Governance, Risk and Best Value Committee

10:00am, Tuesday 2nd May 2023

Quarterly Status Update - Digital Services

Executive/routine Executive

Wards All Council Commitments

1. Recommendations

1.1 It is recommended that the Committee reviews, scrutinises and notes the progress detailed in this quarterly update.

Dr Deborah Smart

Executive Director of Corporate Services

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Report

Quarterly Status Update – Digital Services Programme

2. Executive Summary

2.1 The purpose of this report is to provide a quarterly progress update upon the Council's Digital Services programme of works. The Council and our technology partner, CGI UK Limited, have continued to work in partnership to increase the pace of delivery to improve core digital services, achieve further improvement and progress the associated major systems changes and developments which will further enable and enhance our citizen facing services and the internal business operations of the Council.

3. Background

Council Digital and Smart City Strategy

- 3.1 In October 2020, the Policy and Sustainability Committee approved the Council's new Digital and Smart City Strategy (2020-2023) which describes how we will embrace innovative technical solutions to meet rapidly evolving and changing citizen and business needs, respond to the changing shape of the organisation, provide value for money, and enable us to respond to opportunities for improved joint working with our community planning partners. This Strategy will be revised later in 2023.
- 3.2 Our strategic technology partnership with CGI was extended to the end of March 2029 following negotiations between the Council and CGI with formal approval to the extension being given by the Finance and Resources Committee on 27 August 2020. This contract extension enables the Council to deliver further digital enhancements and improvements to our services and has yielded further financial savings, building upon the progress made in partnership with CGI to date. As a part of this extension, a greater focus will be given to digital change management, enhanced service delivery and the development of new strategic solutions.
- 3.3 Both the original and extended contracts with CGI have provided savings to the Council which are detailed in Section 6 of this report.

- 3.4 The digital environment in which we operate continues to evolve and the Council becomes increasingly reliant on technology to deliver its services. The approved Digital and Smart City Strategy, and our extended partnership with CGI, provide clear strategic direction, leadership, capacity and support for both the Council and the City's future digital ambitions. These ambitions will be aligned with the Council's refreshed business plan, the Edinburgh 2050 City Vision, the work of the Adaptation and Renewal programme and the work with community planning partners and the Edinburgh and South East of Scotland City Region Deal.
- 3.5 The implementation of the Strategy has been supported by significant investment in Digitally Empowered Learning and Smart Cities specific projects, approved by the Council at the Budget setting meeting on 18th February 2021.

4. Main report

Stability Plan from CGI

- 4.1 In September 2022, issues relating to performance across the Council's Learning and Teaching network were raised.
- 4.2 CGI's slow response to resolving these issues coupled with a period where incidents had become more impactful on the Council and a lack of progress with several key priorities led to an escalation by the Council to CGI's UK and Australia President on the 23rd of September, which resulted in CEC being placed into priority care, to ensure stability of service was maintained. The appendices attached to this report now show a reduced number of incidents returning service back to a recognised service provision which is expected as part of industry standard. Work will continue to ensure the service plan is maintained and continues to improve.
- 4.3 As well as successful resolution of the performance issues, the Council asked CGI to provide additional resourcing and focus on a key set of ongoing issues:
 - Council Corporate Wi-Fi connectivity
 - Procurement of Wireless Access Points to support Empowered Learning
 - Resolution of Public Wi-Fi Access in our buildings
 - Certificate Issues
 - Improvement in the operational change process
 - Greater engagement with users to make sure that things are working and not simply rely on calls.
- 4.4 As part of the response to the Council, and to lead on the work of a stability plan, CGI have appointed Faris Mohammed, the CGI Chief Operating Officer for UK and Australia, to temporarily align himself with the account and provide senior CGI oversight and support to drive this forward. This action was taken by CGI as a result of a direct request by the Council to have an Executive sponsor to scrutinise and resolve CGI operational issues.

- 4.5 The Council meet with CGI weekly to review progress on the stability plan and Digital Services will continue to review the performance of all aspects of CGI delivery, escalating issues as appropriate.
- 4.6 Progress to date includes
 - Completion of the Empowered Learning Programme
 - Implementation of improved public Wi-Fi access across Waverley Court and City Chambers with other buildings to be connected before summer 2023
 - Review of wireless access in Waverley Court and City Chambers with the move of existing Wireless Access Points and additional points installed to improve coverage
 - Strengthened CGI Operation Change process leading to reduced major incidents and swifter response when issues do arise.
- 4.7 CGI also carried out in depth surveys of device and network performance at 20 schools. The final report on this is still in production, with initial feedback being:
 - Increased RAM has a significant positive impact on performance of devices
 - No widespread issues on network identified
 - Some local issues e.g. Wireless Access Point not working correctly which should have been reported to CGI HelpDesk – Digital Services will ensure that comms go out again to advise of reporting options
 - Devices not being restarted Digital Services will ensure that comms go out again to reinforce.
- 4.8 The Council will continue to work with CGI on the remaining elements of the Plan and ensure that stability across the network is maintained.

Protecting Our Organisation - Cyber Security Management

- 4.9 The Council and CGI teams are collaboratively managing Security Risks continuously across the estate. The security risks cover a range of issues from the new Cyber Resilience Framework and vendor management to user account privileges that ensure that we meet Government or legal frameworks by service improvements, integration, or removal, to ensue that the Council are not at risk.
- 4.10 The Security Risk Management Plan (RMP) has continued its quarterly reviews and risk owners have been asked to provide regular updates to improve on the risk appetite by both partners in this framework, the Council and CGI. Enhanced reporting has been developed between key stakeholders within CGI and the Council.
- 4.11 The Council has engaged the Cabinet office early and the external assessment of our network for PSN 2023 has completed, and after a period of remediation the Council have been awarded its compliance certificate for the year ahead by. Work will now progress towards penetration testing of the L&T network.

- 4.12 The Council has provided evidence to support the Scottish Government's Public Sector Cyber Action Plan Cyber Resilience Framework (PSCAP CRF) to the Scottish Government in early 2022. The Scottish Government followed this up with a Cyber Assurance Survey in February 2023 that has been completed by the Council and CGI and returned to the Scottish Government.
- 4.13 Monthly e-Learning for Cyber Security continues to be successfully rolled out across the Council. The Council Cyber Security team have implemented several improvements recently notably allowing people to re-visit previously distributed training modules. Service areas should continue to encourage their teams to complete the training to generate a greater uptake and in tandem the Digital team are assessing options for making this training mandatory with reports for services to track and monitor performance. Simulated phishing exercises continue and are results are reported to the internal Cyber steering group. Discussions are ongoing with the external supplier to discuss what technically can be done to improve compliance figures.
- 4.14 Monthly automated vulnerability scanning is now in place across both Corporate, Learning and Teaching and People's Network estates. The Council and CGI meet on a fortnightly basis to work through the vulnerabilities identified with a view to reducing the overall numbers. Penetration Testing of the Learning and Teaching Environment has been requested again from CGI for 2023 and this is currently working through the CGI internal change process.
- 4.15 Network Access Control has successfully been rolled out to 3 pilot sites within the Council and a rollout plan for the rest of the estate has been requested from CGI.
- 4,16 Funding to implement the EGRESS e-mail security toolset has also been approved, with rollout of Phase 1 commenced in early spring 2023 and Phase 2 following later in the year.
- 4.17 The Council is an active member of the CisP community, an initiative developed by the National Cyber Security Centre (NCSC) to allow for collaboration on Cyber Security initiatives and also provides a platform for sharing threat intelligence information.
- 4.18 The current threat level to the Council remains very high, amplified with the war ongoing between Russia and Ukraine. Communications have been sent to all Council staff asking them to remain vigilant and to report any suspicious events. Staff have been reminded of the importance of completing their mandatory Cyber awareness training. The Council and CGI are constantly monitoring threat intelligence feeds through various channels and applying controls where appropriate.

Governance, Audit and Contract Management

4.19 The Council and CGI have an operational governance framework in place, built upon the requirements of the partnership contact. This includes regular reporting to the Corporate Leadership Team's Change Board on the delivery and development

- of major transformation programmes, in accordance with the Council's approved approach to managing major projects and change.
- 4.20 Internal Audit has planned audits in the 2022/23 Audit Plan for CGI Risk Management, CGI Enterprise Architecture, and the Security Operations Centre. All three have commenced and the Security Operations Centre audit has fully concluded with actions assigned and included below.
- 4.21 Digital Services currently has 15 open audit actions owned by either CEC or CGI.

 All open actions are within date. These are being actively managed and kept under regular review by the Service Director and the Digital Services Senior Management Team.

Core Digital Service Performance

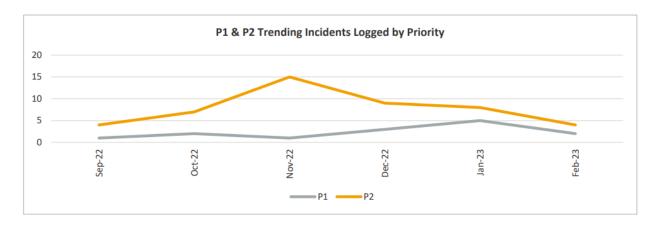
- 4.22 Service performance is driven through a set of twenty-five key contractual measures that, in turn translate to a set of key performance indicators (KPIs). Service incidents definitions can be found in Appendix 1.
- 4.23 Customer (User) satisfaction scores have remained well above KPI levels and have improved slightly following a dip related to the impact of priority 1 incidents in January 2023.



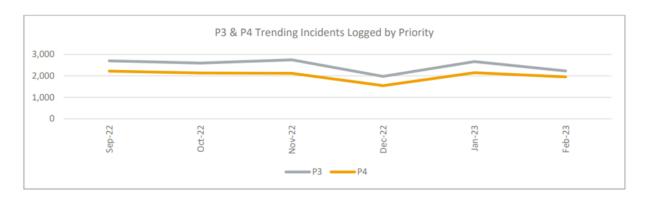
4.24 The response rate for customer satisfaction surveys remains low. Communications have previously been distributed across the Council to encourage colleagues to participate in these which are distributed to every call once closed and a further reminder is planned.

	September 2022	October 2022	November 2022	December 2022	January 2023	February 2023
Surveys Distributed	5476	5250	5106	4436	5396	5142
Surveys Completed	277	258	288	189	260	252
Response Rate	5.06%	4.91%	5.64%	4.26%	4.82%	4.90%

4.25 The volume of Priority 1 (P1), or the highest severity incidents, has reduced to an acceptable level. The volume of Priority 2 (P2) incidents has also returned to a low and acceptable level.



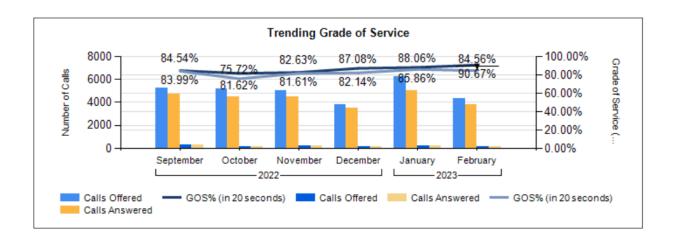
4.26 The overall volume of non-critical Priority 3 (P3) and Priority 4 (P4) incidents shows a steady and stable pattern over the last six months with a dip over the Christmas holiday period as schools closed and colleagues took leave.



4.27 Call Volumes

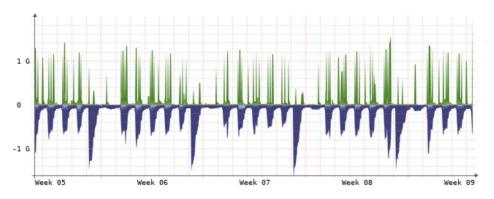
Priority	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Total
Critical (P1)	1	2	2	3	5	2	15
High (P2)	4	7	12	9	8	4	44
Medium (P3)	2,695	2,592	2,748	1,975	2,666	2,225	14,901
Low (P4)	2,220	2,131	2,117	1,543	2,145	1,949	12,105
Total	4,920	4,732	4,879	3,530	4,824	4,180	27,065

- 4.28 Call volumes have remained at stable and acceptable levels. Appendix 2 provides a comparison of P1-P4 calls over five full years to December 2022 and highlights the overall reduction in calls over the last few years and the stabilisation of volumes. Appendix 3 provides a comparison of call volumes this year and last.
- 4.29 As our call volumes have stabilised over the years, the grade of service has improved.



Network Usage

4.30 Our bandwidth usage is constantly monitored and the primary WAN circuit for both estates is well within capacity. There is active review of individual sites to monitor their usage, cancel unused lines and update where traffic has increased.



Strategic Programme of Work and Change Programmes

- 4.31 The Digital Services Strategic Programme of Work presents a portfolio of projects to support the execution of the Council's Digital and Smart City Strategy over the next 12 months. The remaining elements of the delivery of the six main transformational programmes previously reported on, ERP and Business Intelligence, are incorporated within this and updates are provided for these.
- 4.32 The Strategy defines the principles that support project decisions and choices in relation to priorities, funding models, resourcing, scheduling, hosting, security, and application architectures.
- 4.33 Progress on the work programme will be monitored through this Committee quarterly. A high-level snapshot of the 2023-24 plan is included as part of Appendix

4 for reference along with detailed information on the wider programmes underway. Details of the major and transformational programmes included below:

Empowered Learning – Digital Education

- 4.34 Work on the Empowered Learning programme, delivered in partnership with CGI, has now completed.
- 4.35 Work began in April 2021 on the delivery of the Empowered Learning solution which will provide every pupil from P6 to S6 with a device and access to devices for all P1 to P5 pupils as well as augmentation of our existing wireless network in schools. This programme has now also been expanded to include Early Years.
- 4.36 This programme has delivered:
 - Equity of access from P6 to S6, ensuring all pupils have personal access to digital learning with their teacher in school or at home
 - 44,736 iPads have been distributed across the city to learners and teachers
 - And additional 1052 Wireless Access Points have been installed across all educational establishments with accompanying cabling where required
 - Effective digital workflow to increase engagement, improve teacher feedback and raise attainment
 - A range of powerful accessibility features to improve access to the curriculum for pupils with additional support needs
 - Learners able to work online simultaneously in a class or collaboratively outside the classroom
 - High quality digital applications for productivity and creativity, providing increased personalisation and choice
 - Development of learning, thinking and digital literacy skills vital for success in today's rapidly evolving, technological society.
- 4.37 The programme lessons learned is underway and the Education, Children's Services and Criminal Justice Directorate will review how this programme will work beyond 2025/26 when the initial 4 year programme ends. The project closure report is also being finalised.

Application Performance - NetApp SAN / File Storage

4.38 A programme to upgrade a key component of the Council's file storage infrastructure known as the "NetApp SAN", is now well underway. As the NetApp SAN supports many of the Council's core applications including iTrent, Swift, iWorld Housing, and iWorld Revenues and Benefits, the programme requires careful planning and coordination with business teams, to support testing and ensure the upgrades have minimal impact on business operations. The infrastructure for the new "NetApp SAN" is now fully deployed and live migrations for all production databases have now completed. The purpose of upgrading the NetApp storage is

to modernise the infrastructure which has resulted in improved performance speeds of applications, which in turn will improve overall productivity for end users.

Social Care Rostering - Driving Operational Efficiency

- 4.39 The project to introduce a new Health and Social Care rostering system is now fully mobilised and moving forward at pace. This includes a weekly project board and specialist working groups and teams with responsibilities for key areas such as technical delivery, business change, procurements, planning and logistics, interfaces, and data quality. Activities underway include iPhone deployments, system integration testing, interface developments, business process reengineering, communications, and stakeholder engagement sessions. To date over 450 care workers have received their mobile devices and iPhone training as part of the project.
- 4.40 The system will drive efficiencies and support new ways of working to deliver the best quality of care, adopting a three conversations approach, and help support individuals live independently in their own home, offering the right care and support, at the right time and in the right place. The programme was originally planned to complete in March 2023. In consultation with other Local Authorities the EHSCP have reprofiled the delivery plan to adopt best practice and to ensure this significant change is embedded into the service area, which as a result will mean that the programme will conclude in December 2023.

Community Transport Management - Driving Operational Efficiency

4.41 Work is now underway to deliver a new integrated community transport system to support the routing of vehicles and management of drivers. This will assist in areas such as the transportation of children with Additional Support Needs (ASN) from parents and carers homes back and forward to school. The introduction of the new transport system will provide more flexibility and support more efficient scheduling and route planning thereby reducing mileage, costs, and environmental impact. The system will also provide an online portal for parents and carers to book and track journeys.

Customer Digital Enablement – Enhancing On-Line Offering

- 4.42 We are continuing to expand the range of online services offered to citizens through the Council CRM system. A key highlight includes the recent launch of the new Repairs Direct online booking service which integrates the CRM with our housing and workforce scheduling systems, allowing citizens to book housing repair appointments online.
- 4.43 Further online services which have recently been delivered include forms to support annual gas servicing and blue badge payments, and ongoing developments to build forms to support online requests for dropped kerbs and disabled parking bays, and to report traffic signal faults.

4.44 In parallel we are also enhancing the CRM knowledge base functions which will assist both the contact centre and members of the public in solving issues and answering questions. We are also working with CGI and Verint, to investigate options for improving and simplifying the customer authentication and login process for the CRM.

Smart Cities – Smart Waste and Smart Housing

- 4.45 Work continues to progress around the platform configuration for the Smart Cities Operations Centre. As of 10th March 2023, 4525 sensors have now been installed and are functioning as expected in the Smart Cities test environment set up by CGI. Installations to litter bins in the City Centre was completed ahead of the Christmas markets opening. Regular shipments of sensors have now commenced and plans are well underway to deploy up to 11,000 sensors in to litter and communal bins across Edinburgh which is on track to complete by June 2023. Council resource, part funded by ERDF match funding, are key contributors to this project activity and additional resource has been brought in to expedite these installations. Survey work around the various components of the system is underway and progressing as expected.
- 4.46 Deployment of damp sensors in empty Council properties is due to commence and will comprise 1500 sensors, with six tradespeople completing installation across 500 properties. This will help the team assess installation rate and identify any outstanding issues surrounding iWorld software and familiarise tradespeople with the software used when installing sensors. The data collected from these sensors will be used to help design reports which will be used by the Council to identify and predict dampness in homes.
- 4.47 Appendix 4 provides further details on the large scale of digital transformational activity across service areas.

CGI Community Benefits & Carbon Neutral 2030 Committment

- 4.48 CGI are committed to demonstrating tangible community benefits for the City of Edinburgh Council and its citizens and have been involved in various different activities over recent months.
- 4.49 The CGI Cyber Escape Experience visited Atlantic Quay in Leith during February. The CGI Cyber Escape Experience has been touring various sites across Scotland this year raising awareness of cybersecurity and its impact in our modern world. The event in Leith was a great success, educating children and adults alike through interactive activities demonstrating how sensitive information can be manipulated and how this can be safeguarded against. CGI will work with CEC to plan further events of this nature, particularly across secondary Schools post the exam period.
- 4.50 Discussions have been held with One City Trust to explore how CGI can continue to support this deeply meaningful collection of projects, especially with One City Trust celebrating its twentieth year. CGI have been involved in various initiatives over the past year across Edinburgh, including supporting Costorphine Community Centre to

- update their website to drive increased traffic to important local news and community activities.
- 4.51 CGI are committed to continue to support One City Trust over the next year and beyond. Applications are currently open for this year's funding round, which CGI will be involved in from the outset to provide support to the winning projects.
- 4.52 CGI have made a commitment to ensure sustainability is a key element of their business processes going forward. CGI are progressing towards their target of being Carbon Neutral by 2030.
- 4.53 CGI recently participated in the UN Climate Change Conference, known as COP27. As the only IT services firm to partner with the COP27 Presidency, they engaged in active discussions about CGI's sustainability services and solutions, including the metaverse, to share how technology can play a pivotal role in helping organizations operate innovatively and use data to advance climate change goals and achieve long-term stakeholder value.
- 4.54 Recent activities close to home have included the planting of 1500 new trees across the UK with recent planting activity at Hawkhill Woods.

5. Next Steps

The Council continues to further strengthen and improve our management, governance, security, and delivery arrangements for the digital programme in partnership with CGI. The approval of our Digital and Smart City Strategy provides the strategic direction for the next phases of our digital developments. The approval of this strategy also informs the future prioritisation of investment, both capital and revenue, in digital activities. This will ensure that appropriate consideration can be given not only to future improved systems to drive efficiency, and deliver savings, but also to investing in core Council systems which are end of life or nearing end of life such as the Finance and Debt management upgrades, SWIFT and the HR system replacement.

6. Financial impact

- 6.1 Our partnership with CGI is saving the Council an estimated £6m per annum against the 2015/16 baseline spend on ICT with our former partner, BT. Over the first phase of the Council's contract with CGI, this will save £45 million. The Committee should note that this saving has already been fully assumed and incorporated as part of the Council's Medium-Term Financial Framework and planning assumptions.
- 6.2 During 2018 the Finances and Resources Committee approved a negotiated 'variation' to the baseline contract which included a reset of all digital transformation programmes and the Council receiving just over £11m of rebate.

- 6.3 On the 27 August 2020, the Finance and Resources Committee approved a 6-year extension to end March 2029 following negotiations between CGI and the Council, realising a further saving of £14.1m. This contract extension enables the Council to realise financial savings and build on the progress made in partnership with CGI, with greater focus upon change management and enhanced service delivery.
- 6.4 In addition to the savings generated by our IT partner, considering future digital investments should assist with driving wider operational efficiency benefits along with improved employee and citizen outcomes, like we have seen with our Verint CRM on-line portal, Total Mobile workforce rostering solution rolled out into Housing and now being rolled out to the EHSCP and our Smart City digital waste and smart housing programme which are in implementation stage.

7. Stakeholder/Community Impact

- 7.1 The Council's Corporate Leadership Team (CLT) risk register formally identifies digital capabilities, cyber secuirty and information governance as a risk and ensures that sufficient mitigations and active management of risks continues to be undertaken. This is further complemented by risk reporting and management in respect of cyber security and information governance, including Data Protection Compliance.
- 7.2 The Council's Change Board actively monitors and tracks progress on all Council wide programmes ensuring that targeted action is taken should timelines, benefits or costings deviate from the original business case, this includes the ICT programme.

8. Background reading/external references

8.1 Digital & Smart City Strategy 2020-23

9. Appendices

- 9.1 Appendix 1 Incident Definitions
- 9.2 Appendix 2 Year on Year service level agreement (SLA) Volume Comparison 2018-2022
- 9.3 Appendix 3 Two-year SLA Volume Comparison (Last & Current)
- 9.4 Appendix 4 Strategic Programme of Work
- 9.5 Appendix 5 Digital & Smart City Implementation Plan

Appendix 1 - Incident Definitions

"Severity 1 Service Incident"

A Service Incident which, in the reasonable opinion of the Authority:

- (a) constitutes a loss of the Services which prevents a large group (of at least 50) End Users from working; or
- (b) has a critical impact on the activities of the Authority; or
- (c) causes significant financial loss and/or disruption to the Authority; or
- (d) results in any material loss or corruption of Authority Data; or
- (e) results in a P1 being Non-Available; or
- (f) causes an entire business area to be unable to work.

Non-exhaustive examples include: A failure of the Services to provide user authentication service; or at least 50 End Users unable to work or a P1 failings its KPI Availability targets.

"Severity 2 Service Incident"

A Service Incident which, in the reasonable opinion of the Authority:

- (a) has the potential to have a major (but not critical) adverse impact on the activities of the Authority and no workaround acceptable to the Authority is available; or
- (b) has the potential to cause a financial loss and/or disruption to the Authority which is more than trivial but less severe than the significant financial loss described in the definition of a Service 1 Service Incident; or
- (c) causes financial loss and/or disruption to the Authority; or
- (d) affects greater than 25 but less than 50 End Users; or
- (e) results in a P2 Application being Non-Available.

Non-exhaustive examples include: Corruption of organisational database tables or loss of ability to update Authority Data.

"Severity 3 Service Incident"

A Service Incident which, in the reasonable opinion of the Authority:

- (a) has the potential to have a major adverse impact on the activities of the Authority which can be reduced to a moderate adverse impact due to the availability of a workaround acceptable to the Authority; or
- (b) has the potential to have a moderate adverse impact on the activities of the Authority; or
- (c) affects less than 25 End Users; or
- (d) results in a P3 Application being Non-Available;

Non-exhaustive examples include: inability to access data or a class of customers.

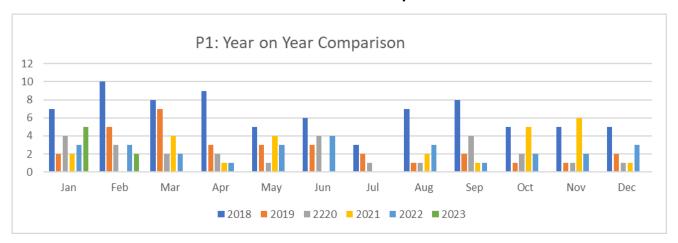
"Severity 4 Service Incident"

A Service Incident which, in the reasonable opinion of the Authority has the potential to have a minor adverse impact on the provision of the Services to End Users.

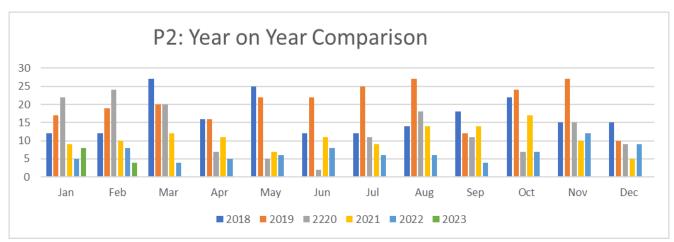
Non-exhaustive examples include an inability to access data for a single customer.

Appendix 2 - SLA Volume Comparison - 2018-2022

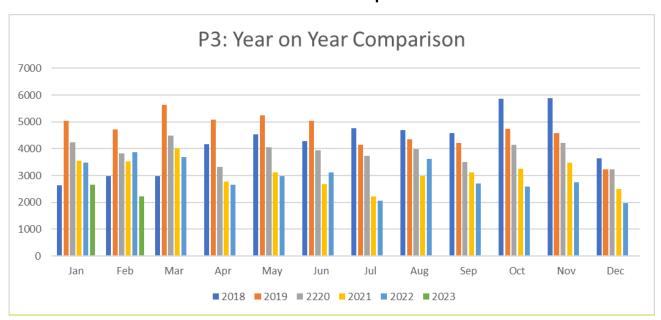
P1: Year on Year Comparison



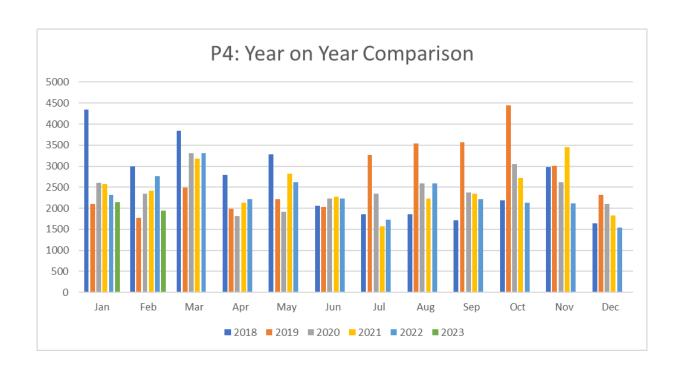
P2: Year on Year Comparison



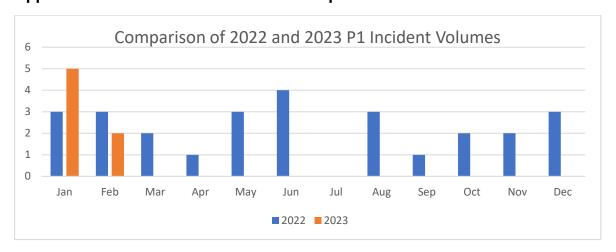
P3: Year on Year Comparison

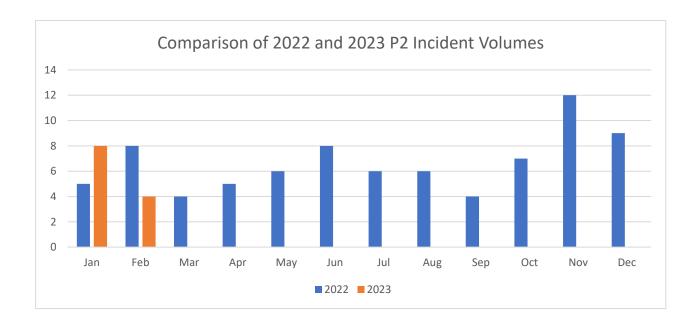


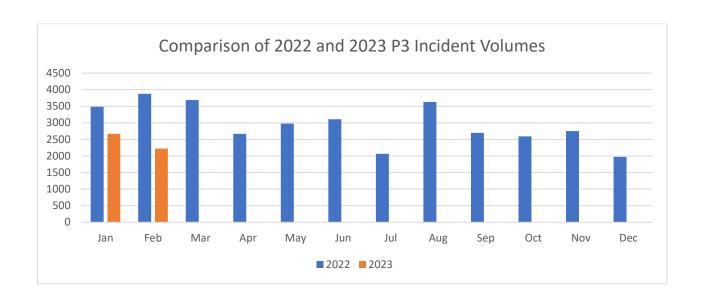
P4: Year on Year Comparison

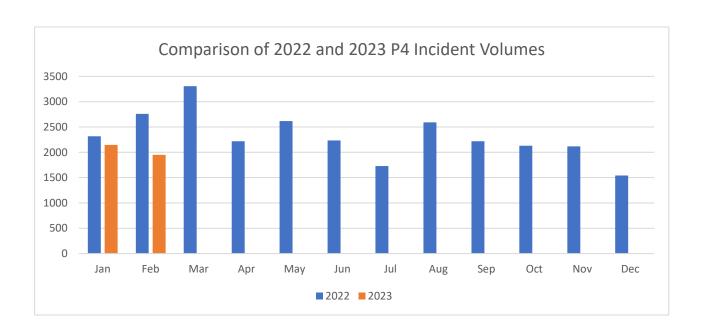


Appendix 3 – Two Year SLA Volume Comparison – 2022 & 2023









Appendix 4 Strategic Programme of Work

Operational Efficiency

The following programmes assist with driving operational efficiency within the service areas they relate to.

Tenant Engagement Platform

- We are working with the Housing Service on proposals to develop an integrated and automated solution for online engagement with social housing tenants in areas such as...
 - Automated Transactional Polls
 - Community Consultations
 - Annual Surveys
- The system will assist the service in better understanding social housing customer's experiences and the challenges faced. At present, individual consultation exercises are carried out in ways which are typically manual, time consuming and inefficient and generate a relatively low return.

Housing Asset Management

- We previously rolled out the final module of the Housing Asset Management application to help support the maintenance and upkeep of the Council's social housing stock. The project has delivered a raft of new functions and services to assist the administration of housing assets including the tracking and control of asbestos, and the coordination of condition surveying. Work continues to embed the system into business processes and to refine set-ups and configurations to drive further operational benefits.
- The system underpins wider business changes to improve efficiency, help reduce operational wastage, and improve regulatory compliance.

Mobysoft RentSense

- The new Housing rent management system, Mobysoft RentSense, which was deployed in late 2022 remains in early life support and is proving highly effective in helping Housing officers to identify and assist tenants who are struggling to pay their rent.
- This supports officers in making targeted and early interventions and helps ensure tenants receive the appropriate help and support, and to drive forward improvements in the overall rent collection.

ERP - Oracle EBS12

- The ERP programme, which will deliver a range of upgrades and improved interfaces between core systems in Finance, HR/Payroll and Banking and Payments Services is now in full delivery with contracts in place with the Council, CGI, and the sub-contracted Oracle integration and managed service partner.
- Regression testing for the Oracle E-Business Suite v12 upgrade (regression testing is the re-running of functional and non-functional tests to ensure that previously

developed software continues to perform as expected) has completed and the focus is on the finalisation of the debt management environment and the set-up of environments for the next stage of testing. Confirmed programme costs have been built into the financial model, which is rigorously monitored by Finance and the programme board. Internal Audit remain fully engaged with and provide agile audit support for this programme.

Hosted IDOX

- A major milestone was reached on the hosted IDOX project when the project moved into formal User Acceptance Testing. The project will migrate the core Planning and Building Standard system into the vendor cloud which will transfer responsibility for maintaining infrastructures, IT compliance, system upgrades and support over to the supplier, allowing the service to become more agile, scalable, and resilient, and to focus on delivering improved public services.
- Further planning is now underway to finalise the rollout plan which will target a switch over to the new system over Q2 2023.

Computer Added Facilities Management (CAFM)

Ongoing work is underway between Digital Services, Property and Facilities
Management, and CGI to plan the final migrations of the property management
legacy system onto the new CAFM application for the running of corporate
properties and programmes. This work follows the previous transition of FM
services onto the CAFM system which provides front line staff with functions to
manage aspects such as condition monitoring, asbestos, maintenance, and
inspections via their smart phones.

Ethitec ELMS2

- The Community Equipment Loan Service is a partnership between the City of Edinburgh Council, East Lothian Council, Midlothian Council and NHS Lothian which provides, delivers, installs, repairs, maintains and recycles a range of equipment helping people of all ages to live independently. The service is supported by the Ethitec ELMS2 system for the management of stock and orders.
- A project is now underway to extend the use of ELMS2 to help administer the provision of urology prescriptions, creation of purchase orders and reporting for financial reimbursement of those. Go live is scheduled for Q2-Q3 2023.

Masterbill

 Work has progressed with the Housing Repairs team to upgrade the Masterbill cost analysis and bill of quantities management system which supports the running of construction and maintenance projects within the social housing sector. The project is scheduled to go live in Q2 2023.

Civica CX

 Work continues on the Civica CX project which will replace the legacy "Civica APP" system with an upgraded cloud-based solution to drive business improvement and transformation across Licensing, Trading Standards, Food Safety and Hygiene. The project is being delivered in phases with Phase 1 now underway to transition Licensing from APP onto CX and planning for Phase 2 is in progress.

Housing Repairs and Mobile Working

Earlier last year we successfully closed Phase 2 of the Housing Repairs project
which has delivered a new mobile workforce management solution for Empty
Homes and Gas Servicing as well as further enhancements to the Repairs archiving
system. Work has now started on delivery of Phase 3 which will deliver further
efficiencies and service improvements.

Council Tax, Housing, BID and Non-Domestic Rates Billing

 Over February we successfully completed major system upgrades and batch processing runs for the 2023 Council Tax, Housing, BID and Non-Domestic Rates Annual Billing. The process has been simplified through the introduction of a new Northgate solution last year which supports both the bill generation and citizen access to online Revenues and Benefits accounts. As part of this project, we have also successfully upgraded our Housing Management system.

Digital and Smart City Strategy

- The Implementation Plan to support the Digital and Smart City Strategy has been developed and the latest version can be found in Appendix 5.
- This Plan is a snapshot of work at a point in time. The date of this is noted on the plan.
- The Digital and Smart City Strategy will be revised during 2023.

Providing Accessible Services

Fostering Edinburgh

 Work continues between Digital Services, the Family Based Care team, and Communications to further enhance the new "Foster with Edinburgh" website which successfully launched on Tuesday the 21st of September. The website is a key part of a wider campaign to promote the service and provide carers and prospective carers with information and advice on our Adoption and Fostering services. Further work is now commencing to leverage the platform and capture requirements for enhancements as a phase 2 activity.

Intranet External Gateway

- The project to deliver a new external gateway to the Council Intranet is now underway. The gateway will enable the 5000 employees without Council email addresses to connect to the ORB via their personal email accounts - providing secure access to vital HR information such as
 - o Internal staff communications
 - o Council policies, and policy-related guidance and support

- Wellbeing guidance and initiatives
- General updates relating to pay and benefits
- This additional solution addresses one of the actions in the Tanner Report. The system is on schedule to go live in Q2 2023.

Website Developments and Accessibility

- Following the conclusion of the Cabinet Office accessibility audit of our websites in February 2022, further work is now underway on our own next-level accessibility testing from which we will begin the next phase in ensuring that we continue to achieve and maintain accessibility compliance standards. The aim of this work is to ensure the Council's websites are accessible for all Citizens. Discussions are also underway on options to upgrade the "Edinburgh Guarantee" website which helps support people of all ages and backgrounds easily access and progress in fair work, training or further education.
- The Council commissioned an accessibility audit by a third party during March 2023 and we will be working on an implementation plan for the findings of this.

People's Network

- We successfully upgraded the Peoples Network within libraries which provides members of the public with free and secure access to computers and the internet, and Wi-Fi connectivity for customers who wish to use their own devices. The scope of the project included replacing 184 desktops across 33 locations - consisting of 154 general devices and 30 OPACS devices locked down for catalogue searches.
- The upgrade also delivered new Wi-Fi print capabilities allowing members of the
 public to print from their own devices. Planning is now underway within libraries on
 a phased rollout of Wi-Fi print ensuring appropriate training and guidelines are in
 place prior to a wider communication to sign post members of the public to the new
 service

Analogue to Digital Programme

- In preparation for the BT OpenReach Public Switched Telephone Network (PSTN)
 decommissioning deadline in December 2025, work has started with Procurement
 and Directorates to raise awareness and ensure that they have plans in place to
 switch over any remaining analogue telephone or broadband circuits before that
 date.
- The Council is well positioned for this transition, as the main telephony system (Mitel) is now fully digitised however a significant number of legacy PSTN lines remain in place to support miscellaneous services such as alarm lines, building managements systems, and payment terminals, which will require to be replaced with digital alternatives.

AdvicePro

 We rolled out a new ICT system, AdvicePro, to assist the Council's Advice Services in supporting members of the public around aspects of welfare rights including income maximisation through welfare benefits, tax credits and grants, and to provide advice to help resolve personal debt.

Benefits Forms

 We are migrating and upgrading a number of Housing and Council Tax Benefit forms into the supplier cloud. The new forms offer a better customer experience with the introduction of intuitive screens which guides customers and offers advice as the customer completes the questions. The forms are also designed to present questions only relevant to the customers' particular circumstances.

Using data to drive improved outcomes

Business Intelligence

- Having successfully signed-off the final dashboards for the Confirm asset management system within Waste Services, which in conjunction with the Routesmart waste collection dashboards, completes delivery of the contractual elements of the Business Intelligence transformation programme, over January to March 2023 we completed work on new reports and dashboards for Homelessness services, and finalised the transition of business intelligence support and development capabilities over to Council teams.
- This represents the final stage of this programme of work which will be encapsulated in a project closure report.

Maintaining and enhancing core systems

Property ICT Programme

- We have a very busy schedule of ICT infrastructure projects to support the capital property programme including the installation of networks, Wi-Fi, telephony, printers, and other ICT equipment in new and refurbished buildings.
- Key projects which have recently completed include Castlebrae High School, Darroch Annex, Canaan Lane Primary, and Victoria Primary. Other building projects which are underway include Boroughmuir High School Extension, Currie High School and work associated with the ongoing nursery expansion programme.

Currency Programme

 Our currency programme is the ongoing process of understanding how functional an item of hardware or software is compared to the latest version. As part of our currency programme, we are working closely with our technology partner and business areas, to ensure that our IT applications and infrastructures remain aligned to supplier support cycles, run at peak performance, and capitalise on functionality and features offered through new product releases. Key currency programme activities underway include:

- We completed the upgrade of the AXIM construction management system for Roads Services
- We have upgraded the LACHS insurance claims system and are now investigating opportunities to move it into the supplier cloud
- We are upgrading the SWIFT Business Objects reporting platform.

Softphones

- Following a successful pilot in 2022, work is now underway to extend the
 deployment of softphones into key business areas. Softphones allow colleagues to
 use their PCs to make and receive calls using their Council landline numbers. This
 offers all the features typically reserved for traditional business phone systems like
 the ability to receive, place, and transfer calls, set up call waiting, reroute calls, and
 is particularly advantageous for staff who are home or hybrid working and require to
 be contacted directly via their office number.
- Information on softphones will be communicated more widely and a process is being put in place to manage softphone requests and allocations through the ICT portal.

Microsoft 365

- A number of significant Microsoft 365 technical, security and user-facing improvements have commenced or have been fully rolled out. These include:
 - Development of a release approach plan for release and support of further Teams and MS365 applications is nearing completion
 - Continued updates to the Teams application including seminars, breakout room support and improved presentation capabilities
 - Pilot rollouts of Power BI, Power Apps, Power Automate, Forms, Sway, Stream and Bookings to support our wider Data Strategy and Business Intelligence objectives.

Change Processes

- Over March to April last year, we ran a series of structured interviews with teams from both City of Edinburgh Council and CGI, to capture user feedback on the effectiveness of the current ICT change processes and ideas for improvement.
- In response to the review, further work is now underway to deliver a change improvement action plan which will set out a series of specific and measurable improvement tasks with clearly defined owners and timeframes.

Digital Working Groups

 We are continuing to work with Services across the Council to set up new working groups with our relationship managers to coordinate digital developments within their service areas and identify and drive forward new opportunities to harness

- technology to deliver service improvements, efficiencies, and underpin new ways of working.
- As part of our improved reach and relationship management, Digital Services has been working closely with services in both operational and strategic matters. A recent example was the short notice supply of loan devices to support an inspection in the HSCP and these devices have since been redeployed to support temporary social work staff across Children and Families.

Appendix 4 – Strategic Programme of Work (Plan)

	DIGITA	AL SERVICES - STRATEGIC PROGRAMM	E OF V	WORK	- MA	RCH 2	023												
				2022							202	3						2024	
Category	Project	Comment	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec Jan	Feb	Mar
Enhancing On-Line Offering	Customer Digital Engagement Programme	Rolling programme of Channel Shift / Customer Digital Enablement (CDE) projects																	///
Enhancing On-Line Offering	- CDE Repairs Direct	Integrated on line bookings for Housing repairs																	
Enhancing On-Line Offering	- CDE Reporting / Payment Forms	Rolling programme of reporting/payment form developments e.g. grit bins, school placements																	///
Enhancing On-Line Offering	Tenant Engagement Platform	Developing an automated solution for online engagement with social housing tenants									Time fi	rames T	вс						
Application Performance	NetApp SAN - File Storage	Upgrading File Storage Infrastructures to enhance system performance & improve support			Phase 1	- Applica	ations					Phase 2	2 - G Dri	ive Mig	ration - T	ime far	es TBC		
Driving Operational Efficiency	Housing-Annual Billing & Year End Closures	Annual billing processes																	
Driving Operational Efficiency	Revenues & Benefits-Annual Billing & Year End Closures	Annual billing processes																	
Driving Operational Efficiency	ERP Project	Oracle eBusiness suite upgrade, Accounts Receivable migration												Rollout	under n	eview			
Driving Operational Efficiency	Housing Asset Management - Phase 1	Housing stock asset & asbestos management system rollout																	
Driving Operational Efficiency	Regulatory Service -CX Project	Upgrade of legacy case management system with Civica CX product, Rollout plan TBC												Delive	ry and ro	llout da	tes under re	riew	
Driving Operational Efficiency	Total Mobile - Phase 3	Upgrades to the mobile Housing Repairs workforce application including changes to Voids and Gas repairs.																	
Driving Operational Efficiency	Smart Cities (SC) Programme																		
Driving Operational Efficiency	- SC - Empowered Learning	Empowering Learners through access to digital platforms & apps. Phased rollout over 2022.																	
Driving Operational Efficiency	- SC - City Operations Centre	Creating a smart city ops centre and ongoing rolling of smart bin and housing sensors.																	
Driving Operational Efficiency	Business Intelligence (BI)	Delivering a consolidated BI reporting service that provides performance dashboards & reports			Transiti	ion BI pro	ojects to		Council	driven -	rolling	progran	nme of	reporta	nd dashl	ooard de	velopments		
Driving Operational Efficiency	Hosted IDOX	Migration of Planning & Building Standards application into the IDOX Cloud (date tbc)								Dates	to be co	onfirmed	i						
Driving Operational Efficiency	Workforce 360 - Upgrade (timeframes TBC)	Upgrade of Revenues and Benefits W360 workflow system including cloud migration of document store																	
Driving Operational Efficiency	Mobysoft	Predictive analytic system to support rent payments																	
Driving Operational Efficiency	Rolling GIS / Mapping Programme	Including working with NSS and in-house GIS team to model of COVID-19 outbreaks.																	///
Driving Operational Efficiency	Community Transport Project	Project in planning at the moment - rollout schedule over 2023.									Delive	ry and ro	ollout d	ates un	der revie	w			

		DIGITAL SERVICES - STRATEGIC PROGRAMM		VOIN	- 1717		UZJ												
			2022					2023								20	24		
Category	Project	Comment	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec J	an Fe	b N
Enhancing On-Line Offering	Customer Digital Engagement Programme	Rolling programme of Channel Shift / Customer Digital Enablement (CDE) projects																	,
Enhancing On-Line Offering	- CDE Repairs Direct	Integrated on line bookings for Housing repairs																	
nhancing On-Line Offering	- CDE Reporting / Payment Forms	Rolling programme of reporting/payment form developments e.g. grit bins, school placements																	,
nhancing On-Line Offering	Tenant Engagement Platform	Developing an automated solution for online engagement with social housing tenants	:								Time fr	rames Ti	3C						T
Application Performance	NetApp SAN - File Storage	Upgrading File Storage Infrastructures to enhance system performance & improve support			Phase 1	L - Applica	ations					Phase 2	- G Dri	ve Migr	ation -	Time fa	res TBC		
Oriving Operational Efficiency	SWIFT Upgrade	Upgrade of SWIFT social care system - timescales and approach to be finalised									Dates t	to be co	nfirmed	I					
Oriving Operational Efficiency	iTrent Upgrade	HR and Payroll year-end upgrades and patches																	
Oriving Operational Efficiency	Rolling "Customer" Digital Developments	Rolling programme of Customer & Transactions system upgrades and development projects																	1
Oriving Operational Efficiency	Rolling " Place" ICT developments	Rolling programme of Place system upgrades and development projects																	,
Oriving Operational Efficiency	Mitel Telephony	Softphone pilot now completed.	Pilot Complete Phase Rolled of S		Softpho	ones ove	er 2023						,						
Oriving Operational Efficiency	LSCMI Upgrade	Migrating H&SC Level Service/Case Management Inventory to new Scottish Government service		Legacy S	Server S	hutdown													
Oriving Operational Efficiency	Ethitec - Urology	Extending the use of ATEC24 ELMS2 to help administer the provision of urology prescriptions							Go Live										
Oriving Operational Efficiency	Masterbill Upgrade	Upgrade of Masterbill cost analysis, and bills of quantities application within Housing Repairs						Go Live											
Jriving Operational Efficiency	Pest Control work scheduling and management system	Development of new Pest Control work scheduling and management system						Timefra	mes TB(c									
Providing Accessible Services	Website Development Programme	Rolling programme of website developments and accessibility improvements		ering rgh Site															,
Providing Accessible Services	Peoples Network Upgrade	Upgrade of Peoples Network in libraries providing free public access IT services																	
Providing Accessible Services	AdvicePro	Rollout of new Council Advice system to supporting members of the public																	
Maintaining / enhancing core systems	Analogue to Digital Programme	OpenReach PSTN decommissioning programme				Strateg	, Supplie	er Engage	ement, C	Communi	ications,	, Plannin	g, Migr	ations u	ıp to 20	25			,
Maintaining / enhancing core systems	Rolling Currency Programme	Server and database refresh and upgrade programme																	,
Maintaining / enhancing core systems	Rolling Cyber Security Programme	Information security projects policies, procedures, guidelines, and standards.																	,
Maintaining / enhancing core systems	Property ICT Programme	Rolling schedule of ICT infrastructure projects to support the capital property programme		* Darroo	h Anne	ĸ													,
ANNOTATIONS:																			
					Planned Activity Delivered Milestone Planned Milestone														
					Provi	sional Pla	nc												

Appendix 5 - Digital & Smart City Implementation Plan – Update as at 31st Match 2023

The table below sets out key deliverables and milestone delivery dates from our **Technology Roadmap** and will be updated quarterly.

Key deliverable	Delivered to date	Ongoing Improvements	June - Dec 2022 Completed	Sept – Dec 2022 Completed	2023	Beyond 2023
Core Technology & Platforms - Cloud Migration Strategy	Cloud Migration Strategy adopted Agreed IDOX and Mobile Social Care as Cloud migrations The control of the c	Commence development pilots and adoption plan Begin migration pilots			Phase 1 Continued cloud migration work Commence engagement and consultation with key stakeholders on benefits and opportunities of Cloud adoption	Review Strategy and update to reflect current technologies, security, and the Council's technology landscape Minimum on premise footprint
Core Technology & Platforms - Maximise Microsoft 365 capabilities	OneDrive, Teams, Outlook for the Web, Office.com and associated apps rolled out across Corporate Estate	Maximise potential of Microsoft365 to support Learning & Teaching operationally, delivery of curriculum, and strengthen wider community links	PowerBI, Power Automate, PowerApps, Bookings, Forms, Sway, Stream and SharePoint all in pilot.	Drive innovation further with adoption of additional M365 capabilities M365 remaining application release and support plan nearing completion providing a timeline for the remainder of M365 deliverables.	Maximise potential M365 for low code for Council- based innovation and development (Digital and power userbased) Commence development of "patterns" for low code use cases Exploit the potential of MS Teams for collaboration Sensitivity labelling pilot under review.	G: drive to Teams and SharePoint online migration Teams and SharePoint online lifecycle management (BAU) G: drive to Teams and SharePoint online lifecycle migration High results of the control of th
Core Technology & Platforms - Mobile/Flexible Working	Mobile/Flexible UYOD CEC managed devices migration to Intune Microsoft app adoption			Commence review of thin client delivery options	Windows Virtual Desktop pilot Windows 365 Cloud PC pilot VPN Review Mobile Homecare rostering solution for Social Work	New solution in place Virtual desktops an available option
Architecture	Governance framework developed, agreed, and implemented EA Principles and Directions agreed Ongoing High Level Design reviews New Shadow IT framework	Application Currency Review (ongoing)	Commence application consolidation (combined with Cloud Migration - ongoing) Smart Cities Commence development of Azure capability	Commence development of combined app database (CGI and the Council) Commence review of network services	Data used for modelling services through BI. Delivery of a consolidated application list & standardised toolset of strategic applications	Drive further efficiencies by streamlining application set
Governance	ICT technology Acceptable use policy implemented Digital and Smart City Strategy EADA – both enterprise architecture and design authority in place	Change Board Digital Strategy Group Improved departmental Digital Governance e.g., RM's engagement with departmental SLTs	Shadow IT review (complete)	Reflect national picture Review current open data provision Information Strategy	Governance Review GIS Strategy Website accessibility review Digital & Smart City Strategy Review	Strategy and Implementation Plan Reviews Open Data and BI Strategies

Technology Solution - Digital print & mail strategy The Council has already embarked on an ambitious strategy to become paperless.

Key deliverable	Delivered to date	Delivered to date	Delivered to date	Ongoing	2023	Beyond 2023
Digital print & mail (paperless) strategy Reducing our use of paper and print through the Print and Mail Programme.	"My letters" desktop sending of Royal Mail letters using online system. Digital Mail assistant – scanning of inbound mail to the Council direct to recipients e mail account Digital Scanner technology deployed to allow scanning of FOI's and legacy paperwork to digital archives Recycled Paper for copiers and envelopes introduced Reduced mailing vehicles and physical mail pickups by 85% contributing to carbon reduction targets Paper Form reduction planning started – evaluation of paper form printing underway at printing facility 5-year savings plan developed and submitted to further reduce MFD machines. New device deployment completed.	Deploy papercut software – centralising bulk printing Develop and communicate a Council wide print policy and framework – delayed and will be communicated in March in line with device role outs. communications being drafted as are new technology testing and training plans Start paper form usage reduction processes Reducing storage space for legacy and future documents Increase back scanning of archive to reduce storage footprint Continue to reduce incoming paper mail flow into the Council by identifying and eliminating these at process source.	Deploy Multi-Functional Devices to schools and corporate estate to a reduced footprint – started in January and delivered as planned. Introduce local printing and scanning hubs – Equipment ordered, and machines will be deployed – machines delayed due to global supply chain issues and are being prioritised for delivery. Introduce individual printing transparency and billing for MFD copier usage – on track. Identifying Lean and automation opportunities and developing and deploying them while promoting digital processes rather paper-based ones Start analysing machine usage over the network using new advanced reporting now available.	Reduce colour and black and white printing in line with Business Case. Reduce volumes of A3 printing Reduce transactional mailing volumes for all centralised mailings – using document composition tools and expertise Reduce number of deliveries from Paper and Stationery contract to Edinburgh sites from five per week to two per week. Reduce the management of 300,000 incoming I&B emails by introducing the Email Import Module for W360. Introduction of Papercut Job Ticketing for efficient job ordering and data transfer to the Print Unit. Identifying Lean and automation opportunities and developing and deploying them while promoting digital processes rather paper-based ones	Identifying Lean and automation opportunities and developing and deploying them while promoting digital processes rather paperbased ones Reduced energy consumption evident from using newer more efficient Multi-Functional Devices Further reduce MFD machines deployed in line with planned 5% year on year volume reductions.	 Look to reduce centralised printing facilities footprint in line with much more reduced demand where possible Business case the new MFD contract proposal – which is envisaged should be very light touch going forwards and plan for further savings. Contract tendering and award period should start mid-2023. Deploy scanning to SharePoint once SharePoint has been rolled out – TBC

Technology Solution - Customer Digital Engagement

Though the Customer Digital Engagement programme we will look to create a single view of our customers to better model and shape our services and provide more targeted support to those citizens who need it most.

Key deliverable	Delivered to date	Delivered to date	Delivered to Date	Delivered to date	2023	Beyond 2023
Customer Digital Engagement Move from traditional customer engagement routes to omnichannel, providing citizens with greater choice around how to transact and the 24/7 ability to pay, report or request public services.	Report/Request forms for: Litter, Road, Pavement, Streetlight, Pothole, Road Sign, Graffiti, Dog Fouling, Overhanging tree, bush or foliage problem, Grit Bin Requires Filling, Missed Bins (communal and individual)/ Communal Bin full or Overflowing, Request a Grit Bin, Recycling Bin or Box, Special Uplift/Bulky Waste, Assisted Bin collection, Garden Waste subscription Register for Garden Waste/ Garden waste change of details, View Account History/Transaction Change of Details, Set up Account/Create a Citizen Compliment, Suggestion or Complaint/, General Enquiry, Building Payment, Fixed Penalty Notice Payment, Sheltered Housing T.V. License Payment, ESRS - Shared Repairs, roadworks penalty notice, Pay us back - housing benefit, Pay your Council Tax or Business rates, Council rent, Non-emergency housing repairs, School Transport, Adult and Children Social Care Assessment forms, Covid related support and business grants, Submit and pay for licensing transactions, Report damp in Council owned homes, Apply for the Scottish Milk and Healthy Snack Scheme, School Registration, Apprentice Trainee, Religion and under 18 discounts for CTAX, RingGo refund, Report and Illegally Parked Vehicle, Low Income Housing Payments	Omni Channel — give customers choice of channels to transact with the council, maximising the proportion of digital transactions and reduce where possible face-to-face transactions Citizen centric — put citizens at the centre of what we do by engaging them in the design and delivery of services Digital by default — implement a digital approach to the delivery of services Mobile first — priority to ensuring that those services can be delivered through mobile technology	Improved housing repairs form to deliver benefit around the customer and agent journey ahead of the fully integrated transaction. Customer satisfaction survey development for form submission Contact forms for waste, streetlight and roads transactions	Fully integration of housing repairs process with the CRM Integration of communications platforms (Mitel, social media) with Verint CRM Consolidate Knowledge Base that can be surfaced through the CRM Upgrade of the CRM platform to latest version	To be confirmed - options include: Replace myGovScot single sign on platform with a fit for purpose solution that includes facility for business accounts Integration of Civica CX with Verint Integration of Civica EDM with Verint	Customer Digital Engagement programme - create a single view of our customer transactions to shape our services and provide targeted support where needed. This will use: UPRN & UCRN as key identifiers Provide single source of truth on the customer and the services they consume Enable personalised and localised services to be delivered Support pro-active grouping of services around user needs

Technology Solution - Data as an asset
Our data is an asset that is of value to the organisation and our partners that needs to be managed accordingly.

Key deliverable	Deliv	ered to date	Delivered to date	2023	Beyond 2023
Data as an asset Through better use of systems, we will ensure that our data is: Easier to identify and find Managed consistently across the organisation Transferrable into information to support our evidence-based decision making Support the work of our localities Stored once and defined by effective metadata and information governance framework/rules Structured to support a single view of the customer Subject to constant analysis and review cycle to ensure effectiveness data management and governance (IGU) Ensure our data is used and shared ethically Open data where possible and capable of exploiting Smart City Data Exploitable by AI in generating potential automations, additional intelligence, security heuristics etc	GIS Developments We worked with NHS National Services Scotland using our in-house Geographical Information Systems (GIS) capability to improve the data we have in modelling COVID-19 outbreaks and to assist in our response to this. This work is part of a wider data sharing project with NHS NSS and both Glasgow City Council and Aberdeen City Council. NHS Lothian is following the outputs of this work closely and we are sharing this with them Unification of property and street gazetteer data to enhance consistency and reliability of key address data used across the Council and shared nationally with the One Scotland Gazetteer.	Delivering a Business Intelligence platform to integrate and leverage software information assets, and to transform data into actionable insights that drive the Council's strategic and tactical business decisions We successfully signed-off the final dashboards for the Confirm asset management system within Waste Services, which in conjunction with the Routesmart waste collection dashboards, completes delivery of the contractual elements of the Business Intelligence transformation programme Business Intelligence dashboards for Waste Services now fully embedded into business as usual, supporting improved performance and customer service. Digital Services working with IGU to create Information Strategy CAG Quality Improvements: designed to further enhance currency and reliability of address information and increase frequency with which it is shared with national users, e.g., emergency services	Business Intelligence - further work underway to build new reports for HR and Homelessness services, and to develop a strategic plan to transition business intelligence support and development capabilities over to Council teams by March 2023. Microsoft "Power BI" pilots underway to explore the potential of the tool to support data- driven decision making and new ways to visualise and analyse data. Mobilisation of the Azure Data Warehouse to support the Smart City Operation centre, providing a holistic view of the city by utilising the latest technology to drive operational efficiencies, improve security and analyse trends Information Strategy and Implementation Plan underway	We will work with services to improve the tools that enable a Council-wide approach to business intelligence to enhance services and digital engagement with our customers and communities. Further adoption of Power BI for strategic reporting and analytics. Consolidation of legacy geospatial asset management systems onto the corporate GIS platform, to improve data sharing and systems interoperability. Further development of open data strategies and initiatives to publish information in a linkable and re-usable format with the aim to drive transformation and improvement through transparency and citizen/business participation. Approval of Information Strategy and Implementation Plan	We will highlight the benefits of sharing open data and its use to help model and shape our services and our city. Bl and GIS Strategies

Digital capabilities and services - Security

We will ensure that Council infrastructure is secure and resilient, and that continuity of services is maintained using appropriate technical measures to protect our network and the data we hold in our systems.

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Key deliverable	Delivered to date	Ongoing Improvements	Ongoing Improvements	Ongoing Improvements	2023	Beyond 2023
Security The security challenges we face are increasing and ever changing. As well as more documented attack routes such as virus or ransom ware, other challenges are emerging. Our increased use of multiple and remote devices creates a challenge to protecting this as our increased use of systems and who accesses them increases the attack surface for those wishing to compromise our security.	Follow National Cyber Security Centre (NCSC) current guidelines, including NCSC 10 steps to Cyber Security – ongoing every year Ensure compliance with Cyber Resilience Framework, PSN Improve cyber defences e.g., phishing Enhance password policy for Corporate Provide comprehensive security and awareness platform for all staff to detect, deter and defend against cyber threats - delivered through MetaCompliance Work with partners across the public sector through participation in the Cyber Security Information sharing partnership (CISP) and the Scottish Local Authority Information Security Group (SLAISG) Develop a comprehensive communication plan for cyber security Partnership with Scottish Business Resilience Centre Revised DPIA process for technical assurance Technical restrictions to block Webmail provision.	Follow NCSC guidelines Ensure compliance with Cyber Resilience Framework Improve cyber defences Completion of Implementation of all NCSC active cyber defence tools — implementation of DMARC/DKIM Enhance password policy for Learning & Teaching Support cloud first strategy by moving the onus on patching to vendor/contract - by moving services to the cloud Work with public sector partners through participation in the Cyber Security Information sharing partnership (CISP) and the Scottish Local Authority Information Security Group (SLAISG) -ongoing Maintain and develop cyber risk management framework — joint cyber risk register Update comms plan for cyber security	Ensure compliance with Cyber Resilience Framework Improve cyber defences Develop a comprehensive communication plan for cyber security — ongoing Improve cyber defences network access control as part of Network management audit Phishing simulations Maintain and develop cyber risk management framework — joint cyber risk register Audit Work Word towards implementation of MTA-STS PSN Certification Prep Blocking of auto forwarding out with Council Continued audit work — new audits and completion of existing actions	Ensure compliance with Cyber Resilience Framework Support the implementation of shadow IT framework Support cloud first strategy - move the onus on patching to vendor/contract - by moving to cloud implementation of all NCSC active cyber defence tools – Update comms plan for cyber security PSN Certification Maintain and developjoint cyber risk register NAC Project Meetings SOC Services Review Threat Intel review Tabletop Exercises Continued Drive in reduction of Vulnerabilities. L&T Pen Test Review and RAP New Security Suppliers review and appointment	Follow NCSC current guidelines Ensure compliance with Cyber Resilience Framework Continued delivery of security and awareness platform Work with public sector partners through participation in the Cyber Security Information sharing partnership (CISP) and the Scottish Local Authority Information Security Group (SLAISG) -ongoing Maintain and develop cyber risk management framework – joint cyber risk register Update comms plan for cyber security PSN Certification L&T Penetration Testing Audit Work Network Access Control across Corp and L&T Domains SOC Services Review Threat Intel reviews Tabletop Exercises Business Cases EGRESS Implementation	Continued compliance with NCSC guidelines and Cyber Resilience Framework Improve cyber defences Data loss prevention Implementation of NCSC active cyber defence tools Upgrade/remove legacy applications – support cloud first strategy adoption Continued delivery of security and awareness platform Work with public sector partners through participation in the Cyber Security Information sharing partnership (CISP) and the Scottish Local Authority Information Security Group (SLAISG) -ongoing Maintain and develop cyber risk management framework – joint cyber risk register Update comms plan for cyber security PSN Certification L&T Penetration Testing Threat Intel reviews Tabletop Exercises NAC

Digital capabilities and services – Standards

We plan to measure performance to improve our service both strategically and operationally using metrics to measure success.

We will focus on transforming our service provision to better meet the changing requirement of the organisation and a modern workforce. Using industry standard practices for IT service management that focuses on aligning IT services with the needs of business approach.

Key deliverable	Delivered to date	Ongoing limprovements	Ongoing improvements	2023	2023	Beyond 2023
Performance Management Measuring performance to continually drive improvements and customer satisfaction.	Monthly CSR meetings CSI (Continuing Service Improvement) discussed as part of CSR meeting	Incident response and resolution analyse to ensure meeting SLAs Customer satisfaction review Continue to progress innovation. E.g., Amelia RMs to set up meeting with Business areas re strategy	Review KPIs Look to improve service related to customer feedback Have trackers set up relating to Strategy with Business areas	Implement KPI changes Review Trackers	Reassess KPI changes impact Over-arching review of Business areas matching strategy Reviewing classification of incidents	 Annual review of Business areas Digital Strategies Clearer definition of incident priorities
Service Management Improve service management provision through delivery of continual improvements for users.	New Internal Service Desk (Halo) within Digital Services to improve interaction and service with colleagues Chat- bot Amelia has been piloted and roll out extended	Continual improvement of Service Catalogue Continue to Promote use of My-ICT	Continual Service Improvements Monitor uptake of My-ICT Ensure ITIL standards are being met Review Digital Services Customer facing processes Continued focus on CSI	Chat Bot embedded within Corporate Estate Work with Comms to promote channel shift online Implement Digital Service Customer facing review Outputs	Move to more online tools – self service Chat Bot embedded within L&T estate Review impact of Chat Bot and Internal Service Desk Complete new training to ensure ITIL standards are being met	Service Strategy Review

Digital capabilities and services - Standards

We will apply a blended approach to project change management which will bring together the best elements of the Prince2 and Agile methodologies. Change requests will be assessed and coordinated through a joint change review board. The board will check that requests have a supporting business case and align to our enterprise reference architectural principles and technology roadmap. The change process will include options to fast-track legislative and emergency requests.

Key deliverable	Delivered to date	Delivered to date	2023	Beyond 2023
Change Management Establish and embed improved change management processes that meet the needs of the Council for technology change requests and project and portfolio management.	 Weekly Programme Boards and Risk Reviews to ensure effective management of project risks and plans, and regular highlight reporting Application of PRINCE2 project management methodology for all major projects Quality Gate processes in place to evaluate, authorise, and monitor projects through their lifecycle Weekly Relationship Management meetings with CGI to provide guidance and quality check change requests Weekly Joint Change Review Board to review the progress of changes requests and discuss risks, escalations, and prioritisations Application of ITIL governance framework for ICT change management Formal reporting of Change Performance SLA's through the Monthly Partnership Board Launch of Emergency / Resilience Change Process to fast-track legislative and emergency requests Early adoption of Hybrid Agile / Waterfall models enabling more iterative approaches to project delivery Quarterly reporting of the Strategic Programme of Work to GRBV Emergency / Resilience Change Process fully operational Digital Working Groups established in key business areas to improve collaboration Migration of the complex change application process onto the new Halo self-service portal CEC Relationship Managers to attend Strategic meetings with Business areas to ensure any developments match the Digital strategy Developing systems and staff capability responsive to changing business needs: Change process to ensure that futureproofing is always considered in terms of system agility and staff capacities Review of RM Board attendance and outcomes 	been put in place. Cloud First – further developments to transition the next tranche of applications onto the Cloud	Annual refresh of Digital Business Plans with each Service area - ensuring alignment with the Digital and Smart City Strategy Extending in-house development capacity e.g., Business Intelligence and Website accessibility Cloud First – business case developments and projects to transition the next tranche of applications onto the Cloud / SaaS Model Establish a network of Digital Champions embedded within service areas Refresh of the change process guidelines and information on the Council Intranet Initiating a communications campaign to promote the change processes and help business users understand how to engage with both Digital Services and CGI, with new ideas, business cases and ICT change requests	Embedding Continuous Improvement into our change processes Cloud First - majority of applications move onto the cloud Agile Waterfall becomes the dominant delivery model - applying a more iterative approach focused on finetuning deliverables to the needs of the business Move towards a portfolio approach to digital programme management, in line with future business demand Programme of continuous improvement in change both within the Council and with CGI

Digital capabilities and services - Standards

Develop capability to be responsive to changing business needs. Embrace more agile and customer focused apps to support improved digital engagement with our

citizens. Key deliverable	Delivered	to date	2023	2023	Beyond 2023
rtoy donverable	Donvered	a to date	2020	2020	2020
Business Solutions As well as changes to our Infrastructure and the way we transform our business, we need to position our line of business systems to be an engine for change.	We successfully upgraded the Barclaycard online payment gateway across a range of customer facing applications including the contact centre CRM, the outdoor learning booking system, the planning and building standards portal, adult education booking and the Yakara mobile payment system. We upgraded the legacy Capture database in June 2022 which is primarily used to track and manage complaints. It also supports some contact centre transactions including housing repairs and Clarence requests related to items such as trees, parking meters, bus shelters and traffic signal queries Business Intelligence - we successfully closed this programme with final dashboards for the Confirm asset management system within Waste Services - which in conjunction with the Routesmart waste collection dashboards, completes delivery of the contractual elements of the Business Intelligence transformation programme Total Mobile (Housing Repairs and Mobile Working) – further developments completed to deliver a new mobile workforce management solution for Empty Homes and Gas Servicing and further enhancements to the Repairs	The Cabinet Office accessibility audit of our website successfully completed in February 2022, and further work is now underway on our own nextlevel accessibility testing from which we will begin the next phase in ensuring that we continue to achieve and maintain accessibility compliance standards. Currency Programme - we are working closely with our technology partner and business areas, to ensure that our IT applications and infrastructures remain aligned to supplier support cycles, run at peak performance, and capitalise on functionality and features offered through new product releases Property ICT Programme - we have a very busy schedule of ICT infrastructure projects to support the capital property programme including the installation of networks, Wi-Fi, telephony, printers, and other ICT equipment in new and refurbished buildings. Key projects which have recently completed include Castlebrae High School, Canaan Lane Primary, and Victoria Primary. Upgrade of the Peoples Network (PN) which provides members of the public with	Homecare - phased rollout of the new homecare rostering system starting in Autumn 2022. The system will drive efficiencies and support new ways of working to deliver the best quality of care, adopting a three conversations approach, and help support individuals live independently in their own home, offering the right care and support, at the right time and in the right place Websites – we are working closely with the Family Based Care team, to deliver a new "Foster with Edinburgh" website which will provide carers and prospective carers with information and advice on our Adoption and Fostering services, and a further development is in progress to upgrade the Edinburgh Guarantee website IDOX Cloud Migration - work is underway to transition key Planning and Building Standards systems onto "Software as a Service" running on the IDOX cloud Rollout of the cloud based Civica CX application to drive business improvements and transformation across Licencing, Trading Standards, Food Safety and Hygiene. The project is being delivered in phases with Phase 1 now underway to transition Licencing from the legacy	NetApp Sans – an upgrade to the Council's file storage infrastructure known as the "NetApp SAN". The NetApp SAN supports many of the Councils core applications including iTrent, Swift, iWorld Housing, and iWorld Revenues and Benefits, the programme will require careful planning and coordination with business teams, to support testing and ensure the upgrades have minimal impact on business operations Community Transport - introduction of a new transport system to support flexible and efficient scheduling and route planning - thereby reducing mileage, costs, and environmental impact. It will also allow drivers to receive real time route instructions on handheld devices in their vehicles which will replace the current outdated paper-based route allocation system. The system also provides an online portal for parents and carers to book and track journeys The ERP Programme - upgrade of the Council's core finance systems to support key activities such as accounting, procurement, debt	Relationship Managers to identify other opportunities Analogue to Digital Programme – work to decommission all analogue BT PSTN lines before December 2025 Programme – work to decommission all analogue BT PSTN lines before December 2025

archiving system • End User Device Refresh programme - we successfully completed the rollout of the ultra-high specification PC's for AutoCAD users within the Capital Projects Team and work also completed to upgrade Cashless Catering PC's within schools	free and secure access to computers and the internet within libraries, and Wi-Fi connectivity for customers who wish to use their own devices Transitioning business intelligence support and development capabilities over to Council teams by March 2023	system onto CX and planning for Phase 2 is in progress. Transitioning business intelligence support and development capabilities over to Council teams by March 2023	collection and supply chain operations Rationalising our portfolio to reduce datasets, costs and improve sharing of data Change process to always consider re-use ahead of off-the-shelf, ahead of bespoke and new. Update and review "Council on a Page" Enterprise Architecture to uncover potential for rationalisation Managers Embedded in Business area Strategic meetings Ensuring systems are fit for purpose: Departments to carry out audits of all their key systems	
			audits of all their key	

Governance A balanced governance model will provide flexibility with optimal discipline. Kev **Delivered to date** Delivered to date 2023 2023 Bevond 2023 deliverable A range of As part of our already established Weekly Programme and We will take forward: Review of shadow IT - procurement to Information Strategy governance Risk Review meetings we will: Strategy to CLT be managed under a new updated cloud and reviews tools will be • ensure that the key deliverables from this strategy are framework/system by Feb 22 and P&S cvber security Governance subject to the same governance arrangements to ensure put in place strategies Digital Maturity for strategy to provide effective management of project risks and plans, and Assessment clear ICT implementation assurance regular highlight reporting plans governance that the The Enterprise Architecture Board and Enterprise arrangements technologies Architecture Authority Design (EADA) have been re- participation in invigorated and are up and running to: national and implement, • ensure that we have an agreed baseline architecture regional and the • quide technology investment decisions - including funding programmes investments investments collaborative made to put review technology standards, processes, and procedures working with these in • make recommendations for the implementation plan and partners place, serve future technology strategies strategic alignment the strategic In addition to the Strategy implementation plan and its with Council goals aims of the reporting requirements to Corporate Leadership Team, we and vision Council, the will: opportunities for business establish a Smart Cities Board innovation needs of All proposed changes, projects and programmes will be Governance services and required to have: review are in line • an approved business case • Update of Digital & with this • funding available to implement and maintain the change Smart City Strategy. through lifetime of the proposed solution Strategy • Investment related to the individual projects or programmes and be provided by the Service responsible for the change We will set up: Change Board Digital Strategy Group • Improved departmental Digital Governance Joint Council/CGI Disaster Recovery Board due to be reestablished We will: Work with Internal Audit to review and assess the adequacy and effectiveness of the processes and governance controls established to support development, communication, and implementation of the Council's Digital and Smart City Strategy

Digital Council and Smart City - Digital Learning

To realise our vision, partners at both a national and local level will work together to achieve all four of the interrelated objectives that are central to successful digital learning, teaching and assessment:

- . Develop the skills and confidence of educators in the appropriate and effective use of digital technology to support learning and teaching
- Improve access to digital technology for all learners
- Ensure that digital technology is a central consideration in all areas of curriculum and assessment delivery
- Empower leaders of change to drive innovation and investment in digital technology for learning and teaching

Key deliverable	Delivered to date	Delivered to date	Delivered ro date	Delivered to date	2023	2023 and beyond
Digital Learning Supports and promotes the appropriate and effective use of digital technology within education to give all City of Edinburgh learners the opportunity to improve their educational outcomes and to develop digital skills that will be vital for life, learning and work in an increasingly digital world.	 Digital Learning and Teaching framework shared with all education staff Cross sectoral Digital Learning Board established Funding and agreement to embark on Empowered Learning project Key staff identified to create staff networks that will support Empowered Learning Engagement with educational staff networks, third parties, and council colleagues to create and populate Learning Management System (Thrive) Enhanced engagement of core platform MS365 to ensure continuity of resources, allow networking between settings and safe interactions with external partners. Introduction of core interactive multi-media curricular content platform (ClickView) Engagement with National E-Learning offer (eSgoil and West OS) as hosted on ClickView Empowered Learning project piloted at 1 Secondary school and 1 Primary school Promote engagement with Learning Management System (myLearningHub) Appointment of 3 Digital Learning Development Officers to support Digital Learning Coordinator network and the development of e-learning materials Infrastructure reviews conducted at each educational establishment (Early Years, Primary, Secondary and Special schools) 	Improvements to infrastructure made at each educational setting, starting 2021 and extending to Dec 2022. Digital Learning Coordinator networks engaged to support teaching staff, learners, and their wider school communities	Empowering school leaders Providing professional learning opportunities for staff and equity of access by embracing e-learning (DLC networks and myLearningHub) Deployment of 1 to 1 devices for all Secondary teaching staff and Learners (Build and Grow secondary students Aug '22.) Focus on STEAM subjects to prepare learners with a digital toolset for future life and work Creation of a dedicated AV and IoT network to enhance potential of AV equipment paired with staff and pupil device provision. Introduction of new print approaches. Rising rolls iPad stock increased iPads to support Ukrainian young people enrolling in schools. Increasing awareness of and confidence in using digital tools to support communication (Ukrainian language tools)	Deployment of 1 to 1 devices for all Early, Primary and Special teaching staff and for P6 & P7 learners Deployment of devices in a ratio of 1 to 5 for P1 – P5 learners Deployment of devices to Special and EY learners appropriate to those settings Professional learning opportunities for staff with equity of access by e-learning (DLC networks and Thrive) Edinburgh Learns curricular teams update curricular progressions and training opportunities Learning community engagement with Data Education. University of Edinburgh colleagues will support learning communities using sensors within the local environment and analyse the returned data. Students will develop a range of skills through inter-disciplinary engagement with data.	Developing our employees to be comfortable with the technologies we use to deliver service Providing and promoting e-learning to enhance digital skills Continuing professional learning opportunities for teaching staff Edinburgh Learns curricular groups to support evaluation of Empowered Learning identifying areas for further support and next steps	Review and refresh Empowered Learning provision

Digital Council and Smart City - Digital Skills

Consumer technology growth has created a new digital era. There is an increased need for consumers to develop their own digital literacy and cyber resilience skills to engage digitally with the Council and our customers must feel empowered to do so.

Key deliverable	Delivered to date	Sept 2021	Ongoing improvements	Ongoing improvements	2023	Beyond 2023
Digital Skills To be the Digital Council we aspire to be we will need different skills and knowledge. We will need: Council Leaders who understand the value technology brings to our organisation Leaders who develop digital skills to become digital leaders A digitally skilled workforce who engage with professional development to further develop and enhance digital skills Customers Citizens who feel confident in their digital skills and secure in their ability to promote their own cyber resilience Citizens who engage with Smart City and Digital Council initiatives providing feedback that helps to shape future improvements Schools and Lifelong learning Learners who engage with opportunities to develop their digital literacies Learners who develop their understanding of their own cyber resilience to be safe and secure when using digital tools. Learners who have digital skills for life, learning and work. Skills that will empower them to become the digital citizens and workforce of the future Teachers who utilize digital tools to support their working, develop high-quality teaching and effective assessment methods	Elected Member ICT and Digital Sounding Board meetings		We will do this by: Developing our employees to be comfortable with the technologies we use to deliver services Providing and promoting e-learning to enhance digital skills Recruit Get Online Volunteers to support the delivery of digital inclusion learning in our libraries Providing professional learning opportunities for staff and ensuring equity of access to such opportunities by embracing e-learning	 We will do this by: Provide and signpost a wide range of digital support tools and materials Provide adult learning opportunities using elearning opportunities Deliver digital inclusion learning opportunities for citizens via our libraries Designing services and support capabilities that deliver digital inclusion for all our citizens Embracing social media as a tool for engagement and communication both internally and externally We will do this by: Supporting schools and early years to access and deliver a 21st century educational experience Empowering school leaders to drive innovative changes within their setting Providing up to date infrastructure, hardware, and software to ensure learning to enable learning that provides the best future life chances for all learners Focusing on STEAM subjects to ensure learners are prepared with a digital toolset fit for future life and workspace Embracing our core platform MS365 to ensure continuity of resources, allow networking between settings and safe interactions with external partners 	Support Education Services as they review digital literacy and cyber resilience skills against participation and engagement, identify gaps and develop opportunities for further engaging and empowering customers and colleagues	Review digital literacy and cyber resilience skills against participation and engagement, identify gaps and develop opportunities for further engaging and empowering customers and colleagues

Digital Council and Smart City – Libraries Digital Inclusion

Digital inclusion is about ensuring the benefits of the internet and digital technologies are available to everyone. This is important not only to ensure that citizens can access Council services, but also to support the Council's central priorities of reducing poverty and improving well-being. Our aim is to provide our citizens with access to digital connectivity and that we can provide support for our citizens to gain digital skills and the confidence to use them.

Key deliverable	Delivered to date	Throughout 2022	Delivered and in business as usual	Delivered and in business as usual	2023	Beyond 2023
Digital inclusion We will: Ensure connectivity is available in our community spaces including libraries, schools, and early years settings Ensure citizens can access resources within our libraries Ensure citizens can access learning opportunities to further their digital skills and cyber resilience abilities	 In March 2020, at the start of the Covid-19 pandemic, we worked to provide our most vulnerable families with devices and connectivity Edinburgh Libraries provide various digital support offers for staff and customers to help improve digital skills and raise confidence with digital technology on a local level. Edinburgh Libraries provide a varied catalogue of digital resources and a wide range of virtual learning, entertainment, and support activities freely accessible to all library members 24/7. Edinburgh Libraries provide free access to pcs, internet and Wi-Fi for all customers, citizens, and visitors. 	Delivery of Empowered Learning which will Edinburgh Libraries continues to support SCVO in administering Connecting Scotland fund – shortleeting applications and distributing digital technology equipment and connectivity to local applicants. Initial pilot of SLIC Digital Training platform in Edinburgh Libraries – national platform designed to provide training and learning resources on selected digital activities and resources. Designed for public library staff to increase confidence and capability – aiming for 100% digital champion staff cohort. Edinburgh Libraries Get Online digital support delivered remotely over the telephone to combat technological barriers and physical barriers due to Covid19 building closures	Edinburgh Poverty Commission identified that action must be taken to address and ensure that digital participation opportunities are made available for those living with poverty. We will: • Support the delivery of measures set out in the Council's Our Future Council; Our Future Council; Our Future City plan to provide digital inclusion opportunities for our citizens. We will continue to identify opportunities, develop plans and work with partners to exploit and deliver these commitments throughout the lifespan of the strategy • Roll out of remote check-out and return via individual digital device and Edinburgh Libraries App — will allow customers to issue and return books and check their library account using their mobile phone.	Providing up to date infrastructure and hardware Get Online – volunteer led 1:1 support for all learners. Sessions informal and user-led underpinned by SCVO Digital Charter and Good Things Foundation's Learn My Way online modules & resources Get Online VIP - smart technology and e-resources offer accessibility functions which support and facilitate access for customers with sight loss and visual impairment. Identify staff training opportunities in Technology support for people with sight loss Refreshed People's Network - new hardware and software with updated features like wireless printing This provides free public access PC's and Wi-Fi connectivity. The upgrade has improved performance and resilience, and offers new services and future options to integrate customer hubs services into libraries. Provide an Online Public Access Catalogue (OPAC) in every library location Roll out of remote check-out via individual digital device and Edinburgh Libraries App — will allow customers to issue books and check their library account using their mobile phone	Open Plus technology - to enable access to library buildings and resources outside normal opening hours, with no staff onsite, by swipe card access. This would be for approved and inducted library customers – but available by application for all adult members (pending approval of infrastructure improvements) Self-service on the Edinburgh Libraries Appphase 2 – Library customers will be able to Return books via Library App. Online VIP sessions explore people's needs and provide the right support via small workshops	Replace desktops and software in all library locations Provide an Online Public Access Catalogue (OPAC) in every library location Upgrade of People's Network and potential for introduction of "tablet" technology Self-service kiosks New LMS (Libraries Management System) Review of digital connectivity infrastructure and development of plans to meet with current and future technologies

Digital Council and Smart City – Empowered Learning and Citizens Digital Inclusion

Digital inclusion is about ensuring the benefits of the internet and digital technologies are available to everyone. This is important not only to ensure that citizens can access Council services, but also to support the Council's central priorities of reducing poverty and improving well-being. Our aim is to provide our citizens with access to digital connectivity and that we can provide support for our citizens to gain digital skills and the confidence to use them.

Key deliverable	Delivered to date	Delivered to date	Ongoing	Ongoing	2023	Beyond 2023
Digital inclusion We will: Ensure connectivity is available in our community spaces including libraries, schools, and early years settings Ensure citizens can access resources within our libraries Ensure citizens can access learning opportunities to further their digital skills and cyber resilience abilities Ensure that digital literacies are embedded into all aspects of the curriculum Foster positive relationships between families and early years settings/schools allowing for support opportunities to be identified Provide equity of access to digital resources for all learners in schools Ensure that citizens on low incomes are involved in the design and development of digital services that matter to them Ensure super-fast broadband infrastructure is rolled out across the whole Council owned estates. This will provide benefits to tenants and the potential to support colleagues across the Council to work in a more mobile and efficient way. This will enable services across the Council, such as the Smart Cities project to develop their programme to reduce/eliminate the barrier of internet access. 2/3 of all council homes now connected to the CityFibre infrastructure. Working with partners CityFibre to enable FTTP (fibre to premises) infrastructure rollout across the City Working with 3rd sector partners to provide families with connectivity and devices as part of the SG Connecting Scotland programme.	In March 2020, at the start of the Covid-19 pandemic, we worked to provide our most vulnerable families with devices and connectivity Schools worked during lockdown to provide devices to pupils to enable remote learning Funding and agreement to embark on Empowered Learning project, Empowering Learners through access to digital platforms & apps Ensuring all our Council owned homes are connected to infrastructure to enable a fast and reliable broadband service and can support our colleagues across the Council to work in a more mobile and efficient way and meet tenant's needs. This could also enable services across the Council, such as the Smart Cities project to continue to develop their programme to reduce/eliminate the barrier of internet access. City of Edinburgh council is working in partnership with CityFibre and Openreach to enable FTTP (fibre to premises) infrastructure rollout across the City to provide super-fast fibre broadband infrastructure to all our council own homes. Through open networks, this infrastructure will prove our tenants with the ability to choose from over 600 different broadband providers, ensuring they have access to the best deals without any set up costs, to date 2/3homes have been connected so far	Delivery of Empowered Learning with over 44,000 devices to children and teachers across the city as well as enhanced Wi-Fi capability in schools. Both, training and roll out of this solution completed	Edinburgh Poverty Commission identified that action must be taken to address and ensure that digital participation opportunities are made available for those living with poverty. We will: • Support the delivery of measures set out in the Council; Our Future Council; Our Future City plan to provide digital inclusion opportunities for our citizens. We will continue to identify opportunities, develop plans and work with partners to exploit and deliver these commitments throughout the lifespan of the strategy • Continue to explore and develop digital connectivity opportunities for Council tenants. • We will continue to work with our partners to identify and develop opportunities for our digital infrastructure to improve connectivity,	Providing up to date infrastructure and hardware Get Online — As part of their Community Benefits commitments CGI will undertake work to improve digital inclusion and participation Continue to explore and develop digital connectivity opportunities for Council tenants. A follow up strategic planning meeting set for June 2022. Take forward opportunities to involve Council tenants in user groups to help inform the development and testing of new digital improvements to the Council's housing services, such as improved online reporting of repairs CityFibre and FTTP infrastructure work well underway, now reviewing options to utilise this infrastructure and settle on a final strategy.	Edinburgh Learns curricular groups to support evaluation of Empowered Learning identifying areas for further support and next steps Continue to explore and develop connectivity opportunities for Council tenants. Take forward opportunities to involve Council tenants in user groups to help inform the development and testing of new digital improvements to the Council's housing services, such as improved online reporting of repairs	Review and refresh Empowered Learning provision In planning to be confirmed: Review of digital connectivity infrastructure and development of plans to meet with current and future technologies CityFibre expect to have completed their build by the end of 2024

Digital Council and Smart City - Smart Cities

A smart city is an urban area that uses different types of Internet of Things (IoT) sensors to collect data then use insights gained from this to manage assets, resources, and services. Our vision for a smart city is the application of data and technology to increase efficiency, minimise costs and enhance convenience.

Key deliverable	Delivered to date	Ongoing work	Ongoing	Ongoing	2023	Beyond 2023
Smart Cities Our aim for Edinburgh is to: Make the city more liveable, workable, and sustainable Have world class connectivity Manage the city resources as effectively and intelligently as possible Deliver world-class citizen-centric city services Underpin a continuous process of reinvention, transformation, and creativity Support economic development and long-term prosperity Improve resilience Empower citizens to become Smart/Digital Citizens of the future. For Edinburgh this will include: connectivity – 5G and FTTP sensor technology, IoT, AI smart parking and EV charging wearable and mobile tech smart public transport city Wi-Fi smart energy health and social care smart citizens DDI conversational platforms GPS/GLONASS and location analytics greater citizen engagement	Approved proposation a fully integrated IoT Platform. Project delivery to commence in Q1 2022. Project Initiation Document Platform High Level Design Orders for bin and housing sensors	We will continue over the course of the Strategy to reshape our IT services and help to reshape the city with an approved plan for a fully integrated IoT Platform. This will enable Edinburgh to take advantage of the opportunities afforded by new and transformative technologies to become a digital Council and a world leading Smart City. Through our Customer Digital Engagement and Web programme, we will be: Digital by default – implement a digital approach to the delivery of services Citizen centric – put citizens at the centre of what we do by	The City of Edinburgh Council is developing an operations centre to support smart city services. This internet of things (IoT) platform will be able to incorporate artificial intelligence (AI), smart bin and housing sensors, upgraded CCTV and analytics technologies. This concept is underway and will be delivered over the course of the coming years in phases. Edinburgh's plan for a Smart City Operations Centre foundational platform and sensors benefitting from 8th City European Regional Development Fund support. The 8th City Programme is one of 3 workstreams delivered by the Scottish Cities Alliance, a partnership of Scotland's seven cities and the Scottish Government Engagement with all mobile operators/infrastructure providers to encourage improved connectivity.	By delivering our Digital Skills and Digital Inclusion commitments, we will: Provide and signpost a wide range of digital support tools and materials Provide adult learning opportunities using Deliver digital inclusion learning opportunities for citizens Design services and support capabilities that deliver digital inclusion for all our citizens Embrace social media as a tool for engagement Smart City Operations Centre work continues	By treating data as an asset, we will: • work with services to improve the tools that enable a Council-wide approach to business intelligence to enhance services and digital engagement with our customers and communities • Smart City Operations Centre work continues Ongoing projects to improve 4G/5G coverage through use of Council Assets to improve coverage.	 We will review our Smart City capability and create a portfolio of smart city projects that balances short-term versus long-term impact, risks, investment, and social value, and establishes key strategic outcomes. As part of the work of the board, we will: Develop a structured innovation management framework and innovation toolkit that builds on best practice from a broad range of relevant sectors Work with 3rd party telecoms providers to exploit the connectivity available to us Adopt and support the development of relevant Scottish UK and international Smart Cities actions and standards to build trust and confidence, ensure interoperability, and provide shared frameworks for city transformation plans Develop governance to ensure a well-integrated smart city approach and coordinated governance of critical elements associated with portfolio, data and information management, cybersecurity, procurement, ethics, and privacy Connect and share smart city knowledge, learning and assets Introduce incubator projects at low cost to pilot tech benefits to solve real world problems Smart City Operations Centre work continues Working with SFT/Infralink to encourage increased 4G/5G coverage across the City including working with our Planning team.

Digital Council and Smart City - Innovation
Innovation is about addressing problems in new and original ways that better meet the needs of customers.

Many developments in both the systems we use and in Smart Cities technology are experienced as innovation, having a disruptive impact on how services have previously been experienced or delivered; both positive and pegative

previously been experienced or delivered; both positive and negative.							
Key deliverable	Delivered to date	Delivered to date	Ongoing	Ongoing	2023	Beyond 2023	
 The Council sees two forms of innovation driving empowerment: un-proven: The first focuses on new 'unproven' technology, where the Council would be an early adopter proven: The second is the adoption of new, or re-use of existing, proven technologies by the Council. This approach will be supported through a business case approach. Both approaches will be supported as appropriate to the technology and the solution. 	Teams unified communications Team collaboration (on request) Mobile Device Management re-platform (Intune) Outlook Online BYOD Self-service password reset Our Shared Repairs service was a Challenge Sponsor in the Scottish Government's CivTech 4.0 Innovation Programme, supported by Digital Services Relationship Management. 2 Phases included the Tenement App and Case Management system. Phase 1 – Tenement App has been completed. Phase 2 – Case Management cloud-based system for tenement repairs led by the Council has been delivered and is in use.	OneDrive for Business Continue to use technology and innovation to assist in new ways of working	We will: Promote an understanding of new products, process, services, or technologies that are emerging in the market, both locally and globally as well as from SMEs and well-established providers Support an innovative culture across the Council Enable third parties to pitch innovative concepts to the Council following procurement guidelines Provide a structured mechanism for the Council to explore and manage its technology innovation portfolio Engage and consult key stakeholders on benefits and opportunities of Cloud adoption We will: Encourage cross-departmental re-use and sharing of systems/resources Continue to use technology and innovation to assist in new ways of working	Continue to explore and exploit innovation and collaboration opportunities through DDI (data driven innovation) Empowering school leaders to drive innovative changes within their setting Continue Cloud migration Continue to use technology and innovation to assist in new ways of working	Identify opportunities to Increase and drive automation Continue Cloud migration Continue to use technology and innovation to assist in new ways of working Review strategy and update to reflect current innovations, technologies, security, and the Council's technology landscape	Potential to drive innovation further with adoption of additional Microsoft 365 capabilities: • e.g., low code nocode (PowerApps and Flow) • migration of G drives to Teams/SharePoint and a range of other new 365 tools • Identify further innovation opportunities • Final Cloud migration strategy move • Continue to use technology and innovation to assist in new ways of working	

Digital Council and Smart City - Technology Sustainability
The City of Edinburgh Council has set an ambitious city-wide target to become carbon neutral by 2030.

Key deliverable	Delivered to date	Delivered to date	Ongoing	Ongoing	2023	Beyond 2023
Technology sustainability Digital Services and our delivery partners for technology and Smart Cities are committed to contributing to this carbon neutral target in several ways including reducing: • Energy use • Carbon emissions • The amount of waste generated • The effects of climate change	To date, we have: Reduced carbon emissions by implementing an automatic shutdown of PCs in pilot areas across the Council in the evenings and over weekends Installed multi-function devices to replace printers and copiers across the Council Chosen technology solutions with virtualisation of servers or cloud hosting where possible to promote better value, save energy and reduce heat output and comply with the European Code of Conduct for the operation of data centres energy efficiency Disposed of hardware responsibly and in accordance with the waste electrical and electronic equipment (WEEE) Directive and recycled equipment where possible Extended the lifecycle of PCs and other hardware assets to take advantage of both cost savings and reducing waste Implemented home/remote working solutions that reduce travel between sites and between home and work	Continue to collect and dispose of hardware responsibly and in accordance with the waste electrical and electronic equipment (WEEE) Directive and recycled equipment where possible when lifting of Covid restrictions allow Complete Win2K8 server decommission - reducing number of servers	Continue to collect and dispose of hardware responsibly and in accordance with the waste electrical and electronic equipment (WEEE) Directive and recycled equipment where possible when lifting of Covid restrictions allow Specific review of iPad and iPhone recycling	Review WAN Device review	Commence wider device review planning focusing on how we can make this more sustainable e.g., use of thin client (remote connection to central server rather than the reliance on local hard drive will mean less need for enhanced devices) Implement end user device shutdown regime to save energy and improve security	Support 2030 Climate Strategy where digital technology as an enabler can contribute CGI has committed to achieving net zero carbon emissions by 2030 with respect to carbon emissions The City of Edinburgh Council has committed to become a "net-zero" city by 2030. Digital Services will work with CGI to reduce CO2 emissions and achieve these sustainability goals through innovative energy solutions

Key deliverables that aren't viable for progression will be shown in the table below. There can be several reasons why this can happen, as technology is an enabler it may be that the technology to deliver these has changed significantly, or largescale business delivery review is undertaken which means a different technology approach is required. As part of our overarching principles, we will balance delivery, quality, best value, and scope. We will focus on ensuring the delivery of quality solutions that offer best value and meet requirements across the entire organisation. This table will be updated quarterly.

Strategic Theme	Key deliverable not initiated	Rationale

The updates contained within this Digital and Smart City Strategy Implementation Plan were compiled 31st March 2023