

West Midlands 5G

Transforming the West Midlands

GLA Webinar
Gaining Support from
Your Colleagues
3rd December 2020



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Getting Ready for 5G

Gaining Support from Your Colleagues

WM5G – What is our remit? The Urban Connected Communities project, trialling use cases, and the role of Infrastructure Acceleration

Infrastructure Acceleration and Barrier-Busting

The prerequisites – Are you ready for 5G rollout?

Town Planning challenges and considerations

Working with the Electronic Communications Code

Next steps

Questions



WM5G – What's our remit?



WM5G – What's our remit?



Benefits

2

Test, prove and scale new 5G services

5PRING



Global hub for Technology innovation

5G Accelerators

5G Testbeds (part-funded)

1

Accelerate 5G & fibre networks



UK's most connected region

5G Infrastructure Acceleration



5G will generate a value of 600bn-1.2Tn by 2026



Manufacturing
\$234b



Energy/Utilities
\$259b



Healthcare
\$160b



Public Transport
\$123b



Public Safety
\$160b



Automotive
\$99b



Media and entertainment
\$123b

Top 5 current use case clusters



**Real time
automation**



**Monitoring
and tracking**



**Enhanced
video services**



Remote operations



Connected vehicle



Infrastructure Acceleration



Infrastructure Acceleration – What do we do..

What have we been doing to accelerate connectivity.....

.....Investigating new ways of working that speed up the deployment of 5G and reduce the cost



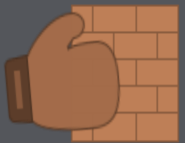
Shared Infrastructure

- Greater ubiquity of connection - Investigating new commercial and technical models for out door small cell networks and pilot in the WM.
- Developing a Connected map for use by Operators and Councils



Fibre

- Working with Councils and Fibre providers to develop options that stimulate the deployment of Full fibre across the West Midlands.



Barrier busting

- Expert support to Councils and Operators
 - Utilising public assets
 - Navigating legal hurdles from the Electronic Communications Code
 - Consistent application to Town and Country planning

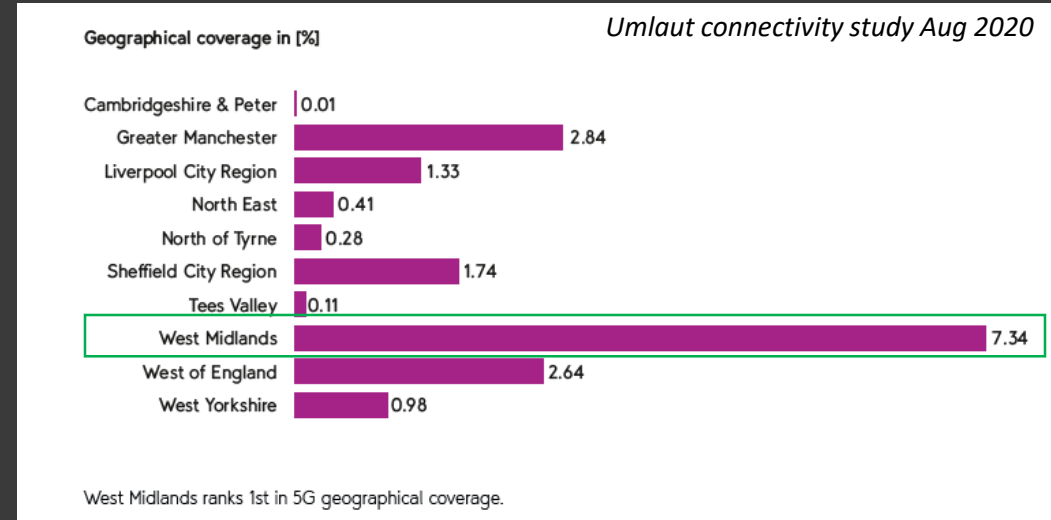
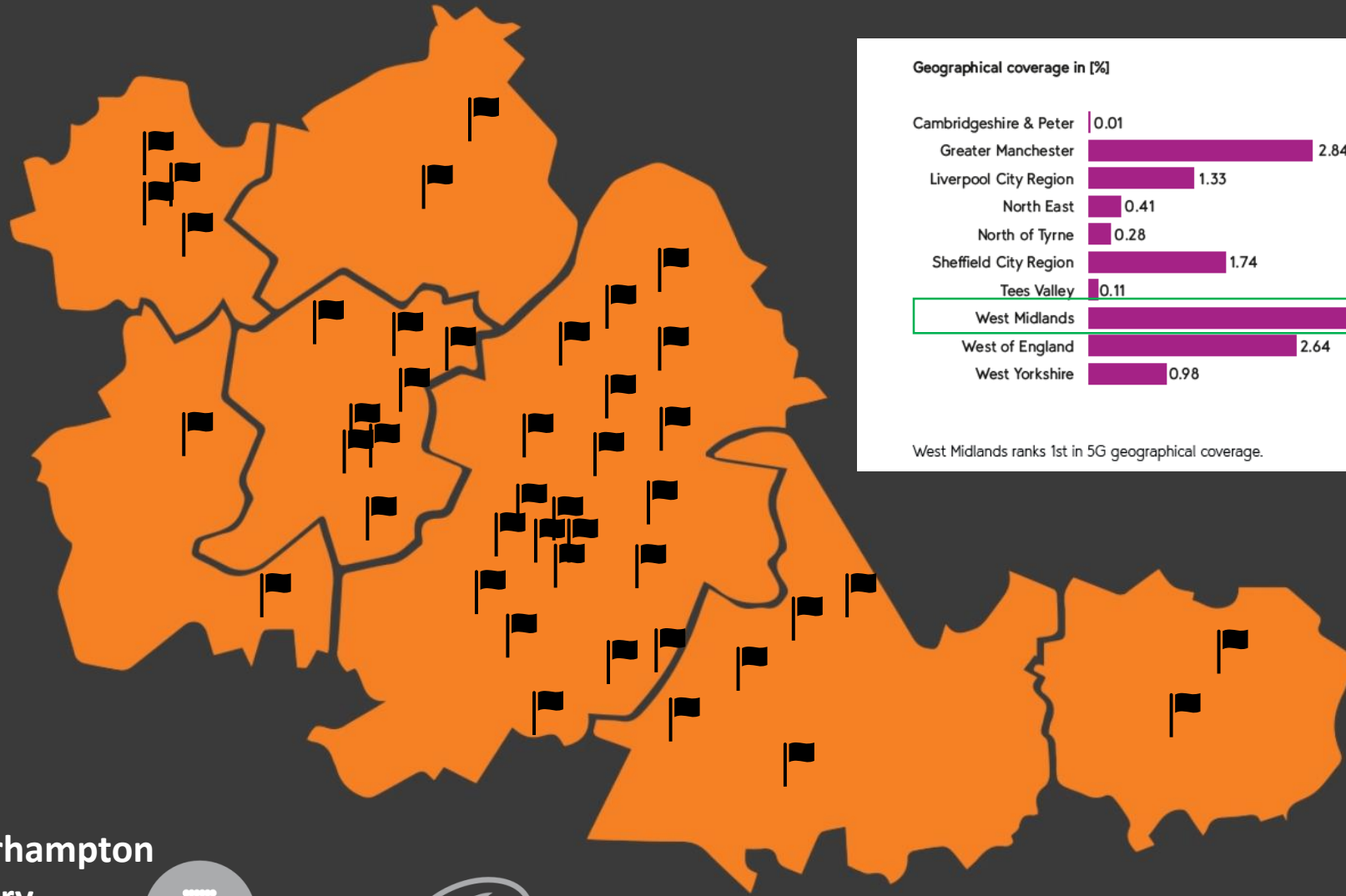
West Midlands Has The Best 5G Mobile Coverage In The UK – Thanks In Part To The WM5G Pioneering Barrier Busting Work

Towns:

Walsall
Rowley Regis
Smethwick
Dudley
Wednesbury
West Bromwich
Hockley
Handsworth
Perry Bar
Erdington
Yardley

Cities:

Sparkbrook
Balsall Heath
Sandwell
Solihull
Shirley
Wolverhampton
Coventry
Birmingham



Considering the Prerequisites for 5G



Are You Ready for 5G Rollout?




- Is there a mandate from your Executive in support of the recommendations in the FTIR?
- Has any mandate been disseminated to your organisation, and an assessment made of actions needed?
- Have you a digital infrastructure strategy?
- Have you a Digital Ambassador, Digital Champion, and a Digital Co-ordinator?
- Are all your assets mapped and available to operators?
- Are you aware of NPPF 2019? Are your town planners and planning committee conversant and adherent?
- Are you aware of the proposed changes to Permitted Development Rights?
- Are you aware of the Electronic Communications Code, and the progress of any ongoing property negotiations.
- Are you aware of the DCMS portal?



Are You Ready for 5G Rollout?

Is there a mandate from Your Executive?



APPENDIX 1




Southwark's Digital Strategy

Your Digital Council

February 2016

 @b_southwark
  facebook.com/southwarkcouncil




Foreword

"We are delighted to present Southwark's digital strategy. This document details our ambitions as a digital council and as a digital borough, it explores the value digital can bring and the challenges we will inevitably encounter.


The arguments for going digital are persuasive, especially in the current economic climate. Funding from central government to local government is being drastically reduced. Southwark Council will have to save more than £60million over the next three years. This is a key factor in our realisation that no amount of "salami-slicing" of costs can deliver the services we need. Instead, it requires a radical re-imagining of how we deliver services and manage operations.

If we embrace digital, the potential is enormous: reduced costs, increased efficiencies, better interactions with residents, better use of data and - the great prize - improved outcomes and better lives for the people we serve.

It will take hard work, creativity and cooperation to achieve. The political will is there, the realisation that re-imagining services from a customer perspective will vastly improve what we do is there. We must seize both and make Southwark a truly digital council and borough."



Councillor Fiona Colley,
Cabinet Member for Finance,
Change and Performance



Councillor Radha Burgess,
Deputy Cabinet Member for Digital
Strategy

Southwark's four digital principles

Our digital strategy will be underpinned by four principles. These principles will guide the way we work and help us deliver the changes we make as an organisation.

<p>Principle 1 - "Putting the customer at the centre of digital change"</p> <p>Many of the ways we work as an organisation have been designed to reflect our internal structures and reflect processes that have built up over time. We will change this by putting our customers at the centre of the way we work. We will put ourselves in the customer's shoes and re-imagine services around them, using digital tools to make their experience of interacting with us smoother and quicker. We will develop relationships with our customers where they feel confident that the feedback they provide will be acted upon.</p>	<p>Principle 2 - "Putting digital ways of working at the heart of our organisational culture"</p> <p>We will change the way we think of ourselves as an organisation by embedding digital ways of working at all levels of our organisation. We will build our digital capability, encouraged by our senior managers, by investing in our infrastructure and the skills of our workforce. Wherever possible, we will make digital ways of working part of everyone's day jobs and cultivate an environment of digital self-confidence and capability. We will provide a digital infrastructure that staff can rely on to make their jobs easier.</p>
<p>Principle 3 - "Ensuring that everyone can share in the benefits of digital change"</p> <p>As we change the way we work, we will ensure that our customers are not left behind and unable to access the services and support they need. We recognise that the most vulnerable in our community may need extra help. By doing things more efficiently through digital, we can make best use of our time and expertise, reinvesting it into supporting the vulnerable of our community in accessing our services.</p>	<p>Principle 4 - "Committing to continuously improve our services"</p> <p>We will take an iterative approach to maintaining and improving our services by making small and incremental improvements. Instead of completely rethinking our approach every few years, we will regularly check in with our customers and obtain feedback so we can continuously improve our services. In doing so we can save money by minimising the need to overhaul and redesign our services from scratch every few years.</p>

Becoming a digital council...



Customer led service improvements



Digital culture



Digital inclusion



Continuous improvement

...and a digital borough



Digital inclusion



Access to infrastructure

The cost of customer interactions



Face to face
£10.53



Managing a phone query
£6.45



Online self serve
£0.08



Are You Ready for 5G Rollout?

Do You have a Digital Infrastructure Strategy?



2 Introduction

2.1 Purpose

This Digital Infrastructure Strategy for Southwark Council sets out the context, challenges and intended actions to improve the access, speed and affordability of broadband fibre, wireless and other related mobile digital technologies to residents, communities and businesses across the borough.

The key benefits of a Digital Infrastructure Strategy are that it will identify key development priorities and help harmonise and coordinate existing and planned initiatives across the council to deliver maximum impact and benefit to residents and local businesses. This strategy should also aid the council in formulating its overall approach, accessing funding and implementing a successful Digital Infrastructure Programme.

To achieve these ambitions, this strategy proposes the creation of a programme team and a series of key strategic actions. The programme will involve the design and delivery of a series of short and medium term projects and activities that will enable digital infrastructure improvements across the borough to enhance the local economy, support digital inclusion and help Southwark to become a more attractive destination for the expanding digital economy.

2.2 Our commitment to a better digital infrastructure

Southwark Council is committed to being a digitally inclusive borough and has made promises through its Fairer Future principles to bring superfast broadband to Southwark, and in particular to areas with poor broadband speeds such as the wards of Rotherhithe, Surrey Docks and other 'not spots' (areas of low connectivity and broadband speed).

The council will support digital infrastructure technologies such as superfast fibre, ultrafast fibre to the premises (FTTP), 4G and 5G wireless technology, as well as other built and virtual assets, in order to provide all residents and local businesses with what is now a key utility in daily life: fast, reliable internet connectivity. These solutions will support the council's broader aims of promoting economic prosperity throughout the borough and using technology to help its communities, for instance through improved community engagement and more efficient dissemination of public information.

Ultimately, a better digital infrastructure forms a key part of the council's Fairer Future promise to build to a strong local economy for everyone, by ensuring that all residents, businesses and visitors have access to the digital tools they need to work and live. Access to good internet connections and other digital technologies is no longer a luxury; it is a necessity for individuals, businesses and the council alike.

2.3 Scope and strategic context

This document is a component of the wider Digital Strategy for Southwark Council, and specifically focuses on the investment and technology required to support:

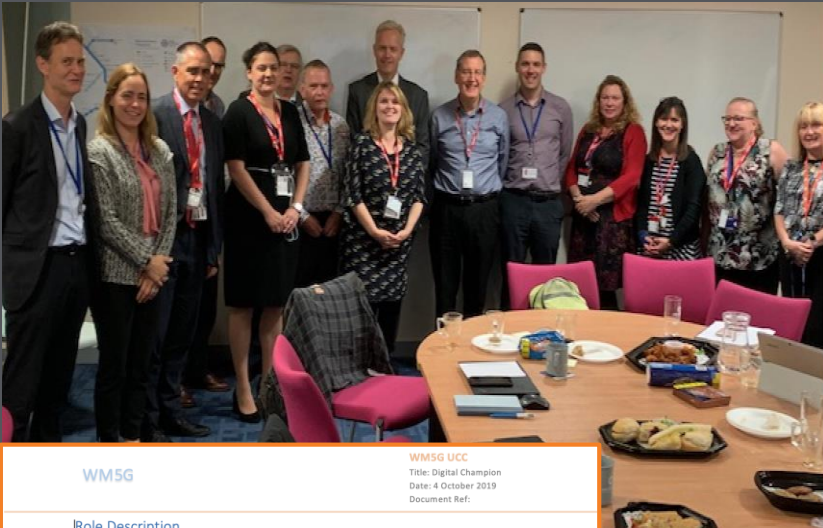
Your Strategy should address:

- The importance of digital, full fibre broadband and wireless connectivity, including 5G, to delivering the plan
- Measures to support the rollout of full fibre broadband
- Measures to support the rollout of wireless connectivity and the acceleration of 5G
- Identifying IOT and other digital opportunities
- Upgrading to smart infrastructure
- Barrier busting (i.e. simpler, quicker, cheaper)
- Taking opportunities to use your assets
- The digital economy, digital skills and digital inclusion



Are You Ready for 5G Rollout?

Do You have a Digital Ambassador, a Digital Champion, and a Digital Co-Ordinator



The Government recommends:

- Each entity to have a Digital Champion, someone at executive level who has the authority and personality to impose the council's digital policy.
- Each entity to have a Digital Co-ordinator who's key role is to facilitate engagement between council departments, and between the council and operators.
- Our role descriptions redrafted and endorsed by incumbents

From our experience WM5G recommends extending the team to include:

- A Digital Ambassador, being an elected member, who can provide a link with elected members and their constituents
- One or more Digital Facilitators who may be subject matter experts and/or department representatives.

WM5G

WM5G UCC
Title: Digital Champion
Date: 4 October 2019
Document Ref:

Role Description
Local Authority Digital Champion

Purpose

In July 2018 the government produced the Future Telecoms Infrastructure Review document which outlines the UK's desire to be a leading country for communications Infrastructure, both full fibre and 5G networks. As part of this review they encouraged councils to make available their existing assets and to support the vision of a connected Britain. As part of this vision they determined that there should be Champions within each council to promote and support the digital future and more importantly digital infrastructure. The role of a digital champion will be to provide a link with elected members and their constituents and to facilitate engagement between council departments, and between the council and operators.

WM5G

WM5G UCC
Title: Digital Coordinator
Date: 4 October 2019
Document Ref:

Role Description
Local Authority Digital Coordinator

Background and Purpose

In July 2018 the government produced the Future Telecoms Infrastructure Review document which outlines the UK's desire to be a leading country for communications Infrastructure, both for full fibre and 5G networks. As part of this review they encouraged councils to make available their existing assets and to support the vision of a connected Britain. As part of this vision they determined that there should be Champions and Coordinators within each council that promote and support the digital future and more importantly digital infrastructure. The role of a digital coordinator within a local authority is a key role that provides a coordination and facilitation role for digital infrastructure throughout the authority. They are a key facilitator who is able to work across the council departments to enable action to support digital infrastructure and to help minimise barriers to the rollout of broadband and mobile networks. They also support effective engagement between local authority and network operators by ensuring council departments or individuals within the process deliver the required actions that support digital infrastructure.

Responsibilities

- Provide strategic leadership and support to the digital champion
- The digital champion will provide a link with elected members and their constituents and to facilitate engagement between council departments, and between the council and operators.
- Engage with senior stakeholders and support effective engagement between council departments, and between the council and operators.



Are You Ready for 5G Rollout?

Are all your assets mapped and available to operators?

Connected Map – Synopsis

The West Midlands is the first region to produce and test a Connected Map, driving a solution that will enable us to become #5GNetworkReady.

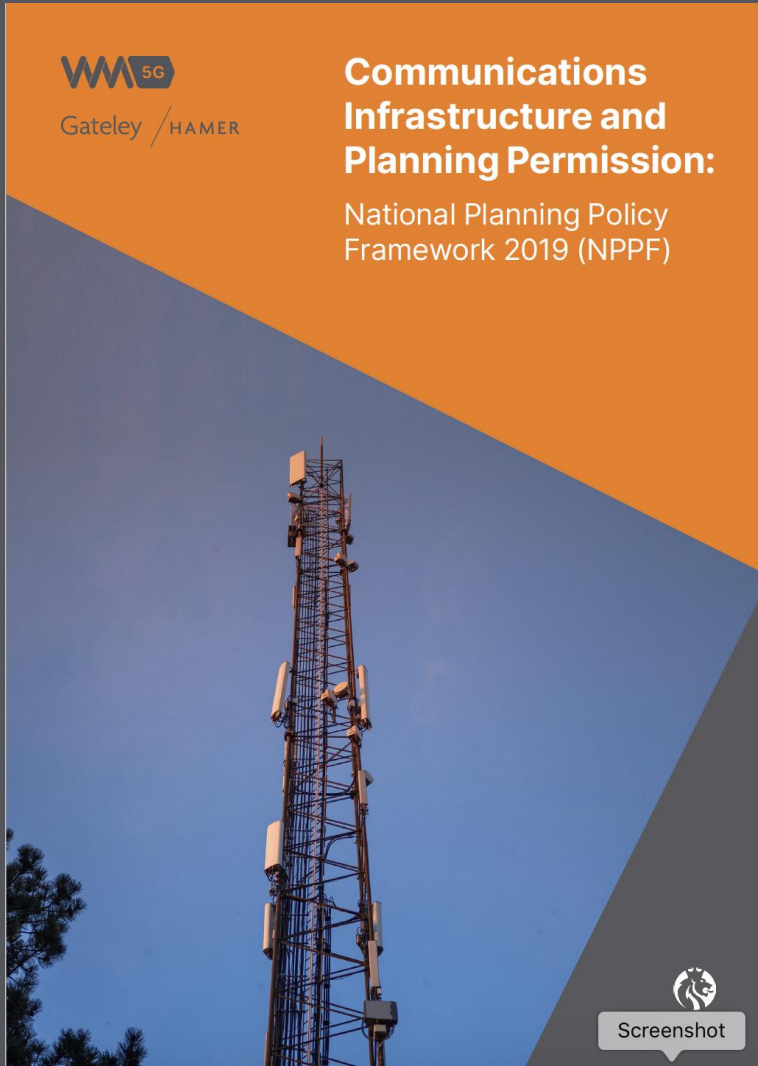
West Midlands 5G has mapped out the region's local authority assets that are suitable for mobile network digital infrastructure. Together with existing coverage plans from mobile network operators, WM5G has created a powerful tool to accelerate the deployment of 5G across the region and help close existing 4G coverage gaps.

WM5G's Connected Map also serves as an interactive tool to illustrate the true picture of digital infrastructure, enabling local authorities and mobile network operators to review their priorities and plan for the future – together.



Are You Ready for 5G Rollout?

Are your Town Planners and Planning Committees aware of the the National Planning Policy Framework, 2019 and the upcoming changes to Permitted Development Rights?



Presentations and communications pick out some of the essentials for our councils:

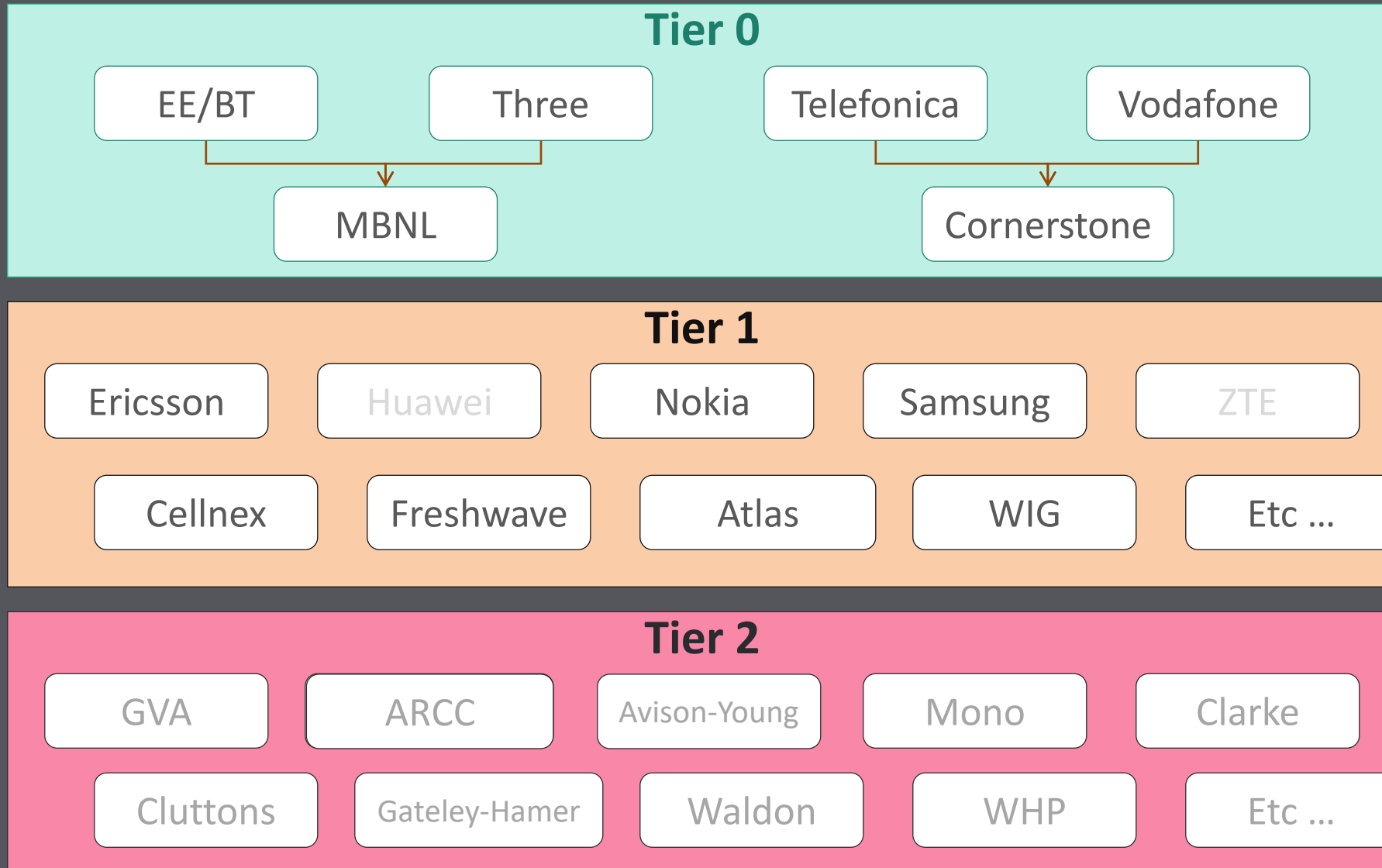
- **Planning policies and decisions should support the expansion of electronic communications networks, including next generation mobile technology (such as 5G)**
- **In all cases, improved communications are a benefit to be weighed against any visual impacts**

WM5G facilitation has included:

- **Gap analysis between national standards and council adherence**
- **Leaflets prepared including ECC, NPPF and GPDO**
- **Operator meetings with planning officers and planning committees**
- **Pre-consultation and collaboration re-enforced**



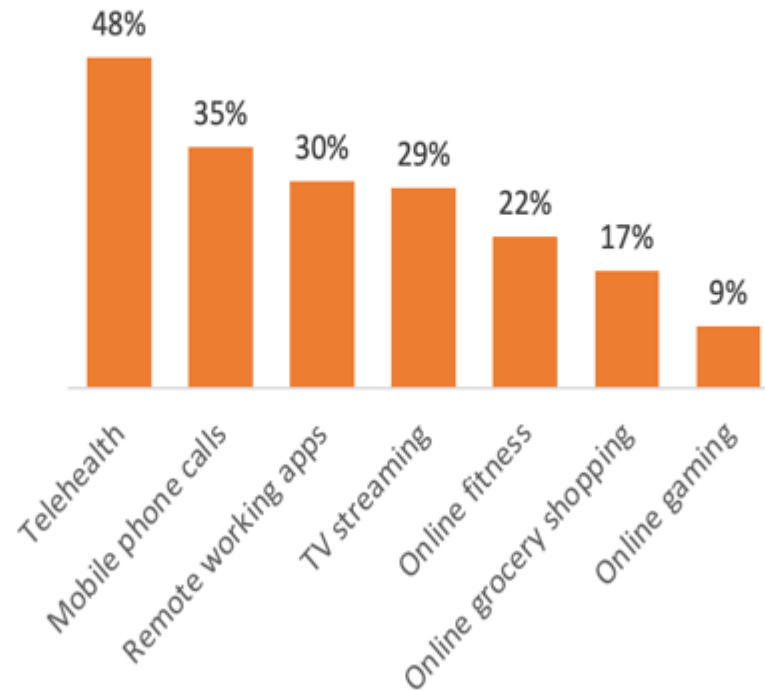
Mobile Industry Landscape



Covid is accelerating digital trends

Greater use of digital connectivity

Change in UK consumer usage since lockdown %



Source: EY and McKinsey UK consumer surveys Feb-May 2020



Government Policy Initiatives

- Future Telecoms Infrastructure Review (July 2018) FTIR
- 88 % Geographic Coverage by mid 2023 and 90% by mid 2025
- World leader in 5G deployment
- C.36,000 mobile sites now in operation
- All existing sites likely to need upgrading to 5G over next few years
- Many more macro sites likely to be needed to deliver extra capacity (and extra footprint in hard to reach areas)
- Potentially complemented by small cells (de minimis)
- Regulations should not differentiate between urban and rural – address digital divide, or Fixed and Mobile

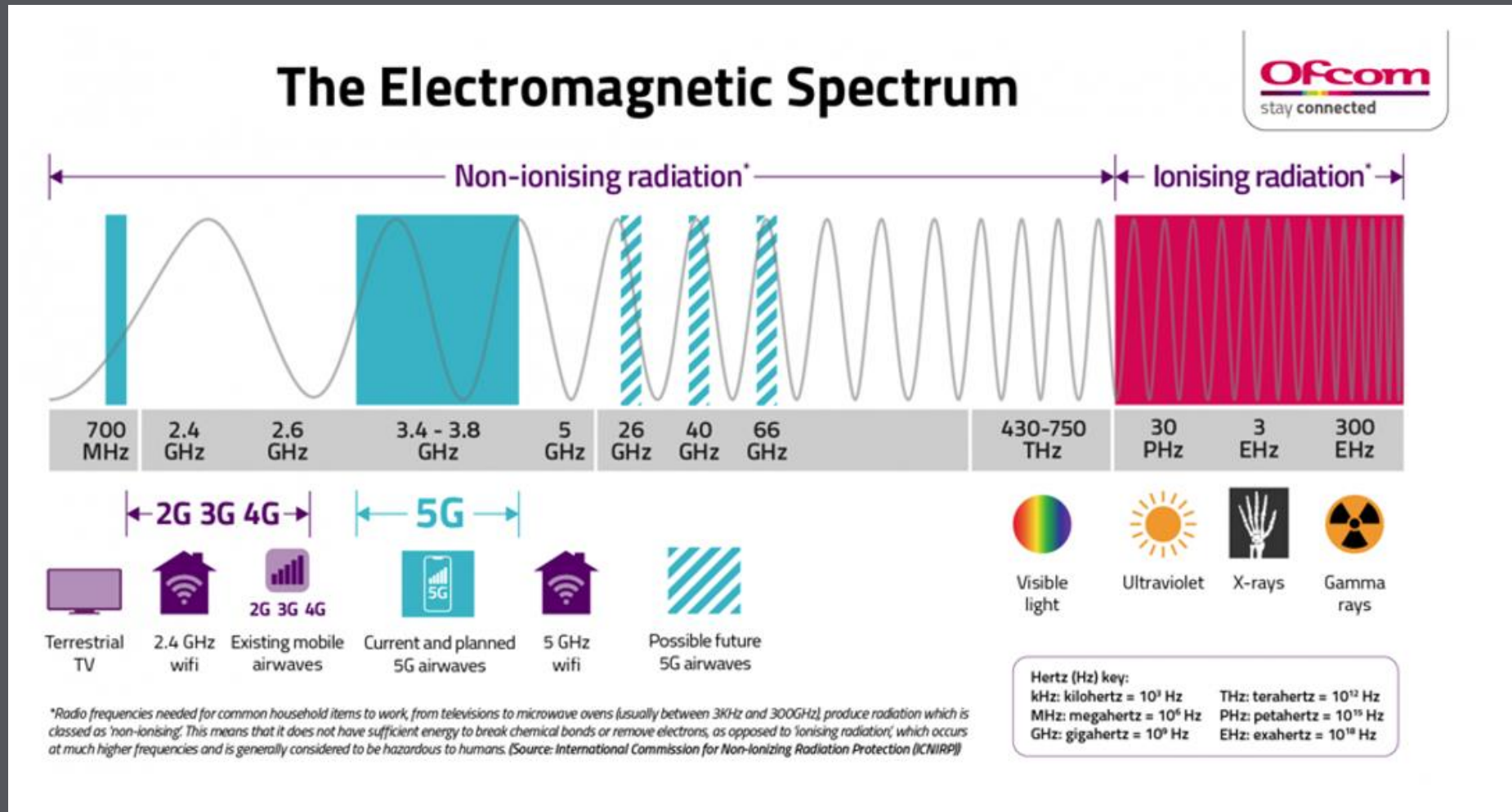
Government Policy Initiatives and Impact

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Slide courtesy MBNL



Dealing with 5G Health Concerns and ICNIRP



You will find PHE very helpful at - emf.enquiries@phe.gov.uk



Are You Ready for 5G Rollout?

Are all those with land and property responsibilities aware of the Electronic Communications Code, 2017?



Gateley / HAMER

The new Electronic
Communications
Code 2017 (ECC):
Guidelines

- Leaflets prepared including ECC, NPPF and GPDO
- One or two page synopses of Upper Tribunal Decisions (with no added opinions)
- Initial involvement was with reactive intervention as councils came onto radar, moving to proactive intervention
- MNO rollout process mapped and typical council activities; each council to tailor, then map resources and costs
- Council and MNO discussions facilitated to agree rationale, 10 year costs, to provide an all inclusive annual figure
- Greater London Authority template agreement(s) adopted as preferential route for WM councils; 3 councils actively reviewing the template
- Direct engagement far more fruitful than warfare by proxy



Are You Ready for 5G Rollout?

Are all those with land and property responsibilities aware of the Electronic Communications Code, 2017?

Financial terms of agreements under the Electronic Communications Code

Guidance for public sector bodies

UPDATED 27/08/2020: This updated guidance reflects recent Tribunal determinations on Code agreements

As with any other term of an agreement to host digital communications infrastructure, financial terms should be agreed, wherever possible, on a consensual basis between the parties. However – as with other terms - it is important to note that these agreements are underpinned by a statutory framework, (the Electronic Communications Code – “the Code” - as set out in the Communications Act 2003, amended by the Digital Economy Act 2017).

Amongst other things, the Code sets out how a court should determine the financial terms for rights under the Code (where these cannot be reached on a voluntary basis and the court considers it appropriate for an agreement to be imposed).

Government Departments, other public sector bodies, valuation experts and legal advisers should note Government’s clear hope and expectation that these reforms will lead to significant reductions in the amounts paid for rights to install and maintain digital communications infrastructure. The Regulatory Impact Assessment which was published with the Digital Economy Act 2017, provides further information about this.

Government also encourages departments, other public sector bodies and their valuation experts and legal advisers to familiarise themselves with this statutory framework, particularly when negotiating the financial terms of an agreement.

The Code provides for two forms of remuneration: Consideration and Compensation. Departments, public sector bodies and their valuation experts and legal advisers are encouraged to familiarise themselves with the legislative framework and relevant Tribunal determinations when negotiating financial terms.

- Leaflets prepared including ECC, NPPF and GPDO
- One or two page synopses of Upper Tribunal Decisions (with no added opinions)
- Initial involvement was with reactive intervention as councils came onto radar, moving to proactive intervention
- MNO rollout process mapped and typical council activities; each council to tailor, then map resources and costs
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Our Code Valuation Process

Phase One	Phase Two	Phase Three	Phase Four	Phase Five	Phase Six
O&M Local Authority activities mapped	Site Upgrade Local Authority activities mapped	Scenarios calculated within the process map	Meetings arranged between the Local Authority & Operator	Agree the most realistic scenario & then agree annual 'C&C' fee	Standardised Code agreement in place
Man hours added to each Local Authority activity	Man hours added to each Local Authority activity				
Costings added to each activity	Costings added to each activity				

Our Code Valuation Process Works

Phase One	Phase Two	Phase Three	Phase Four	Phase Five	Phase Six
O&M Local Authority activities mapped	Site Upgrade Local Authority activities mapped	Scenarios calculated within the process map	Meetings arranged between the Local Authority & Operator	Agree the most realistic scenario & then agree annual 'C&C' fee	Standardised Code agreement in place
Man hours added to each Local Authority activity	Man hours added to each Local Authority activity	<ul style="list-style-type: none"> • Process concentrates on compensation with consideration included but much less significant. • Work to date had concentrated on existing rooftops > 30 deals completed, will be ~ 50 by Christmas. • Similar approach being followed for ground-based masts, with consideration provoking more thought but compensation lower. • PAYG approach being taken on costs for establishment of new sites. • Code adherent deals in hand with two WIPs (NH) and three councils, underpinning 3-4 small cell trials in the next 6-12 months. • Local authorities are assured of costs being covered, simple processes, minimal admin, and legal requirements for best value are satisfied. • Willing landlords, consensual deals, communities and citizens benefiting. 			
Costings added to each activity	Costings added to each activity				

Next Steps



Possible Next Steps – Overcoming Inertia and/or Maintaining Momentum



- RAG rate the prerequisites particularly on strategy and governance.
- Assess what time and experience those tasked with delivering the digital future have. Have they clear terms of reference and defined escalation paths.
- Identify those who have responsibility for property, agents and their brief, and any existing issues. Are there any conflicts with aims and targets?
- Identify those who have responsibility for town planning, any local 'rules', and any existing issues. Are there any conflicts with aims and targets? Do they have the support to make balanced decisions.
- Are there telecoms 'specialists' and SPOCs in your key departments.
- Identify any gaps in your own knowledge and awareness. Who can support you and what collateral do you need?
- Networking, networking, networking

A closing thought

When all is said and done it's all about people and a new era of:

- Engagement
- Empathy
- Colaborration

Ric Reilly

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Questions?

