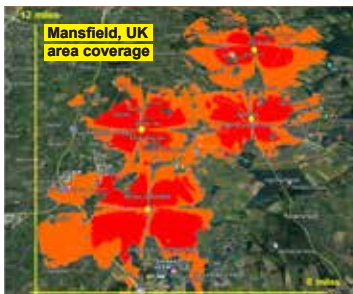
# ENABLING YOUR **OFCOM 26GHz** APPLICATION WITH GIGABIT FWA

In our fast-paced digital era, the demand for high-speed internet connectivity continues to surge. Especially for rural and semi-rural areas that are still experiencing low broadband network penetration rates, the cost-efficient delivery of gigabit connectivity at extended ranges is a significant challenge for service providers.

Such a major challenge can be overcome with state-of-the-art mmW licensed band Fixed Wireless Access (FWA) technology to deliver Gigabit to the Home service swiftly and cost-effectively. The millimeter wave spectrum, with state-of-the-art massive beamforming and MIMO, can be used to connect unserved and underserved households with blazing gigabit speed. This technology is provided by the WiBAS<sup>™</sup> G5 product family, today.

## STABLE FWA SPEED IN RURAL / SEMI-URBAN AREAS AT LOW TCO

The Figure below illustrates a real case study in the area of Mansfield, UK. The coverage of the area of interest requires 4 WiBAS<sup>™</sup> G5 base stations (cells). End users can access speeds in the order of Gigabit/s even at distances of 4-8 km (2.5-5 miles) from the center of the cell. The alternatives for the WISPs and operators are to use unlicensed band products with severely degraded quality of service, or 5G technology with an inevitable increase in complexity and cost; this translates into a need to deploy at least 64 base stations - a number approx. 20 times larger leading to a major increase in Total Cost of Ownership (TCO) and the environmental burden due to the considerable increase in energy consumption.



Capacity for 480 customers per BS-site (4 sectors)



Capacity for "Every User" to get 1 Gbps DL



20 Gbps total Capacity per BS-site (@200MHz)



approx. 4 BS-sites for 100% coverage of 10x10miles