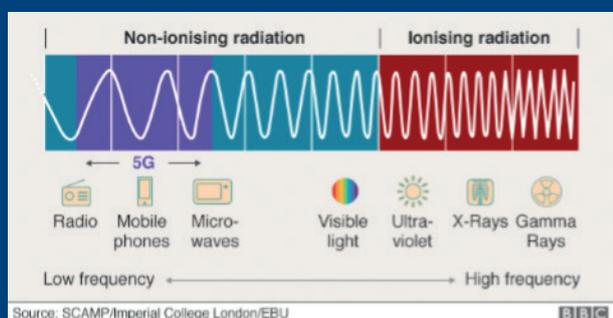


Fact Check: 5G

5G – the latest wireless network technology

5G is the latest generation of wireless network technology. Like previous wireless technologies, 5G relies on radio frequencies. In 5G these are of higher frequency than 4G, however, 5G waves are still of much lower frequency than visible light, and significantly below the frequencies for ionising radiation which are known to pose a risk to health.



Fact Check: 5G

The benefit to the community

Working alongside existing 3G and 4G technology, 5G networks will provide the infrastructure needed to carry greater amounts of data to enable a smarter, more connected society. 5G makes things faster, more responsive and offers an increased capacity for mobile and other devices.

For example, it offers:

- Tourism businesses - augmented reality, mobile virtual reality and much higher quality video.
- Mental health and wellbeing - the opportunity to video call your GP and hospital appointments
- Environmental Monitoring – develop real time or near real time vital data to track flooding and bridge infrastructure
- Emergency Services - supporting emergency preparedness

5G safety

Studies from organisations including Public Health England, the World Health Organisation and the UK Health Protection Agency have shown that 5G isn't harmful to health.

According to Public Health England 'Independent expert groups in the UK and at international level have examined the accumulated body of research evidence. Their conclusions support the view that health effects are unlikely to occur if exposures are below international guideline levels'.

The wavelength 5G operates at is non-ionising radiation. That means it doesn't produce enough energy to damage cells in your body.

For more information, visit

<https://www.gov.uk/government/publications/5g-technologies-radio-waves-and-health/5g-technologies-radio-waves-and-health>

<https://www.gov.uk/government/publications/mobile-phone-base-stations-radio-waves-and-health>

<https://www.gov.uk/government/publications/radiofrequency-electromagnetic-fields-health-effects>

<https://www.theiet.org/impact-society/factfiles/engineering-safety-factfiles/allaying-health-concerns-regarding-5g-and-exposure-to-radio-waves/>

About us

The project is a Department for Digital, Culture, Media and Sport 5G testbed and trials project. We are exploring the extent that mobile access can connect people and improve lives. The project is set to last until March 2022 and whilst it is working the County Council will be working to assess if and how connectivity can continue past the end date.

Our consortium is made up of several organisations: Quickline Communications Ltd – the lead partner; North Yorkshire County Council; the Universities of York and Lancaster; Cybermoor; Safenetics; Flo-culture; and Wireless Coverage.

For more information and to become involved with the project, visit www.mobileaccessnorthyorkshire.co.uk