

WM5G Introduction

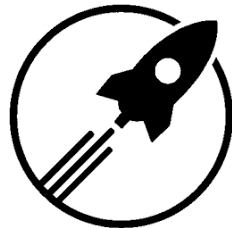
9th June 2022



We started WM5G three years' ago with two key objectives



2
Test, prove and scale
new 5G services



Global hub for
Technology
innovation

1
Accelerate 5G &
fibre networks



UK's most
connected
region

WM5G has successfully launched over 40 5G trials and is proving the benefits of 5G to transform congestion, productivity & patient care

Strategic Challenges:

Innovation

Health & social care

Improve care & prevention



- ✓ Care home trial live in 8 care home
- ✓ Early cancer diagnosis trial completed
- ✓ UK's 1st 5G connected ambulance trial

Manufacturing

Improve productivity + jobs



- ✓ 5G live in 1st SME with AE Aerospace trials
- ✓ MTC to support hundreds of SMEs

Transport

Reduce congestion + pollution



- ✓ Road sensor network live at 270 junctions
- ✓ 1st 5G connected tram
- ✓ 14 projects developing new products to support road/rail infrastructure and traveller experience

5sprinG

Growing businesses + jobs



- ✓ Over 400 organisations participated so far
- ✓ Green innovation challenge completed
- ✓ Local Gov't smart cities challenge in progress

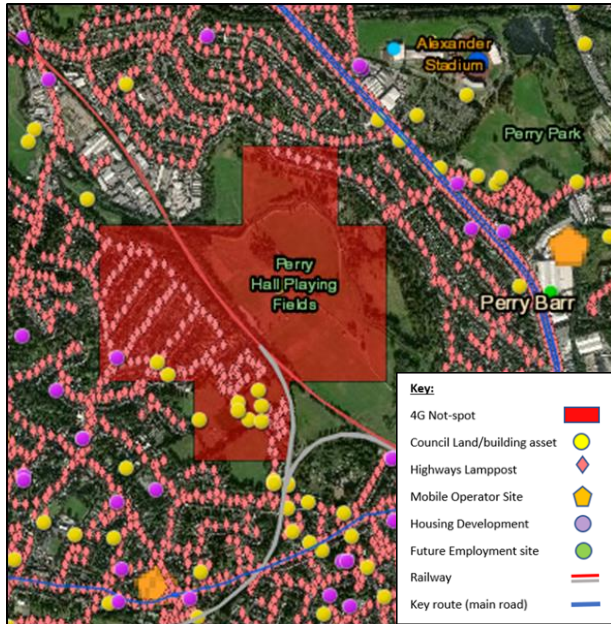
WM5G has successfully accelerated the rollout of 5G via barrier busting and has launched multiple small cell trials

Connectivity map + barrier busting programme

Making public assets available (land, buildings and lampposts)

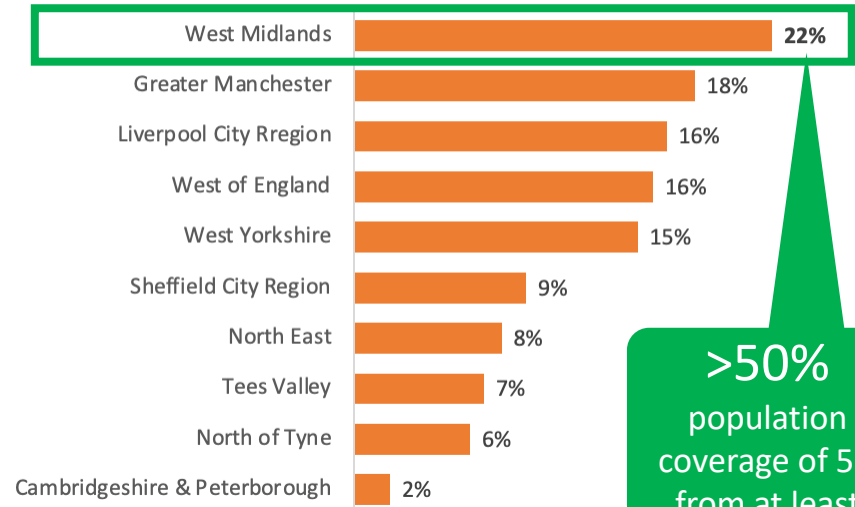
Removing red tape between LAs and Mobile Operators

Lower costs & accelerate deployment time by >6 months



Best connected region for 5G so far

5G geographical coverage by region %, Dec-21



>50% population coverage of 5G from at least one MNO

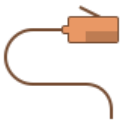
Source: Umlaut, Dec 2021

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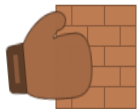
Shared Infrastructure

- Created new commercial and technical solution for outdoor Small Cells
- Developed a Connected Map for use by Operators and Councils (Public assets and mobile coverage)
- Defining specifications for Smart Infrastructure



Fibre

- Investigated and developed approaches to support both Councils and Fibre providers to deploy more Full Fibre across the region.



Barrier busting

- Expert support to Councils and Operators
 - Navigating legal hurdles from the Electronic Communications Code
 - Consistent application to Town and Country planning
 - Enhanced Operator and Council dialogue – Code cost model

Councils - Are You Ready for 5G Rollout?

Points to consider



- Is there a mandate from your Executive in support of the recommendations in the FTIR?
- Have you a digital infrastructure strategy?
- Have you a Digital Champion, and a Digital Co-ordinator?
- Are all your assets mapped and available to operators?
- Are you aware of the Electronic Communications Code, and the progress of any ongoing property negotiations.
- Are you aware of NPPF 2019? Are your town planners and planning committee conversant and adherent?
- Are you aware of the DCMS portal?

Key takeaways



5G and digital connectivity offer significant benefits to businesses, citizens and the public sector but these benefits won't happen automatically



The West Midlands has become the best connected region for 5G by making it radically simpler and faster to rollout 5G



In parallel we've proven the benefits of 5G through real-world trials bringing together demand and supply side organisations in key sectors



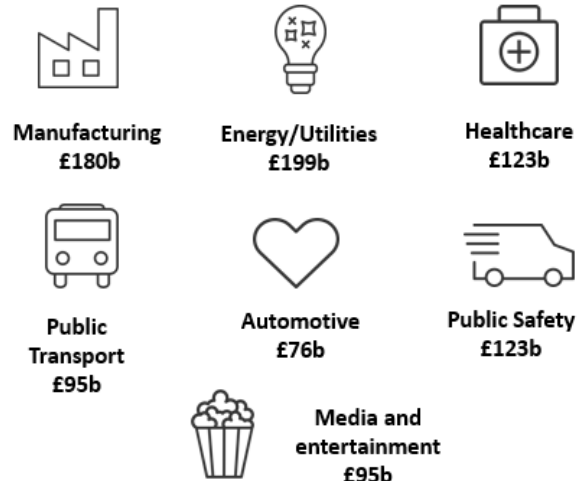
Now we're scaling-up these innovations working in partnership with the W Mids, other regions, gov't and private sector companies



Benefits - Better connectivity = economic prosperity



5G will generate a value of £460bn-£1.0tn by 2026



5G in the UK will deliver £150bn of value by 2030

Vodafone / WPI Economics report (2020)

Gigabit capable broadband

£59b

boost to GVA
by 2025

Marginal uplifts in the speed of broadband capability reflect as measurable benefits to efficiency and productivity gains. And with Full Fibre deployment by 2025, **GVA could be boosted by £59 billion, rising to over £70 billion in 2038**

20:1

Return on
investment

Huge Public and Private investment being injected and reported that private – public interventions projected to return approximately **£20 in net economic impact for every £1 of public investment**

Thanks

