



Reference: FOI0876

**Request:**

Do you have a 5G strategy?

**No, NTC does not have a specific 5G strategy. It is party to the North East Combined Authority, which does have a 5G ambition.**

**Please see <https://northeastca.gov.uk/news/5g-technology-for-the-north-east-region/> and contact the North East Combined Authority for further information.**

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

**N/A**

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

**N/A**

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 NTC:

**N/A**

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

**N/A**

(b) Specification sheets of all 5G technology.

**N/A**

(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?

**N/A**

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

**N/A**

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

**N/A**

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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.

**See above. NTC is not independently forming a 5G strategy and is not in talks with companies or entities about formulation of an NTC 5G strategy.**

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. \*\*The overall Digital Strategy (which would include 5G, where relevant) is in the remit of the Head of Digital Strategy, Ben Kaner

1. Ben Kaner
2. Education: Cambridge University (Natural Science) MA (Cantab)
3. Roles:
4. IBM (1988-1997) - IBM Qualified Systems Engineer through to Senior Network Solutions Architect
5. XBS (1997-2000) - Head of Networks Division
6. HP (2000-2003) European Lead Architect for E-Services Solutions and the HP Mobile E-Services Bazaar
7. BT (2003-2014) Senior Solutions Architect, Mobile Services, Large systems, then Head of Strategic Technology and Innovation, BT Global Services Government and Health. Includes formulating BT Global Services Strategy on Smart Cities and the enabling of Civic Vision using technology
8. Engie/NTC (2015-Current) Head of Digital Strategy\*\*

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

**No information held**

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

**N/A**

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

**N/A**

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

**N/A**

(b) Specification sheets of all technology.

**N/A**

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

**N/A**

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

**N/A**

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

**N/A**

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.

**No information held**

Do you have a strategy for smart roads and smart signage on Public Highways and Public spaces? **No.**

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

**N/A**

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

**N/A**

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

(b) Specification sheets of all technology.

**N/A**

(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)?

**N/A**

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

**N/A**

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

**N/A**

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.

**No information held**

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? **The CMS used is Mayflower Complete Lighting Control. LED manufacturers and models are listed below. All software and hardware relating to the operations of LED lights is produced and controlled by the manufacturers:- Zumbatel (Thorn); CiviTeq Range, R2L2 Range Signify (Philips); Micro Luma, Mini Luma, Luma 1, Luma 2, Mini-Iridium Urbis; Axia**

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

**The information would be provided by the manufacturers of the specific LED lanterns and determined in relation to their individual characteristics. Please see list of manufacturers for question 5.1**

(c) Can you control the Pulse Width Modulation (PWM) of the streetlight system using the CMS? **NO**

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

**NO**

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

**No control of PWM is specified beyond the relevant British Standards and CE markings for manufacture of Lanterns within the European Union. This issue has not been specified within the PFI contract over and above BS EN-60598.**

(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?

**This is not a matter for the Council to provide information on.**

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



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**Please refer to BS EN 60598 and relevant published guides from the manufacturers stated previously.**

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

**SSE Contracting**

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

**SSE Contracting**

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

**British Standards Institute, European Union and International Standards Organisation. SSE Contracting.**

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

**All manufacturers provide evidence of CE Marking and BS EN accreditation on their websites and data sheets, see list of manufacturers previously.**

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

**Please refer to BS EN 60598. This is a public health issue as governed by the BS and CE or the Department for Health.**

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

**Please refer to BS EN 60598. This is a public health issue as governed by the BS and CE or the Department for Health.**

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

**No**

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

**Please refer to BS EN 60598. This is a public health issue as governed by the BS and CE or the Department for Health.**

5.2 If no, then I request a declaration from NTC 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? **N/A**

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

**N/A**



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

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

**N/A**

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

**N/A**

(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?

**N/A**

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

**N/A**

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

**N/A**

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

**N/A**

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

**N/A**

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

**N/A**

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

**N/A**

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

**N/A**

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

**N/A**

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

**N/A**

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

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**The Council uses re-deployable cameras for community safety purposes. They are WCCTV mini domes**

*\*The Council uses re-deployable cameras for environmental crime purposes and these are Vemotion Polecam units*

Fixed Public Space Cameras - Redvision: \*Tynemouth, Junction Allendale Place & Huntington Place, Tynemouth NE30 4RA \*Tynemouth, Junction Front Street & Hotspur St, Tynemouth NE30 4DX \*Tynemouth, Front Street, Tynemouth, NE30 4BT \*Whitley Bay, 301 WHITLEY ROAD, WHITLEY BAY, TYNE & WEAR, NE26 2HU \*Whitley Bay, Junction Park View & Norham Road, Whitley Bay NE26 2TP \*Whitley Bay, THE REX HOTEL, THE PROMENADE, WHITLEY BAY, TYNE & WEAR, NE26 2RL \*Whitley Bay, Tope of South Parade \*Camera type - RedVision - RV30-1080 HD rugged PTZ dome is a high-quality, Full HD, IP camera.

Fixed Public Space Cameras – Hikvision: \*Wallsend, Hay & Killner, High St. West NE28 8QS \*Wallsend, Ramsdens, Junction Station Rd & High St. West NE28 8QS \*Meadowell, JUNC. WATERVILLE ROAD &, RIPLEY AVENUE, NORTH SHIELDS, TYNE & WEAR, NE29 6BB \*Meadowell, ROUNDABOUT, WATERVILLE ROAD ./, WALLSEND ROAD,, NORTH SHIELDS, TYNE & WEAR, NE29 7AQ \*Meadowell, Junction. WEST PERCY RD/SILKEYS LN, ADJ 40 WEST PERCY ROAD, NORTH SHIELDS, NE29 7RG \*Meadowell, Junction 36 Avon Ave & Ripley Ave. NORTH SHIELDS, NE29 7QT \*Meadowell, Junction WEYHILL AVE / AVON AVE, O/S 84 AVON AVENUE, NORTH SHIELDS, NE29 7RT \*Howdon, Jcn. Churchill St / Tynemouth Rd., Wallsend, NE28 0AA \*Howdon, Jcn. Denbeigh Ave. / Tynemouth Rd., Wallsend, NE28 0EB \*Fish Quay, Tanners Bank, North Shields, NE30 1JG \*Fish Quay, Smoke House, North Shields, NE30 1JQ \*Fish Quay, Car Park, North Shields, NE30 1JQ \*Fish Quay, Chip Shop, North Shields, NE30 1HJ \*Fish Quay, Union Stairs, North Shields, NE30 1 HJ \*Fish Quay, Missionary, North Shields, NE30 1JX \*North Shields, The Ballerat public house, Junction Borough Rd & Prudhoe St. NE29 6RQ \*North Shields, Beacon Centre, Bedford St. NE29 6QA \*North Shields, Co op, Junction Nile St & Railway St NE29 6 QF *North Shields, Junction Nile Street & Russell St. NE29 0BE North Shields, E. Turnbull & Son Ltd, Albion Road NE29 0HE Camera type - Hikvision 2MP ultra-low light PTZ with 36X zoom, long range IR & wiper*

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