

## Salomeh Kheyri Rad

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**From:** Foi Enquiries  
**Sent:** 08 July 2019 09:20  
**To:** [REDACTED]  
**Subject:** FOI-19-0795 - 5G Strategy  
**Attachments:** V3 - Further Information - Right to Review & Appeal.pdf

Dear [REDACTED]

Thank you for your information request of 10 June 2019. Aberdeen City Council (ACC) has completed the necessary search for the information requested. Our response is now detailed below.

**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?**

No, ACC does not have a 5G strategy at present, we are waiting for the Scottish Government's 5G strategy to be published first.

**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.**

Richard Sweetnam, Chief Officer for City Growth is responsible for Smart Cities.

ACC is unable to provide you with information on , **their CV and qualifications** as it is exempt from disclosure. In order to comply with its obligations under the terms of Section 16 of the FOISA, ACC hereby gives notice that we are refusing your request under the terms of Section 38(1)(b) in conjunction with Section 38(2)(A)(a) – Personal Information - of the FOISA.

In making this decision ACC considered the following points:

ACC is of the opinion that Section 38(1)(b) applies to the information specified above as the information in question is personal information relating to living individuals, of which the applicant is not the data subject.

ACC is of the opinion that Section 38(2A)(a) applies, as we consider that disclosure of this information would be a breach of the 'lawfulness, fairness and transparency' principle. As releasing these details would enable other people to identify these individuals. These individuals have not consented to the disclosure of their information, and ACC

does not consider that they would expect ACC to release this information about them into the public domain under the FOISA.

**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 meet.**

No, ACC is not in talks with any experts, companies or entities about autonomous vehicles for public transport and/or private use on public highways.

**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 meet.**

No, ACC does not have a strategy for smart roads and smart signage on public highways and public spaces.

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

**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?**

LED lanterns are being rolled out across the city. LED lanterns don't necessarily require to be connected to a CMS system; they will work in a conventional way also. ACC are not aware of any software used within the LED lantern. The hardware varies depending on manufacturer of the LED lantern. CMS is being trialled in a small area being looked at.

**(b) What type of waveform is the LED? e.g. Square wave?**

ACC does not have a record of this information. However, ACC uses LED drivers with constant current, the DC output is flat with no wave. The drivers do not have or need Pulse Width Modulation control as an output to the LEDs, we use LED drivers that are flicker free.

ACC is unable to provide you with information on "What type of waveform is the LED?" as it is not held by ACC. In order to comply with its obligations under the terms of Section 17 of the FOISA, ACC hereby gives notice that this information is not held by it.

**(c) Can you control the Pulse Width Modulation (PWM) of the streetlight system using the CMS?**

Not applicable, please see the responses above.

**(d) Can you control the PWM of each streetlight that's connected to the system?**

Not applicable, please see the responses above.

**(e) What restrictions do you have in place for the control of the PWM?**

Not applicable, please see the responses above.

**(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?**

ACC does not hold this information. LED lanterns must meet the requirements of the British Standard BS EN 60598-2-3 and be CE marked.

ACC is unable to provide you with information on **the UK, EU and International safety limit (low and high) for the amount of 'flicker' (Hz)** as it is not held by ACC. In order to comply with its obligations under the terms of Section 17 of the FOISA, ACC hereby gives notice that this information is not held by it.

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

ACC does not hold this information. This information is held by the CMS provider.

ACC is unable to provide you with information on **see the training manual and safety operation manual for the CMS and the LED streetlight system** as it is not held by ACC. In order to comply with its obligations under the terms of Section 17 of the FOISA, ACC hereby gives notice that this information is not held by it.

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

Pinacl

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

Pinacl

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

Pinacl

**(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 meet.**

ACC does not have a record this information.

ACC is unable to provide you with information on **proof that confirms that UK, EU and International safety standards for workers and the public have been meet** as it is not held by ACC. In order to comply with its obligations under the terms of Section 17 of the FOISA, ACC hereby gives notice that this information is not held by it.

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

ACC does not have a record of this information.

ACC is unable to provide you with information on **the amount of Blue Light leakage that's safe for the public and workers** as it is not held by ACC. In order to comply with its obligations under the terms of Section 17 of the FOISA, ACC hereby gives notice that this information is not held by it.

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

ACC does not have a record of this information.

ACC is unable to provide you with information on **level of LED streetlight exposure is safe for the public** as it is not held by ACC. In order to comply with its obligations under the terms of Section 17 of the FOISA, ACC hereby gives notice that this information is not held by it.

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

No, there is no legal requirement.

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

All ACC's LED products are CE marked and therefore conform to applicable British Standards and EU Regulations at the time of manufacture.

**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 meet.**

(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?**

Not applicable, please see responses to question 5.1 above.

**6. Where do you have 3G and 4G systems in public spaces and public roads?**

ACC does not have 3G and 4G systems.

ACC is unable to provide you with information on **3G and 4G systems in public spaces and public roads** as it is not held by ACC. In order to comply with its obligations under the terms of Section 17 of the FOISA, ACC hereby gives notice that this information is not held by it.

## **INFORMATION ABOUT THE HANDLING OF YOUR REQUEST**

ACC handled your request for information in accordance with the provisions of the Freedom of Information (Scotland) Act 2002. Please refer to the attached PDF for more information about your rights under FOISA.

We hope this helps with your request.

Yours sincerely,



**Tomina Egbuson** | Access to Information Officer

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