

# Culture and Communities Committee

10.00am, Tuesday, 16 November 2021

## Public Realm CCTV Update

Routine  
Wards  
Council Commitments

### 1. Recommendations

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- 1.1 To approve the update for the upgrade of the Public Realm CCTV service in Edinburgh.
- 1.2 To note an update on the Public Realm CCTV upgrade project progress in six months' time.

#### **Julien Kramer**

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# Report

## Public Realm CCTV Update

### 2. Executive Summary

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- 2.1 This report seeks to present an update on the progress made towards developing the Public Realm CCTV service in Edinburgh.

### 3. Background

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- 3.1 The City of Edinburgh Council (the Council) operates a Closed Circuit Television (CCTV) camera estate across the public realm, housing blocks, the transport network and Council buildings. Provision of CCTV services is non-statutory, and the service is provided to support public safety and security, including the prevention and detection of crime.
- 3.2 An internal audit review of CCTV infrastructure conducted in 2017/18, included a recommendation for the creation of a corporate plan for CCTV to ensure that all CCTV operations across the Council are managed efficiently, consistently, and are legislatively compliant. Significant investment is required across the public realm CCTV estate to establish an effective and efficient service and the current analogue systems have surpassed the end of their serviceable life expectancy, particularly given the shift in technology from analogue to IP. The public realm CCTV upgrade will be future-proofed for any developments in the Smart City Operations Centre (SCOC) programme within the Council, to which the service area would be integrated.
- 3.3 A CCTV Working Group was formed following approval from the Culture and Communities Committee meeting on 30 January 2018 and the Working Group supported the upgrade of the public realm CCTV system.
- 3.4 The upgrade project successfully submitted an European Regional Development Fund (ERDF) bid as part of the 8th City Programme; Scottish Cities Alliance smart cities initiative. This bid revolves around the upgrade of public safety infrastructure, for developing a 'Smart City'. The ERDF project will span across 2019-2022.
- 3.5 The amount of funding confirmed from ERDF is £712,000 (40%), with £1,068,000 (60%) being match funded from the capital budget allocation for the CCTV upgrade. This project is aligned with the SCOC Programme.

- 3.6 The upgrade of public realm CCTV is one of the initiatives included in the Council's Digital and Smart City Strategy.

## **4. Main report**

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- 4.1 The procurement process for the 'IP Video Surveillance System' project has now been successfully concluded. Two contracts (Lot 1 & Lot 2) have been awarded to support the upgrade of the public realm CCTV service and maintenance thereafter.
- 4.2 Both contract terms are of up to ten years: five years with two optional extensions of three and two years (5 + 3 + 2). This was done to create best value for the Council and ensure consistency of service.
- 4.3 The project is now live and in the Planning Phase.
- 4.4 Significant work will be undertaken during this Planning Phase to align several strands of 'smart city' work-streams spanning diverse groups of teams and departments towards infrastructure upgrade and integration. The intention of which will offer easier access to data and the ability to visualise and analyse that data to enable better decision-making, both for real-time management of the city and for longer term planning.
- 4.5 There are three key elements of the service area which will be upgraded:
- 5.4.1 Central Monitoring Facility (CMF)
  - 5.4.2 Transmission
  - 5.4.3 Cameras

### **Central Monitoring Facility**

- 4.6 The Central Monitoring Facility will be refurbished to accommodate the new equipment, introducing a modern way of working to the service area. Capacity for operator staff will increase, enabling co-location of other service areas to the facility should there be a requirement in future.
- 4.7 The facility is designed to provide integrated, city-wide management and service innovation delivery to strengthen citizen living. CCTV video analytics will be introduced to increase efficiencies and deliver the next level in safety and security for citizens. Furthermore, the video analytics will help identify traffic congestion, pinch points and dwell times to correlate with air quality data. Being able to visualise object movement across the public realm could derive insights about how to improve traffic flow and city planning.

### **Transmission**

- 4.8 There will be an upgrade of the fibre network supporting the cameras in the city, from analogue to digital. The bandwidth will have spare capacity at each location, to provide opportunity to fit additional devices onto CCTV columns throughout the city for other service areas and in turn reduce street clutter.

- 4.9 Furthermore, the fibre points of presence throughout the city on the CCTV assets will enable the hosting of 5G devices. This will accelerate implementation of 5G coverage and contribute to the Council's smart city ambitions. This 5G small cell hosting will also provide income generation for the service area, enabling further reinvestment in future.

### **Cameras**

- 4.10 All existing cameras will be replaced with high definition state-of-the-art cameras, significantly improving picture quality.
- 4.11 Additional cameras onto existing CCTV columns will be introduced to key thoroughfares and junctions across the city to supplement the coverage transmitted back to the CMF. These additional cameras will provide Intelligent Traffic Systems data on traffic flow and congestion, whilst bolstering public safety incident monitoring.
- 4.12 New camera locations are currently being developed and surveyed, with the intention to introduce coverage into areas of the city which previously had no public realm CCTV camera presence.

### **Redeployable Assets**

- 4.13 The camera roll-out programme also includes an additional 12 redeployable cameras which will be purchased for the city. The cameras benefit from a plug-and-play approach which will be used for a flexible and responsive approach to developing issues in Edinburgh. These assets will also be used for key event monitoring.
- 4.14 In addition to the above assets to be procured as part of this upgrade, 14 new redeployable cameras have been purchased following a successful business case to the Cabinet Office in support of public safety monitoring during COP26. This provides a total of 26 new redeployable cameras for the city to handle emerging issues and concerns.
- 4.15 Currently, the service area operates a CCTV van which was transferred from the Street Enforcement Team for the purposes of emergency COVID19 management. This was made possible by redeploying the Community Safety Night Team (CSNT) to operate the van whilst social distancing measures have been in force, preventing the CSNT to fulfil their normal duties.
- 4.16 Therefore, the service area is proposing to decommission the CCTV van when the CSNT return to full duties as there are no human resources available to operate the leased vehicle. The 26 new redeployable cameras will fulfil the mobile monitoring offered by the van, in a more economical manner and improve the coverage across the city significantly - recording in 26 locations 24/7 compared to one location with the CCTV Van, when stationary.

## 5. Next Steps

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- 5.1 A high-level project plan outlines the next steps in the upgrade, in Appendix 1.
- 5.2 The project plan takes account of crucial public safety periods, namely COP26 in November 2021 and Hogmanay 2021. Therefore, no replacement work is to be undertaken until January 2021 to ensure business continuity during these sensitive times. This provides opportunity to co-ordinate with key stakeholders (Police Scotland, Edinburgh Trams, Lothian Buses, Scottish Fire and Rescue, Information Governance, Roads, Space Planners) during the Planning Phase to ensure best practice.

## 6. Financial impact

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- 6.1 The project successfully submitted an ERDF bid as part of the 8<sup>th</sup> City Programme, inclusive of a business case, to obtain the requested funding of £712,000 from the Programme.
- 6.2 Lot 1, IP Video Surveillance System, funding from ERDF is £712,000 (40%), with £1,068,000 (60%) being match funded from the Council's capital budget allocation for the CCTV upgrade, totalling £1,780,000. The IP Video Surveillance System has been awarded at a value of £1,556,072. The remaining funds have been ringfenced for project specific salary costs and consultant fees associated with the delivery of the project. These additional costs are receiving the 40% ERDF contribution, therefore are included in the total cost of the project.
- 6.3 Lot 2, Fibre Network, will be solely funded from the Council's revenue budget.
- 6.4 Lot 2 has generated revenue savings from existing fibre costs at present. In addition, income generation of £300,000 for 5G small cell hosting equipment over the ten-year contract term has been established.
- 6.5 Decommissioning the CCTV Van will present savings of £3,500 per annum along with ongoing repairs & maintenance for the lease of the vehicle. Savings will also be made on the considerable staff time which is currently being utilised through the Community Safety Night Team and overtime of CCTV Operators. These savings will be allocated to SIM data packages for the 26 new redeployable cameras.
- 6.6 The prices quoted by the successful contractors will be fixed and applied throughout the life of the contract, however the Council has reserved the right to negotiate with the contractors on the anniversary of the contract subject to benchmarking and current market conditions.

## 7. Stakeholder/Community Impact

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- 7.1 This project was selected and approved for inclusion within a wider ERDF Operation, by both the 8th City Advisory Group and 8th City Strategic Board. These partnership structures (which includes representation from all Scottish cities and

Scottish Government) were established as part of the governance arrangements that have been put in place for the 8th City Programme.

- 7.2 This project will publish open data sets (pedestrian, cyclist, vehicle counts etc) available to the public – it is envisaged that businesses, third sector organisations and academics can make use of the data. The intention is to use the data sets provided by the new system for the purposes of traffic flow modelling and generate insights as to where congestion occurs. Thereby improving Edinburgh’s air quality and reducing carbon emissions.
- 7.3 The system will create a city operations hub for disaster resilience and risk prevention. The system will be networked to key stakeholder control rooms such as Police Scotland and Scottish Fire & Rescue Service to enable seamless co-ordination to escalating incidents. The system will be implemented as a foundational public safety and visual infrastructure, to be capable of adaptable expansion as the overarching ‘smart city’ programme develops.
- 7.4 The development of an open platform, public safety network with the capability to absorb security sub-systems may reduce duplication of security control rooms across the city thus reducing emissions.
- 7.5 The new system user interface will improve significantly for frontline operators. This will lead to an improvement in morale, job satisfaction, employee retention and wellbeing of frontline staff.
- 7.6 The Council’s Sustainable Procurement Strategy was considered and applied through the request of Community Benefits. The contractors will be required to deliver Community Benefits, which will be monitored throughout the life of the contract. The Council set minimum expectations in both Lots of the tender and the successful contractors have met and exceeded these expectations. The Community Benefits are fully detailed in Appendix 2 of this report.

## **8. Background reading/external references**

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- 8.1 [Proposal of the CCTV Working Group](#)
- 8.2 [Public Realm CCTV Update](#)
- 8.3 [Digital and Smart City Strategy](#)
- 8.4 [Award of Contracts for IP Video Surveillance System and Fibre Network](#)

## **9. Appendices**

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- 9.1 Appendix 1 – High Level Project Plan
- 9.2 Appendix 2 - Community Benefits

## Appendix 1 – High Level Project Plan

<p><u>Planning Phase: Milestone 1</u></p> <p>Stakeholder workshops to co-ordinate works, finalise &amp; approve details of the solution whilst mitigating risk to business continuity.</p>	<p>September – December 2021</p>
<p><u>Implementation Phase: Milestone 2 – Central Monitoring Facility</u></p> <p>A temporary control room to be fitted out, enabling the service to continue without disruption as retrofitting works are carried out in the CMF and a new video management system is installed.</p>	<p>January – April 2022</p>
<p><u>Implementation Phase: Milestone 3 – Cameras</u></p> <p>Roll out of camera replacements across the city, this is staggered to ensure that 92% of the cameras are operational as a minimum at any period. Downtime is not permitted during August due to the Fringe Festival, therefore replacement programme is on hold during this period.</p>	<p>April 2022 – September 2022</p>
<p><u>Post-Implementation Phase: Milestone 4 – Testing</u></p> <p>Video Management System and each camera is tested for security, functionality and snagging.</p> <p>Project complete.</p>	<p>September 2022</p>

## Appendix 2 - Community Benefits

### IP Video Surveillance System

<b>Community Benefit Category: Employment and Skills</b>
<ul style="list-style-type: none"><li>• <b>Community Benefits Required - 1</b></li></ul>
<ul style="list-style-type: none"><li>• Modern Apprentice- college leaver</li></ul>
<ul style="list-style-type: none"><li>• Promotion of job opportunities</li></ul>
<ul style="list-style-type: none"><li>• Work Experience - college leaver</li><li>• 2-week placement</li></ul>

<b>Community Benefit Category: Environment Improvements</b>
<ul style="list-style-type: none"><li>• <b>Community Benefits Required - 2</b></li></ul>
<ul style="list-style-type: none"><li>• Painting of CCTV Columns, as per specifications</li><li>• 10m in height x 27</li></ul>

<b>Community Benefit Category: Education &amp; Outreach</b>
<ul style="list-style-type: none"><li>• <b>Community Benefits Required - 3</b></li></ul>
<ul style="list-style-type: none"><li>• Construction Curriculum Support Activities</li><li>• 5 x 1 hours</li></ul>
<ul style="list-style-type: none"><li>• Curriculum for Excellence Support</li><li>• Workshop in a School or Community Centre in Edinburgh</li><li>• 3 x 2 hours</li></ul>

<b>Community Benefit Category: Community Engagement</b>
<ul style="list-style-type: none"><li>• <b>Community Benefits Required - 4</b></li></ul>
<ul style="list-style-type: none"><li>• Area Tidy-up Campaigns</li><li>• 15 x 2 hours</li></ul>
<ul style="list-style-type: none"><li>• Local Community charitable projects/events supported by staff volunteers 2-hour min. of volunteer support.</li><li>• 10 x 2 hours</li></ul>

### Fibre Network

<b>Community Benefit Category: Employment and Skills</b>
<ul style="list-style-type: none"><li>• <b>Community Benefits Required - 1</b></li></ul>
<ul style="list-style-type: none"><li>• Modern Apprentice</li></ul>
<ul style="list-style-type: none"><li>• We will work with your education and lifelong learning departments to offer 2 structured 1-week work experience placements.</li></ul>



### **Community Benefit Category: Education & Outreach**

- Commitment to funding and facilitating 2 school or college class visits to Open Street, educating pupils into how digital infrastructure is built, and giving them an insight in to engineering roles and career pathways.
- 77 primary schools in Edinburgh are already engaged with Barefoot (75%). In partnership with City of Edinburgh Council, we'll actively target the remaining 25% of schools who we haven't been able to engage with ensuring 100% coverage.

### **Community Benefit Category: Community Engagement**

- Co-design of one significant volunteering project with the Council each year of the contract in conjunction with your account team. Each project will be designed specifically to support the Council's community benefit objectives.

### **Community Benefit Category: Funding and Sponsorship**

- Sponsorship of two community training centres supporting digital inclusion (up to 30 individuals) in partnership with the Good Things Foundation. To help people with face-to-face support and training, predominantly aimed at older people and more vulnerable people.