

# Transforming health & social care

Benefits from 5G, sensors & data

9<sup>th</sup> March 2022

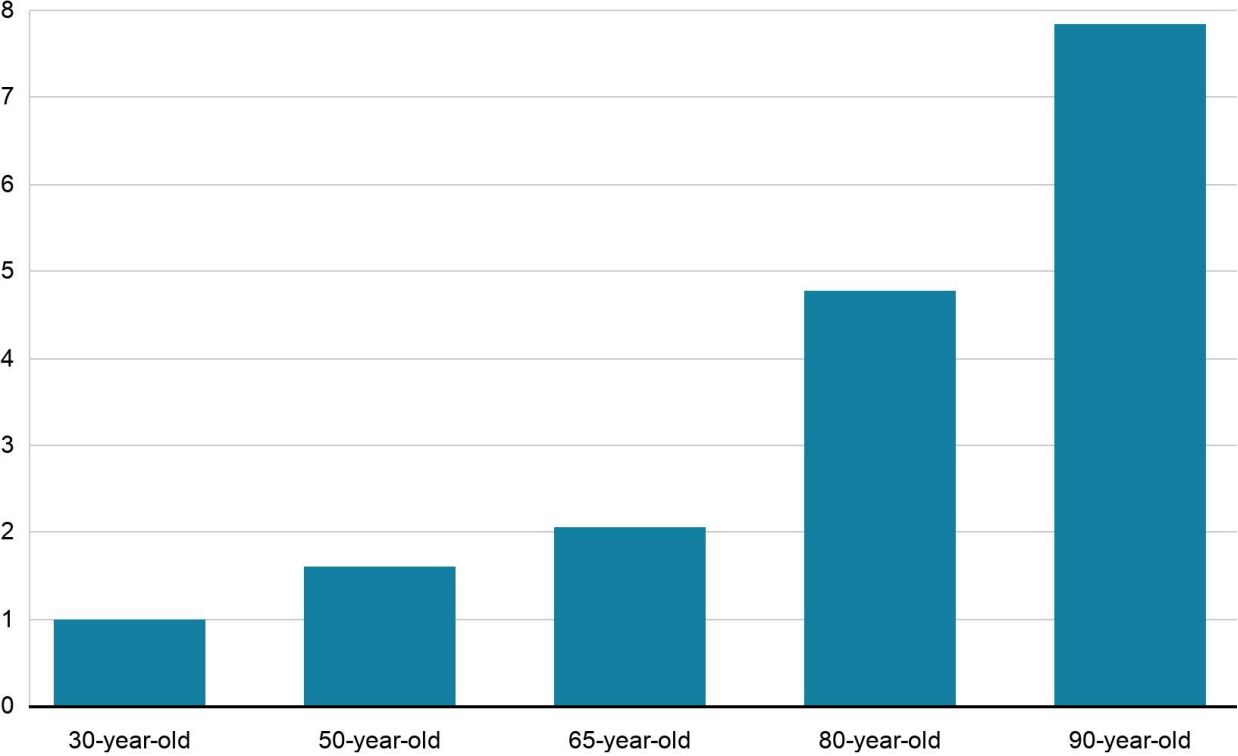


# The structural challenges facing healthcare are well known

## Ageing population with increasingly complex needs

Relative cost of treating a 90-year-old compared to a 30-year-old

Relative cost in £



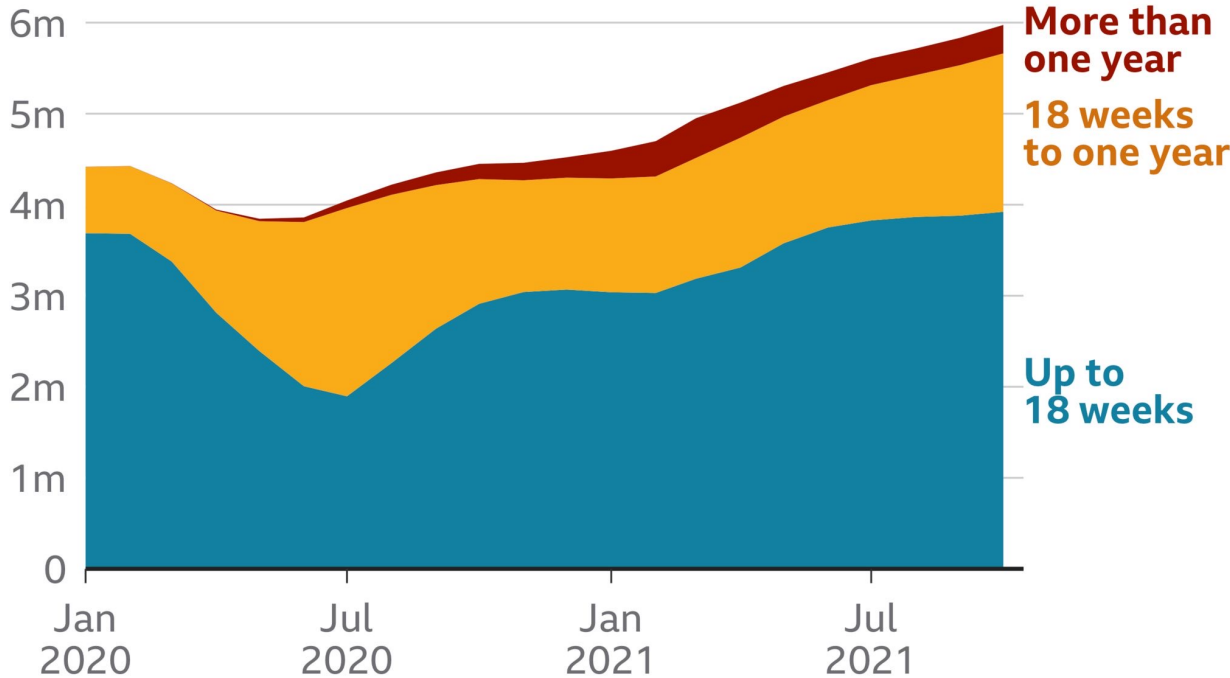
Source: Institute for Fiscal Studies



- + Slower investment growth
- + Staff shortages
- + Delays to capital projects
- + Social care pressures

# The pandemic has significantly increased pressures and also reinforced the necessity for innovation

## The number of people waiting to start treatment in England is at a record high

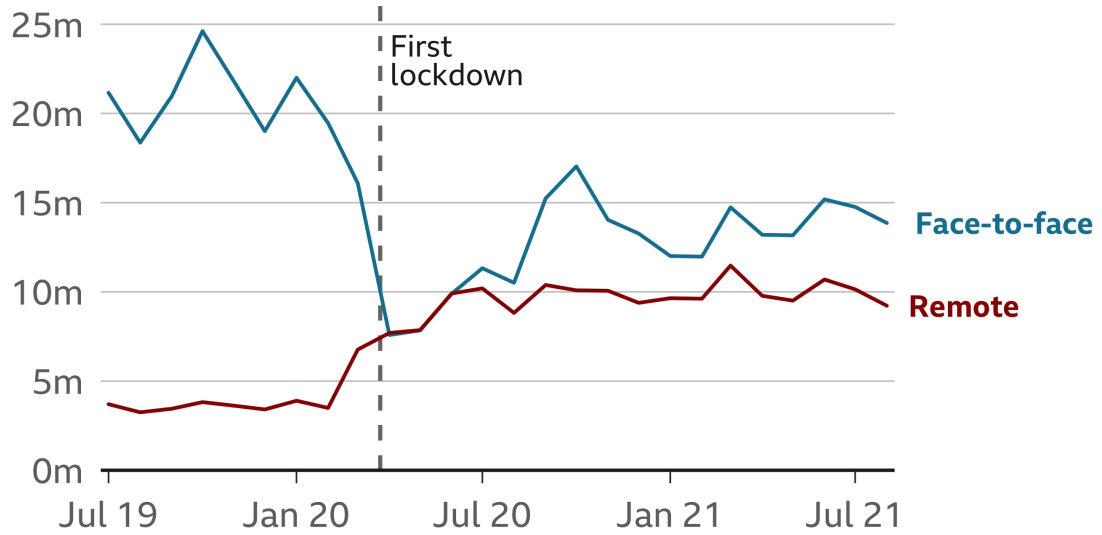


Source: NHS England, latest data for October 2021



## How GP appointment types have changed

Number of face-to-face and remote appointments as recorded by GP practices in England each month



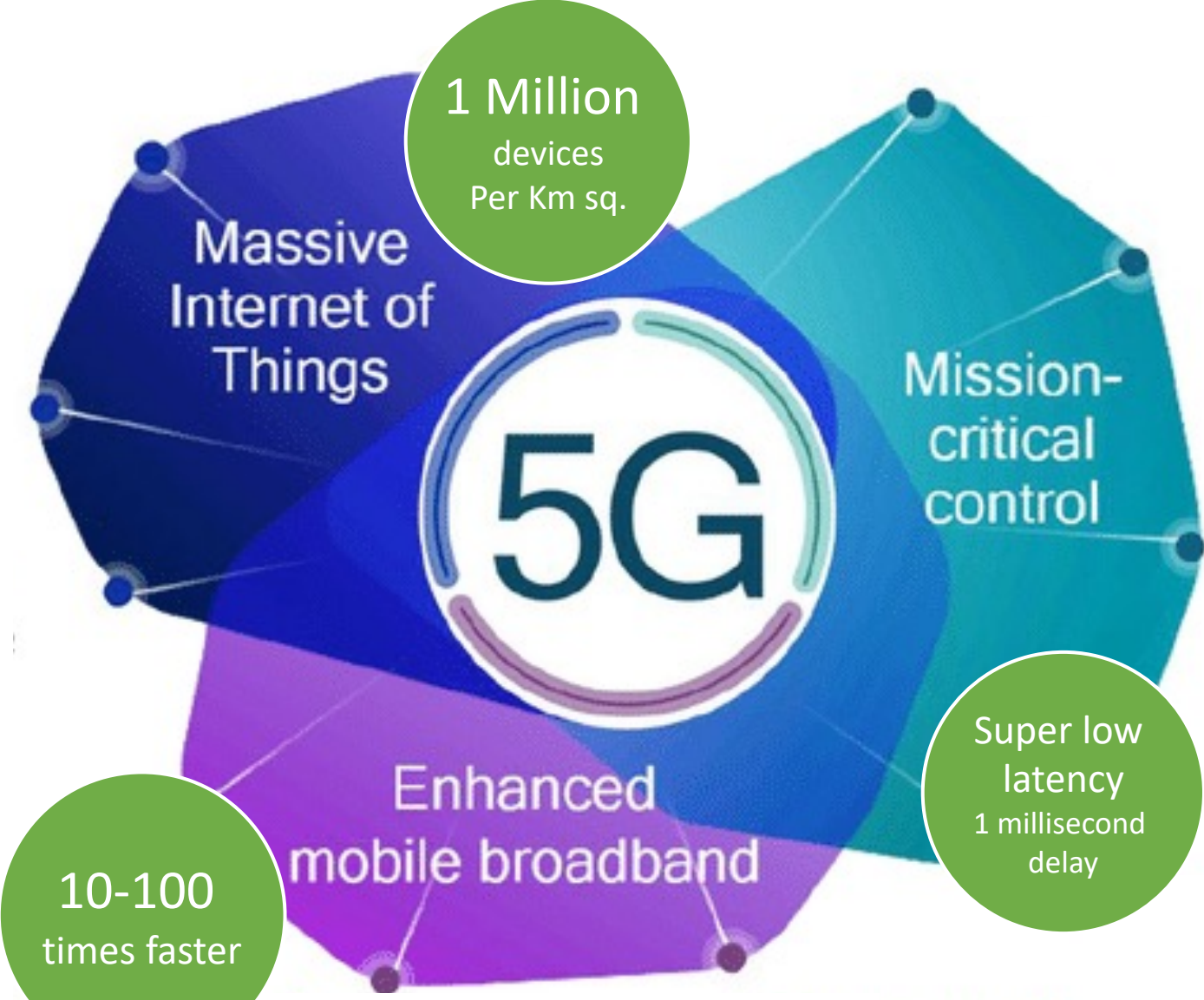
"Face-to-face" includes home visits, "remote" is made up of telephone and video/online appointments. Up to 5% of appointments are recorded as "unknown".

Source: NHS Digital

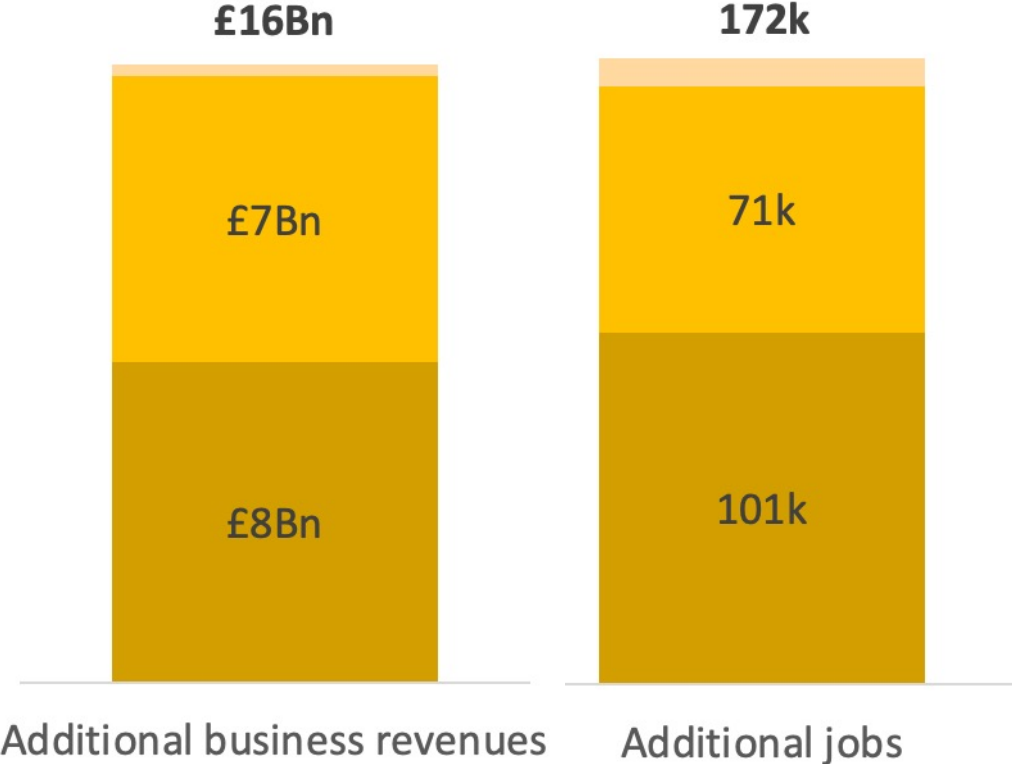




# 5G is the next generation of mobile technology



## Forecast UK 5G benefits by 2025



Source: Barclays 2019

# ...but the benefits of 5G won't happen automatically

**Network rollout is too slow + expensive**



**Innovation is needed to apply 5G to solve real-world challenges**





Press release

# West Midlands to become UK's first large-scale 5G testbed

Birmingham, Coventry and Wolverhampton to become 5G hubs after winning national competition

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Published 4 September 2018

From: [Department for Digital, Culture, Media & Sport](#) and [Margot James MP](#)

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# WM5G is focussed on two strategic objectives

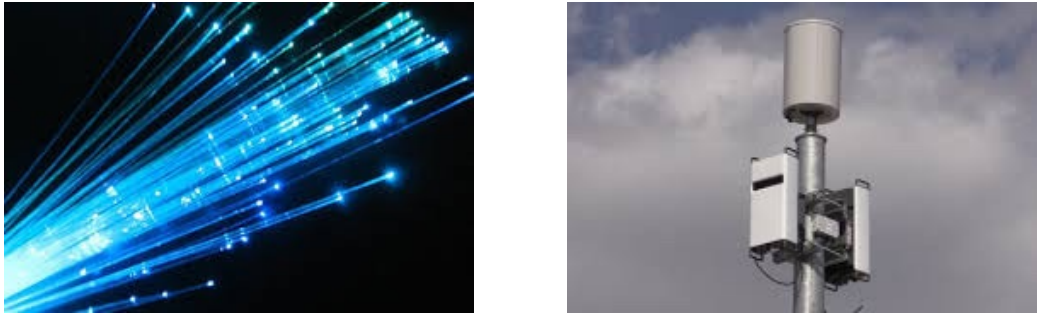


## Benefits

**2**  
Test, prove and scale new 5G services



**1**  
Accelerate 5G & fibre networks



UK's most connected region





# We're proving how 5G can improve patient care

## 1<sup>st</sup> remote ultrasound scans



## Full remote ward rounds



## Early bowel cancer diagnosis







# And working with NHS Digital to extend nationally

## National wireless strategy



## Tower block monitoring



## Connectivity guidelines



**Thank you**

