



GIG
CYMRU
NHS
WALES

Iechyd Cyhoeddus
Cymru
Public Health
Wales

Freedom of Information request to Public Health Wales

FOI Reference:	FOI 275
Date request received	15 November 2019
Date information is due to be sent	N/A

Information Requested:

Dear Public Health Wales,

This is a Freedom of Information Request.

1. Do you have a 5G strategy?

1.1 If yes, I request to see the complete strategy, its ambitions and its objectives in PPTX, Word, PDF or picture format.

1.2 If yes, has the public had the opportunity to read and understand your 5G strategy? Where was this information published?

1.3 I also request a supplementary document that includes the highest level of detail on all 5G technology that's planned to be used and current in use in public spaces within your area:

(a) Companies and entities involved and the names of the company/entity officers.

(b) Specification sheets of all 5G technology.

(c) What technology e.g. units and arrays are not currently 5G, but can be 5G enabled e.g. with current software, future software, hardware upgrades or retrofitting?

(d) What UK, EU and International safety standards are you complying with for the 5G strategy and existing 5G technology.

(e) I request proof e.g. a certificate from you that confirms that UK, EU and International safety standards for workers and the public have been met.

1.4 If no, I request all documentation, memos, emails and communication on companies and entities you're in talks with regarding the formulation of a 5G strategy.

2. I request the name/s of the Officer/s in charge of the 5G strategy and roll out including their CV and qualifications in 5G and Smart Cities; and who their subject area expert or consultancy is, their CV and qualifications on 5G and Smart Cities.

3. Are you in talks with any experts, companies or entities about autonomous vehicles (AV) for public transport and/or private use on Public Highways?

3.1 If yes, I request to see the complete strategy, its ambitions and its objectives in PPTX, Word, PDF or picture format.

3.2 I also request a supplementary document that includes all levels of detail on:

(a) Companies and entities involved and the names of the company/entity officers?

(b) Specification sheets of all technology.

(c) What type of communication system will you be utilising to control the vehicles?

(d) What UK, EU and International safety standards does your AV strategy and rollout comply with?

(e) I request proof e.g. a certificate from you that confirms that UK, EU and International safety standards for workers and the public have been met.

3.3 If no, I request all documentation, memos, emails and communication on companies and entities you're in talks with regarding the formulations of an autonomous public and private vehicle technology strategy.

4. Do you have a strategy for smart roads and smart signage on Public Highways and Public spaces?

4.1 If yes, I request to see the complete strategy, its ambitions and its objectives in PPTX, Word, PDF or picture format.

4.2 I also request a supplementary document that includes all levels of detail on:

(a) Companies and entities involved and the names of the company/entity officers?

(b) Specification sheets of all technology.

(c) What technology e.g. units and arrays will not be 5G, but can be 5G enabled e.g. with current software, future software, hardware upgrades or retrofitting etc (you must be specific on anything here)?

(d) What UK, EU and International safety standards does your 5G strategy and rollout comply with?

(e) I request proof e.g. a certificate from you that confirms that UK, EU and International safety standards for workers and the public have been met.

4.3 If no, I request all documentation, memos, emails and communication on companies and entities you're in talks with regarding smart roads and smart signage.

5. Are you planning to rollout or have rolled out LED street lighting?

5.1 If yes, please answer these questions:

- (a) What is the CMS and specification of the software and hardware of the LED street light system?
- (b) What type of waveform is the LED? e.g. Square wave?
- (c) Can you control the Pulse Width Modulation (PWM) of the streetlight system using the CMS?
- (d) Can you control the PWM of each streetlight that's connected to the system?
- (e) What restrictions do you have in place for the control of the PWM?
- (f) What is the UK, EU and International safety limit (low and high) for the amount of 'flicker' (Hz) the Human Body and eyes can be exposed to and for how long?
- (g) I request to see the training manual and safety operation manual for the CMS and the LED streetlight system.
- (h) Who is the company who is or has installed the CMS LED streetlight system?
- (i) What company maintains and repairs the CMS and LED streetlight system?
- (j) What entity and Officer is responsible for the safety standards for the CMS and LED streetlight system?
- (k) I request proof e.g. a certificate from you that confirms that UK, EU and International safety standards for workers and the public have been met.
- (l) What is the amount of Blue Light leakage that's safe for the public and workers during the LED streetlights operation?
- (m) What level of LED streetlight exposure is safe for the public at daytime and night time?
- (n) Is there a legal requirement for diffusers to be fitted to LED streetlights?
- (o) How have you have addressed the amount of Oxidative Stress on Human and Animal cells that's produced from LED?

5.2 If no, then I request a declaration from you that you will not be installing LED streetlights in the future. If you cannot provide a declaration, I would like the following answered in the future tense:

- (a) What is the CMS and specification of the software and hardware of the LED street light system?
- (b) What type of waveform is the LED? e.g. Square wave?
- (c) Can you control the Pulse Width Modulation (PWM) of the streetlight system using the CMS?
- (d) Can you control the PWM of each streetlight that's connected to the system?
- (e) What restrictions do you have in place for the control of the PWM?

(f) What is the UK, EU and International safety limit (low and high) for the amount of 'flicker' (Hz) the Human Body and eyes can be exposed to and for how long?

(g) I request to see the training manual and safety operation manual for the CMS and the LED streetlight system.

(h) Who is the company who is or has installed the CMS LED streetlight system?

(i) What company maintains and repairs the CMS and LED streetlight system?

(j) What entity and Officer is responsible for the safety standards for the CMS and LED streetlight system?

(k) I request proof e.g. a certificate from you that confirms that UK, EU and International safety standards for workers and the public have been met.

(l) What is the amount of Blue Light leakage that's safe for the public and workers during the LED streetlights operation?

(m) What level of LED streetlight exposure is safe for the public at daytime and night time?

(n) Is there a legal requirement for diffusers to be fitted to LED streetlights?

(o) How have you have addressed the amount of Oxidative Stress on Human and Animal cells that's produced from LED?

6. Where do you have 3G and 4G systems in public spaces and public roads and what are the makes and models?

Information provided for the answer:

Thank you for your recent request. Public Health Wales does not hold any of the information requested. We do not have any plans or strategies concerning 5G or street lights.

If you are unhappy with the service you have received in relation to your request and wish to make a complaint or request a review of the decision, you should write to the Corporate Complaints Manager, Public Health Wales NHS Trust, 3, Number 2, Capital Quarter, Tyndall Street, Cardiff, CF10 4BZ.

If you are not content with the outcome of your complaint or review, you may apply directly to the Information Commissioner for a decision. Generally, the ICO cannot make a decision unless you have exhausted the complaints procedure provided by the Trust. The Information Commissioner can be contacted at:

Information Commissioner for Wales

2nd Floor
Churchill House
Churchill Way
Cardiff
CF10 2HH

Telephone: 029 2067 8400

Email: wales@ico.org.uk