

SUPPLEMENTARY INFORMATION

1. Site Details

Site Name:	The Printworks	Site Address:	The Printworks, Withy Grove, Manchester, M4 2BS
National Grid Reference:	E: 384101 N: 398786		
Site Ref Number:	CTIL_13284101	Site Type: ¹	Macro

2. Pre Application Check List

Site Selection (for New Sites only)

(Would not generally apply to upgrades/alterations to existing site including redevelopment or replacement of an existing site to facilitate an upgrade or sharing with another operator)

Was a local planning authority mast register available to check for suitable sites by the operator or the local planning authority?		No
If no explain why:		
This is an upgrade to existing site.		
Were industry site databases checked for suitable sites by the operator:		No
If no explain why:		
This is an upgrade to existing site.		

Site Specific Pre-application consultation with local planning authority

Was there pre-application contact:	No
Date of pre-application contact:	21/07/2021
Name of contact:	N/A
Summary of outcome/Main issues raised:	
A pre-application consultation letter and copy of the proposal drawings were sent to the Local Planning Authority via email on 21/07/2021.	
No specific comments received to date.	

¹ Macro or Micro

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Annual area wide information to planning authority

Has annual area wide information been provided?	No
If no explain why:	
Summary issues raised: Cornerstones commercial relationship with Telefonica UK Ltd has changed, effectively increasing our independence to work with other companies in the deployment of mobile infrastructure. It means we no longer have visibility of Telefonica's full update plan. However, Cornerstone is fully committed to working closely with Local Planning Authorities and following best practice guidance. We aim to engage and work with the planning department at the earliest opportunity from when we are instructed to deliver new infrastructure within your Local Authority area and often conduct strategic pre-rollout engagement meetings to discuss our wider rollout. If your Local Authority would like a meeting to discuss wider Cornerstone rollout plans then please advise. We recognise the importance of developing long term partnerships and will always work with you to deliver improved mobile connectivity. Accordingly we conducted a pre-rollout engagement meeting with Manchester City Council on 04/03/2013.	

Community Consultation

Rating of Site under Traffic Light Model:	Red	Amber	Green
Outline of consultation carried out: A pre-application consultation letter and copy of the proposal drawings were sent to the local councillors for Piccadilly (Cllrs A Douglas, J Connor Lyons, S Wheeler), and the local MP Lucy Powell by email on 21/07/2021.			
Summary of outcome/main issues raised (include copies of relevant correspondence): No specific comments received to date.			

School/College

Location of site in relation to school/college (include name of school/college): No schools located nearby.
Outline of consultation carried out with school/college (include evidence of consultation): N/A
Summary of outcome/main issues raised (include copies of main correspondence):

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N/A

Civil Aviation Authority/Secretary of State for Defence/Aerodrome Operator consultation (only required for an application for prior approval)

Will the structure be within 3km of an aerodrome or airfield?		No
Has the Civil Aviation Authority/Secretary of State for Defence/Aerodrome Operator been notified?		No
Details of response:		
N/A		

Developer's Notice

Copy of Developer's Notice enclosed?		No – Full Planning Application – Article 14 notice served 28/04/2022.
Date served:	An Article 14 notice and copy of the proposal drawings were sent to Cushman & Wakefield via email on 28/04/2022.	

3. Proposed Development

The proposed site:
Background: Cornerstone is the UK's leading mobile infrastructure services company. They acquire, manage and own over 20,000 sites and are committed to enabling best in class mobile connectivity for over half of all the country's mobile customers. They oversee works on behalf of telecommunications providers and wherever possible aim to: • promote shared infrastructure • maximise opportunities to consolidate the number of base stations • significantly reduce the environmental impact of network development The site is an established rooftop radio base station comprising 6 no. antennas on pole mounted support poles, 3 no. equipment cabinets and ancillary development thereto including 11 no. Remote Radio Units (RRUs) and 1 no. GPS module. As part of Cornerstone's continued network improvement programme, there is a specific requirement for an upgrade to its existing rooftop installation at The Printworks to provide improved 2G, 3G, 4G and new 5G coverage and capacity, ensuring that this area of

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Piccadilly continues to have access to the latest technologies. This is in line with its legal obligations, as well as the Government aspirations for the UK to be a world leader in 5G.

The site has been designed to enable Telefonica to enhance their 2G, 3G and 4G coverage and provide new 5G service provision. In addition, the site has been designed to enable Vodafone to utilise this radio base station for new 5G service provision as well, whilst also maintaining and enhancing its 2G, 3G and 4G coverage that it is currently providing from this existing radio base station.

The site is located on the rooftop of The Printworks. It is a multi-storey building of traditional design, which accommodates a mixed use of classes including, bars, restaurants and leisure. The surrounding area is consistent with the class use, as well as office space, retail and hotels. The rooftop supports other operators telecommunications apparatus and equipment, along with other rooftop apparatus.

The current equipment is located to the east, south east and south west of the rooftop, where it is currently operational for Vodafone. The site is set back from the highway to the north of the site there is office space and Manchester Victoria Train Station to the north west, with the associated car park. To the east is Shudehill bus station, along with office space. South of the site is The Arndale shopping complex, containing mixed use of classes including retail, leisure and restaurants. To the south west is further retail and restaurants and west of the site is a football museum.

Enclose map showing the cell centre and adjoining cells if appropriate:

The amendments to the existing rooftop installation will enable enhanced 2G, 3G and 4G coverage and capacity to the surrounding area as well as new 5G service provision for one of the Cornerstone operators to ensure high quality customer experience is obtained as demands on the network increase and technologies change. In addition, due to the design, both operators on the Cornerstone network will be able to maintain and enhance their existing 2G, 3G and 4G coverage whilst also being able to provide 5G service provision to the immediate area in and around Piccadilly.

Type of Structure (e.g. tower, mast, etc): *Rooftop Antennas*

Description:

The removal of 4 no. antennas, 8 no. equipment cabinets and ancillary development including RRUs and the installation of 12 no. new antennas, 6 no. equipment cabinets, 4 no. transmission dishes and ancillary development thereto including Ericsson Radio Systems (ERS's), 1 no. GPS module.

Overall Height: 31.4 Meters

Height of existing building (where applicable):

33.1 Metres (top)

Equipment Housing: ERS Rack

Length:

0.6 Metres

Width:

0.65 Metres

Height:

1.9 Metres

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Equipment Housing: ERS Rack	
Length:	0.6 Metres
Width:	0.65 Metres
Height:	1.9 Metres
Equipment Housing: Percy PSU	
Length:	0.6 Metres
Width:	0.6 Metres
Height:	2.0 Metres
Equipment Housing: Hybrid Rack	
Length:	0.6 Metres
Width:	0.62 Metres
Height:	1.77 Metres
Equipment Housing: Hybrid Rack	
Length:	0.6 Metres
Width:	0.62 Metres
Height:	1.77 Metres
Equipment Housing: CSC Enclosure	
Length:	0.66 Metres
Width:	0.8 Metres
Height:	1.77 Metres
Materials (as applicable):	
Tower/mast etc – type of material and external colour:	As existing
Equipment housing – type of material and external colour:	Steel – Grey

Reasons for choice of design, making reference to pre-application responses:

The existing radio base station has been in situ at The Printworks for a number of years and has become an established part of the landscape. Technology advances (including 5G service provision) and additional demands on the operator's mobile network system in the area have meant that additional antennas need to be installed to facilitate all the data that is required to be carried for mobile superfast broadband. This enables customers to continue to be able to use their handheld devices for the purposes in which they have become accustomed, and now rely on in the modern world we live in, a similar scenario to the reliance on gas and electricity. To minimise the impact on the surrounding area, the proposed upgrade to the existing radio base station will resemble as closely as possible the existing apparatus already in situ.

The existing 2 no. Vodafone antennas located on the edge of the south west side of the roof will be removed along with the existing steelwork and 3 no. Remote Radio Units (RRUs). Due to the layout of the rooftop and all the existing apparatus positioned on it, these antennas are very difficult to access and maintain. Thus the new antennas will be set west in a more centralised location, away from the roof edge, nearer the equipment cabinets currently in

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situ. This will reduce the prominence of these antennas given their relocation away from the edge of the building. There will be 4 no. antennas and 1 no. transmission dish in this location.

The existing 2 no. Vodafone antennas located on the south east corner of the host building at the junction of Garden Street and Dantzig Street are proposed to be removed, together with the existing 3 no. RRUs and existing steelwork. These antennas are also difficult to access due to the make up of the rooftop and therefore the new antennas are proposed to be relocated north eastwards and will be replaced with 4 no. antennas, with 2 no. transmission dishes. They will move away from the prominent corner location to a more central area of the roof edge along Dantzig Street. Due to the narrowness of the road and the building mass of the properties on both sides of the roads these replacement and new antennas will not be overly visible in the streetscene especially at a top height of 29.1m which is a similar height to the host building and thus will not stand proud above it.

The other new antennas will be located on the west edge of the existing rooftop. The existing antennas to the north west are also difficult to access due to the make up of the rooftop and therefore the new antennas are proposed to be relocated north eastwards and will be replaced with 4 no. antennas. They will be a similar size, shape and colour to these antennas. Due to the building mass of the host property and their set back from the building edge these new antennas will not appear obvious in the streetscene.

The new antennas will be a similar size, shape, colour and made from the same materials as the existing antennas already in situ and thus will have a similar appearance, minimising their presence in the streetscene.

Whilst the height of the new antennas will be increasing from the existing antennas already in situ, the host building has various rooftop levels and the new antennas will not be taller than the existing rooftop. This ensures that they are not breaking the skyline and becoming overly dominant in the streetscene. This additional height is essential to ensure that the antennas can reach their target coverage area, avoid clipping of the nearby roofs and maintain ICNIRP requirements. If the antennas were to be any lower in height then they would not be able to provide the necessary high quality communications which is required for everyday access to high speed data in this area of the city, which users of their handheld devices have come to expect in this 21st Century technological age.

The new and replacement antennas need to handle significantly more data and capacity than the existing antennas and as such need to be slightly bigger, but shorter in order to accommodate all the technologies including 5G in the one installation, without the need for an additional installation elsewhere within this busy area of the city.

The Ericsson Radio Systems (ERSs) are very small roughly the size of a shoe box. They are located behind the new antennas. The building mass of the host property and their careful siting away from the roof edge, will ensure that the ERSs will be shielded from view within the streetscene. Together with the height above ground level at over 25m and the narrowness of the streets in the surrounding area this equipment will not be readily visible and will blend in with the existing steelwork already located on this building in these locations. This ensures

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that the character and appearance of the building and surrounding area is maintained. The ERSs make the antennas more efficient so that they are able to maximise service provision, minimising the amount of other apparatus needed on site.

The new equipment cabinets will be located centrally within the rooftop of the host property to the south west of the existing equipment cabinets already in situ. There is no further space to accommodate the new cabinets adjacent to the existing ones and therefore they are being positioned slightly further south west. Given their maximum height of 2m and the distance to the roof edge being significantly greater than this then these cabinets will not be seen due to the building mass of the host property.

It is therefore considered that the proposal before you strikes a good balance between environmental impact and operational considerations. The proposed height and design represents the best compromise between the visual impact of the proposal on the surrounding area and meeting the multi technical requirements for the site. Taking all matters into account, it is considered that this upgraded installation, on an established radio base station site, to enable the enhancement of 2G, 3G and 4G service provision and provide new 5G technology to the surrounding area, would not appear out of place and would continue to provide high quality coverage and capacity, delivering the capability for a multi hi tech service from a single installation.

Health and Safety - including ICNIRP compliance

International Commission on Non-Ionizing Radiation Protection Declaration attached (see below)

International Commission on Non-Ionizing Radiation Protection public compliance is determined by mathematical calculation and implemented by careful location of antennas, access restrictions and/or barriers and signage as necessary. Members of the public cannot unknowingly enter areas close to the antennas where exposure may exceed the relevant guidelines.

When determining compliance, the emissions from all mobile phone network operators on or near to the site are taken into account.

In order to minimise interference within its own network and with other radio networks, Telefonica UK Ltd operates its network in such a way the radio frequency power outputs are kept to the lowest levels commensurate with effective service provision

As part of Telefonica's network, the radio base station that is the subject of this application will be configured to operate in this way.

All operators of radio transmitters are under a legal obligation to operate those transmitters in accordance with the conditions of their licence. Operation of the transmitter in accordance with the conditions of the licence fulfils the legal obligations in respect of interference to other radio systems, other electrical equipment, instrumentation, or air traffic systems. The conditions of the licence are mandated by Ofcom, an agency of national

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government, who are responsible for the regulation of the civilian radio spectrum. The remit of Ofcom also includes investigation and remedy of any reported significant interference.

The telecommunications infrastructure the subject of this application accords with all relevant legislation and as such will not cause significant and irremediable interference with other electrical equipment, air traffic services or instrumentation operated in the national interest.

4. Technical Justification

Enclose predictive coverage plots if appropriate, e.g. to show coverage improvement. Proposals to improve capacity will not generally require coverage plots.

Reason(s) why site required e.g. coverage, upgrade, capacity

A mobile phone transmitter is designed to cover a specific area and links its coverage to the next site in the network, creating a patchwork of overlapping coverage 'cells' across the country. So, if a person is on the move, the network will transfer their calls from one site to the next. However, in certain areas there will be gaps between these cells, resulting in a loss of coverage. This can be for a variety of reasons, the most common being topography or buildings which block the path of the signal. The operators' network rollout programme is designed to identify and address these gaps within their coverage and ensure that people can use their phones whenever and wherever they are.

There is a specific requirement to upgrade the existing radio base station at this location to enable to enhance its 2G, 3G and 4G coverage and capacity to this busy and highly populated area of Piccadilly and provide new 5G service provision. Furthermore, the installation will be designed so that both operators on the Cornerstone network can continue to utilise the same installation and provide new 5G coverage to its network and improved 2G, 3G and 4G services. This negates the need for further radio base stations in the vicinity for either of these two operators.

5. Site Selection Process

Alternative sites considered and not chosen (not generally required for **upgrades/alterations to existing sites** including redevelopment of an existing site to facilitate an upgrade or sharing with another operator).

In accordance with the licence obligations and advice in the National Planning Policy Framework and the Code of Best Practice in England the applicant's network rollout team investigated the following siting and design options using this sequential approach to site selection:

- Upgrading their own existing base stations;
- Using existing telecommunications structures belonging to another communications operator. i.e. Mast and/ or site sharing, co-location;

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- Installations on existing high buildings or structures including National Grid pylons;
- Using small scale equipment; and finally
- Erecting a new ground based mast site – (1st) Camouflaging or disguising equipment. (2nd) A conventional installation e.g. a lattice mast and compound.

The applicant's site selection strategy is to keep the overall environmental impact to a minimum. Utilising existing masts is always progressed where it is technically and legally possible and where it is the local planning authority's preferred environmental solution. New sites are only developed where there are no viable or accessible alternatives or it is the local planning authority's preferred approach. The feasibility of the acquisition, build and maintenance of the site also needs to be taken into account.

In accordance with the above sequential approach, the proposal is to upgrade the existing radio base station in this location to maintain and enhance 2G, 3G and 4G coverage and provide new 5G service provision.

Site Type	Site name and address	National Grid Reference	Reason for not choosing site
N/A	N/A	N/A	Upgrade to existing site.

If no alternative site options have been investigated, please explain why:

As referred to above, the applicant has taken a sequential approach and is seeking to retain the existing radio base station, installing 12 no. new antennas on the rooftop of The Printworks.

These amendments to the existing radio base station will ensure that the latest superfast technologies will be able to be accessed by users in this area of the city, in line with the operators legal license obligations, and the Government's aspirations that everyone has access to the information super highway network, that the UK becomes a world leader in 5G and the customers' expectations that their handheld devices are able to operate wherever they are located whether that be indoors or outside.

It is considered that utilising an existing established radio base station installation is preferable to pursuing a second base station within the immediate vicinity, as it would reduce the visual impact therefore preserving the character and appearance of the surrounding area. Given the makeup of the area and the siting of existing telecoms infrastructure on the site, it was established that the upgrading of facilities through the use of existing infrastructure would be the most viable solution. Based on this sequential approach no other sites have been considered.

Land use planning designations:

Shudehill Conservation Area.
Regional Centre.

Additional relevant information (include planning policy and material considerations):

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National Planning Guidance

Planning policy is provided at the national level by the National Planning Policy Framework (NPPF). It is a material consideration in planning decisions.

It is not necessary to quote extensively from this document but the following points are highlighted.

National Planning Policy Framework (July 2021)

The Government's National Planning Policy Framework (NPPF) was published on 24 July 2018 and updates the 2012 version. In February 2019 the NPPF was revised again, with minor alterations to wording relating to housing supply and not any parts relating to telecommunications. The NPPF was updated in July 2021, in order to strengthen sections including requirements on improved design quality, a new requirement for Councils to produce local design codes or guides, an emphasis on using trees in new developments, revised policies on plan-making, removing statues and opting out of PD rights relating to residential conversions.

The Government's latest thinking continues to strongly support communications infrastructure. The NPPF remains very supportive of high quality communications. Indeed, a whole chapter is dedicated to high quality communications, emphasising the importance that the Government attaches to digital connectivity. Paragraph 114 states that advanced, high quality and reliable communications infrastructure is essential for economic growth and social well-being. This wording echoes guidance set out in paragraph 42 of the 2012 version of NPPF. However, it also includes the importance of *reliable* communications infrastructure for both economic growth and social well-being.

The NPPF continues to support the expansion of electronic communications networks at paragraph 114. It notes that policies should set out how high quality digital infrastructure, providing access to services from a range of providers, is expected to be delivered and upgraded over time. The economic and social benefits of providing high quality and reliable communications infrastructure are well documented and can be found later in this Supporting Information Statement.

The NPPF supports the expansion of telecommunications '*Planning policies and decisions should support the expansion of electronic communications networks*'... (para 114).

Paragraph 115 of the NPPF retains the requirement to minimise the number of installations consistent with the efficient operation of the network but also includes being consistent with the needs of consumers and providing reasonable capacity for future expansion.

Paragraph 118 of the NPPF retains the guidance set out in paragraph 46 of the 2012 NPPF version which relates to determining applications on planning grounds only. They should not seek to prevent competition between different operators, question the need for an electronic

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communications system, or set health safeguards different from the International Commission guidelines for public exposure.

At the heart of the NPPF is the retained presumption in favour of sustainable development (para 11). For decision-taking this means approving development proposals that accord with an up-to-date development plan without delay or where there are no relevant development plan policies, or the policies which are most important for determining the application are out-of-date, granting permission unless the application of policies within the revised Framework that protect areas or assets of particular importance provides a clear reason for refusing the development proposed or any adverse impacts of granting permission would significantly and demonstrably outweigh the benefits, when assessed against the policies in the revised Framework taken as a whole.

The NPPF continues to provide guidance on decision-making. At paragraph 38 it states that:

'Local planning authorities should approach decisions on proposed development in a positive and creative way. They should use the full range of planning tools available, including...permission in principle, and work proactively with applicants to secure developments that will improve the economic, social and environmental conditions of the area. Decision-makers at every level should seek to approve applications for sustainable development where possible'.

The NPPF builds on the aspiration to build a strong, competitive economy. Paragraph 81 states:

'Planning policies and decisions should help create the conditions in which businesses can invest, expand and adapt. Significant weight should be placed on the need to support economic growth and productivity, taking in to account both local business needs and wider opportunities for development. The approach taken, should allow each area to build on its strengths, counter any weaknesses and address the challenges of the future. This is particularly important where Britain can be a global leader in driving innovation⁴² ...

Footnote 42 of the NPPF states:

'The Government's Industrial Strategy sets out a vision to drive productivity improvements across the UK, identifies a number of Grand Challenges facing all nations, and sets out a delivery programme to make the UK a leader in four of these: artificial intelligence and big data; clean growth; future mobility and catering for an ageing society. HM Government (2017) Industrial Strategy: Building a Britain fit for the future'.

Section 15 relates to conserving and enhancing the natural environment. Para 176 seeks to protect Areas of Outstanding Natural Beauty and states that:

'Great weight should be given to conserving and enhancing landscape and scenic beauty in National Parks, the Broads and Areas of Outstanding Natural Beauty which

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have the highest status of protection in relation to these issues... The scale and extent of development within all these designated areas should be limited, while development within their setting should be sensitively located and designed to avoid or minimise adverse impacts on the designated areas.'

Code of Best Practice on Mobile Network Development in England (March 2022)

Now, more than ever, reliable digital connectivity is essential for people and businesses. Government have committed to extending mobile geographical coverage across the UK. In order to realise these ambitions, it is essential that the planning system can effectively support the deployment of new mobile infrastructure, as well as network upgrades.

The Department for Digital, Culture, Media and Sport, and the Department for Levelling Up, Housing and Communities have issued an updated Code of Best Practice which includes changes to further support the deployment of 5G coverage nationally. This Code provides guidance to mobile network operators, their agents and contractors and equally to all local planning authorities in England. It supersedes the Code of Best Practice on Mobile Phone Network Development (2016).

In line with the previous revision of the Code, digital connectivity is identified as being vital to enable people to stay connected and for businesses to grow. The principal aim of this Code is to continue to ensure Government's objective of supporting high quality communications infrastructure, which is key to continued economic prosperity and social inclusion for all.

Principles and Commitment

Paragraph 8 of the revised Code reiterates that fast, reliable digital connectivity can deliver economic, social and well-being benefits for the whole of the UK. The Code continues to acknowledge that as the demand for mobile data in the United Kingdom is increasing rapidly, it is important that everyone can have access to dependable and consistent mobile coverage where they live, work and travel.

The Government recognises the role of Planning in delivering the digital infrastructure that we need, in a sustainable and well-designed way, especially as households and businesses become increasingly reliant on mobile connectivity. Paragraph 13 of the Code continues to echo the NPPF guidance in strongly supporting high quality communications infrastructure, which is seen as essential for sustainable economic growth. More specifically that planning policies and decisions should support the expansion of electronic communications networks, including next generation mobile technologies (such as 5G) in order to support economic growth across the country.

Given the economic importance of mobile connectivity, the revised Code further emphasises the need for Local Planning Authorities to support the deployment of digital infrastructure. Paragraph 18 states that Local Planning Authorities should demonstrate their support by:

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- **Incentivising connectivity:** support the expansion of telecommunications networks and take a 'joined-up' approach to the wireless infrastructure planning process, including ensuring that Local Plans effectively support the deployment of digital infrastructure.
- **Facilitating sites:** engage with operators when new sites have been proposed and discuss site requirements.
- **Engagement with operators:** respond positively to requests for engagement and make decisions in line with national policy and Local Plans. For planning applications, find solutions to issues and ensure timely decisions are made.
- **Information and communication:** ensure that members of the public can access information about any development proposals within their local area. Send communications promptly to an appropriate operator contact (or their representatives).

The added emphasis on support from Local Planning Authorities in the deployment in digital infrastructure is even more evident in the revised code. The Code recognises the importance of collaboration and partnership to help drive network coverage across the country. It goes on to state that 'In all instances, it is important for all parties involved in the process to take a positive approach to consultation and engagement'.

Siting and Design Principles

In line with this, is the recognition to continue to ensure that the impact of new network development is kept to a minimum. The Code states that good siting and design principles should continue to apply to all wireless network development and take into account any site-specific considerations and context, both of which can create better places in which to live and work and help make development acceptable to communities.

The Code provides guidance on siting and appearance principles. It sets out several design principles in respect of telecommunications development and acknowledges that the options for design used by an operator will be affected by site conditions including requirements to link the site to the network, landscape features and coverage and capacity requirements.

Paragraphs 25 - 27 sets out siting and site selection principles which Operators should consider including:

- Installation on existing buildings and structures;
- Erecting new ground based masts;
- Camouflaging or disguising equipment where appropriate;
- Using small scale equipment (although small cells themselves are generally used to address capacity issues as opposed to providing coverage); and
- Mast and/or site sharing (including redevelopment of a site to enable upgrade or sharing with another operator).

Key Technical and Operational Considerations

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Taking the above into consideration the Code acknowledges the need to balance technical needs and constraints of a proposed site and the potential developmental impacts (Paragraph 26). These constraints are set out in detail in the section 'Technical and Operational Considerations' of the Code. The three key technical and operational considerations for installation sites are:

- **Coverage:** wireless infrastructure needs to provide an appropriate level of coverage over the intended geographical area. This involves ensuring that antennas are elevated sufficiently (often via masts) to provide clear lines of sight for signals.
- **Capacity:** where existing network infrastructure can no longer meet the demand for network capacity in a particular area, additional sites may be required within that coverage area to meet the demand. This is more likely to be required in densely populated areas or areas of high footfall.
- **Backhaul:** the radio access network requires a connection to the core network. Backhaul is sometimes provided by a microwave link, which requires a clear line of sight between the two ends of the link.

The Code emphasises the need for Local Planning Authorities to take account of these constraints, on network deployment and siting and design, when considering proposals. In relation to the introduction of 5G network deployment the Code acknowledges the requirement of additional equipment to provide necessary coverage and capacity.

Paragraph 66 states that 5G will require a denser network of base stations than previous generations, including more fixed line fibre optic cable for reliable and high capacity backhaul. The siting of 5G installations will be more constrained and guided by these special technical and operational considerations.

Paragraph 67 goes on to note that because of the scale and technological constraints of 5G equipment, previous camouflage design solutions, such as tree mast designs and concealing antennas in flagpoles, may not be practicable or suitable. In these cases, simple designs with particular attention to colouration and finishes may help reduce visual impacts on a site-specific basis.

Natural Environment and Heritage Asset Guidance

Paragraph 50 of the Code states that Local Planning Authorities, and those who represent rural areas, should recognise the importance of access to reliable mobile broadband and services for those who live and work in rural communities, including coverage for the emergency services network.

Environmental protection and conservation continue to be a key principle of the Code, which seeks to strike a balance between preservation and the need to bridge any network 'gaps', not spots and partial not spots. The Code highlights the need for new development

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within environmentally or historically sensitive areas to be designed to avoid or minimise adverse impacts on designated areas.

The benefits of high-quality wireless connectivity to the rural economy are far reaching - better wireless infrastructure will give rural communities greater choice and access to services, allow businesses to grow, and have positive impacts on healthcare, education, tourism, and remote working.

Likewise, the Code reiterates the principles of the NPPF in relation to heritage assets, in that planning authorities should assess the significance of heritage assets affected by proposed development and take this into account to ensure that any conflict between the conservation of the heritage asset and its setting and any aspect of the proposals is avoided or minimised.

The revised Code illustrates that mobile connectivity helps in the delivery of public services e.g. to access Central and Local Government via online services, acknowledging that lives are more likely to be saved when a 999 call is made from a mobile than from a landline, Telehealth is becoming increasingly important and text message reminders also improve compliance with medication and keeping NHS appointments.

Good mobile connectivity also promotes sustainability e.g. it reduces the need to travel and thus carbon emissions. The Code continues to support mobile telecommunications network as it is seen as a crucial piece of national infrastructure in economic, community and social terms.

The Code reiterates that the digital infrastructure must be achieved in a timely and efficient manner, and in a way which balances connectivity imperatives and the economic, community and social benefits that this brings with the environmental considerations that can be associated with such development. Great emphasis is placed on the need to work collaboratively between stakeholders to ensure key digital network deployment and therefore supporting economic growth.

Local Policy

Section 38 (6) of the Planning and Compulsory Purchase Act 2004 states that "If regard is to be had to the development plan for the purpose of any determination to be made under the planning Acts the determination must be made in accordance with the plan unless material considerations indicate otherwise".

The statutory development plan as defined by the Planning and Compulsory Purchase Act 2004 comprises the extant Unitary Development Policies of the Manchester Unitary Development Plan and the Manchester Core Strategy Development Plan Document.

Manchester Unitary Development Plan (Adopted July 1995)

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The Manchester Unitary Development Plan (UDP) was adopted in July 1995 as the strategy document which set out guidelines for all development in Manchester and provided a framework from which to base decisions about planning applications.

The Manchester Core Strategy was adopted on 11 July 2012 which is the key development plan document in the LDF. It replaces significant elements of the UDP. However, a number of policies remain extant following the adoption of the Core Strategy including Policy DC 17.1 relating to telecommunications.

Policy DC 17.1 states that applications for telecommunications development will normally be approved if the Council can be satisfied that the development has been sited and designed to minimise its impact on residential amenity and in environmentally sensitive areas. Wherever possible the Council will expect the potential of existing buildings and masts, including the sharing of such facilities, to be fully explored before agreeing to additional separate development.

In the justification to Policy DC 17.1 the Council recognises the need for Manchester to be at the forefront in the field of telecommunications. The Council therefore starts from the presumption in favour of sustainable development and investment in the telecommunication systems serving the city. Equally, it wishes to ensure that new developments are brought forward in a way which protects residential amenity and minimises the visual impact of such development particularly in conservation areas and other environmentally sensitive areas in parks and the river valleys. The Council is also concerned to make maximum possible use of existing buildings and facilities by encouraging operators to share facilities wherever possible in order to avoid unsightly duplication and clutter.

Policy DC18.1 Conservation areas

The Council will give particularly careful consideration to development proposals within Conservation Areas.

a. The Council will seek to preserve and enhance the character of its designated conservation areas by carefully considering the following issues:

- i) the relationship of new structures to neighbouring buildings and spaces;
- ii) the effect of major changes to the appearance of existing buildings;
- iii) the desirability of retaining existing features, such as boundary walls, gardens, trees, (including street trees);
- iv) the effect of signs and advertisements;
- v) any further guidance on specific areas which has been approved by the Council.

b. The Council will not normally grant outline planning permission for development within Conservation Areas.

c. Consent to demolish a building in a conservation area will be granted only where it can be shown that it is wholly beyond repair, incapable of reasonably beneficial use, or where its removal or replacement would benefit the appearance of character of the area.

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- d. Where demolition is to be followed by redevelopment, demolition will be permitted only where there are approved detailed plans for that redevelopment and where the Council has been furnished with evidence that the development will be undertaken.
- e. Development proposals adjacent to Conservation Areas will be granted only where it can be shown that they will not harm the appearance or character of the area. This will include the protection of views into and out of Conservation Areas.

Manchester Core Strategy DPD (Adopted July 2012)

The Manchester Core Strategy was adopted in July 2012 and sets out the long term strategic policies for Manchester's future development and will form the framework that planning applications will be assessed against.

The Core Strategy Vision states that:

'By 2027 Manchester will be:

- A successful and accessible city in the front rank of cities in Europe and the world.
- A city with a growing economy driven by the strength of the Regional Centre and Manchester Airport which supports a successful City Region. The knowledge based economy flourishes with an entrepreneurial community, characterised by a fully skilled, inclusive working population.
- Meeting the challenge of climate change at the forefront of environmental initiatives and improvement and continuing to deliver sustainable development and a more effective green infrastructure.
- A city with an increased and sustainable healthy population and a community which both benefits from and drives the City's productivity upwards.
- A city with neighbourhoods where people choose to live all their lives.

In order to help meet this vision the Core Strategy sets out a number of spatial objectives.

Spatial Objective SO1 relates to spatial principles and aims to provide a framework within which sustainable development of the city can contribute to halting climate change.

Spatial Objective SO2 relates to the economy and supports a significant further improvement of the City's economic performance and spread the benefits of this growth across the City to reduce economic, environmental and social disparities, and to help create inclusive communities.

SO4 relates to Centres and aims to provide a network of distinctive, attractive and high quality centres, strengthening local identity, providing essential services close to homes and local access to healthy foods.

Policy SO1 relates to spatial principles and states inter alia that development in all parts of the City should:

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- Make a positive contribution to neighbourhoods of choice including making a positive contribution to the health, safety and well-being of residents.
- Considering the needs of all members of the community regardless of age, gender, disability, sexuality, religion, culture, ethnicity or income.
- Minimise emissions.
- Improve access to jobs, services, education and open space by being located to reduce the need to travel.

Policy EC1 relates to employment and economic growth in Manchester. The policy states that the priorities for economic growth include:

- Ensuring the continued social, economic and environmental regeneration of the city.
- Ensuring the connectivity to international markets for the import and export of goods to ensure competitiveness in international markets.

Policy DM1 relates to development management. It is a general design policy which is not specifically related to telecommunications but contains some relevance for such applications. The policy states that all development should have regard to the following inter alia:

- Appropriate siting, layout, scale, form, massing, materials and detail.
- Impact on the surrounding areas in terms of design, scale and appearance of the proposed development. Development should have regard to the character of the surrounding area.
- Effects on amenity including privacy, light, noise, vibration, air quality, odours, litter, vermin, road safety and traffic generation.

Policy CC9 Design and Heritage

Design of new buildings will need to be of the highest standard in terms of appearance and function. The standards and guidance explained in other LDF policies should be the basis for the approach to design, with particular attention to be given to the City Centre context and character. Development in Manchester City Centre should preserve or enhance the heritage assets that have been identified, including listed buildings, conservation areas and scheduled ancient monuments.

Greater Manchester Digital Strategy (2018-2020)

The foreword to this Digital Strategy states:

‘We live in a world where the number of digital devices has now passed the number of people. Digital technology is now shaping every aspect of our lives in ways which were inconceivable a generation ago: how we work, travel, shop, access services, meet people, communicate and are entertained.

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Greater Manchester has always been a pioneer city region, with an eye for opportunity and the drive and pragmatism to seek out new solutions to old problems with almost 80000 digital and digital-intense creative businesses in Greater Manchester employing more than 82300 people generating £4.1bn of economic growth annually.

In the Greater Manchester Strategy we set a clear ambition to be a world-leading digital city region, and committed to taking an open, innovative and connective approach to delivering that ambition.

...to be a digital City-Region with a Difference and drive real change together, from the bottom up. We can only be a world leading city-region if we bridge the digital divide. Progress must be universal; geographically, socially and economically...using digital to connect young people to opportunity or tackle homelessness...we will capitalise on Greater Manchester's unique ability to use digital to connect and enhance our other high value sectors such as creative industries, health innovation and advanced manufacturing and materials.

The GM Digital Strategy asks why it is vital for Greater Manchester to be a leading digital City-Region and quotes:

"The future vitality of cities is increasingly based on their ability to use digital networks in intelligent, strategic ways" (Aspen Institute, Washington).

The Strategy goes on to state that:

...'digital technology has catalysed the interconnection of the global economy, with the internet enabling the free exchange of goods and services, providing consumers with greater choice and businesses with access to skills, resources and customers. As a result, people are now accessing more digital content and services from outside their own country, cross-border payments increasing, and small companies are more easily becoming more "multi-national".

Digital technology is increasingly the backbone of all industries, regardless of the nature and type of business. Embracing digital technology throughout all sectors, geographies and occupations is fundamental to Greater Manchester's current and future international competitiveness'.

"We want to be recognised as an international thought leader and do-er in digital innovation and adoption across our economy and communities"...

'This strategy is therefore founded on evidence that becoming a leading digital city-region is imperative to deliver our wider vision. We must do it to deliver the economic, social and inclusion improvements we need and want to see. We can do it because we have the vision, leadership and both the industrial and political will, coupled with strong academic, industrial and community foundations and an exciting and disruptive set of emerging activities and technology'.

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The Digital Strategy sets out the Greater Manchester Vision: A city with a Difference:

"It would be fantastic if we led the country in encouraging digital innovation which supports businesses and investment, creating jobs and opportunity, but focusing on improving outcomes for people such as loneliness or homelessness in our society.

I don't want Manchester to be just a smart city – I want it to be the smartest city" (Andy Burnham Mayor of Greater Manchester).

The strategy goes on to state that the Vision for Greater Manchester is 'to be one of the best places in the world for developing and harnessing digital technology and to be recognised as being a top 5 European Digital City Region by 2020 which:

- Empowers and enables residents to have the highest quality of life; and
- Supports the creation of high quality jobs and achieves the maximum possible productivity levels'.

This strategy for Greater Manchester is an open, connected and innovative city region....

'Our Vision for Greater Manchester is holistic, with digital technology driving improvement across all areas of economy and society. A world-leading digital city is therefore, one which its businesses, public service providers and citizens are using digital technology by default and to the fullest: to grow their businesses and improve productivity to access skills, training and employment opportunities, to address global challenges that have a local impact, such as ill health, social isolation, homelessness and pollution; to improve the quality and value for money of public services'.

The Strategy sets out the Goals and Measures. Goal 6 relates to Digital Infrastructure and aims that by 2022-23 the average download speed across fibre, mobile and wireless will exceed 100Mbps.

The benefits for delivering this strategy are noted as:

- For young people, better connected insights on children's development from the very early years right through to leaving school, a transformative range of career opportunities and a means through which they can be accessed;
- For Working Age Population, the ability to access broader range of high quality job opportunities, and set up own business more easily;
- For business owners and investors, for greater range of opportunities to access the technology and support to digitise, opportunities to physically and digitally collaborate will be readily accessible and there will be more readily available flow of talent, capital and support to new innovative ideas and a market place that defines and presents problems and commissions solutions rather than buying off the shelf products and services.

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- For Older people, there will be more support and solutions to social isolation, more ease and control for you and your family in terms of managing your own health care; and
- For all residents, a city that works around you in terms of living your life, where you can move around the city more easily and safely, improvements in, for example treating illness, improving air quality due to insights from pooled data, greater control over how and when you access public services.

Greater Manchester is aiming to become a world leading digital city by 2020. Greater Manchester plays a fundamental role in driving economic growth.

The Strategy notes that in terms of mobile internet, despite good public Wi-Fi coverage in most public buildings across Greater Manchester, and on Metrolink and many buses, Wi-Fi provision is patchy in public places and there are still barriers to access (registration requirements and cost) in many parts of Greater Manchester.

The Strategy also acknowledges that digital exclusion is closely linked with social exclusion.

The Greater Manchester Action Plan for Infrastructure at 8.1 States that the connectivity which Greater Manchester requires is to increase average mobile and fixed broadband internet speeds and aims to improve call and mobile coverage including securing a national 5G test bed status thus positioning Greater Manchester at the forefront of next generation 5G mobile.

The strategy notes 5 digital enablers: Social Networks, Mobile internet/apps, digital health, infotainment and e-commerce.

Greater Manchester Local Industrial Strategy (June 2019)

This Local Industrial Strategy sets out how Greater Manchester (GM) will forge its future. It states that it will build on GM's position as a 'leading European digital city-region; enable the digitalisation of all sectors; and capitalise on the links between digital and creative industries that feed internationally significant clusters in broadcasting, content creation and media, and maximise growing assets in cyber security.

It aims to put in place the integrated 21st century infrastructure needed for digital driven, clean and inclusive growth.

A top 5 city-region for the digital economy in Europe, with full fibre broadband and 5G coverage.

The Strategy states that GM will take a 'Made Smarter' approach to all industries, supporting firms to adopt new digital and creative techniques and enabling the digitalisation of all sectors.

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The strategy has a specific section relating to infrastructure and acknowledges its importance:

'...The city-region now aims to upgrade, integrate and future-proof its infrastructure, to create a 21st century city-region with extreme digital connectivity, clean and inclusive growth and – through work with others – improved access to national and global markets.

Existing partnerships are working to improve digital infrastructure in the city-region to meet national targets of roll out of 5G technologies for most people by 2027'.

The Local Industrial Strategy sets out an objective to ensure the vision for infrastructure is met:

- World-class connectivity – digitally and through an integrated transport network within all parts of GM.

To achieve the ambitions of the GM Local Industrial Strategy it identifies actions around 5 foundations of productivity: Infrastructure, Ideas, People, Business Environment and Places. These are noted as being essential attributes of every successful economy. It also identifies opportunities grouped under 4 Grand Challenges – Artificial Intelligence and Data, the Ageing Society, Future Mobility and Clean Growth.

The Vision for the Digital, Creative and Media is set out in the Local Industrial Strategy and reproduced below:

'GM will be a leading European digital City-Region, with the infrastructure, skills and networks needed to digitise all sectors, and internationally significant clusters in broadcasting, content creation and media and cyber security'.

To help meet the vision the strategy states that GM will continue to transform the digital connectivity of the city-region to drive economic growth and innovation, working with Government to meet national targets of full roll-out of 5G technologies for most people by 2027.

The Local Industrial Strategy acknowledges that GM will aim to become one of the best digitally connected city-regions in the UK. It fully supports the development of 5G networks.

The Greater Manchester Digital Blueprint (April 2020)

The GM Digital Blueprint builds on the Greater Manchester Digital Strategy and states that this blueprint sets out the next chapter in Greater Manchester's ambition to be recognised as a world-leading digital city region, with an ongoing commitment to taking an open, innovative and connective approach to delivering that ambition.

It states that Greater Manchester remains committed to being a digital city-region. The ambition is still for Greater Manchester to be a top 5 European Digital City-Region and

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recognised globally for its digital innovation. Benefitting from top level physical infrastructure, and a highly skilled, ready-to-go digital workforce.

The Blueprint goes on to say that this is the place that does digital differently.

'We want our citizens' lives to be bettered, and for them to be empowered by the myriad of opportunities a digitally fuelled city-region provides'.

The Blueprint for Greater Manchester digital sets out a 3 year approach to meeting these ambitions:

... 'investing heavily in digital infrastructure, connectivity and transport offering breadth and depth of expertise across digital and creative services, e commerce, technology, hardware and software.

We're creating a digital place where innovators from across the globe want to tap into and a place where businesses already here can thrive'.

The 3 year aims include:

- By 2023, the average download speed across fibre, cable mobile and wireless will exceed 100Mbps compared to a Q4 2017 baseline of 32Mbps.
- Employment and skills in digital and creative industries 86000 people employed in 2019 growing to 96000 in 2023.
- Overall economic growth £5 billion in creative digital and technology economy growing to £5.5 billion by 2025 and £7 billion by 2029.

The digital priorities are set out as follows:

- Empowering people
- Enabling innovative public services
- Digitally enabling all businesses
- Creating and scaling digital businesses
- Being a global digital influencer

Enablers to these priorities are noted as including extending world-class digital infrastructure:

'We will ensure that Greater Manchester has the digital infrastructure it needs to be a world class digital city region'.

The aims are noted as:

- *Deliver ubiquitous high speed digital connectivity over full fibre and 4G and 5G mobile across the whole city region by 2025.*
- *Driving market investment in fibre and mobile by minimising roll out costs.*

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Greater Manchester Infrastructure Framework 2040 (GMCA)

This is a pre-cursor to the GM Infrastructure Strategy. The aim is to focus on developing infrastructure which ultimately improves the lives of all those living and working within Greater Manchester.

The Infrastructure Framework acknowledges a number of key challenges, one of which is digital and the need to provide pervasive, affordable, resilient digital connectivity. The Framework notes that 'Digital technology is increasingly the backbone of the major industries and our daily lives'.

The Framework goes on to state that approaching 2040, GM will need to be a Smart and digitally ready City Region. To achieve this, and support on-going digitalisation, the region will require resilient fixed connectivity (through fixed fibre) supported by 5G (and subsequent technologies). It will also need to streamline the process for installation of new infrastructure within the street space.

The Framework notes the vision for the GM Infrastructure Strategy:

'Develop and maintain a holistic infrastructure system that is robust, accommodates sustainable growth and supports the ambitions of the Greater Manchester Strategy to make "Greater Manchester one of the best places in the world to grow up, get on and grow old".'

The Greater Manchester Infrastructure Strategy should seek to:

- *Support the lives and well-being of people, communities and the environment within Greater Manchester.*
- *Be age-friendly and support the economic and social participation of both young and old.*
- *Support strategically identified growth for parts and communities within Greater Manchester.*
- *Be flexible, robust and meet the existing and future needs of the communities and technological change.*
- *Provide world-class connections and access to opportunity for all.*
- *Provide world-class digital infrastructure which provides a platform for GM to embrace emerging technological and societal changes.*
- *Support a carbon-neutral GM and be economically, environmentally and socially sustainable.*

The Framework identifies a key infrastructure trend to 2040 as Digital (Telecommunications Operators) including mobile infrastructure:

- As the population and employment is due to rise:
 - more people will mean more homes and businesses, and more consumers of digital services.

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- There will be a growing demand for high-speed, resilient data connectivity to facilitate changing patterns such as shopping patterns moving online, whilst flexible working becomes more prevalent.
- Changing workforce:
 - More productive, higher skilled, higher paid jobs more specialised and skill activities needs digital infrastructure to support higher skilled industries – which may require increased digital infrastructure.
- Environmental Change:
 - Improving efficiencies of buildings and appliances. The use of smarter technologies within each infrastructure sector will look to improve efficiencies further.

The Framework comments on digitalisation noting the importance of it and how it has transformed the way in which we go about our everyday lives:

'We live in an increasingly digital world. Technologies that are visionary today rapidly become part of everyday life tomorrow. In turn, people's expectations are rising constantly. "Digital" now encompasses an increasing array of technologies, from sensors, smartphones and robots, to augmented reality, cloud computing and data analytics. These technologies are changing the way in which we live and places we live in. Digital technologies are being used to make cities more smooth running, more productive, and more democratic. The pervasiveness of digital technology in our lives represents a major change. For these technologies to function effectively, it is fundamental that a robust and diverse underpinning infrastructure is installed that ensures a future-proofed platform for the development of these and many new technologies for years to come.'

As our homes, businesses and cities become more reliant on digital technology to function the robustness of these systems becomes even more critical'.

The Framework states that *'anyone in GM should be able to access resilient, seamless connectivity at a speed they need anywhere and anytime'.*

- New technologies, artificial intelligence and atomisation:
 - Improvements in artificial intelligence and atomisation technologies will transform infrastructure sectors and business markets.
 - Digital infrastructure will be crucial to supporting future technology and a Smart City Region.
 - Embracing digital technology throughout all sectors, geographies and occupations is fundamental to GM's current and future international competitiveness.

The Framework acknowledges that the vision of moving to a smart and digitally-ready city-region requires future digital infrastructure to be strong fixed resilient connectivity, supported by 5G (and beyond), big data systems and other nascent technologies such as Artificial Intelligence and machine learning. Without connectivity it is acknowledged that processing

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the sheer volumes of data necessary to create a network of communicating devices will be impossible. As such, the Framework states that big improvements are required to increase the provision of wired and wireless (through 5G or subsequent technologies and Wi-Fi provision) across GM. Without the more basic technology solutions (such as passive fibre connectivity and 5G) the smart-region solutions and value-added outcomes will struggle to be brought to fruition.

The Framework notes that 5G roll out is expected from 2020. However, the timing and costs of roll out is uncertain and international standards have yet to be agreed. It is possible that there will only be one network upon which providers deliver their services or that each provider might need to invest.

With regards to the Regional Centre if Challenge 8 is to be met to provide pervasive, affordable, resilient digital connectivity the challenge is early roll out of 5G especially in areas where mobile data use is congested such as the Regional Centre.

The Framework also states that GMCA and the Districts together with digital and telecommunication providers need to drive forward opportunities to promote connectivity and uptake in the Regional Centre.

Manchester Digital Strategy 2021-2026 (March 2022)

This digital strategy for Manchester is the vision for Manchester's digital future. It sets the priorities that our whole city – our public, private, voluntary and community organisations and residents – will be able to work on together to make Manchester one of the world's leading smart cities and digital economies in the next five years.

The priorities of the Manchester Digital Strategy will contribute directly to the delivery of five of the ten Our Manchester Strategy priorities:

- We will become a digitally inclusive city, with better digital infrastructure, access to digital technology and strong and lifelong digital skills.

We have used these to create four overarching themes for the Digital Strategy:

1. Smart people:

We will ensure that everyone can gain and sustain the skills, aspirations, and confidence to fully participate in the digital world; providing the basis for Manchester to become an inclusive, diverse, successful and ethical smart city.

2. Digital places:

We will create digital neighbourhoods providing access, connectivity and support for all residents and businesses and digitally enabling enhanced health and wellbeing.

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3. Future prosperity:

We will enable the digital economy and ecosystem to grow, continue to attract new digital businesses & sectors and support a resilient and inclusive economy.

4. Sustainable resilience:

We will use digital imaginatively for innovation to meet zero carbon and climate resilience goals and to create open inclusive connectivity with enhanced digital infrastructure as a utility not just a commodity.

Digital Places is about making sure the city itself, alongside its people, drives us towards a more digitally enabled future.

In a digital place, high quality and open digital infrastructure is ubiquitous at every level. Its leaders think towards the future and make sure that the changes we make to our physical environment today support the technological demands of tomorrow, and therefore much of Digital Places is about how we plan for and consider these future requirements in everything that we do to create a built environment that is fully digitally enabled.

Smart places are places where connectivity is ubiquitous and universal, where people, organisations and smart devices are all connected. They are places where information is collected and shared in a way that allows anyone to understand and interrogate it, coming up with their own solutions to our greatest challenges. Smart places are also climate-resilient and adaptive, supporting our transition to a zero carbon economy as well as being sustainable, adaptable and future-proofed.

Connectivity is also of critical importance to Manchester 's creative and cultural industries, which overlap with the digital and tech sectors. Our cultural sector has been reliant on digital to keep operating throughout the COVID-19 pandemic, and there is a role for Digital Places in supporting the city 's Cultural Recovery Plan. The digital transformation of the sector is likely to continue, and we must support it by making it easier for creators to digitising, distributing and monetising artistic products online.

Secondly, we know that improved access and technology can enhance access to existing public services. Using the example of health services, digital delivery means that services become more accessible and have wider benefits, for example enabling older people to continue to live in their own homes. Digitisation of health and care records also provides the opportunity to better integrate services as well as offering an opportunity for innovation providing new approaches to tackling embedded health challenges in the City including Health Ageing.

Online Nation 2020 Report (June 2020)

In the first instance, all correspondence should be directed to the agent.

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Online Nation is an annual research report, published for the first time in 2019. Using research produced both by Ofcom and others, it looks at what people in the UK are doing online, how they are served by online content providers and platforms, and their experiences of using the internet, alongside business models and industry trends. As well as looking at long-term trends, this year's report includes more recent data looking at online behaviour in the UK during the coronavirus (Covid-19) pandemic.

The Report sets out its findings:

With respect to the consumer and industry it found that time spent online, and associated revenues grew in 2019.

- In September 2019 the average time spent online each day by adults aged 18+ was 3 hours 29 minutes. In comparison, on average, adults spent 3 hours 19 minutes watching TV on a TV set each day, 2 and 2 hours 40 minutes listening to radio each day.
- 71% of all measured time spent online was on smartphones. 35% of internet users only accessed the internet on mobile devices (smartphone or tablet).
- Just 13% of adults do not use the internet
- In 2020, a fifth (22%) of UK adults have a smart speaker in the home and 11% of all UK households own some kind of 'smart home' technology (including devices such as smart home security, smart lighting and smart heating).

Key Metrics Online Consumer Market

UK online consumer market	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Internet take-up (%)	76	79	80	82	85	86	88	87	87	89
Smartphone take-up (%)	27	39	51	61	66	71	76	78	79	82
Tablet take-up (%)	2	11	24	44	54	59	58	58	54	52
Laptop take-up (%)	55	61	62	63	65	64	64	63	60	57
Consideration that the smartphone is the most important device for internet access (%)	n/a	n/a	n/a	32	32	38	46	48	52	60

As the table above highlights 60% of the consumer market consider Smartphones are now the most important device for internet access.

In September 2019, 81% of all measured time spent online was on a mobile device (both tablet and Smartphone).

The table below indicates the most-missed device among adults: 2014-2019 were it be taken away from them. As can be seen, nearly half of all adults say that their mobile device is the device they would miss most were it taken away from them.

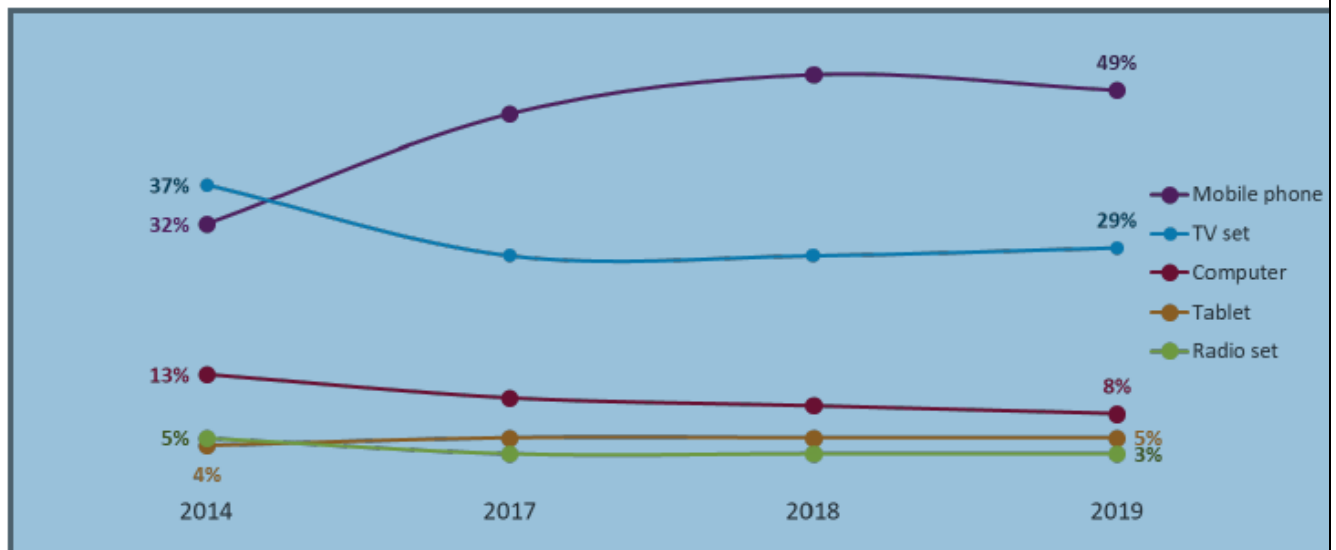
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Source: Ofcom Adults' Media Literacy Tracker 2014-2019

The Report found that social media and messaging sites reach 98% of the UK adult digital population. On average, visitors aged 18+ spent 49 minutes per person per day on social media sites, considerably more time on average than in key areas such as news sites (12 minutes per user), e-commerce sites (14 minutes) and even gaming sites (31 minutes).

Ninety-two per cent of time spent on social media sites took place on a mobile device (smartphones and tablets) rather than on a computer, compared to 81% of total time spent online.

The Connected Nations December 2020² report is published as the UK continues to address the challenges of the coronavirus (Covid-19) pandemic; a time when people, families and businesses have come to rely on their phone and broadband connections as never before. We report on how the networks have performed during this period and how the availability of services has evolved.

The report sets out in its findings:

The UK's fixed and mobile networks have generally coped well with increased demands during the pandemic. A shift to more people being at home drove increased demand on broadband networks during the day, although peak usage remained in the evening. Mobile networks also experienced increases in voice traffic.

The number of mobile base stations providing 5G services has risen ten-fold, to around 3,000 across the UK. 87% of these are in England, 7% in Scotland and 3% in both Wales and Northern Ireland.

² https://www.ofcom.org.uk/data/assets/pdf_file/0024/209373/connected-nations-2020.pdf

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Mobile coverage is generally stable. The four mobile network operators (MNOs) – EE, O2, Three and Vodafone - each estimate they provide outdoor coverage to 98%-99% of premises. Their networks' coverage of the UK landmass ranges from around 79% to around 85%. The Shared Rural Network programme agreed in March 2020 will extend coverage beyond this by 2025.

A small, but significant number of properties are still struggling to get connected. We estimate that 43,000 premises cannot access either a decent fixed broadband service, or good 4G coverage, indoors.

Mobile data consumption continues to rise, increasing by 42% compared with last year. 83% of the total data traffic was consumed in England with about 10% in Scotland, 4% in Wales and 3% in Northern Ireland (largely in line with UK population distribution). Reflecting this growth, the traffic carried in England in June exceeded that carried across the whole UK in February.

Connected Nations 2021 Report (June 2021)

The importance of the internet and access to smartphones is acknowledged within the latest Online Nation 2021 Report (June 2021). The report notes that the pandemic has highlighted the importance of being online and driven changes in the take-up and use of internet services, as many people have had a critical reliance on the internet for communications, information, entertainment and commerce. Increases in internet use in 2020 were most pronounced in spring and November 2020 lockdowns, as people turned to the internet and were more dependent than ever on online services for video calling for socialising or home-based working, home schooling, keeping in touch, films and gaming, shopping and information about the pandemic.

In September 2020, UK Internet users spent nearly 4 times as much time on smartphones than they did on computers. 68% of the time spent online was via smartphones up 4% from September 2019, this was compared to 18% of time spent on line via computers and 13% via tablets.

By the end of 2020 approximately 94% of UK homes had internet access, up from 89% in 2019. Video calling became an important way for people to keep in touch during the pandemic. Zoom went from a few hundred thousand users in the first few months of 2020 to more than 13 million in April and May 2020. This has dropped to 10.4 million users in March 2021, while platforms used mainly for work and education, notably Microsoft Teams have shown a sustained increase in use (13.7 million users in March 2021m up by 5.3 million year on year).

The report found that most of the time people spend on the internet is via apps on mobile devices. Online services were a crucial way for people to find out information about the pandemic, and for governments to try and track and control the spread of the virus.

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The report acknowledged that the internet helped most children continue their education throughout lockdown. Virtually all households with school-aged children had access to the internet at home. 7% did not have fixed broadband and 4% had access only to a mobile phone. 1 in 5 did not have access to an appropriate device for their schoolwork all the time. The Report found that 2020 saw the rapid adoption of digital remote education by teachers, parents and children such as video conferencing, and platforms for setting and collecting work. In the first few weeks of lockdown in spring 2020, two thirds of children in England were not receiving any live or recorded lessons. By January 2021, this was down to just one in ten. The Report suggests that the use of these platforms may continue such as for those who can't attend school due to illness, or to provide additional revision materials.

Nine in ten 8 – 15 year olds who use social-media said it helped them to feel closer to their friends in 2020. The report stated that social video services offer huge benefits for users and the economy. They provide a platform for self-expression through enabling user-generated content (31% of adults and 40% of 13-17 year olds post video content).

Lockdown influenced the types of social video that were most popular such as the first episode of Joe Wicks' PE which was the most viewed YouTube video of 2020, and videos relating to home baking such as sourdough bread increased by 458%.

Social media serves as a means of entertainment and education for many (used by 97% of adult internet users), and as an important method of marketing for businesses (online video advertising grew by 23% in the UK in 2020).

Online retail spend in the UK increased by 48% in 2020 (compared to an average annual increase of 13% in the previous 4 years). Online's share of retail spend increased from approximately 20% in 2019 to 35% in the spring lockdown and 30% in December 2020. By December 2020 11% of the UK grocery market sales were online, up from 5% at the beginning of the year. Online food delivery services also increased in demand. Just Eat being the most popular with its UK orders up 58% higher in the last quarter of 2020 compared to the same period in 2019.

People have relied on the internet for news and information throughout the pandemic. During the spring 2020 lockdown 52% of people said that news and current affairs was one of their main reasons to go online.

Adults are as likely to use social media to find information about the COVID-19 pandemic as they are to use news sites and apps (approximately 1 in 3). Whilst one in eight 16 – 24 year olds considered social media to be their most important source of information about the coronavirus pandemic, compared to 5% of all UK online adults.

The report found that 91% of households used smartphones to access the internet in 2021, compared to 65% who used tablets and 47% who accessed the internet using computers. The report also noted that 61% of UK adults who access the internet did so using both computers and smart devices.

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The Report notes that the smartphone is the most-used device for accessing the internet for all age groups apart from those aged 65 +. It found that in 2020, 85% of internet users aged 16 + used a smartphone to go online, compared to nearly 75% accessing the internet via a computer and just over 50% using a tablet to access the internet. One in ten adults also stated that they only use a smartphone to go online and three in ten used their phone to complete an online form or app on a weekly basis.

In February 2021 the Government said that more than 1.7 million app users across England and Wales had been advised to isolate by the NHS COVID-19 app, following close contact with someone who had tested positive.

Levelling Up the United Kingdom (February 2022)

Digital Connectivity is a focus area and the mission is 'By 2030, the UK will have nationwide gigabit-capable broadband and 4G coverage, with 5G coverage for the majority of the population'.

Chapter 3 - The Policy Programme:

Para 3.2.4 - By 2030, the UK will have nationwide gigabit-capable broadband and 4G coverage, with 5G coverage for the majority of the population

This mission is focused on improving digital connectivity.

Digital connectivity: The case for action

The COVID-19 pandemic demonstrated the importance of digital infrastructure right across society, from ensuring business continuity to reducing isolation. Improved digital connectivity has the potential to drive growth and productivity across the UK and widen job opportunities through remote working. However, there are significant spatial disparities in the quality of broadband and mobile networks, with rural areas likely to experience worse digital connectivity than urban areas. Infrastructure is only part of the picture: economic benefits will only materialise if businesses and workers have the skills to take advantage of improved infrastructure.

More broadly, high quality digital infrastructure can deepen local labour markets through remote working, making it more attractive for both workers and companies to locate regionally. It also allows for the development of high-value sectoral clusters, which can drive growth and jobs in new areas. Existing specialisms in the UK regions have the potential to generate strong tech clusters, such as fintech in Scotland and Wales, e-Commerce in the North West and Northern Ireland, and Agri-Tech in Yorkshire and the Humber. The sector also provides opportunities for raising living standards – median earnings for the sector are 50% higher than the UK average.

The policy programme In 2020, the UK Government published the National Infrastructure Strategy, committing to providing £5bn in public funding to roll out gigabit broadband to at

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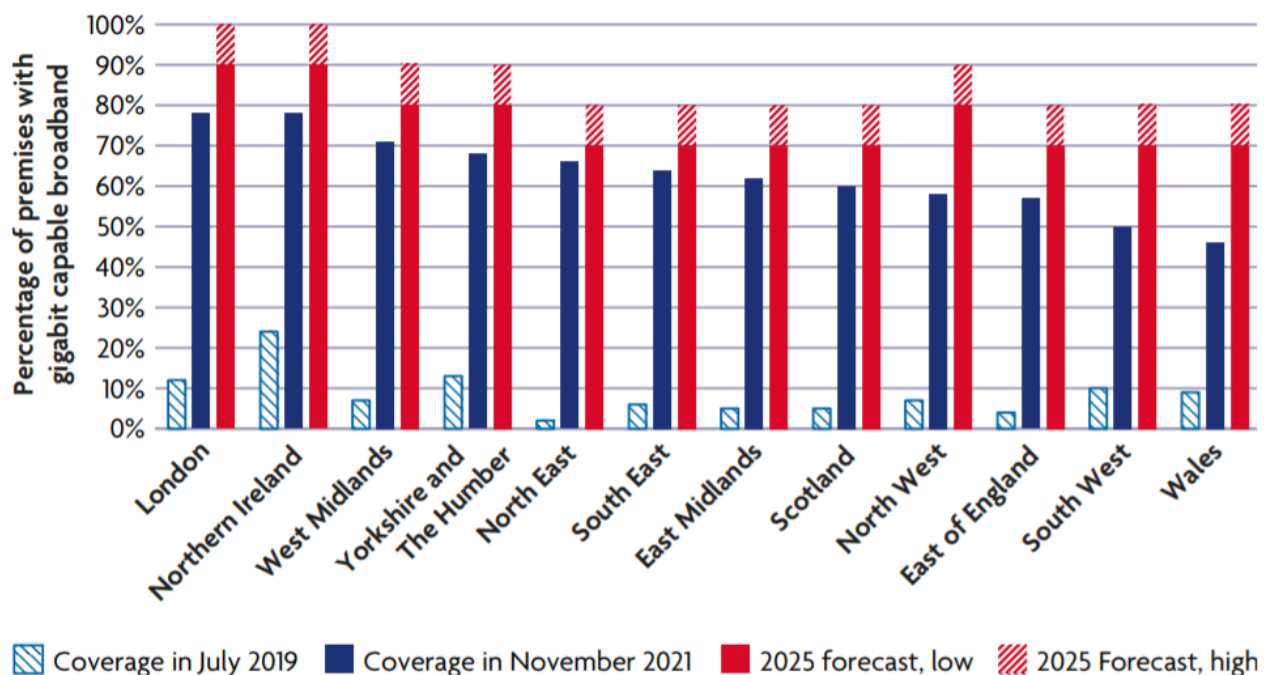
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least 85% of the country by 2025, and subsequently to as close to 100% as possible, working with the private sector.

Public investment will target premises that are hardest to reach and which would otherwise not be provided for by the private sector, ensuring no areas are left behind. Gigabit coverage has increased from 10% to over 60% in less than two years. Since 2019, coverage has improved across the UK, and the UK Government anticipates the following additional improvements to be delivered as a minimum by 2025, as set out below.

Figure 3.1 Gigabit coverage improvements, UK countries and regions, 2019, 2021 and 2025 (forecast)



Source: Levelling Up the United Kingdom.

5G has the potential to radically change the way people live and make businesses more productive and competitive. The UK Government's ambition is for the majority of the population to have access to a 5G signal by 2027. Since 2017, the UK Government has provided £200m in funding for 5G Testbeds and Trials, supporting over 200 startups and SMEs across a range of sectors – including healthcare, manufacturing, Agri-Tech and creative industries – to better understand how to use the technology to develop new solutions and services.

In 2022, the UK Government will publish the Wireless Infrastructure Strategy. This will review how far the private sector will go to deliver wireless infrastructure – including 5G – across the country, and determine whether there are any market failures in places that need to be addressed, and how the UK Government could tackle these.

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Box 3.9 - West Midlands 5G The West Midlands 5G (WM5G) Testbed started in 2018 with the mission of testing and proving the benefits of 5G to public and private sector productivity, creating jobs and boosting growth. The UK Government has invested £21m over three years, alongside investment from local government and the private sector. By working with local authorities and Mobile Network Operators (MNOs), WM5G has accelerated 5G deployment by over six months, resulting in the West Midlands being amongst the best connected places for 5G in the UK. In addition, WM5G has delivered a number of UK firsts, including a 5G road sensor network, 5G connected ambulance and capsule endoscopy trials, and a 5G application accelerator programme called 5prinG, which has already upskilled over 400 organisations on the benefits of 5G and allowed over 60 start-ups to develop new 5G products and services.

We must ensure that people have sufficient digital skills to reap the benefits and prosperity arising from the digital economy. In 2020, the UK Government introduced a new digital skills entitlement, giving adults with low or no digital skills in England free access to new digital skills qualifications based on employer-supported national standards. The UK Government continues to work with local leaders to develop Local Digital Skills Partnerships. These collaborative partnerships are now operating in seven regions across England, with an eighth formally launching in Hull and East Yorkshire in early March. The UK Government will work with devolved administrations to consider how best to share the insights and evaluation of the programme to help build digital skills capability across the UK.

Planning Assessment

The main issues arising from this application to upgrade the existing installation at rooftop of The Printworks, is whether the proposed antennas, equipment cabinets and ancillary development would be a visually obtrusive feature which would be detrimental to the character and appearance of the area including the conservation area. Whether any perceived harm would outweigh the significant social and economic benefits associated with the increased service provision attributed to the proposal and other valid material considerations as outlined within NPPF, which fully supports the roll out of 5G and the next generation connectivity to accelerate business opportunities and growth to ensure the economy is resilient and competitive, the Manchester Unitary Development Plan (1995), the Manchester Core Strategy (2012), Greater Manchester Digital Strategy 2018-2020, Manchester Digital Strategy 2021-2026, the Greater Manchester Infrastructure Framework, Greater Manchester Digital Blueprint and the Greater Manchester Local Industrial Strategy the which fully supports Greater Manchester's position as a leading European digital city-region and the development of 5G networks.

The replacement of the existing antennas and additional new antennas fully complies with Policy DC 17.1 of the UDP, Policy SO1 of the Manchester Core Strategy, the Greater Manchester Digital Strategy 2018-2020, Manchester Digital Strategy 2021-2026, the Greater Manchester Local Industrial Strategy, Greater Manchester Digital Blueprint and the Greater Manchester Infrastructure Framework as it will improve the infrastructure and services for this area of Piccadilly. Access to a high quality, reliable superfast mobile network is not just 'a nice to have' but an essential part of everyday life. Indeed many, including the former

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Minister for Digital Infrastructure Matt Warman, consider it to be the fourth utility service as important as gas, water and electricity, a life line for many especially during the COVID-19 pandemic where people were able to see their loved ones, speak to friends and family and arrange virtual meetings allowing some form of normality in a very abnormal situation.

The existing Printworks building rooftop has hosted telecommunications equipment for a number of years. It has become an established feature in this area of Piccadilly. Thus, an established rooftop telecommunications radio base station is to be utilised and upgraded to enable the latest 2G, 3G and 4G services to be provided as well as new 5G. This is in full accordance with Policy DC 17.1 of the Manchester UDP as it will utilise an existing rooftop site. These additional antennas are required in order to bring 5G into the area for two operators and improve the existing 2G, 3G and 4G coverage and capacity in this cell area. This is in fully accordance with national guidance contained within the NPPF, the Code of Best Practice, Policy DC 17.1 of the Manchester UDP, Greater Manchester Digital Strategy 2018-2020, Manchester Digital Strategy 2021-2026, Greater Manchester Local Industrial Strategy, Greater Manchester Digital Blueprint and the Greater Manchester Infrastructure Framework.

More recently, the Council approved planning for a similar designed scheme as the proposed upgrade, which comprised the replacement of 6 no. antennas and 6 no. equipment cabinets on the Printworks building rooftop with 12 no. upgraded antennas, 3 no. 600mm diameter dishes and 11 no. equipment cabinets, for Hutchinson 3G and EE to provide 2G, 3G and 4G coverage and new 5G service provision for these operators to the east and west of rooftop on February 2019 under LPA ref: 122339/FO/2019.

This is an existing radio base station which enables two operators to continue to utilise the same installation to maintain and enhance high quality service provision to this area of Piccadilly. The amendments to this site are needed to ensure the latest 3G and 4G services are available to the operator's customers as well as the new 5G technology enabling access to the latest superfast data in this area of Piccadilly as technologies change and greater demands on the network are experienced as more people use their handheld devices to stream data and access the internet. The upgrade will ensure greater capacity in the network for two operators and as such prevent the requirement for an additional installation elsewhere within this cell area. This is in accordance with Policy DC 17.1 of the Manchester UDP which encourages site sharing and utilising existing sites.

The upgrade will enable their customers to continue to utilise their handheld devices for the purposes in which they have become accustomed, as well as being able to access the latest technology wherever they are whether that be indoors or outside. This is in full accordance with the NPPF and The Code of Best Practice. It offers the best environmental solution, limiting the number of new sites required whilst allowing the two operators to continue to utilise the same existing established site, limiting the visual intrusion in the area. This is in full accordance with NPPF and the Code of Best Practice, as well as Policy DC 17.1 of the Manchester UDP.

NPPF states at paragraph 115 the use of existing masts, buildings and other structures for new electronic communications capability (including wireless) should be encouraged. Utilising the existing radio base station is fully in line with the NPPF. Whilst a new site is not required,

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replacement and new antennas are. In order to provide a new 5G service in this locality, the operators are unable to utilise the existing structure as it is not physically capable of supporting all the legacy technologies comprising 2G, 3G and 4G as well as the new bigger 5G antennas. Therefore, replacement and new antennas are required in order to maintain, upgrade and provide the latest and new technologies to the surrounding area. This is in line with the Greater Manchester Digital Strategy 2018-2020, Manchester Digital Strategy 2021-2026, the Greater Manchester Local Industrial Strategy, Greater Manchester Digital Blueprint and the Greater Manchester Infrastructure Framework.

The siting of the proposed radio base station has been carefully considered. To this end, an established rooftop telecommunications radio base station is to be utilised and upgraded to enable the latest 2G, 3G and 4G services to be provided as well as new 5G. This is in full accordance with national guidance contained within the NPPF, the Code of Best Practice and Policy DC 17.1 of the UDP, Policy SO1 of the Manchester Core Strategy, Greater Manchester Digital Strategy 2018-2020, Manchester Digital Strategy 2021-2026, the Greater Manchester Local Industrial Strategy and the Greater Manchester Infrastructure Framework.

The existing antennas proposed to be removed need to be replaced as they are not capable of providing the operators' latest technologies. Their existing location, as explained above, is difficult to access and therefore the antenna location is being amended to enable the replacement and new antennas to be installed and maintained more easily from a health and safety aspect. The new antennas to the west are to be removed from the edge of the building to a position which is much more set in from the roof edge. Although these antennas will be located at an increased height of 29.1m they will be set against the backdrop of the host building which is of a similar height, behind a GRP shroud, will not protrude above it and therefore will not appear significantly noticeable especially as they will be of a similar colouring to the building in this location. Given their new location set well in from the roof edge, surrounded by a GRP shroud and the building mass of the existing host property and surrounding buildings these antennas will not be obvious. This reduces their prominence in the streetscene and helps to preserve the character and appearance of the conservation area. This is in full accordance with Policy DC 18.1 of the Manchester UDP and Policy CC9 of the Manchester Core Strategy as well as Policy DC 17.1 of the Manchester UDP and Policy DM1 of the Manchester Core Strategy.

The existing 2 no. antennas on the south east corner of the host building at the junction of Garden Street and Dantzic Street are proposed to be removed. They are difficult to access and maintain and for health and safety reasons the replacement and new antennas are being relocated to the north east where access is easier for build and maintenance. This has the benefit of removing the antennas from a prominent location and the 4 no. new antennas and 1 no. transmission dish will positioned further north east where they will be less visible as they are not proposed to be located on the corner of the host building and will be in a position where the road is narrow with tall buildings either side. Given that the antennas are proposed to be set back from the building edge, the narrowness of Dantzic Street, the building mass of the host property and the surrounding buildings, these new antennas will not be overly prominent in the streetscene, set against the building mass of the host property. This ensures that the character and appearance of the conservation area is preserved and the

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impact on the surrounding area is minimised. This complies with Policy DC18.1 of the Manchester UDP and Policy CC9 of the Manchester Core Strategy, Policy DC 17.1 of the Manchester UDP and Policy DM1 of the Manchester Core Strategy.

For the avoidance of doubt, new and replacement antennas are required and need to be bigger (width and depth) than the existing antennas already in situ to enable the latest technologies to be provided in this area of Piccadilly. The superfast data that has to be carried by the antennas requires larger antennas to be installed. The need to provide new antennas has led to the opportunity of relocating the antennas to less obvious locations on the host building and making them more accessible improving the health and safety for the build and maintenance of the equipment,

The additional antennas are required to ensure that all the operators' latest technologies can be provided from the existing radio base station. Given the rooftop siting, combined with the maximum top height of the antennas will be lower than the top height of the building, the building mass of the host building and the narrowness of the roads coupled with the tall buildings nearby and that the appearance will be as similar as possible to the existing in situ, then the additional antennas will not be significantly prominent over and above the current situation. The upgraded site will also help reduce the varying levels of coverage for two operators in this busy area of the city and boost the signal for its customers.

In line with Policy DC17.1 of the Manchester UDP and Policy DM1 of the Manchester Core Strategy the proposed additional antennas and ancillary development to the existing installation are part of essential infrastructure and therefore will not cause any loss of privacy. The antennas do not emit any noise, odour, vibration, artificial light or disturbance from air. This is in line with Policy DC17.1 of the Manchester UDP and Policy DM1 of the Manchester Core Strategy. The minor amendments will have no unacceptable impact on the character and appearance of the area.

The new equipment cabinets will have a maximum height of 2m. They will be set in from the roof edge significantly more than this and therefore will not be able to be seen from any public vantage points due to the building mass of the host property and the varying roof levels on this roof top, together with the building mass of the surrounding properties. There is also a lot of other rooftop paraphernalia on this host property including air conditioning units and extractor fans etc, as well as other equipment cabinets. The proposed cabinets will not appear out of place given all this other equipment which is already located on this rooftop. As these cabinets will not be visible from ground level they will not detrimentally impact on the character and appearance of the conservation area.

This is an existing radio base station located on an existing building which enables both operators of the Cornerstone network to utilise the same site to provide high quality service provision to this mixed-use area of Piccadilly. The upgrade to this site is needed to enable superfast data including enhanced 4G service provision and new 5G technology to be continually accessed in the area as technologies change and greater demands on the network are experienced as more people use their handheld devices to stream data and access the internet. The upgrade will ensure greater capacity in the network and as such

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prevent the requirement for an additional installation elsewhere within the area. This is in full accordance with NPPF which supports such development especially on developments that are utilised by more than one operator. It is also in line with the Greater Manchester Digital Strategy 2018-2020, the Greater Manchester Digital Strategy 2021-2026 and the Greater Manchester Digital Blueprint which aims to be a world leading digital city region, the 'smartest' city and a top 5 digital city region, the Greater Manchester Digital Strategy 2018-2020 and the Greater Manchester Digital Strategy 2021-2026 which aspires Greater Manchester to be a top 5 city-region for the digital economy in Europe, with full 5G coverage, with world-class connectivity and which fully supports the development of 5G networks, the Greater Manchester Infrastructure Framework which also supports the provision of world-class connectivity as it provides a platform for Greater Manchester to embrace emerging technological and societal changes and if the challenge is to be met to provide pervasive, affordable, resilient digital connectivity the challenge is early roll out of 5G especially in areas where mobile data use is congested such as the Regional Centre.

The proposed upgrade to the existing radio base station has been designed to be fully ICNIRP compliant in line with paragraph 118 of the NPPF. A Declaration of Conformity with the International Commission on Non-Ionizing Radiation Protection (ICNIRP) Public Exposure Guidelines is enclosed with the application documents. It is therefore not necessary for the Council to set health safeguards different from the International Commission guidelines for public exposure.

Lack of Coverage – Material Consideration

In accordance with the NPPF, the Manchester UDP Policy DC 17.1 which recognises the need for Manchester to be at the forefront in the for communications, the Greater Manchester Infrastructure Framework which encourages the expansion and improvement of mobile telecommunications infrastructure and the Greater Manchester Local Industrial Strategy which supports measures to enhance or improve access to existing facilities, services and amenities to ensure Manchester become a top 5 city region for the digital economy in Europe which will also contribute to business needs, quality of life of residents, and visitor requirements including access to information and communication technologies, the proposed installation is significant to enable continuous coverage of the telecommunication network, ensuring that this area of Piccadilly continues to get the mobile coverage it needs for Cornerstone customers as well as new 5G coverage. It will also maintain and improve coverage for the Mobile Virtual Network Operator's (MVNOs) which use the Cornerstone network which includes GiffGaff, Tesco Mobile, Sky Mobile, and Lyca Mobile on the Telefonica network and VOXI, Lebara Mobile and Talkmobile on the Vodafone network. So the proposal will not only provide a service for two operators but those who buy network space off them, which is at least 4 with Telefonica and 3 with Vodafone. This will provide a choice for those customers who consider the level of coverage in their area when selecting which operator they agree future contracts with.

The current proposals will facilitate the development of an advanced broadband telecommunications infrastructure in line with National Government guidance contained within the NPPF which supports infrastructure especially where growth takes place. By

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providing the latest 4G technology and new 5G service provision the proposals will support the aspirations of Central Government for everyone to have access to the superfast highway network wherever they are and that the majority of the population have access to a 5G service by 2027. The radio base station will also fully comply with the Greater Manchester Digital Strategy 2018-2020 and the Greater Manchester Digital Strategy 2021-2026, Greater Manchester Local Industrial strategy, Greater Manchester Digital Blueprint and the Greater Manchester Infrastructure Framework. By providing the latest 4G technology and new 5G service provision the proposals will also help meet the aspiration of the Greater Manchester Digital Strategy to be a world-leading digital city region. Embracing digital technology throughout all sectors, geographies and occupations is fundamental to Greater Manchester's current and future international competitiveness according to the Digital Strategy. Becoming a leading digital city-region is imperative to delivering the Greater Manchester Digital Strategy Vision 2018-2020 of delivering the economic, social and inclusion improvements it needs and wants. It will help Greater Manchester become the 'smartest' city, an aspiration of the Greater Manchester Mayor. Digital growth plays a fundamental role in driving economic growth. It will digitally enable places to enable digital neighbourhoods by providing access, connectivity and support for all residents and businesses and digitally enabling enhanced health and wellbeing. This is in line with the Manchester Digital Strategy 2021-2026.

The upgrade to the existing radio base station will also fully comply with Policy DC17.1 of the Manchester UDP which supports development which improves digital infrastructure delivery to businesses and residents. By providing the latest 4G technology and new 5G service provision the proposals will also help meet the aspiration of the Greater Manchester Digital Strategy to be a world-leading digital city region. Embracing digital technology throughout all sectors, geographies and occupations is fundamental to Greater Manchester's current and future international competitiveness according to the Digital Strategy. Becoming a leading digital city-region is imperative to delivering the Greater Manchester Digital Strategy Vision of delivering the economic, social and inclusion improvements it needs and wants. It will help Manchester become the smartest city, an aspiration of the Greater Manchester Mayor. Digital growth plays a fundamental role in driving economic growth.

Providing 5G coverage in this area of the regional city will also be in line with the aspiration of the Greater Manchester Local Industrial Strategy to be one of the top 5 city-regions for the digital economy in Europe, with full fibre broadband and 5G coverage. It will also support the Greater Manchester Local Industrial Strategy aim to upgrade, integrate and future-proof its infrastructure to create a 21st century city-region with extreme digital connectivity, clean and inclusive growth and improved access to national and global markets. The proposals will also support the Greater Manchester Local Industrial Strategy of having world-class connectivity digitally with the infrastructure to digitalise all sectors. As a result, the Manchester Local Industrial Strategy fully supports the development of 5G networks. It will also be in full accordance with the Greater Manchester Digital Blueprint whose ambition is for Greater Manchester to be a top 5 European Digital City-Region and recognised globally for its digital innovation. Benefitting from a top-level physical infrastructure, and a highly skilled, ready-to-go digital workforce.

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New 5G coverage in this part of the city will also fully comply with the Greater Manchester Infrastructure Framework by helping to meet the challenge to provide pervasive, affordable, resilient digital connectivity. The Framework notes that if this challenge is to be met then early roll out of 5G especially in areas where mobile data use is congested such as the Regional Centre. The proposal will fully meet this Framework aspiration. The proposals will also help Greater Manchester to be a smart and digitally ready city-region, where resilient fixed connectivity supported by 5G service provision is required. The Framework also states that 'anyone in Greater Manchester should be able to access resilient, seamless connectivity at a speed they need anywhere and anytime'. The proposed installation will fully comply with this aim.

In line with the Greater Manchester Infrastructure Framework which fully supports the development of 5G, the proposals will provide world-class connections and access to opportunity for all in this cell area, as well as providing world-class digital infrastructure which provides the platform for Greater Manchester to embrace emerging technologies and societal changes. As noted in the Infrastructure Framework 5G infrastructure is fundamental to enable digital technologies to function. The proposals will ensure that either of the operators customer in this cell area will be able to access resilient, seamless connectivity at a speed they need anywhere at any time. Without the more basic technology solutions such as 5G, the Framework acknowledges that smart-region solutions and value-added outcomes will struggle to be brought to fruition.

By enhancing the 2G, 3G and 4G service provision to the surrounding area and providing new 5G coverage into both operator's networks, this would fully support the Greater Manchester Digital Strategy 2018-2020 and the Greater Manchester Digital Strategy 2021-2026, the Greater Manchester Local Industrial Strategy, Greater Manchester Digital Blueprint and the Greater Manchester Infrastructure Framework. It will also be in accordance with Policy DC 17.1 of the Manchester UDP as it will improve the digital infrastructure.

The way 5G works, it is closely connected with the Smart City agenda and will enable centralized control of lots of different street infrastructure owned or managed by councils, such as streetlights, water meters and bus stops. Manchester is fully committed to being a smart city and being a world-leading digital city region, as highlighted in the Greater the Greater Manchester Digital Strategy 2018-2020, the Greater Manchester digital Strategy 2021-2026, Greater Manchester Digital Blueprint, the Greater Manchester Infrastructure Framework and Greater Manchester Local Industrial Strategy. As such it needs the 21st century infrastructure to enable this objective to become a reality. An installation in this location enabling 5G service provision to the Piccadilly area will ensure that this aspiration is fully met. It will contribute to the priorities of the Manchester Digital Strategy to the help deliver one of the ten Our Manchester Strategy priorities, including to become a digitally inclusive city, with better digital infrastructure, access to digital technology and strong and lifelong digital skills. It will enable to create Smart people to ensure that everyone can gain and sustain the skills, aspirations, and confidence to fully participate in the digital world; providing the basis for Manchester to become an inclusive, diverse, successful and ethical smart city. An installation in this location enabling 5G service provision to the Piccadilly area will ensure that this aspiration is fully met.

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Trials have already begun across the UK to demonstrate the potential of 5G and how it can improve and drive productivity and efficiency. In June 2019, West Midlands 5G partnered with BT and University Hospitals Birmingham to trial the UK's first 5G Connected Ambulance. Real-Time communications between the paramedics and the hospital doctors enabled the effective diagnosis of the patient at an early stage of care. The trial showed how a paramedic performed a remote-controlled ultra-sound scan on a patient in an ambulance over a public 5G network. These trials show how digital connectivity and technology can reduce patient waiting times and save lives (Source: WM5G).

Mobiles can only work with a network of base stations in place where people want to use their mobile phones or other wireless devices. Without base stations, the mobile phones and other devices we rely on simply won't work.

Without this upgrade to the existing radio base station, the operator's customers would experience increasing numbers of dropped calls and buffering unable to access the internet on their handheld devices. They would also not be able to access the 5G network, a demand which is increasing rapidly as customers update their handheld devices to ones that are 5G compatible, and one that Greater Manchester is embracing with its ambition to be a world leading digital city region and the 'smartest' city where early roll out 5G is encouraged to provide pervasive, affordable, resilient digital connectivity. If the 5G network is not available, then the customers would not be able to utilise these handheld devices for the purposes in which they were purchased. This is contrary to the Greater Manchester Digital Strategy which seeks to improve digital infrastructure delivery to businesses and residents. It would also be contrary to the aspirations of Central Government which aspires to everyone having access to the superfast highway network wherever they are and being a world leader in 5G.

The proposed amendments to the existing installation will help improve the area's economic prosperity, strengthen the urban economy's by supporting local businesses to start, grow, adapt and diversify. It will support a better environment for today and tomorrow by reducing the need to travel and in turn minimise carbon emissions, a key ambition of the Greater Manchester Digital Strategy, the Greater Manchester Infrastructure Framework and the Greater Manchester Local Industrial Strategy. The radio base station will support the delivery of healthcare provision and accessibility by enabling people greater access to online services, NHS appointment reminders (every missed NHS appointment costs the NHS approximately £160 source: NHS), reminders to take medicines, make appointments etc. As well as assisting hospital outpatient appointments and emergency consultations carried out remotely via video link, connected ambulances, live streaming of CCTV footage etc. It will also help with people's mental health by helping people stay in touch with friends and family with more convenient access to health, education, and services in line with the Vision of the Manchester Core Strategy and Policy SO1 of the Manchester Core Strategy.

The Councillor's Guide to Digital Connectivity notes that a survey conducted by the Confederation of British Industry found that 81% of firms said that they see more reliable mobile connectivity as essential. Studies have also shown that mobile broadband is associated with positive impacts nationally, such as higher GDP and increased employment.

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Therefore, the Government fully supports high quality communications infrastructure, even more so with the advent of 5G. The NPPF continues to strongly support telecommunications connectivity and states at paragraph 114 that local planning authorities should support the expansion of electronic communications networks. It acknowledges that advanced, high quality and reliable communications infrastructure is essential for economic growth and social well-being.

The demand for mobile data in the UK is increasing rapidly, and as households and businesses become increasingly reliant on mobile connectivity, the infrastructure must be in place to ensure supply does not become a constraint on future demand.

The proposed upgrade to the existing site in this location will fill the current gap in the latest high quality service provision and enable two operators and MVNOs who buy network space off these operators to maintain access to their handheld devices wherever they are for the purposes in which they were purchased. This is fully in line with the Government's aspirations that everyone has access to the superfast communications network, contained within the NPPF, the Greater Manchester Digital Strategy 2018-2020, the Greater Manchester Digital Strategy 2021-2026, Greater Manchester Infrastructure Framework, Greater Manchester Digital Blueprint and Greater Manchester Local Industrial Strategy.

Access to the internet in whatever medium now impacts every facet of our lives but only benefits those who can access and use it. The benefits of internet connectivity are key for both residents and businesses alike and an upgrade to the existing established radio base station in this location providing the latest, 4G and 5G technologies will support Greater Manchester's aspirations to be a world-leading digital city-region and one which promotes the growth of the digital sector, increasing digital inclusion, so all people can access services, education and training.

In line with guidance contained within the NPPF, the Council's UDP Policy DC 17.1 which supports upgrading the existing telecommunications systems serving the city, and the Greater Manchester Digital Strategy 2018-2020, the Greater Manchester Digital Strategy 2021-2026, Greater Manchester Infrastructure Framework and Greater Manchester Local Industrial Strategy an upgraded radio base station in this location will enable fast, reliable, secure internet accessibility wherever the user is located. An installation in this location would fully meet the latest operators' coverage and capacity requirements for 3G, 4G and new 5G provision. This would be wholly in line with the Government's latest aspirations to strongly support advanced, high quality and reliable communications infrastructure, essential for economic growth and social well-being. Where the NPPF notes that decisions should support the expansion of electronic communications networks. An installation outside this search area, regardless of whether there are existing sites, would not allow the operator to provide their desired level of coverage and therefore would not adequately maintain and provide new coverage and capacity.

As part of the operators' 4G licence obligations, many customers will benefit significantly from a vastly improved service provision in this locality. They will be able to gain access to the very latest technologies and connectivity, including 5G, to high speed data services. The

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importance of which is fully highlighted in the Greater Manchester Digital Strategy 2018-2020, the Greater Manchester Digital Strategy 2021-2026, Infrastructure Framework and Local Industrial Strategy. Indeed, these documents acknowledge that Digital technology has catalysed the interconnection of the global economy, with the internet enabling the free exchange of goods and services, providing consumers with greater choice and businesses with access to skills, resources and customers. An installation in this location in Piccadilly will help Greater Manchester meet its ambition of being the "Smartest City" region.

The Code of Best Practice acknowledges that upgrading and improving mobile networks will not be possible without the necessary infrastructure on which we rely. With increasing consumer demand and the Government's aspirations for high quality communications infrastructure it is ever more important to improve connectivity and capacity.

The Code of Best Practice acknowledges that there will be times when there is a need for a new radio base station, where sites have been lost, where areas have limited or no coverage and where coverage and capacity need to be enhanced. This application is one such example where there is a need to provide the latest 4G provision and provide new 5G services within this area.

In the Code of Best Practice it acknowledges 'the pressure on networks to upgrade and improve networks through changes to existing sites and the development of new sites is constant. With the increasing consumer demand and the Government's ambitious aspirations it is becoming more important to improve connectivity and capacity. This is due to the ever increasing demand for data hungry applications to be available to a range of connected devices, such as smartphones and tablet computers. However, the Code notes that upgrading and improving mobile networks will not be possible without the necessary infrastructure on which they rely'. Therefore there is a significant need to locate the equipment in this area.

The Online Nation 2020 Report highlights the importance of continued access to the latest technology on mobile devices, with 35% of the internet users only accessing the internet on mobile devices (Smartphone or tablet).

The Report goes on to note that 60% of the consumer market consider smartphones are now the most important device for internet access. In September 2019, 81% of time spent online was on a mobile device (both tablet and Smartphone). Furthermore, nearly half of all adults consider that their mobile device is the device they would miss most if it were taken away.

The Online Nation 2021 Report highlights the importance of smart phones and thus in turn connectivity. In September 2020, UK Internet users spent nearly 4 times as much time on smartphones than they did on computers. The report found that most of the time people spend on the internet is via apps on mobile devices. Social media serves as a means of entertainment and education for many, and as an important method of marketing for businesses. The report found that 91% of households used smartphones to access the internet in 2021, compared to 65% who used tablets and 47% who accessed the internet using

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computers. The Report notes that the smartphone is the most-used device for accessing the internet for all age groups apart from those aged 65 +.

The operator not only has a license requirement to provide a certain level of 2G/3G/4G coverage to the population the operators' are obliged to meet the growing consumer demand for 5G coverage, but especially as more people are also purchasing 5G enabled devices, in line with their license obligations and the operators competitive market driven "requirement" to provide a high quality service. Customers expect to be able to access their portable hand held devices wherever they are, whether that be indoors or outside. There is currently no 5G service provision that is provided by Cornerstone in this cell area. The least impact on the surrounding environment in order to fill this gap is by upgrading the existing rooftop installation at The Printworks.

It is therefore imperative that the operator continues to invest in ensuring that the latest technologies are available on its network, so that customers are able to continue to use their handheld devices wherever they are, for whatever reason, for the purposes in which they were purchased.

Economic and Social Benefits

The NPPF strongly supports sustainable development, as does the Spatial Objective SO1 and Policy SO1 of the Manchester Core Strategy, the Greater Manchester Digital Strategy 2018-2020, the Greater Manchester Digital Strategy 2021-2026, and the Greater Manchester Digital Strategy, Greater Manchester Infrastructure Framework, Greater Manchester Digital Blueprint and Greater Manchester Local Industrial Strategy. Mobile communication plays a significant role in sustainable development. Being able to access the internet via a mobile device allows people to access a wide range of central and local government services buy groceries, manage finances, apply for jobs/university, and carry out school projects, send emails, download applications, send and receive instant messages, participate in social media, streaming and downloading data to name just a few of the benefits of being able to use an internet enabled handheld device. It also allows people to work from home or on the move without needing to return to the office. Residents and businesses will enjoy better accessibility, assisting home-base working by improving the electronic means of communication and the roll-out of high-speed broadband helping to promote live-work development. This reduces travel time, carbon emissions and increases the speed in which information is processed/shared. The proposals therefore fully comply with NPPF and Policy SO1 of the Manchester Core Strategy, to minimise the effects of climate change reducing the need to travel and therefore the carbon footprint. It will support a carbon-neutral Greater Manchester and be economically, environmentally and socially sustainable in line with the Greater Manchester Infrastructure Framework.

In such instances, as described above, the NPPF supports development that improves the economic, social and environmental conditions in the area. Enhancing the 2G, 3G and 4G coverage and capacity in this area and providing new 5G services will fully meet this national policy objective. Continuing to transform the digital connectivity of the city-region to drive economic growth and innovation, working to meet national targets of full roll-out of 5G

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technology for most people by 2027. It will also comply with the ambitions of the Greater Manchester Local Industrial Strategy, Greater Manchester Digital Strategy 2018-2020, the Greater Manchester Digital Strategy 2021-2026, Greater Manchester Digital Blueprint and Greater Manchester Infrastructure Framework.

Mobile connectivity is essential to the future success of the economy. The combined value of 4G and 5G mobile connectivity is estimated to add £18.5bn to the economy by 2026 (Councils and Connectivity Sept 2018). Mobile connectivity is essential to creating a better society. Digital inclusion can help people gain employment, become more financially secure and improve health and well-being. Mobile connectivity is essential to fulfilling the potential of new technologies. Innovations such as artificial intelligence and connected cars will change how we work, spend our leisure time and run our public services. This is in full accordance with the Greater Manchester Infrastructure Framework which acknowledges the importance of 5G and states that 'as our homes businesses and cities become more reliant on digital technology to function the robustness of these systems becomes even more critical'. It will also be in line with the Greater Manchester Digital Blueprint which seeks to ensure that Greater Manchester has the digital infrastructure it needs to be a world class digital city region.

Providing the latest digital infrastructure to enable improvements in digital technology empowers and enables residents to have the highest quality of life, supports the creation of high quality jobs and achieves the maximum productivity levels. It also helps the economy to be resilient and competitive. This is in accordance with Greater Manchester Digital Strategy 2018-2020, the Greater Manchester Digital Strategy 2021-2026, Greater Manchester Digital Blueprint, Greater Manchester Infrastructure Framework and Greater Manchester Local Industrial Strategy. It will help Piccadilly become an area where its businesses, public service providers and citizens are using digital technology by default and to the fullest to grow their businesses and improve productivity to access skills, training and employment opportunities to address global challenges that have a local impact such as ill health, social isolation, and pollution; to improve living standards and well-being, helping people to lead prosperous and rewarding lives; and to improve the quality and value for money of public services.

The enclosed Cornerstone Local Authority Engagement Brochure September 2020, emphasises further the benefits of high quality mobile connectivity including: promoting economic growth by attracting investment from business, which creates jobs and regional prosperity in line with national and local economic strategies; helps local businesses to offer a broader range of services, boosting the local economy; helps local Councils to offer online services such as school admissions and local information for residents supports local companies by facilitating working from home, offers social benefits such as being able to connect with vulnerable family and friends (a life line during COVID 19 lockdown) or contact the emergency services 24/7, and helps local councils to offer online services such as paying council tax bills which provides a more efficient service to name but a few benefits.

Practical Applications of 5G Connectivity as Example of Material Soci-Economic Benefit: -

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Education:

The relationship between 5G and education is evolving at a massive rate with educators exploring the relevance of Virtual Reality (VR) technologies for education and training. Crucially, VR can support remote learning, allowing students a presence in the classroom even when working elsewhere.

5G's ability to deliver real-time information (low latency), ultra-fast speeds (critical for high definition images and video), increased capacity and heightened security will also allow learning on the job, thanks to technologies such as Augmented Reality (AR) goggles, which can give engineers real-time instructions on how to fix a machine on a production line, for example.

Health:

Patients across the country are now becoming accustomed to relying on remote healthcare services such as NHS 111, virtual GP appointments, and ordering online deliveries of essential medical supplies.

5G will prove critical in providing the infrastructure required to deliver remote health services over the next decade. By design, 5G's ability to deliver real-time information (low latency), ultra-fast speeds (critical for high definition images and video), increased capacity and heightened security are going to be fundamental in scaling the patient benefits of remote healthcare and keeping medical records secure and private. For instance, trials have shown that connecting ambulance crews to expert resources using 5G allows paramedics to work with doctors and conduct specialist procedures in real time whilst on the road.

There is a demand for mobile connectivity in areas where geography, logistics or economics – or a combination of all 3, make it difficult. Mobile network capacity needs to grow to meet the demand of mobile users, who are consuming ever increasing amounts of data.

Paragraph 38 of the NPPF states that:

'Local planning authorities should approach decisions on proposed development in a positive and creative way. They should use the full range of planning tools available, including...permission in principle, and work proactively with applicants to secure developments that will improve the economic, social and environmental conditions of the area. Decision-makers at every level should seek to approve applications for sustainable development where possible'.

Providing improved 3G and 4G coverage and capacity and new 5G service provision in this area will fully meet paragraph 38 of the NPPF, Greater Manchester Digital Strategy 2018-2020, the Greater Manchester Digital Strategy 2021-2026, Greater Manchester Infrastructure Framework, Greater Manchester Digital Blueprint and Greater Manchester Local Industrial Strategy which aspires Greater Manchester to be a world-leading digital city-region, and Manchester to be the Smartest City. These strategies and the Framework also support strengthening digital and data infrastructure (including 5G), and using data to help address challenges.

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The social and economic benefits are a significant material consideration which should be weighed against the visual impact associated with the upgrade to the existing radio base station in this location. HM Treasury outlined such benefits in its report 'Fixing the Foundations: Creating a More Prosperous Nation' – July 2015. Paragraph 7.1 of the plan stated that reliable and high quality fixed and mobile broadband connections support growth in productivity, efficiency and labour force participation across the whole economy. They enable new and more efficient business processes, access to new markets and support flexible working and working from home.

Paragraph 7.2 goes on to highlight strong support for high quality communications infrastructure. It states

'by reducing red tape and barriers to investment, the Government will support the market to deliver the internationally competitive fixed and mobile digital communications infrastructure the UK's businesses need to thrive and grow, and which will enable the UK to remain at the forefront of the digital economy. The Government is working with business so that the market can play the lead role in delivering against the ambitions set out in the Digital Communications Infrastructure Strategy, published March, of near universal 4G and ultrafast broadband coverage.'

Indeed, MPs have noted in parliament that the UK's Superfast Broadband connectivity was 'relatively poor' and businesses were losing out from patchy coverage.

The Government is determined to ensure the UK receives the coverage and connectivity it needs. To this end, the Government wants to be a world leader in 5G, the next generation of wireless connectivity, and for communities to benefit from the investments in the new technology. The Greater Manchester Digital Strategy 2018-2020, the Greater Manchester Digital Strategy 2021-2026, Greater Manchester Local Industrial Strategy, Greater Manchester Digital Blueprint and Greater Manchester Infrastructure Framework aspiration align with the Government objectives of being a world leader in 5G. The proposed installation will fully support these national and local aspirations.

This will allow everyone in the country to benefit from the economic advantages of widespread mobile coverage. As well as improved mobile signal, 5G networks are also crucial to drive productivity and growth across the sectors that local areas are focusing on through their emerging Local Industrial Strategies. Enabling and planning for 5G implementation is central to achieving the Government's objective to deliver property at the local level and enable all places to share in the proceeds of growth.

The Government is determined to ensure the UK receives the coverage and connectivity it needs. To this end, the Government wants to be a world leader in 5G, the next generation of wireless connectivity, and for communities to benefit from the investments in the new technology. The proposed installation will fully support these national aspirations.

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The case for 5G is compelling as it will bring faster, more responsive and reliable connections than ever before. More than any previous generation of mobile networks, 5G has the potential to improve the way people live, work and travel, and to deliver significant benefits to the economy and industry through the ability to connect more devices to the Internet at the same time, creating the so-called "Internet of Things". This will enable communities to manage traffic flow and control energy usage, monitor patient health remotely, and increase productivity for business and farmers, all through the real-time management of data.

The Local Government Association (LGA) has produced a Councillor's Guide to Digital Connectivity and sets out some of the benefits of 5G technology:

- Faster mobile broadband and a more consistent experience in congested areas with a very high number of devices.
- Industrial applications, enabling businesses to improve their productivity, for example through predictive maintenance and real-time analytics.
- Internet of Things (IoT) services, many of which will help council's and businesses deliver services more efficiently including:
 - o Transport and logistics: connected parcels and fleet tracking.
 - o Health and social care.
 - o Environmental monitoring: sensors monitoring air quality and water pollution in real-time.
 - o Smart agriculture and smart animal farming, smart retailing.
 - o Connected and autonomous cars: allowing cars to communicate with each other, other road users and even the road infrastructure.

Further to the Government's commitment to improve connectivity, on 24th November 2016 the new permitted development rights for telecommunication operators came into force, designed to lift the restrictions on mobile operators such is the significance and weight the Government place upon the benefits attached to modern connectivity.

A National Needs Assessment – A Vision for UK Infrastructure was also published in October 2016 ([https://www.ice.org.uk/getattachment/media-and-policy/policy/national-needs-assessment-a-vision-for-uk-infrastr/National-Needs-Assessment-PDF-\(1\).pdf.aspx](https://www.ice.org.uk/getattachment/media-and-policy/policy/national-needs-assessment-a-vision-for-uk-infrastr/National-Needs-Assessment-PDF-(1).pdf.aspx)). It sets out the infrastructure needs for the UK which includes the importance of digital technology. An extract of this assessment can be found below:

'A lack of digital connectivity has a detrimental effect on business operations, productivity and output and hence competitiveness in the global marketplace. Securing digital connectivity is thus critical to the UK's long-term prosperity. A key challenge for the digital sector is a persistent digital divide between those who have access to the latest technologies and those who do not, with resulting social and economic exclusion, particularly as dependence on e-services and digital communications increases'

The Assessment goes on to note that 'Universal digital connectivity would serve as an equaliser of economic opportunity in that it enables participation in a modern digital economy'. Therefore, this Needs Assessment further explains the consequences of a lack of

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coverage and the effects this has on social and economic prosperity. This clearly highlights the importance of maintaining and enhancing high quality 2G, 3G and 4G coverage and capacity in this area as well as providing new 5G in this area, where the social and economic benefits will outweigh the environmental considerations.

The Government's continued strong support for connectivity is further evidenced by the DCMS who launched their UK wide Digital Connectivity Portal on 20 December 2018. The Digital connectivity portal provides guidance for local authorities and network providers on improving connectivity in local areas. The Government wants everyone in the UK to benefit from world-class connectivity no matter where they live, work or travel. The Future Telecommunications Infrastructure Review outlines a package of measures to create the right market and policy conditions to deliver world-class connectivity for citizens and businesses. As a result, the pressure install a radio base in Piccadilly to provide 2G, 3G, 4G and 5G is significant.

On the 23 September 2020, the former Digital Infrastructure Minister Matt Warman MP spoke about the ongoing work by the Government and telecoms industry to boost the UK's world class digital connectivity in his keynote speech at Connected Britain 2020:

...'I'd like to take this opportunity to thank everyone in the industry for their tireless efforts at keeping us all connected through an unprecedented period of disruption.

...COVID has altered the way we live, work and most importantly, stay connected with our family and friends. The digital infrastructure that keeps us all connected was essential to our daily way of life under lockdown – and is now more important than ever as we head into recovery. Many of these changes – such as increased working from home – will stay with us for the foreseeable future.

People have referred to the internet as “the fourth utility” – and it's true. For countless people across the country, having fast and reliable broadband and a good mobile connection is as essential and vital to our daily lives as gas, water and electricity.

That's why I'm committed to working with you to ensure the entire nation has access to world-class, next generation gigabit connectivity that is secure and resilient enough to deal with all sorts of future challenges.

This Government is ambitious for the UK's digital infrastructure.

And because we know that more citizens are increasingly living their lives online, we will be one of the earliest adopters of 5G coverage, with the majority of the population able to access 5G by 2027.

...We know how important local authorities are to the delivery of digital infrastructure, which is why I have written to them, together with the Local Government Minister, to outline how they can work more effectively with the industry...

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...Turning to 5G, while the commercial rollout of 5G continues at pace, we're pushing ahead with plans to make sure all sorts of industries benefit from this game-changing technology.

...since the start of the 5G Testbeds and trials programme, we've now funded 24 5G testbeds across the UK. Between them, those testbeds have trialled almost 70 different 5G technologies, products and applications. And more importantly than ever, we are investing in a range of sectors to foster, build and grow 5G cross wider industry...

...The world is in the middle of a digital revolution. COVID has accelerated this process, digitising almost every part of our everyday lives and making the infrastructure that connects us more important than ever. That's why it is at the top of the government's agenda...

This Keynote Speech by Matt Warman MP highlights the importance that Government places on 5G and advanced, reliable, high quality 5G technology. To prevent this technology from being brought into the area would be contrary to the Government's key aims.

In a more recent letter published by the former Digital Infrastructure Minister Matt Warman MP on the 24 May 2021 addressed to the local authority chief executives he spoke further about the Government's Commitment to extending mobile coverage:

'Digital connectivity is – now, more than ever – vital to enable people to stay connected and businesses to grow. The demand for mobile data is increasing rapidly, and the COVID-19 pandemic has highlighted how important it is that we all have access to reliable, high quality mobile connectivity...

...The Government is committed to extending mobile network coverage across the UK and providing uninterrupted mobile signal on all major roads, and our ambition is for the majority of the population to have access to a 5G signal by 2027...

...The National Planning Policy Framework ("the Framework") for England states that planning policies and decisions should support the expansion of electronic communications networks, including next generation mobile technology, such as 5G...

...In relation to electronic communications development, it also states that local planning authorities must determine applications on planning grounds only and they should not seek to prevent competition between different operators, or question the need for an electronic communications system. As set out in planning practice guidance, it is in the public interest for local planning authorities to have effective delegation arrangements in place to ensure that decisions on planning applications that raise no significant planning issues are made quickly and that resources are appropriately concentrated on the applications of greatest significance to the local area'

On the 1 October 2020, as part of the Speed up Britain Campaign, The Centre of Policy Studies Report published 'Upwardly Mobile: How the UK can gain the full benefits of the 5G revolution'. The report identifies what the 5G opportunities are and what the Government needs to do so we can all benefit from this vital new technology. It states that delays to the

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rollout of 5G could cost the country tens of billions of pounds in lost economic output. The former Government advisers Alex Jackman and Nick King argue that Government's 'levelling up' agenda and the UK's recovery from the COVID-19 pandemic is at risk without a faster 5G rollout – to the tune of £41 billion.

The report highlights that if delays continue at their current rate, by 2027, over 11 million households and businesses could be missing out on vital digital connectivity. Improving digital infrastructure supports the Government's 'levelling up' agenda, by helping local areas to retain and attract businesses and talent as well as by reducing regional inequalities.

The report states that 'the UK must have a functioning network to now support the recovery from the pandemic, empowering businesses and communities with wider coverage, and preparing the ground for the services that 5G can provide'.

Using analysis by the independent consultancy Policy Points, the report estimates that if 5G coverage reaches a quarter more of the population than the Government's current target of 51%, it will produce GDP gains of £41.7 billion by 2027. It highlights that the difference between the UK being a leader and a laggard in 5G adoption could be as much as £173 billion in incremental GDP over the coming decade, as estimated by the Future Communications Challenge Group.

The manufacturing, construction and agricultural sectors have been hit particularly hard by the pandemic, and these would benefit significantly from improved connectivity. However, onerous planning rules and loopholes in existing legislation are slowing down the infrastructure upgrades needed to make the most of this mobile revolution in these much-needed industries.

Digital networks and services have underpinned our resilience to the COVID-19 pandemic and they will drive our recovery. By expanding them, we deliver not only immediate benefits but also the essential foundation stone for future prosperity.

The report highlights that while 5G promises to create economic benefits through increased capacity, reliability and speed – vastly improving business productivity and removing barriers imposed by poor digital connectivity – the system is plagued by red tape.

The report acknowledges that the gains are not just at national level. A more extensive digital infrastructure helps local areas to attract and retain businesses and talent, thereby playing a vital role in reducing regional inequalities. Providing a supportive environment for digital infrastructure is one of the few things the Government can do that costs little, boosts growth and helps level up the UK....the key is speed. **The faster a network is built, the bigger the regional gains** (emphasis added). The telecommunications industry faces challenges on this front. The COVID-19 pandemic has increased demand on networks but delayed the availability of new spectrum to provide additional capacity.

The report notes that the reliability and reach of 4G is more important than ever. It is needed both to quench immediate demand, and also to facilitate future 5G rollout, as the underlying

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passive infrastructure will initially support both technologies. Every failure to provide better coverage not only presents an immediate opportunity loss for local business and consumers but also has a bigger downstream economic impact. It acknowledges that productivity gains to business, equality gains for regions and economic gains for the country are only as achievable as the networks they can access.

The report recommended that the Government should reform the strategic planning framework to compel local authorities to ensure that the needs of future mobile connectivity are adequately addressed in Local Plans and that new developments are assessed on how they might impact, or could support, local connectivity.

In April 2021 the DCMS issued a further round of consultation on the 'proposed changes to permitted development rights for electronic communications infrastructure: technical consultation'. The continuing support for high quality 5G service provision continues to be emphasised:

'Now, more than ever, people need access to dependable and consistent mobile coverage where they live, work and travel. The coronavirus pandemic has highlighted the importance of digital connectivity and ensuring that networks have sufficient capacity and resilience to meet demand. Increased connectivity will also be key to our recovery. As the UK seeks to build back better, our changes to the planning system will help to extend and improve mobile coverage, including in rural areas, to benefit communities and businesses.'

The government is committed to extending mobile geographical coverage across the UK and providing uninterrupted mobile signal on all major roads, and to be a global leader in 5G... The government is investing £200 million in a programme of 5G testbeds and trials to encourage investment in 5G so that communities and businesses can benefit from this new technology. Our ambition is for the majority of the population to have access to a 5G signal by 2027. The increased connectivity and capacity offered by 5G is opening-up the potential for new, innovative services for individuals and industry...

It is also essential that the planning system can effectively support the delivery of the mobile infrastructure that we need'...

The government response set out that, subject to a technical consultation on the detail of the proposals, including the appropriate environmental protections and other safeguards, we would take forward changes to:

- *Enable the deployment of radio equipment housing on land without the need for prior approval, up to specified limits and excluding sites of special scientific interest, to support 5G deployment;*
- *Strengthen existing masts up to specified limits to enable sites to be upgraded for 5G and for mast sharing without the need for prior approval;*

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- *Enable the deployment of building-based masts nearer to highways to support deployment of 5G and extend mobile coverage, subject to prior approval and specified limits; and,*
- *Enable higher new masts to deliver better mobile coverage and mast sharing, subject to prior approval and specified limits".*

The proposed installation in this location will allow the operator to provide new and improved high quality 2G, 3G and 4G coverage and capacity and new 5G service provision supporting the Government's aim of 'focusing on ensuring that everyone is connected to the information superhighway' and help to meet its target that the majority of the population will have access to a 5G signal by 2027. This fully meets the aspirations of the NPPF, the aims of Greater Manchester Digital Strategy 2018-2020, the Greater Manchester Digital Strategy 2021-2026, Greater Manchester Local Industrial Strategy, Greater Manchester Digital Blueprint and the Greater Manchester Infrastructure Framework.

A radio base station in this location will ensure that the expansion of the electronic communications network is facilitated and that high quality communications infrastructure is provided to the immediate area. This is in full accordance with the operator's 5G license obligations and the Council's aims and aspirations to expand and improve digital infrastructure as required and to have the latest high quality 5G infrastructure, promoting and growing the digital sector and increasing digital inclusion.

Summary

The proposed amendments to the existing scheme will enhance the customer experience for Cornerstone to ensure that both operators' customers are able to continue to utilise their handheld devices for the purposes in which they were purchased. Customers will also be able to utilise their 5G compatible handheld devices as demand for this latest technology increases.

On balance, the amendments to the existing radio base station will preserve the character and appearance of the Shudehill Conservation Area. 6 no. existing antennas are to be removed from prominent locations on the rooftop of the Printworks and replaced with 12 no. new antennas which will be located in less obvious positions. They will be set against the backdrop of the host building and will not protrude above the top of the roof. The antennas will be similar in appearance and design to the existing antennas. Given the building mass of The Printworks and the surrounding buildings, the new antennas will not be overly visible from any vantage points. These amendments will provide enhanced 3G and 4G coverage and capacity to the surrounding area and new 5G coverage. Thus providing a high quality service to its customers and access to the latest technologies whenever and wherever they are. Any limited harm will be outweighed by the benefits associated with providing and maintaining the latest high quality communications in line with NPPF and the Governments strong commitment to a world leader in 5G. If the challenge is to be met to provide pervasive, affordable, resilient digital connectivity, the challenge is early roll out of 5G especially in areas where mobile data use is congested such as here in the regional centre.

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The new and replacement antennas need to be slightly bigger so they are able to reach the target coverage area, to maintain and provide new high quality 3G, 4G and 5G service provision to this part of Piccadilly. This will fully meet the national Governments aim of 'ensuring that everyone is connected to the information superhighway', that the majority of the population have access to a 5G signal by 2027 and the national policies set out in the NPPF. If the size of the antennas were to remain the same then they would not be able to operate effectively, leading to a degraded service for the operator's customers especially for the higher frequency technologies including the latest 4G technology and new 5G service provision which have lower antenna propagation.

Site selection was progressed in accordance with the applicants licence obligations, advice in NNPF and the Code of Best Practice and represents the least environmentally intrusive, technically suitable, available option.

The social and economic benefits of providing reliable and high quality mobile broadband connections including 5G supports growth in productivity, efficiency and labour force participation across the whole economy. This is fully supported by the NPPF, the relevant Trafford Core Strategy policies, Greater Manchester Digital Strategy 2018-2020, the Greater Manchester Digital Strategy 2021-2026, Greater Manchester Digital Blueprint, Greater Manchester Infrastructure Framework and Greater Manchester Local Industrial Strategy. These benefits are strong material considerations which outweigh any perceived loss of visual amenity to the surrounding area.

Confirmation that submitted drawings have been checked for accuracy

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