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Mr George Tsigarides

Tel: 020 7525 0722

Date: 16 December 2019

Ref: **1553286**

Dear Mr Tsigarides,

RE: YOUR REQUEST FOR INFORMATION

I am writing further to your request for information dated **15 November 2019**. We have now completed our search for the information you requested.

Your 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 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?*

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?

Response:

1. No. There is brief mention of 5G in our Digital Infrastructure Strategy but this is not a strategy for 5G.

<http://moderngov.southwark.gov.uk/documents/s71628/Appendix%204%20Digital%20Infrastructure%20Strategy.pdf>

1.1 N/A

1.2 N/A

1.3 N/A

1.4 N/A

2. N/A, no designated officer in charge of 5G strategy

3. Yes. Southwark Council has attended a couple of meetings with Transport for London.

3.1 Southwark Council does not have an AV strategy.

3.2.

(a) Transport for London

(b) We not hold this information.

(c) N/A

(d) We not hold this information.

(e) We not hold this information.

3.3 N/A

4. No

4.1. N/A

4.2.

(a) N/A

(b) N/A

(c) N/A

(d) N/A

(e) N/A

4.3. *We have not discussed smart roads or smart signage*

5. Yes

5.1

(a) *We have numerous products so cannot produce a generic specification of hardware – also assumptions have been made that the LED lantern has CMS not photocell control*

(b) *We not hold this information.*

(c) *Products that have CMS can be dimmed yes*

(d) *Yes*

(e) *Only Admin users – eg lighting engineers that can set dimming profiles*

(f) *We not hold this information.*

(g) *We not hold this information.*

(h) *Southwark Council*

(i) *Southwark Council*

(j) *The Asset Management Services within the environment and leisure team are responsible for safety standards in relation to installation of LEDs.*

(k) *We do not hold certification in reference to a generic international safety standard for workers. We hold numerous qualifications in relation to competency of work force along with accrediting bodies such as the NICEIC and would complete toolbox talks specifically around the manufacturer's installation methods if we were to install any equipment outside of our normal scope of works.*

(l) *We not hold this information.*

(m) *We not hold this information.*

(n) *No*

(o) *We design all installations to BS5489 taking into consideration of obtrusive light and excessive lighting levels – oxidative Stress is not used*

5.2 N/A

6. *We not hold this information.*

Please note if selecting the link does not take you to the documents, please copy the link and paste in your internet browser.

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If you are unhappy with the service you have received in relation to your request and wish to make an appeal for a review of our decision, please write to accessinfo@southwark.gov.uk.

If you are not content with the outcome of your appeal, you may apply directly to the Information Commissioner for a decision. Generally, the Information Commissioner cannot make a decision unless you have first exhausted our internal appeal procedure and you should contact her within 2 months of the outcome of your internal appeal.

Further information on the Freedom of Information Act is available through the Information Commissioner at www.ico.org.uk

Yours sincerely

Leon Mitchell
Corporate Freedom of Information Officer