

8th City Update



ERDF 2014-20 Programme, Strategic Intervention: Scotland's 8th City - the Smart City

Issue 10: Q1 & Q2/2018

[January to June 2018]

The **8th City Update** newsletter is for 8th City Advisory Group members and programme partners. It offers an overview of recent programme activity plus links to Smart Cities strategy and funding and learning opportunities. The newsletter is produced on a Quarterly basis, with contributions welcomed from 8th City partners. For further information please contact: 8th_city_pmo@glasgow.gov.uk



8th City programme update: January to June 2018

8th City programme activity during the first half of 2018 had a focus on both delivery of 'Phase 1' projects and, in parallel, the development of new projects proposals for support via ERDF Phase 2 funding.

Phase 1 activity comprises 29 projects being delivered across all seven Scottish cities and ranged across nine themed ERDF Operations. Please see pages 2 to 5 of this newsletter for project overviews and updates.

To support 8th City Phase 1 programme activity meetings of the 8th City Advisory Group took place on February 21st (in Stirling) and May 23rd (in Dundee). These meetings also provided opportunities for cities to further develop discuss the broad range of project proposals for Phase 2 of the 8th City programme. These proposals were initially shared with programme partners during Autumn 2017 and subsequently reviewed and assessed for inclusion in the Phase 2 ERDF Operation applications submitted to, and subsequently approved, at the Managing Authority Approval Panel (MAAP) which met on 27th June. Subject to approval and sign-off by the relevant Scottish Minister (Ivan McKee MSP) further information will be made publicly available on the projects being delivered in Phase 2 of the 8th City programme. This is scheduled to run from January 2019 to September 2022.

During March 2018 the 8th City Programme Management Office (PMO) undertook project monitoring visits to the following cities: Aberdeen, Dundee, Glasgow, Inverness, Perth, and Stirling - with a further visit scheduled to Edinburgh. These monitoring visits were intended as opportunities for cities to provide comprehensive updates on projects, and to jointly discuss with the 8th City PMO any issues relating to timescales, budgets, emerging issues, and lessons learnt. The visits also provided an opportunity to review the governance, management and compliance arrangements in place to support project delivery.

Overall, city partners were able to provide positive and constructive feedback on project development and delivery and this was duly reported back to the Managing Authority portfolio managers.

Thanks again to all programme partners and members of the 8th City Advisory Group for ongoing work to deliver Phase 1 activity and for contributions to the development of Phase 2 of the 8th City programme.

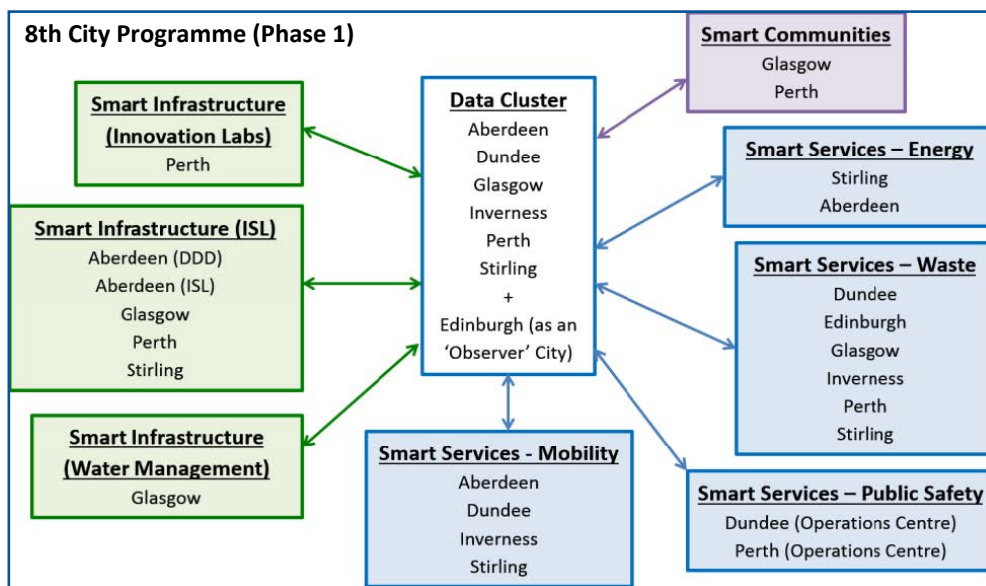
8th City Programme Management Office | 8th_city_pmo@glasgow.gov.uk

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8th City programme (Phase 1) - Project Updates: Jan—Jun 2018

Phase 1 of the 8th City programme runs until December 2019 - having commenced in late 2015 with the approval of the Strategic Intervention (SI) application, submitted in March 2015 - and involves all seven Scottish cities and 29 separate projects clustered across nine ERDF Operations.

The programme's aim is to expand Smart City capabilities and deliver city priorities through improved community engagement, integration of service delivery and innovation. The schematic below shows the various city projects contributing to each ERDF Operation.



Activity across these Operations and projects during the first half of 2018 includes the following:

Data: The Data Operation (or 'Cluster') is being delivered on a collaborative basis via four work packages - **WP1:** Data Standards; **WP2:** Open Data Platforms; **WP3:** Data Analytics; and **WP4:** Community Capacity Building. Each work package is led by a city and the overall Operation is coordinated by the Data Cluster Steering Group.

Project activity and progress during recent months includes:

- Following a process of review, Aberdeen's continued involvement in the Data Operation was confirmed.
- Work is underway to recruit a Data Cluster Project Manager, with appointment anticipated during Quarter 3 of 2018. ERDF Phase 2 funding has been secured for this, matched by City Investment Fund.
- Good links developed re data sharing with Scottish Government and NHS Scotland.
- On behalf of 8th City programme, Stirling provided input to Law Society Scotland event, Edinburgh, on 6th June. Focus was on 'Open Source data and future connected cities in Scotland'.
- 8th City Data input to Data Lab Innovation Week, 4 – 6 June, Glasgow.
- Open data platforms for Dundee, Inverness, and Perth were launched at MIPIM 2018 (the 'world's leading property market'). This included SCA-led sharing event promoting 8th City open data activity. Photo (right) shows Serge Merone, Investment Manager at Perth & Kinross Council, announcing the launch of the data platforms.
- Open data platform for Stirling is now procured and should be ready for launch in Q3 2018.
- Aberdeen open data platform scheduled to be complete by the end of 2018.
- The Data Cluster Steering Group met four times during this period (January, March, April, and June).



8th City Programme (Phase 1) update: January to June 2018 - *Continued*

Smart Services – Energy:

This Operation includes projects in Aberdeen and Stirling.

Aberdeen – Following the PMO monitoring visit in March, it was noted that Aberdeen would undertake further work to finalise project scope, define requirements and outline the procurement route.

Stirling – This project is to develop a smart energy communication system within 30 Stirling Council buildings to monitor energy consumption. Good progress continues to be made, with overall completion at 35% and activity on track for completion by mid-2019. This project has the potential to generate significant benefits to the Council in terms of reduced energy consumption and costs. Project lead for Smart Energy Stirling has produced a Case Study on for sharing with 8th City partners and stakeholders.

Smart Services – Mobility:

This Operation seeks to create an integrated and replicable framework of solutions to open up data and deliver innovative services to make shared mobility cost effective and convenient, providing a sustainable alternative to private transport. It aims, through this, to encourage a modal shift to low carbon travel, reducing carbon emissions and making the cities more sustainable. Aberdeen, Dundee, Inverness, and Stirling are delivering projects for this Operation.

Aberdeen: this project seeks to maximise use of Car Club vehicles by Aberdeen City Council staff. This will be done by creating a 'bolt-on' to the existing operating system for vehicle bookings – thus allowing secondary use of vehicles which are already booked but not in active use (for example when vehicle users attend meetings). In delivering this project, lead officer identified a potential issue relating to Intellectual Property Rights (IPR) which has required guidance from Managing Authority; the project timescale has been extended to June 2019.

Dundee: Procurement / tender process extended – contracts now to complete in May. Extensive stakeholder engagement (internal and external plus social media) as well as opportunities for information sharing via the Open and Agile Smart Cities (OASC) mobility group and inputs to DataFest 2018, etc.

Inverness is working on a scalable and flexible wireless mesh infrastructure to form the backbone for future digital city services - and, in particular, for Intelligent Transport Systems (ITS). Improvements are also being made to software and infrastructure to enable communication of live information across different transport modes. Recent progress includes: ITT spec for Real Time Passenger Information (RTPI) and Mesh almost complete; Smart Bus stops fully installed and operational – and a case study has been prepared on this component.

Stirling: This project aims to deliver an effective and efficient monitoring network incorporating vehicle Movement Information Platform (monitoring network) now scheduled for August install.

Smart Services – Public Safety / Operations Centres:

This Operation uses smart technology to enhance the capability of both Dundee and Perth in managing public safety (in public spaces, public buildings, council-owned residential multi-storey blocks, community alarm services, and out-of-hours emergency services) and urban traffic operations.

Dundee - Work ongoing on development of: new 24/7 Safety and Alarm Response Centre (SARC); data analytics from Public Space CCTV cameras; datasets from two new integrated software systems; and creation of an IP (internet protocol) network to securely distribute images between Dundee's three Operations Centres. The overall focus is on 'Smart City' management. Recent activity includes: Software training and testing commenced (system live 2nd May); SARC fit out progressing.

Perth project will enhance safety cameras, urban traffic management systems, and integration of community alarm centre - creating City Operations Centre to support city management. Technical specification now complete.

8th City Programme Phase 1 update: January to June 2018 - *Continued*

Smart Services – Waste:

Dundee, Edinburgh, Glasgow, Inverness, Perth, and Stirling are delivering projects for this Operation, which supports collaboration to improve and enhance delivery of waste management services. Project activity in recent months has included:

Dundee – Smart Street Scene will deploy a mix of smart technology and data sharing processes through sensors in bins, solar powered compactor bins, street sweeper vehicles and operator handsets. Bin sensors were installed during May (with positive newspaper article); awaiting delivery of electric vacuum machines and solar compactor bins; project approach outlined in 8th City case study, produced for sharing.

Edinburgh seeks to expand litter bin sensor technology following on from initial trial. Project officer recruited in June and work is ongoing to update Project Initiation Documentation (PID).

Glasgow is delivering a one-year demonstrator project involving smart bin technology. The roll out of new litter bins and sensors in pilot areas is almost complete. Recent activity includes work with sensor manufacturer to support training of staff and configuration of sensors to enable data collection.

Inverness Smart Waste project utilises route optimisation software to enable The Highland Council to progress an intelligent, data-driven approach to waste collection. The tender documentation is currently being finalised for Route Optimisation software and associated ICT equipment.

Perth is deploying smart technology in the waste management process to enhance collection of waste and recycling through improved monitoring and sharing of data and information. Project also involves integration of FlyMapper phone application with Perth & Kinross Council's Total Mobile solution to record fly-tipping incidents and contribute to a national database. Deployment of sensors has been subject to change due to specification issues; FlyMapper tested late May.

Stirling is implementing 30 smart litter bins in city centre. These are now installed and data is being monitored.

Smart Communities – Mobile Working:

Glasgow and Perth are working on projects for this Operation.

Glasgow has created a mobile working programme, adopting a new approach that uses front-end delivery apps fully integrated into existing business systems – with the aim to be innovative and to deploy quickly and safely. Projects are progressing well, with the Environmental Task Force app going live in February and work ongoing to capture lessons learned. Project leads have also produced a Business Engagement Toolkit (see article on page X) and organised expo events to showcase project developments with other cities. The Glasgow Bulk Waste Collection App, also developed with ERDF support, was a winner at the Holyrood Connect ICT Awards in June.

Perth - Project is progressing well as evidenced at the recent Monitoring Visit by the PMO in March. The visualisations, which demonstrate the benefits that the mobile working approach can deliver, are impressive – the information presented in these leaflets provided a strong justification for why local authorities should be adopting mobile working practices. Internal and external stakeholder engagement exercises are being carried out on a regular basis. Perth hosted a Mobile Working event on May 10th to share knowledge, lessons learned and approaches to benefits realisation.

Smart Infrastructure – Innovation Hubs:

Perth is delivering a project for this Operation.

This project is linked to a wider development (managed by WASPS) which will provide artist studios and creative work space in Perth. A temporary space has been launched with the first pieces of equipment in use; procurement process continues for other equipment.

8th City Programme Phase 1 update: January to June 2018 - *Continued*

Smart Infrastructure – Intelligent Street Lighting (ISL)

Intelligent Street lighting (ISL) refers to public street lighting that adapts to movement by pedestrians, cyclists and cars - dimming when no activity is detected, and brightens when movement is detected. Use of LED lighting and Central Management System (CMS) further enhances low carbon and energy efficiency aspects of ISL.

This Operation incorporates projects in Aberdeen, Glasgow, Perth, and Stirling.

Aberdeen has two projects in this Operation; ISL and Digital Data Deployment (DDD) a project using sensors on strategic transport routes. The Aberdeen ISL project is ongoing, with roll-out of LED lanterns, and finalisation of plans for publication of tender for ISL Central Management System (CMS).

The Aberdeen DDD project is being delivered in two phases, with phase 1a completed and Phase 1b activities ongoing, with configuration, data collation and data analytics work from May 2018.

Glasgow has selected a preferred supplier and a contract agreed to allow the design phase to be progressed. Pre-start meetings have been held with the ISL and CMS suppliers. Potential for deployment delay due to the 2018 European Championships in August.

Perth - contract award letter issued February 2018 and contract started on 1st March. Pre-start meetings held and staff training completed on use of new system. Deployment commenced 30th April 2018. Full installation and commissioning due by December 2018.

Stirling - project specifications and technical documentation almost complete (although there is potential amendment to project scope). Procurement process delayed from Q1/2018.

Smart Infrastructure – Water Management

Glasgow is delivering a project for this Operation.

This project has two components: the development of smart systems to manage in real time the surface level of the Glasgow branch of the Forth & Clyde Canal including responding to weather conditions, in particular storm forecasts; and the deployment of cameras and sensors to provide early warning of blockages during storms to enable responses to mitigate the impact of flooding.

To support this a Drainage Partnership Agreement between Scottish Canals and Scottish Water has been finalised and signed. The deadline for project completion is now June 2019.

8th City programme partners — Hellos and Cheerios

Recent changes to staff and partners working on the 8th City programme include:

Hello and welcome to:

Frazer Smith, (*Interim*) *Open Data Coordinator*, Perth & Kinross Council; Erica Manfroi, *Operational Support Officer*, Waste and Cleansing Services, City of Edinburgh Council; Alan McKinnie, Smart Waste project, Inverness; Steve McDermott, Smart Waste project, Inverness.

Cheerio and thanks to:

Gordon Wright, Smart Energy project, Aberdeen; Georgia Carr, Open Data project, Dundee; Andrew Kesterton, Open Data project, Dundee; Gemma Cassells, City of Edinburgh Council - (secondment to City Deal Office, University of Edinburgh); Andrew McKay, *Project Officer*, Smart Mobility project, Inverness; Jenny Marshall, *Open Data Project Assistant*, Open Data project, Stirling Council.

Please let us know of any changes to 8th City project teams; apologies to anyone omitted from this list!

Cities News: Jan—June 2018

Smart Communities - Glasgow Mobile Working

Along with Perth, Glasgow is delivering a Mobile Working project as part of the Smart Communities Phase 1 ERDF Operation. Project officers have sought to engage extensively with stakeholders across Glasgow City Council and the 8th City programme - via information sessions, workshops, expo events, and case studies and blogs.

Much of the learning arising from this activity has now been captured in a Business Engagement Toolkit, produced in March and subsequently presented to Council Management Team in May. The Toolkit seeks to:

- Provide information to help services understand the support that the business engagement (BE) team can provide in mobile working projects;
- Explain the five key elements that forms the BE support model; and
- Provide a source of reference for effective business engagement across any project

For further information please contact:

Angela Gilmour, Smart Communities mobile programme, Glasgow City Council, e: Angela.Gilmour@Glasgow.Gov.uk | t: 0141 287 9674



Inverness Smart Mobility project

The Highland Council (THC) and HITRANS have recently completed the first component of their joint Smart Mobility project, part funded via 8th City / ERDF: The installation of NFC and QR code-enabled bus stop poles, which allow bus users to scan a bespoke placard at any bus stop, or send a text message to the number provided on the same placard, and be taken to a website which will provide them with live bus arrival times at their stop. Around half of the bus stops in the city have been fitted with these placards, with a view to covering the whole city at a later date.

Bus timetables, provided by THC and situated in a casing at each stop may be impacted by unforeseeable variations in traffic, weather etc. This means that buses do not arrive at the times given. In addition, the local bus provider can often change their timetable more regularly than new bus timetables can be provided, meaning timetables can be out of date, causing further confusion for passengers. These NFC/QR-enabled plaques provide bus users with a method of finding out precisely when their next bus will arrive. In addition to this, the plaques will also provide a valuable data stream for both THC and HITRANS – usage rates of the plaques are recorded, allowing for better information on bus stop usage throughout the city.

Brian Robertson, Smart Cities Coordinator, The Highland Council | Brian.Robertson@highland.gov.uk

Stirling Council / 8th City Data Cluster input to Law Society of Scotland seminar on new technology and data driven innovative industries

In June 2018, the presentation to members of the Law Society of Scotland by Jim Tonner, Stirling Council, on Scotland's 8th City and the Open Data Cluster Programme provided an opportunity to address a wider audience, comprising representatives from a range of public and private sector organisations, which has limited knowledge of open data and its potential to sponsor transparency and stimulate innovation.



From discussions with individual delegates, it was clear that there was a real interest in what we are trying to achieve and there is a genuine appetite for more information on the Alliance's and participating councils' on-going activities and outcomes.

Involvement in this event has contributed significantly to Stirling's external engagement experience. More specifically, the lessons learned have highlighted the need for advocating data literacy and promoting it as a long-term programme and project outcome, a combination of ideas endorsed by internal and internal stakeholders.

Jim Tonner, Open Data Project Officer, Stirling Council | tonnerj@stirling.gov.uk

8th City Programme—Performance Measurement Framework

The 8th City programme, or Strategic Intervention (SI), is a collection of data and digital technology projects across all seven Scottish cities. By working together 8th City partners aim to expand Smart city capabilities and deliver city priorities through innovation, integration of service delivery, and improved community engagement.

Subsequent to the final approval of the SI application in autumn 2015, and the subsequent development of 29 smart city projects, activity across the 8th City programme has been directed towards the following output indicator targets:

Indicator	Target	Measure	Definition / Evidence*
Innovative Services in Cities	20 (17 LUPS; 3 H&I)	Whole number	Innovative Services defined as services which tackle all scientific, technological, organisational, financial and commercial steps which actually, or are intended to, lead to the implementation of innovative activities. Some of these are themselves innovative, others are not novel activities but are necessary for the implementation of innovations. Innovation activities also include Research and Development that is not directly related to the development of a specific innovation.
Data sets opened for innovation	150 (135 LUPS; 15 H&I)	Data set (whole number)	Number of datasets made publicly available to make more effective use of these assets to secure better outcomes. They might invest in system-wide data capture, integration and analytics capabilities. Investments could include open, flexible, integrated and scalable ICT architectures that enable accelerated service innovation.

**Taken from Operational Programme guidance (2014)*

Consultation with representatives of Scottish cities during the development of the SI application in early 2015 also led to agreement to include an additional non-Operational Programme output indicator relating to citizen and stakeholder engagement; this has the target that projects incorporate pre-, during and post-project stakeholder engagement activity.

Further development work across 8th City partners also emphasised the importance of a collaborative approach to the 8th City programme and that projects should be open, scalable, replicable, and interoperable.

Work undertaken by the Managing Authority (MA), circa 2017, to update the European Structural Funds web pages included a summary and listing of the 8th city programme's strategic aims, noting that [The Smart City SI](#) is funded to:

- use new technologies and data to improve sustainability, resilience and service efficiency across Scottish cities;
- deliver priorities through innovation, integration of service delivery and improved community engagement;
- address urban challenges, including issues such as air quality, energy use in buildings, transport, light and waste;
- develop data platforms to develop other 'data driven' solutions to respond to specific challenges facing cities.

Unlike other Strategic Interventions, the 8th city programme doesn't have prescribed or pre-determined outcomes to be achieved. In lieu of outcomes being defined at a programme level, discussions between the Managing Authority and the PMO in 2016 identified the need to focus on benefits realisation across all projects.

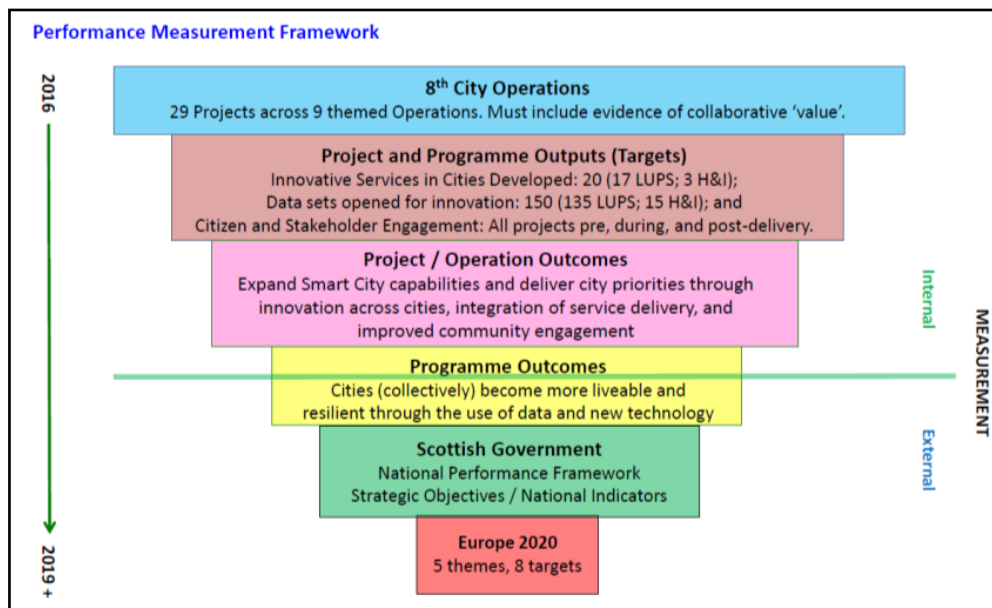
To support this a benefits realisation strategy was developed by the PMO and presented to the 8th City Advisory Group meeting of November 2016. This included a template for project leads to use in defining and recording their own benefits realisation management activity. The Benefits Realisation Strategy was approved for cities to use and was also considered and noted at the MAAP meeting in November 2016.

In support of work on outputs, outcomes and benefits realisation, the PMO drafted a Performance Measurement Framework - see schematic on next page.

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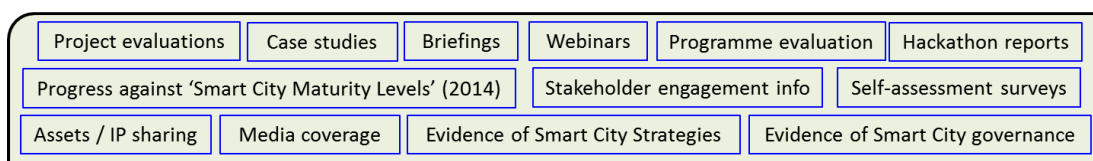
The 8th City Performance Measurement Framework, shown below, seeks to show, as a simple schematic, the relationship between project outputs, programme outcomes, and their contribution towards Scottish government strategic objectives and Europe 2020 targets.



Performance against output indicator targets (as well as updates on project delivery and financial reports) is noted via project status reports submitted by project leads on a monthly basis.

Monitoring of progress against anticipated outcomes is informed by both the benefits realisation plan and the stakeholder engagement action plan for each project. The monthly project status report also includes a section on project outcomes and benefits (incorporating the Horizontal Themes to be addressed via projects supported by European Structural Funds). The Programme Assurance Framework for the 8th City programme includes information and guidance on all of these documents.

The approach to performance measurement, benefits realisation, and stakeholder engagement is to be applied consistently across the 8th city programme: however, it is also recognised that the 29 projects currently being delivered during Phase 1 may take different routes to sourcing information and evidence to when reporting on progress. See below for examples:



For more information on the 8th City Performance Measurement Framework please contact Stephen Birrell at the 8th City PMO. **e: stephen.birrell@glasgow.gov.uk | t: 0141 287 8645.**

8th City project case studies

One of the ways in which 8th City projects can show evidence of progress and share 'process' information with partners and stakeholders is via case studies and blogs. These can be produced at any stage of project delivery, not just as a summary of activity post-project completion. Case studies are a useful way to highlight a particular aspect of a project, and could include information about challenges and obstacles along with actions in response.

All 8th City projects will deliver case studies on an ongoing basis, with information already produced for the following projects: Joint procurement of open data platforms; Dundee Smart Waste; Glasgow Mobile Working; Inverness Smart Mobility (NFC/QR bus stops); Smart Energy Stirling; as well as all city involvement in the Open Data Operation and the wider 8th City programme. Case studies will be published via the SCA website and blog page, the Improvement Service's 'Innovation Exchange', as well as international Smart City portals and websites.

See page 9 for the **Smart Energy Stirling** case study.

8th City Case Study: Smart Energy Stirling

The **Smart Energy Stirling** project is being delivered as one of 29 projects in Phase 1 of the 8th City ERDF Strategic Intervention, an ambitious programme of collaborative innovation across Scotland's cities. The programme aims to expand Smart City capabilities and deliver city priorities through improved community engagement, integration of service delivery and innovation. The programme is funded via European Regional Development Fund (ERDF) grant enhanced by Scottish cities and Cities Investment Fund match to create a £24.1M programme of Smart City projects.

The Smart Energy Stirling project aims to address energy consumption use via an Integrated Smart Energy Management System to monitor energy consumption across 30 Council's buildings with the highest energy use.

This new system integrates all the Council's energy monitoring systems into one platform; The Energy Hub. This provides near real-time information and monitors and reviews peak energy use, adjusting room temperature through a central control system. Energy data gathered will require detailed analysis to monitor building energy use and to identify opportunities where energy efficiency and reductions in energy consumption can be made. In addition, the dial-up systems are being changed to wireless connections to improve connectivity speed.

The main aim to develop a smart energy management system is to reduce both energy bills and CO₂ emissions.

The Challenge: Prior to this project, Stirling Council's energy management systems were on different platforms. Energy monitoring was retrospective due to dependency was on monthly reports or historic comparisons, so identifying and dealing with problems as they occurred proved challenging.

Intended Outcomes: This project will assist Stirling Council achieve its key Sustainable Development priority to reduce carbon emissions through reduced energy use, improved energy efficiency, and by changing attitudes and behaviours towards energy consumption through a clearer understanding of energy used across Stirling.

These changed behaviours will help the Council to deliver a more challenging energy reduction target; up from 6% to a 10% reduction in annual energy use and costs. Improved energy efficiency within Council public buildings using smart technology will create a flexible, efficient, demand-responsive energy system.

Action/Approach Taken: In support of the Council's Sustainable Development Strategy and Energy Policy to reduce carbon emissions, energy bills and fuel poverty across the area, comprehensive audits of public buildings were carried out and the highest energy consuming properties identified. The audits considered the location of each of these facilities with regard to IT infrastructure and remote energy monitoring systems. In addition, consultations also took place with organisations and cities - who had, or were in the process of, delivering similar Smart City projects - to share knowledge and lessons on project delivery.

Once this information was gathered, bespoke solutions for each facility were designed to bring them up to desired standard. This will help monitor energy use and identify appropriate actions, whether that be retro-fitting or introducing energy efficiency measures across Council buildings, to reduce energy consumption.

Obstacles and Issues: Accessing funding has been an issue. As the project developed, additional components deemed critical for successful project delivery were identified. This increased the initial project scope and consequently project cost. However, as the project was ERDF and match funded, restrictions on eligible match funding meant the project scope had to be reviewed.

Results: The project is due to complete in June 2019. Delivery will support Council aims to meet an increased target of 10% reduction in annual energy usage and costs, which is an increase on the current target of 6% reduction.

Lessons Learned:

- **Procurement Timescale:** Need for realistic timescales to build consensus regarding the procurement strategy.
- **Cost estimation:** Best practice approaches for costing different aspects of the project, including additional hardware and labour costs required for prompt delivery, were identified.
- **Funding:** A clearer understanding at the outset of eligible ERDF capital/revenue expenditure costs. Also, understanding the process and criteria for claiming ERDF funding.

Next Steps: Stirling Council will evaluate data generated by the Energy Hub against objectives to develop baseline for monitoring. Targets will be set in response to information collected and trends identified, while awareness of reduced energy use through behaviour change will be promoted to Council employees and stakeholders. It is intended to migrate all Council public buildings onto this platform to improve accessibility and monitoring of energy use.

Tim Ugwu, Energy Monitoring Officer, Stirling Smart Cities Project | ugwut@stirling.gov.uk

8th City Knowledge Hub (Khub) Groups



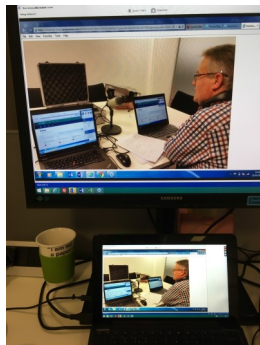
8th City programme partners are active users of Knowledge Hub (Khub) digital collaboration groups. This aligns well with one of the five Pathfinder Programmes outlined in the **Smart Cities Scotland Blueprint** (2016), relating to the utilisation of a 'Smart Cities Sharing & Learning Platform' for cities and partners to freely exchange information, combine resources and track emerging projects, funding and solutions. See www.scottishcities.org.uk/site/assets/files/1103/smart_cities_scotland_blueprint_web-4.pdf for more info.

With further development of the Khub service in recent months, plus ongoing support from the Improvement Service, 8th City partners have opportunities to engage in shared communications and collaborative working via a number of 'specific interest' Khub groups. These *Restricted* groups, corresponding to the nine 8th City Operations (i.e. Data; Smart Services (Energy, Mobility, Public Safety, and Waste); Smart Infrastructure (ISL, Innovation Labs, and Water Management); and Smart Communities/Mobile working) are complementary to the 'Scotland's 8th City Strategic Intervention' Khub group which remains as a *Private* group on the Khub network.

Further to invites being issued (during Quarter 4 of 2017) the nine new groups are now live on Khub. Thanks again to all who have accepted invites and to those members also taking on a role as a group facilitator. Further work is now required to fully populate the groups and to appoint additional facilitators. Please get in touch if you haven't accepted, or received, an invite to the 8th City Khub group(s) that you are involved with.

Please also let us know if you are interested in being a facilitator. Information and/or training is available via Khub groups and from the Improvement Service; this follows on from the presentation by Mike McLean (Knowledge and Collaboration Manager, Improvement Service) at 8th City Advisory Group meeting last November.

The 8th City programme is developing further links with the Improvement Service. Case studies from across the 8th City programme will be made available via the [Innovation Exchange](#) - a joint Improvement Service and [SOLACE Scotland](#) project that highlights the work being carried out in communities across Scotland by local authorities.



In March 2018, Mike McLean and Kristoffer Boesen (Media and Communications Manager, Improvement Service) delivered online training for 8th City project partners on delivering webinars. This was a good opportunity for 8th city programme partners to engage in wider opportunities for information and knowledge sharing. Please let me know if you are interested in further information on webinar delivery or other aspects of information sharing about 8th City programme and projects.

Stephen Birrell, Programme Officer, 8th City PMO

Open Data News

The Open Data Institute (ODI) recently secured almost £2 million funding from the Omidyar Network, the philanthropic investment firm set-up by the founder of eBay. This will support ODI in its mission to build an open, trustworthy data eco-system, where people can make better decisions using data and manage its harmful impacts. The ODI will achieve this by:



- Creating sector-change programmes that bring together public, private and third sector organisations to address specific challenges in industry and society using data.
- Supporting companies and governments with data transformation, learning from experience to create practical tools and learning materials that help organisations adopt good practices for data collection, sharing and use.
- Building and supporting peer networks that enable people around the world working in this fast-moving area to learn from one another.

As an example of wider use of open data, last year it was announced that the provision of free, accurate and real-time open data by TfL is helping London's economy by up to £130m a year. The research showed that by providing open data to developers, TfL is improving journeys, saving people time, supporting innovation and creating jobs.

Managing Authority / Scottish Government

The latest issue of the [European Structural Funds newsletter](#), published May 2018, includes information on:

- GDPR
- Europe Day, 9th May
- Lead Partner event, 19th June
- Managing Authority news.
- Growth team updates - including information on Claims, N+3, Phase 2, Participant guidance and EUMIS
- Guidance updates including: revisions to the National Rules on Eligibility of Expenditure; Outputs and Results and Verification Checks; Output Indicator guidance.



The ESIF newsletter can be viewed at: <https://blogs.gov.scot/european-structural-and-investment-funds/>

The Europe Day 2018 publication produced to highlight ESIF 2014-2020 activity included case studies on the 8th City programme, the joint procurement of open data platforms, and the Glasgow Mobile Working project.

For more information please contact europeanstructuralfunds@gov.scot.

Inclusive Growth / Scotland's Centre for Regional Inclusive Growth

SCRIG

Scotland's Centre for
Regional Inclusive Growth

The European Structural and Investment Funds (ESIFs) are the European Union's main way of investing in 'smart, sustainable and inclusive' growth in its member states.

The 8th City programme, along with other ERDF Strategic Interventions, is funded to support this.

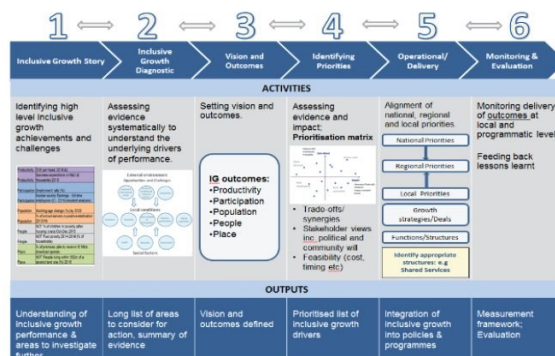
In relation to the 'Inclusive Growth' agenda, members of the 8th City Data Cluster recently contributed to workshops informing the development of Scotland's Centre for Regional Inclusive Growth (SCRIG).

The SCRIG seeks to draw together diverse datasets to allow users to analyse economic and social data on a local or regional scale across Scotland to identify ways to drive inclusive economic growth. The centre's website is now live at www.inclusivegrowth.scot. You can also follow SCRIG on twitter - https://twitter.com/SCRIG_tweets

The early phase of the centre's implementation will include developing Regional Economic Partnerships to embed an evidence-based approach to decision-making aimed at achieving inclusive growth. Work undertaken by SCRIG will be hosted on the centre's website to allow for its dissemination and to provide access to data and toolkits.

This includes:

- Toolkits and access to data to support Regional Economic Partnerships and Local Authorities to undertake inclusive growth diagnostic work - schematic, right, shows the inclusive growth diagnostic tool (proof of concept) - to develop evidence-based priorities for driving inclusive growth; and
- The National Asset Register (which can be interrogated at the regional level).



Going forward, activities undertaken by SCRIG will include:

- Deepening our understanding of 'what works' in regional and local economic development and improving the use of these insights in policy and decision-making; and
- Supporting 'Communities of Practice' bringing together practitioners to share experience and develop understanding of policy and ideas related to inclusive economic growth.

This expansion will involve supporting conferences, events, seminars, and research activity. The SCRIG provides an opportunity for a wider group of stakeholders to become involved in the centre's activities. An interim Steering Group has been formed to help the establishment of SCRIG, however the role and remit of the centre will evolve in consultation with collaborative partners over time.

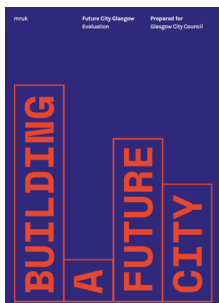
SCRIG would welcome your involvement in helping shape thinking and direction on SCRIG: For further information on the website, including use of the Inclusive Growth or Asset Register tools, or to discuss working in partnership with SCRIG, please contact Natalie.hemmings@gov.scot or visit the SCRIG website.

Smart Cities Policy and Research

Future City Glasgow - Evaluation Report and case study videos

A reminder that the MRUK evaluation of the Future City Glasgow (FCG) programme is available at:

http://futurecity.glasgow.gov.uk/reports/12826M_FutureCityGlasgow_Evaluation_Final_v10.0.pdf



The report may be of interest to 8th City programme partners as activity continues towards ending Phase 1 of the programme, and development work commences for Phase 2. Also, a number of FCG case study videos, commissioned by Innovate UK, are available on YouTube. These include:

Return on Investment - <https://www.youtube.com/watch?v=OegCfag16u4>

The impact on business - <https://www.youtube.com/watch?v=pr42p5SG44>

The impact on citizens - <https://www.youtube.com/watch?v=4NJevFyROME>

Transforming social care through technology

Socitm Advisory has published a new guide designed to support local authorities that are beginning or have already begun digital social care programmes.



The publication focuses on adult social care (ASC) and identifies ten initiatives that support the triple aims of digitally-enabling the workforce, services and citizens.

Future guidance will look at the challenges faced by children's social care. The report is available for members of [Socitm Advisory](#) to download at [Transforming adult social care: 10 technology-enabled initiatives](#)

Smart City Demonstrators: Challenges and Lessons Learned

Future City Catapult has undertaken extensive research to understand what can be learned from previous Smart City demonstrators, to inform the next generation of city-based projects.

Published in March 2018, this report reviews smart city demonstrators in the UK and internationally.



Drawing on interviews with representatives and industry experts, the report highlights trends, challenges, lessons learned and best practice.

In noting that smart city demonstrators are an approach to demonstrating the value of data at city-scale, the report identifies over 150 large scale demonstrators and includes information in the following categories: city services (parking, lighting, waste management); smart utilities (meters, grids); smart healthcare (assisted living, remote health, preventative health); connected and autonomous vehicles; and next generation connectivity and data (IoT, 5G test networks).

The report also highlights challenges experienced by demonstrators in relation to:

- engagement and access to assets (local authority capacity);
- funding, governance and delivery models, and intellectual property arrangements;
- delivery capabilities and skills; procurement; and
- measuring impact and success.



A further section, likely to be of interest to 8th City partners, looks at the need for effective knowledge-transfer mechanisms between organisations to facilitate the scaling of solutions and the replication of demonstrators.

The report includes case studies and information on UK demonstrators including: Milton Keynes; Digital Tameside; 5G Test Bed, Brighton; Keele Smart Energy; Exeter City Futures; Future City Glasgow; and Manchester CityVerve.

The report is available online at <http://futurecities.catapult.org.uk/resources/>

UK Digital Charter

Launched in January 2018, and complementing the Digital Strategy for Scotland ([available here](#)), the UK Digital Charter aims to make the UK both the safest place to be online and the best place to start and grow digital business.



Department for
Digital, Culture
Media & Sport

UK government has noted that the UK should lead the world in innovation-friendly regulation that encourages the tech sector and provides stability for businesses. This will increase public confidence and trust in new technologies, and create the best possible basis on which the digital economy can thrive.

The Charter outlines a number of principles:

- the internet should be free, open and accessible
- people should understand the rules that apply to them when they are online
- personal data should be respected and used appropriately
- protections should be in place to help keep people safe online, especially children
- the same rights that people have offline must be protected online
- the social and economic benefits brought by new technologies should be fairly shared

There are seven current priorities in the supporting work programme, including:

- Digital economy – building a thriving ecosystem where technology companies can start and grow.
- Digital markets – ensuring digital markets are working well, including through supporting data portability and the better use, control and sharing of data.

More info at <https://www.gov.uk/government/publications/digital-charter/digital-charter>

Digital Economy Business Survey 2017

Released in March 2018 by the Office of the Chief economic Advisor, this report presents the key findings from the 2017 Digital Economy Business Survey.

The Scottish Government, in partnership with Scottish Enterprise, Highlands and Islands Enterprise, and Skills Development Scotland, commissioned Ipsos MORI to carry out a Digital Economy Business Survey in the autumn of 2017. The aim of this survey was to provide an update to the 2014 Digital Economy Business Survey, to assess how the level of digitisation amongst Scottish businesses has evolved over time, and to provide insight into new areas of focus, such as cyber resilience and the sharing economy.

The survey report is available at <http://www.gov.scot/Resource/0053/00533153.pdf>.

Comprehensive results from the survey, including breakdowns by firm size and sector, are available in accompanying web tables at: www.gov.scot/digital

Microsoft report on Smart Places and Connected Communities

Published in March 2018, the **Smart Places and Connected Communities** report outlines Microsoft's 'CityNext' vision' for building the smart places and connected communities of the future.

Using an approach based on five pillars (Caring & healthy; Educated & aspiring; Safe & secure; Sustainable, efficient & green; and Reimagining local services) the report seeks to celebrate the innovation, ambition and digital transformation underway across local public services today and highlights examples across Scottish cities.

See https://info.microsoft.com/UK-DIGTRNS-CNTNT-FY18-03Mar-12-SmartPlacesConnectedCommunities-MGC0002126_01Registration-ForminBody.html for further information.

Further to recent discussion between Microsoft CityNext leads and the Scottish Cities Alliance, opportunities will be sought to highlight 8th City programme case studies in future issues of this report.

Funding Opportunities

GovTech Catalyst competitions

The **GovTech Catalyst** supports public sector organisations to find innovative solutions to operational service and policy delivery challenges. GovTech Catalyst competitions help the public sector identify and work with cutting edge technology firms.



The £20 million GovTech Fund, awarded via competitions, provides support to define, develop, test and access creative solutions to complex public sector problems. The GovTech Catalyst supports the public sector to make innovative use of emerging technologies to improve public service efficacy, increase public sector productivity, and to grow the UK GovTech sector.

The GovTech Round 1 competition schedule was announced in May 2018 and outlines competitions and funding opportunities in areas including:

- Tracking waste through the waste chain (opening June 2018)
- Tackling loneliness and rural isolation (opening July 2018)
- Cutting traffic congestion (opening August 2018)
- Deploying smart sensors on council vehicles to improve services (opening September 2018)

For more information contact the GovTech Catalyst team at enquiries-gtc@digital.cabinet-office.gov.uk

SynchroniCity Open Call: €3 million for SMEs, cities and large businesses

SynchroniCity is a European project funded under the Horizon 2020 Framework Programme for Research and Innovation. It is one of the IoT European Large-Scale Pilot Projects currently operating and is built with the vision that creating a simplified, open and agile market across borders will help deliver better services to cities and communities, in a way that supports local economic development, while still leveraging global digital and economic dynamics.



Aim of the Open Call:

Validate the SynchroniCity vision and technical framework as a model for large-scale standards-based innovation and procurement and demonstrate that it enables the replicability, scalability and sustainability of human-centered IoT-enabled solutions across cities.

Who is it for?

- IoT enabled SMEs that can provide an IoT data-enabled application or full-stack solution
- Cities.
- Large corporates.

Funding:

Total budget of €3M in funding. Each application can be funded with: up to €100,000 if an SME applies alone; up to €200,000 for Pilot Groups of 2 organisations; up to €300,000 for Pilot Groups of 3 organisations or more. Synchronicity open call will co-fund 80% of the total budget of each project. The remaining 20% will need to be provided by applicants either as in-kind support or by bringing in funding to the project.

Open Call Pilot Cities:

Your solution will need to be piloted in at least 2 cities. This must include at least a Core Pilot City, as follows: Antwerp; Carouge; Eindhoven; Helsinki; Manchester; Milano; Porto; Santander. It may include also New Cities that you introduce in your Pilot Group.

Key Dates:

Open Call will close on 30 September 2018

Duration of pilot:

Maximum 6 months (between February and September 2019)

Applications:

Open call requirements, eligibility criteria, guidelines and terms and conditions are now available on SynchroniCity website. [Click here to apply](#)

Events and Training Opportunities

Disruptive technology a key focus at Socitm Scotland 2018

15 November | Dynamic Earth, Edinburgh | Tickets £150 - £199.

Maximising the impact of disruptive technology is the key theme of this year's [Socitm Scotland conference](#), with blockchain, internet of things, artificial intelligence and machine learning among the technologies to be explored.

Improving Digital Participation and Inclusion in Scotland

23 August 2018 | Edinburgh | Tickets from £145 + VAT.

Organised by Holyrood Magazine, this event will highlight the challenges and potential of improved digital participation as well as good practice in getting skills and training to those who need it most. Key issues to be addressed include:

- Inclusion in context: the digital strategy and Scotland's Digital Participation Charter
- Encouraging people and businesses to get online and benefit from digital opportunities
- Good practice and innovative approaches to boosting participation and inclusion
- The impact of low digital inclusion on wellbeing, community, education, and employment
- Priorities for reaching disadvantaged demographics

For more information please email enquiries@holyrood.com | 0131 285 1635.

SICSA Demo Fest 2018

3 November 2018 | Edinburgh



SICSA DemoFest is the largest event of its kind in Scotland. Now in its eleventh year, it showcases the very best of Informatics and Computing Science research from all of Scotland's Universities.

DemoFest provides a perfect opportunity to experience, first-hand, the cutting-edge research taking place in Scottish universities. Exhibitors will talk about their research, tell you why it's important to your organisation, and demonstrate their technology working in real-time.

The event also provides a space to discuss future collaborations, business opportunities, internships, employment opportunities and more.

The 2nd Annual Scottish Passenger Transport Conference

11 December 2018 | Edinburgh

This event will bring together representatives from Scotland's passenger and public transport interests with innovators in disruptive technology to discuss the challenges and opportunities ahead as services and passenger expectations are transformed by digital opportunity.



Opportunities for funding, events & training will be circulated to programme partners via **8th City eUpdate** emails.

Newsletter photographs used with permissions. Much of the information in the **Funding** and **Events and Training Opportunities** sections of this newsletter includes information sourced from **IDOX Information Exchange**, **GCVS Equality Information Service - Funding Extra**, and **GRANTfinder 4 Local Government** team.

Issue #11 of the 8th City Update, covering programme activity during the third Quarter of 2018, will be produced in October 2018. To contribute info and updates on 8th City projects please provide content by 15th October. For more info contact stephen.birrell@glasgow.gov.uk | t: 0141 287 8645