

Our Ref: FOI/19/02581

Ms Christine Hearn/Cullen

By email: [request-623579-ffaecd2d@whatdotheyknow.com](mailto:request-623579-ffaecd2d@whatdotheyknow.com)

12 December 2019

Dear Ms Hearn/Cullen

### **Freedom of Information request**

Thank you for your request dated 26 November 2019 under the Freedom of Information (Scotland) Act 2002 (FOISA).

#### Your request

You requested the following information:

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 [Council's] 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 [Council]:
    - (a) Companies and entities involved and the names of the company/entity officers.
    - (b) Specification sheets of 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 is [Council] complying with for the 5G strategy and existing 5G technology.
    - (e) I request proof e.g. a certificate from [Council] that confirms that UK, EU and International safety standards for workers and the public have been met.
  - 1.4 If no, I request to know when you will be chairing a 5G strategy?
2. I request the name/s of the Officer/s in charge of the 5G strategy and roll out for 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 [Council] 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 [Council] that confirms that UK, EU and International safety standards for workers and the public have been met.
- 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 [Council] that confirms that UK, EU and International safety standards for workers and the public have been met.
- 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 [Council] 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 [Council] 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 [Council] 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?

### Response to your request

While our aim is to provide information whenever possible, in this instance Education Scotland does not have the information you have requested. This is a formal notification that we do not hold the requested information under section 17 of FOISA.

### Your right to request a review

If you are unhappy with this response to your Freedom of Information request, you may ask us to carry out an internal review of the response by writing to our Chief Inspector of Education and Chief Executive, Gayle Gorman, at [ps/educationscotland@educationscotland.gov.scot](mailto:ps/educationscotland@educationscotland.gov.scot)

Your review request should explain why you are dissatisfied with this response, and should be made within 40 working days from the date when you received this letter. We will complete the review and tell you the result, within 20 working days from the date when we receive your review request.

If you are not satisfied with the result of the review, you then have the right to appeal to the Scottish Information Commissioner. More detailed information on your rights is available on the Commissioner's website at:

<http://www.itspublicknowledge.info/YourRights/Unhappywiththeresponse/AppealingtoCommissioner.aspx>.

Yours sincerely

A Boland  
Corporate Business Manager  
Education Scotland