

8th City Update



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

Issue Seven: Q2/2017

[April to June 2017]

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

8th City programme update: April - June 2017

During the second Quarter of 2017, work was ongoing across Scottish cities to support the delivery of all 27 projects currently within the 8th City programme. With projects grouped thematically across a number of Smart City 'Operations' - such as Mobility (four cities), Waste (five cities), and Data (six cities) – opportunities are sought to identify potential sharing of information and learning at both project and programme levels.

To support this, Project Status Reports (PSRs) were recently introduced, with submission required by all projects. PSRs provide information on progress re delivery, financial performance, risks, outputs, outcomes, and lessons learned. With PSR response rates of 93% in May and 100% in June, a body of programme-wide monitoring information is being accumulated.

PMO team members now have responsibility as principal points of contact for 8th City Operations and projects, with PMO responsibilities as follows: Stephen Birrell (Data; Smart Mobility; Smart Waste); Jonathan Brown (Intelligent Street Lighting; Smart Communities); Emma McAllister (Innovation Labs; Public Safety); and Petya Todorova (Smart Energy; Water Management).

Activity also took place to process the first tranche of ERDF grant funding claims at the deadline of 14th April; this was a significant area of work, involving collaboration and dialogue between PMO, cities and the MA.

The 8th City Advisory Group met on 3rd May in Dundee. This meeting, involving input from all seven cities and SCA, considered matters such as: EUMIS guidance; Teckal issues; Managing Authority review of European Structural and Investment Funds – including options for development of 'digital infrastructure' projects; and 8th City performance framework and reporting on outcomes. The 8th City Programme Assurance Framework was also reviewed, with updates to Escalation & Reporting; Change Control; and Data & Information Sharing.

In recent months, 8th City partners contributed to a process for new applications for unallocated ERDF funding of c.£2M (at May 2017). This led to work to support submission of a new Operation application (Smart Waste H&I - Inverness) and project additions/enhancements, with funding requests via a 'change control' process, in relation to the following previously approved Operations: Data (H&I) – Inverness; Smart Mobility (H&I) – Inverness; Intelligent Street Lighting (LUPS) – Stirling; Intelligent Street Lighting (LUPS) – Aberdeen (DDD); Smart Waste (LUPS) – Perth; Public Safety (LUPS) – Perth; Smart Communities (LUPS) – Perth; and Programme Management Office. An additional request for funding (and associated change control process related to Intelligent Street Lighting (LUPS) - was received in July on behalf of Edinburgh.

For the next Quarter of 2017, meetings are arranged with the Managing Authority to discuss further development of the 8th City programme. Although a formal announcement has yet to be made on the recent review of European Structural and Investment Funds, the PMO will facilitate programme engagement on review outcomes – including possible extension of deadlines for existing ERDF Operations/projects and allocation of additional funding.

Jonathan Brown, Programme Manager, 8th City PMO

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8th City programme - City Updates

Aberdeen

Nicholas Ananin started as ERDF Projects Officer in May this year, mainly to assist with the Open Data project, taking over from Ian Watt on that piece of work with support from colleagues.

The Digital Data Deployment project is almost complete. As part of this, additional sensors have been deployed in and around the city centre which allows capture of data for analysis. Also, Aberdeen projects on Intelligent Street Lighting (ISL) and Warm Connected Homes are about to go for procurement once all the documents are approved. Aside from the 8th City programme, Aberdeen City Council has been successful for another Interreg North Sea Region (NRS) project called SCORE - Smart Cities + Open data RE-use. SCORE aims to increase the quality (by 20%)



and reduce the cost (by 10%) of public service delivery by using innovative software solutions and data sharing, particularly in relation to traffic and parking, sustainable mobility, and water and waste management. The solutions will be innovative, open sourced, based on open data, and replicable.

SCORE involves nine cities from 7 countries in the NSR, grouped according to their shared thematic interests. Aberdeen's interest is in relation to water management.

Amye Robinson, Senior Projects Officer, Aberdeen City Council, ARobinson@aberdeencity.gov.uk

Dundee

Dundee's Smart City program has been getting a head of steam.

Jacque Anderson, Smart Services – City Operations Centres lead, has been revelling in stakeholder engagement at this year's Dundee Economic Summit. Now into its 6th year, the summit provides an annual update on some of the major economic projects and transformation taking place in the city.

This included the presentation of a Regional Economic Strategy and Tay Cities Deal Bid. Over 300 businesses attend this annual event so it was great to have a stand at this event.

Smart Cities was this year's theme for the Dundee Schools Games Challenge. Over a few days, cohorts of P7 and S3 pupils attended Abertay University to create the best game within the smart Cities context. Following a rousing introduction to the 8th City Program by Advisory Group member Alan Dobson, pupils had to code and create games using Scratch and Python.



Dundee also had its first Internet of Things (IoT) meet up, run by Simon Montford - more info at <http://iotsotland.weebly.com/>

Local App developer Waracle hosted the event and a great turnout heard from 8th City Data Cluster Dundee Lead, Andrew Kesterton. The networking event was the first IoT focused event in Dundee, with Glasgow and Edinburgh also involved in the network.

Alan Dobson, Dundee City Council, alan.dobson@dundeecity.gov.uk

Edinburgh

Smart Waste: Members of City of Edinburgh Council's Place Services facilitated a briefing event on 16th May to share initial findings of their Smart Waste 'proof of concept' pilot.

The session explained the litter bin sensor system used in the pilot and what was achieved over the first year of implementation.

Scottish cities attending the event included Perth & Kinross, Highland, Dundee, and Stirling and representatives noted that the question and answer workshop session helped to inform city plans for their own Smart Waste projects.



Lee-Anne Copland, City of Edinburgh Council, lee-anne.copland@edinburgh.gov.uk

Glasgow

SME Digital Survey: Glasgow's Development and Regeneration Services is undertaking a survey to assess the use of digital technology by small and medium enterprises across Glasgow.

The survey looks at: the range of digital technologies used; barriers to use; online services; digital skills (and skills required) amongst staff; Digital Participation Charter; implications of the General Data Protection Regulation (GDPR); access to digital support; and use of plans or strategies to use digital technologies for business delivery.

The survey is running until 31st July with findings expected to report by 1st September. It closely links to the Digital Economy Business Survey which is conducted on a national level by the Scottish Government. 2014 findings are available here: <https://beta.gov.scot/publications/digital-economy-survey/>.

For more information about the survey please contact Juliet Kirkland, Economic Development Intern: Juliet.Kirkland@drs.glasgow.gov.uk / 0141 276 0981.

RUGGEDISED is a smart city project funded under the European Union's Horizon 2020 research and innovation programme. It brings together three lighthouse cities: Rotterdam, Glasgow and Umeå and three follower cities: Brno, Gdansk and Parma to test, implement and accelerate the smart city model across Europe.



Working in partnership with businesses and research centres these six cities will demonstrate how to combine ICT, e-mobility and energy solutions to design smart, resilient cities for all.

The 2nd Ruggedised newsletter has just been produced - info at <http://www.ruggedised.eu/news-events/blogs/>



Dear Green Place: Glasgow is the first UK city to have CityTrees installed in city centre locations - at Buchanan Bus Station and the Gallery of Modern Art.

The CityTree is a highly visual structure which, at 4 metres tall, 3 metres wide and 2 metres deep, has the environmental benefit of up to 275 urban trees.

Large surfaces of moss installed in each CityTree remove dust and nitrogen dioxide from the air - estimated at 12.2kg of particulate matter and 240 metric tons of CO₂ (greenhouse gas) annually. Each CityTree is solar-powered and rainwater collected is used for irrigation.

Funding for the CityTree installations has been secured from the Scottish Government and Glasgow City Council.

Inverness

In recent months, Inverness has worked on the development of additional projects in support of the 8th City programme. In addition to a number of Smart Mobility project proposals (to be outlined in the next issue of the **8th City Update**), Inverness secured MA approval for a Smart Waste project, complementing the existing Smart Waste (LUPS) Operation involving Dundee, Edinburgh, Glasgow, Perth, and Stirling.

Stirling

Open Data: ERDF-funded posts are now being recruited for the 8th City programme Open Data work in Stirling. Application deadline is Friday 28th July for both posts. For information see:

<https://www.myjobscotland.gov.uk/councils/stirling-council/jobs/open-data-project-officer-88426>

<https://www.myjobscotland.gov.uk/councils/stirling-council/jobs/open-data-project-assistant-88425>

Smart Waste: Following Stirling's participation and discussions at the Edinburgh Smart Waste briefing event, Stirling will now be going down the solar compaction bin route. While many of the cities spoke of the benefits of collection routes being determined by where full bins were, this wouldn't work in Stirling due to operational set-up, with teams each having a route to litter pick as well as collect waste. To follow routes determined by full bins, teams would have to cross the city to reach their litter picking zone after collecting waste. As a result we will pursue the solar compaction bin option. This still provides 'fullness' data but increases capacity by almost 5 times; we plan to utilise this around busy areas such as Stirling Castle, where collections occur 6 days per week.

As part of the wider multi-city Smart Waste Operation, Stirling has an interest in Perth's approach to experimenting with various smart waste solutions, all of which have potential applications in Stirling - as well as Perth having a similar scale/geography. Also, as there are concerns regarding the cost of telemetries for the sensor based systems, Stirling is looking at options to send data via another network, including potential for developing through our ISL project.

Ewan Prentice, Stirling Council

Scottish Cities Alliance - update

Through the Alliance's membership of Scotland Europa, the Alliance was invited to provide information to a delegation from the [ERRIN Network](#) visiting Quebec in June 2017 with the aim of developing partnership opportunities connected to research and innovation and the Horizon 2020 2018-2020 programme.

The Alliance supplied information on the forthcoming Smart Cities calls which were of interest to the Scottish Cities to ERRIN and the results of the delegation can be viewed via the following [link](#).

Should any city be interested in exploring these connections further or has plans to develop a Horizon 2020 application which would benefit from support from the Alliance partnership including through our membership of Scotland Europa please contact Iain McCreaddie - iain.mccreaddie@scottishcities.org.uk.

Please note that there may also be opportunities to identify partnership opportunities for Horizon 2020 with other partners the Alliance has established a relationship with including through participation in the European Week of Regions Cities, the OASC network and the World Cities Programme.

Open Data blog. A joint article by Ian Watt and Steven Revill, highlighting the 8th City programme's Open Data cluster, recently featured as a blog on the Alliance website—see www.scottishcities.org.uk/media/blog/open-data-the-key-to-smart-city-scotlands-potential. This article will also feature on the LGIU site on 27th July. LGIU is a new policy information service dedicated to local government across Scotland, launched in collaboration with the Centre for Scottish Public Policy.

Scottish Cities Alliance and Edinburgh's roles in new city standards recognised at Scottish Launch Event of BSI's new PAS 183 and 184 guides

Smart cities are a growing area of interest and activity for local government across the globe. The UK has taken a leading role in this area. Recognising that cities and their delivery partners face complex choices about what type of future they are seeking to create in order to meet the aspirations of their citizens, and that different cities will have different visions, reflecting the needs and circumstances of their populations and economic activities - supported by the (then) UK Department for Business, Innovation and Skills (BIS) - BSI was commissioned to develop a [standards strategy](#) for smart cities in the UK in 2014.

More recently, The Cities Standards Institute has been launched, a joint initiative of the British Standards Institution (BSI) and the Future Cities Catapult. This has uniquely brought together cities and key industry leaders and innovators to work together to identify the challenges facing cities, providing solutions to common problems and defining the future of smart city standards.

These standards have grown, with the recent publication of [PAS 183, Smart cities – Guide to establishing a decision-making framework for sharing data and information services](#) and [PAS 184, Smart cities – Guide to Developing project proposals for delivering smart city solutions](#).

PAS 183 outlines the data sharing challenges faced by local government and gets them ready for the new General Data Protection Regulation (GDPR) coming into force in 2018. This significant guide is the first sector response to GDPR in Europe, and represents the cities/local government sector leading the way. PAS 184 helps city stakeholders take a strategic view by providing actionable guidance from inception through to the delivery and measurement of projects. Currently, technology projects often exist in sectoral siloes – this guide offers a means for local government officials to adopt a more consistent approach to procurement and project planning, and builds on the 'PAS 181' guide.

On Thursday 15 June these standards received their [Scottish Launch at](#) the Edinburgh Centre for Carbon Innovation. Presented by Dr Jacqui Taylor, of Flying Binary and Chris Parker of CS Transform, along with the City of Edinburgh Council's Innovation and Futures Manager, Ritchie Somerville, the presentations led a diverse group of city representatives, SME leads and academics through these two standards.

Of significance was the role of the case study that Edinburgh had provided during the creation of PAS 183, on the Open Data project [Edinburgh Collected](#). Led by the City of Edinburgh Council's Digital Innovation officer, Sally Kerr, in partnership with NESTA, the project has seen Edinburgh's photographic archive opened up and made available for anyone to record their stories linked to images of the city. Dr Jacqui Taylor highlighted how this approach to using an analogue data set to create new open data has triggered a new approach to policy and practice development related to Open Data, where non digital assets are the trigger for creating new data sets.

Ritchie Somerville, Innovation and Futures Manager, City of Edinburgh Council



Scottish Cities Alliance / Future Cities Catapult Memorandum of Understanding

Representatives from the Future Cities Catapult attended the Alliance's Smart Cities Working Group on 15th June 2017 to discuss progressing a Memorandum of Understanding which recognises opportunities for Scotland from establishing a close working relationship between both parties to achieve mutual aims and objectives.

The Catapult is exploring the opportunity to host a "Week of Innovation" in Scotland probably in early 2018 and is keen to work with the cities to identify areas of research which will assist them achieve their smart ambitions.

Iain McCreaddie, Scottish Cities Alliance

Scottish Government / Managing Authority

In recent months there has been a number of changes to Managing Authority personnel involved in the management of the 'Scotland's 8th City – the Smart City' Strategic Intervention (SI).

Jamie Dunsmore has taken over from Louisa Harvey as the Senior Portfolio & Compliance Manager role for this SI, and Gillian Campbell has taken over from Helen Gracie as Portfolio & Compliance Manager.

On behalf of programme partners, the 8th City PMO would like to thank Louisa and Helen for their work and support over the past year and a bit. Arrangements are being made for the PMO to meet with Jamie and Gillian and we look forward to ongoing engagement in relation to the 8th City programme.

Community level indicators in the Smart City and Internet of Things

[CityVerve](#) is Manchester's Smart City demonstrator. The programme outlines five steps to a smarter city:

- A truly open platform
- Identifying opportunities for projects
- Enabling real community
- Open innovation
- Evaluation

In 2016 the CityVerve project set out with one goal to increase meaningful citizen participation in the Smart City and Internet of Things. To help realise this vision, FutureEverything introduced Community Key Performance Indicators (or Community KPIs) as a framework to involve communities and residents in the design process of the Smart City, and to engage them as stakeholders and contributors to define and measure success criteria for the CityVerve project. [Read the report publication here.](#)

'Scotland's 8th City - the Smart City' Knowledge Hub Group

The logo for Knowledgehub, featuring the word "Knowledge" in white and "hub" in green, set against a dark grey background.

With over 60 representatives from across the 8th City programme, membership of the 8th City Khub group has expanded in recent months, as more projects have come on stream and staff and partners have been recruited.

8th City programme partners are reminded that a new and improved Knowledge Hub will be available on Monday 24 July 2017. As the 8th City Khub group is 'closed' to non-members, please contact the 8th City PMO should you wish to be invited as a member.

Events and Training Opportunities

Taking place annually in September at the Glasgow Science Centre, **Venturefest Scotland** connects business owners, entrepreneurs, investors and innovators and provides a platform for growing companies to find the tools, advice, funding and contacts they need to take their businesses to the next level.



Venturefest Scotland is on 20 September 2017. For the latest notifications, follow [@VenturefestScot](#) on Twitter.

[FutureScot.com](#) recently announced Digital Cities 2017 - six half-day policy conferences taking place across Scotland this September, at the following venues:



September 5 - **Dundee** and **Perth**, Marryat Hall.
September 6 - **Edinburgh**, City Chambers.
September 7 - **Inverness**, The Kingsmill Hotel.
September 12 - **Aberdeen**, The Altens Hotel.
September 13 - **Stirling**, The Stirling Highland Hotel.
September 14 - **Glasgow**, IET: Teacher Building.

The Royal Bank of Scotland are offering places on a **free** lunchtime briefing hosted by The Scottish Business Resilience Centre and Document Data Group. This informative seminar will look at Cyber Security and the new General Data Protection Regulation (GDPR).



- Grahame Clarke, Scottish Business Resilience Centre, will discuss how to navigate the complex world of cyber security and highlight the key issues arising from GDPR, which all businesses must comply with by May 2018.
- Lynne Boyd, Document Data Group, will discuss the controls that can be adopted to protect businesses and the features of document management systems that provide solutions to the obligations highlighted by Grahame.

Date - Thursday 24th August / **Time** - 12pm with presentations at 12.30pm / **Venue** - Dalziel Park Hotel, Willow Suite, Motherwell / **Info**: <https://www.sbrcentre.co.uk/events/>

Funding and Awards

Round Three of Innovate UK's Innovation in Infrastructure Systems Competition Now Open

Innovate UK (IUK) will invest up to £15 million to stimulate innovation in the infrastructure systems that provide critical services for the economy, environment and society. There are four priority areas: Smart infrastructure; Energy systems; Connected transport; and Urban living.

IUK is looking to fund a portfolio of projects, including technical feasibility, industrial research or experimental development. Projects must show significant innovation in one of the priority areas. Proposals must also improve business growth, productivity and/or create export opportunities for at least one UK SME involved in the project. Applicants must describe how the proposed innovation project fits into partners' overall international strategies.

Projects can be led either by a UK business or UK research and technology organisation (RTO) and must include at least one UK small to medium enterprise (SME). **Deadline for receipt of applications is 13 September 2017.**

The next 8th City Update, Issue #7 covering activity during the third Quarter of 2017, will be produced in mid-October. To contribute updates about 8th City projects, please provide content by 13th October. For info please contact Stephen Birrell / 0141 287 8645 / 8th_city_pmo@glasgow.gov.uk