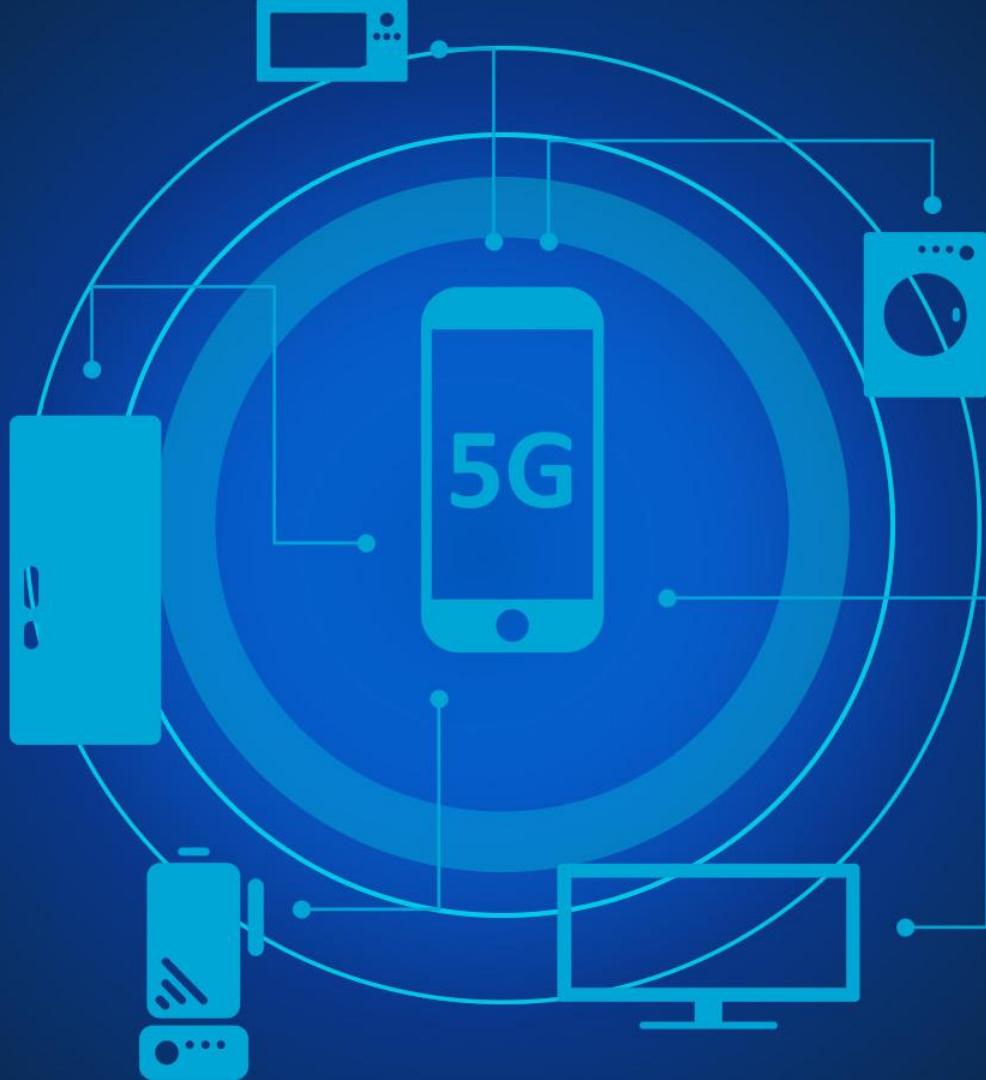




Welcomes

---





**SAFE**  
**Business Forum**  
**5G Development**  
Adam Morris  
Direct Line Communications



# Today's Agenda

## ***All you need to know about 5<sup>th</sup> generation mobile networks in SAFE area***

- Differences between 4G and 5G
- Internet of Things-hooking things up!
- Why 5G is business critical



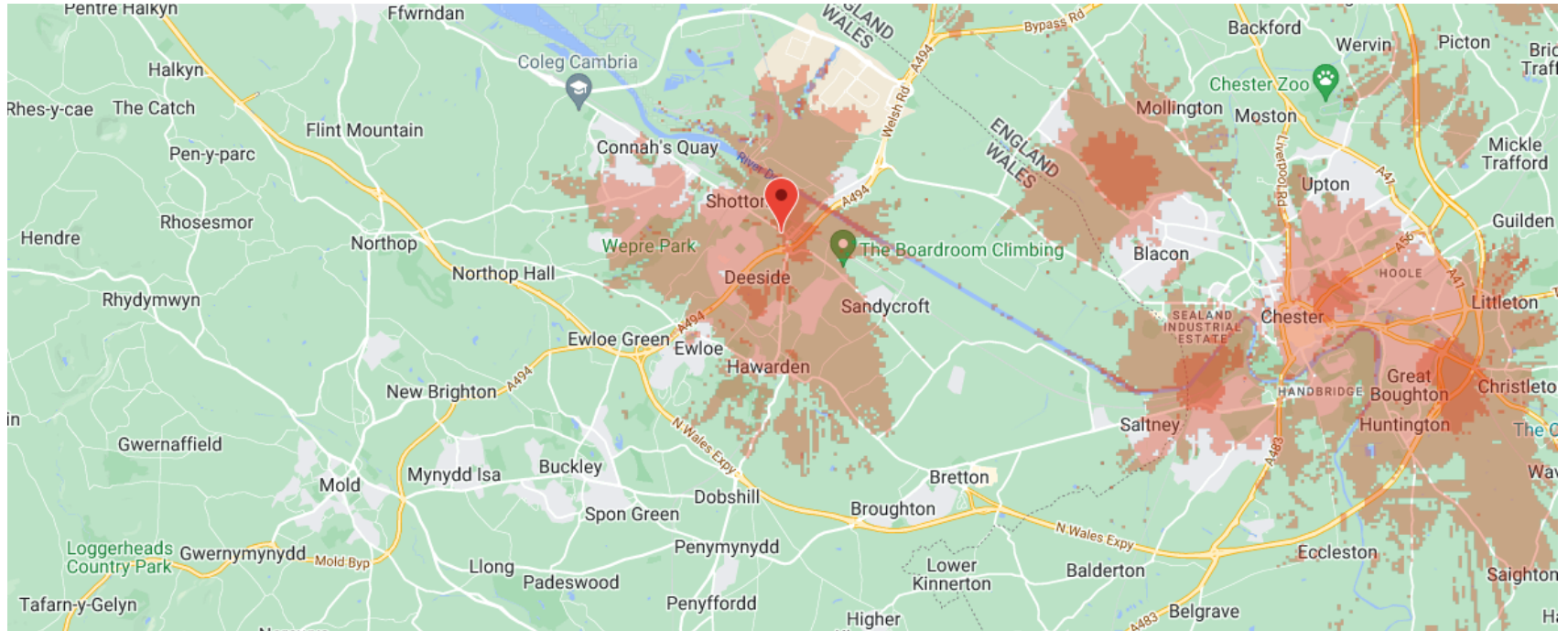
## All You Need to Know About 5th Generation Mobile Networks in SAFE Area

- 5G Coverage Checker – Compare coverage on all UK networks
- Significant investment through network partners.
- Three showing significant development at present
- Three's 5G service is now available at more than 400 locations and 3,000 sites, with coverage expanding £3 billion investment programme that is also upgrading its existing 4G infrastructure.

EE also has development

5G

# 5G Coverage Area





# Differences between 4G and 5G

The advances 5G will bring (compared to 4G) :

- 1. Faster data throughput – expect to get between 10x and 20x faster speeds than 4G.
- 2. Greater device density – a million devices can connect to 5G per square kilometre, 10x the equivalent density for 4G.
- 3. Low latency – a figure of 1-2 milliseconds is as close to real-time communications as you can get compared to the 4G latency of 20-30 milliseconds.



## Internet of Things-hooking Things Up!

- Specialist 5G mobile hardware
- Specialist 5G routers – replace traditional broadband
- 5G secure backups – perfect for sites with limited broadband speed/bandwidth
- 5G disaster recovery – ethernet/broadband







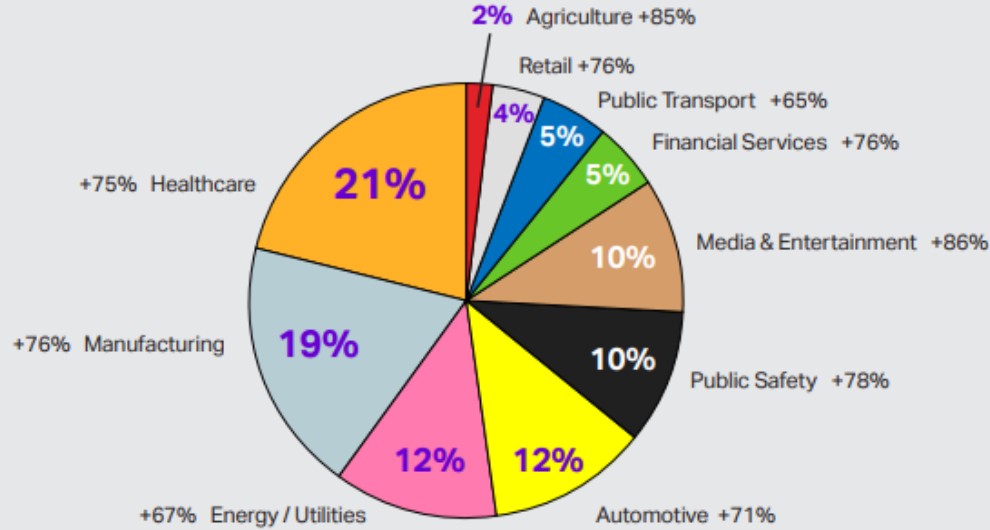
# Why 5G is Business Critical

- The flexibility of 5G can be seen through mobile handsets and mobile business broadband.
- Business growth expectations from those that are planning for 5G are wide:
- Enhanced opportunities for international trade  
Expanded geographical reach to facilitate more communication with customers.
- A third expect to increase business efficiency and reduce business costs –

***factors that could be considered business pre-requisites***

# 5G Key Verticals

## How will 5G boost business verticals?



Global view of verticals through to 2030. Source: Ericsson, 5G For Business; A 2030 Market Compass

Any Questions?

