

# 8<sup>th</sup> City Update



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

Issue 11: Q3/2018

July to September 2018

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



## 8<sup>th</sup> City programme progress: July to September 2018

Programme activity during Quarter 3 of 2018 has enabled cities to increasingly focus on the delivery, or 'Build', stages of their projects - with some projects nearing completion in line with scheduled end dates of December 2018. The images above show some of the approaches being used when incorporating information materials on bin infrastructure within the Smart Waste projects being delivered by six of Scotland's seven cities.

Other opportunities have been taken to ensure that 8<sup>th</sup> City projects incorporate acknowledgement of European Structural and Investment Funds (ESIF) as appropriate. This approach is guided by ESIF 2014-2020 Publicity Requirements and is in line the 8<sup>th</sup> City Programme Assurance Framework. Other examples of ESIF recognition are incorporated into the ERDF-supported Open Data Platforms developed by Aberdeen, Dundee, Inverness, Perth, and Stirling which, when viewed alongside existing data platforms for Edinburgh and Glasgow, mean that all Scottish cities will have an open data platform online presence.

The current status of projects comprising Phase 1 of the 8<sup>th</sup> City programme is outlined over pages 2 to 6 of this newsletter. As noted in previous **8<sup>th</sup> City Update** newsletters, Scottish Government (acting as the Managing Authority for ESIF) approved Operations for Phase 2 of the 8<sup>th</sup> City programme, running from January 2019 to September 2022, and it is intended to announce further details in December. Meanwhile, work is ongoing between cities and the 8<sup>th</sup> City PMO to ensure that Phase 2 city projects will address partner and programme priorities.

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

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## 8<sup>th</sup> City programme (Phase 1) - Project Updates: July - Sept 2018

Approval, in late 2015, of the ‘Scotland’s 8th City - the Smart City’ European Regional Development Fund (ERDF) Strategic Intervention (and the subsequent allocation of £10M ERDF grant which, combined with up to £14M of match funding) has enabled Scottish cities to work collaboratively to develop and deliver a wide-ranging £24M programme of Smart City projects.

The 8th City programme’s aim is to expand Smart City capabilities and deliver city priorities through improved community engagement, integration of service delivery and innovation across the seven cities of Aberdeen, Dundee, Edinburgh, Glasgow, Inverness, Perth, and Stirling. In progressing this activity, Scottish cities are working to a definition of Smart Cities as the “**integration of data and digital technologies into a strategic approach to sustainability, citizen well-being and economic development.**”

8th City projects are intended to be open, scalable, replicable, and inter-operable. City representatives have also committed to a process which incorporates a significant focus on sharing of information and knowledge arising from the design, development, and delivery of 8th City projects.

The current progress of individual projects being delivered during Phase 1 of the 8th City programme is noted below. For further information about these projects (including contact details for project leads) please contact the 8th City PMO at [8th\\_city\\_pmo@glasgow.gov.uk](mailto:8th_city_pmo@glasgow.gov.uk).

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**Activity across 8th City Operations and projects during the third Quarter of 2018 includes the following:**

### 1. Open Data

The Data Operation (or ‘Cluster’) includes projects being delivered on a collaborative basis by six of Scotland’s seven cities, with Edinburgh participating as an ‘Observer City’. The Operation is being progressed via four work packages: **WP1**. Data Standards; **WP2**. Data Publishing Platforms; **WP3**. Data Analytics; and **WP4**. Community Capacity Building. Each work package is led by a city - with Perth leading on WP1 and WP2, Glasgow on WP3, and Stirling the lead for WP4. The overall Operation is coordinated by the Data Cluster Steering Group.

Activity and progress for each work package during recent months includes:

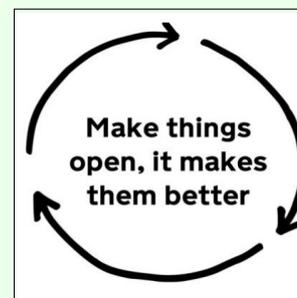
**WP1:** The key deliverables for this WP include provision of a set of standards, best practice and accompanying guidance on collecting, storing and moving data from internal siloed systems, through a publishing process to making it available as open data on a public-facing platform, provided by Work Package 2 – Data Publishing Platforms. There has been increasing engagement across a number of Scottish Government directorates in support of this WP. Review planned of ongoing work for this WP. As part of wider engagement, and on behalf of cluster partners, Perth is participating in the Open and Agile Smart Cities (OASC) working group on Data Standards.

**WP2:** With the recent development of the Aberdeen Open Data platform, all of Scotland’s cities now have platforms in place (although some are still in beta phase, subject to testing, review, and collation of data sets) with ERDF support noted for the Aberdeen, Dundee, Inverness, Perth, and Stirling platforms.

**WP3:** The Design with Data – Making it Real ‘Show and Tell’ event was held in Tontine Social Innovation Centre, Glasgow on 28th September. The event was organised by the Data Centre of Excellence, and included outputs from project staff funded through the ERDF 8th City Data Analytics project. See article on page X for more info. Glasgow is also working on a Data Analytics Toolbox, scheduled for completion in December.

**WP4:** All cities are engaged in activity across this work package, with Community and Capacity Building incorporated into wider Stakeholder Engagement strategies and action plans. In October, reps of all ERDF-funded projects contributed to a PMO-supported workshop on measuring and reporting on outcomes.

As cities move from EDF Phase 1 to Phase 2 activity around Open Data, further support will be available via a Data Cluster Project Manager, hosted by Dundee City Council but working on behalf of all cities. It is anticipated that an appointment will be made late 2018.



## 8<sup>th</sup> City Programme (Phase 1) update: July to September 2018 - Continued

### 2. Smart Infrastructure – Intelligent Street Lighting (ISL):

ISL projects are transforming street lighting from a single purpose asset into a platform that can support a range of Smart City functions and services. In addition to significant reductions in energy consumption, ISL networks introduce enhanced levels of control via a Central Management System (CMS) to enable the lighting to respond to events and situations, which can improve public safety. ISL also provides a platform to support a range of Smart City services including the use of sensors to collect and deliver data, providing insight into how cities function.

Aberdeen, Glasgow, Perth, and Stirling are the cities progressing Intelligent Street Lighting via 8th City programme funding - with Aberdeen delivering both an ISL project and a Digital Data Deployment (DDD) project.

**Aberdeen:** ISL deployment is progressing and CMS has been procured and tender awarded. Contractors started in November. In addition to ISL, Aberdeen is also delivering a complementary Digital Data Deployment (DDD) project. Delivery of this sensor-based Internet of Things (IoT) project is ongoing, with completion scheduled for December 2018.

**Glasgow:** Delivery of lanterns expected by early December. Discussions held with Central Management System (CMS) developers to optimise technical design solution for street lighting controls and sensor installations. Project completion scheduled for March 2019. Glasgow invited to participate in Itron's (ISL supplier) Global Smart City Challenge – launched mid-November at Smart City Expo 2018, Barcelona (see page 13 of this newsletter for info).

**Perth:** Node installation is on-going. 2,200 nodes being issued, with a further 140 required due to on site power supply set up. To date 1,937 nodes are installed with 1,866 (79%) commissioned on the system.

**Stirling:** A number of technical issues relating to Stirling's proposed ISL solution have emerged. In considering these matters and the potential risks that they present, Stirling Council has decided to withdraw from the ISL Operation. The 8th City PMO will work with officers in Stirling to bring the project to a close.

### 3. Smart Infrastructure – Water Management

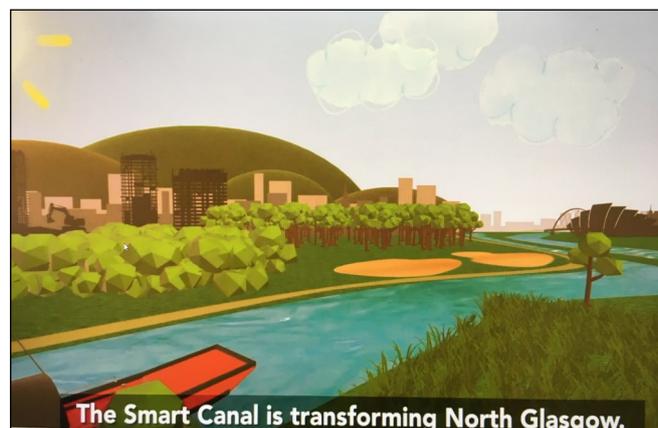
**Glasgow** is delivering a project for this Operation.

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; and the deployment of cameras and sensors to provide early warning of blockages in order to enable responses to mitigate the impact of flooding.

The Functional Design Specification has been issued for approval and key IT hardware and software components have been procured. Discussions ongoing within Glasgow City Council regarding hosting arrangements.

The project recently featured in a number of press and media articles. A short video explaining the operation of Glasgow's Smart Canal can be found at: <https://www.dropbox.com/s/dtfd4pnl3bbrm7/Smart%20Canal%20%28animation%29.mp4?dl=0>

See blog article on page 10 for more info.



## 8<sup>th</sup> City Programme (Phase 1) update: July to September 2018 - Continued

### 4. Smart Infrastructure – Innovation Hubs:

**Perth** is delivering a project for this Operation.

This project is linked to a wider development - 'Creative Exchange', managed by WASPS - which will provide artist studios and creative work space in Perth. Whilst the Creative Exchange is being developed, a temporary space has been established for the Perth Innovation Lab, with the first pieces of equipment in use; The Perth Innovation Lab will be a place where stakeholders work on complex urban challenges and issues by integrating a range of perspectives to re-frame problems and prototype smart city solutions using multiple approaches, activities and tools.

An online user survey is in use collecting user data – the initial feedback has been favorable. Project completion scheduled for December 2019.

### 5. 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 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 - initially by Aberdeen City Council (ACC) staff and, ultimately, by wider users. Further development and delivery of this project is currently under review.

**Dundee:** In recent months Dundee City Council has awarded contracts for 'ShareMORE' mobility innovation pilots to be delivered as part of the Mobility Innovation Living Lab (MILL). These pilots cover a range of mobility service areas including, car clubs, fleet sharing, smart parking and e-bike hire. Broad areas of activity across the Dundee ShareMORE projects include:

- Increasing the availability and accessibility of electric car club vehicles throughout the city
- Improving local care services through shared electric vehicles
- Creating a shared, low carbon fleet for multiple private and public sector organisations
- Enabling smarter management of all parking assets
- Simplifying on-street parking through smart sensor deployment

A launch event for the ShareMORE projects is planned by end 2018. More info at [www.themill.scot](http://www.themill.scot).



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**Inverness:** The Highland Council is working with HITRANS on a range of Smart Mobility projects, including:

- A flexible wireless mesh infrastructure allowing for smart traffic management, live traffic and public transport information
- An improvement to bus stop signage, introducing smart elements, including NFC/QR codes and real-time information boards at selected stops. This project is now complete, with further info available via a case study.
- Improvements to the Far North Line (FNL)
- An update of parking meters, introducing smart elements to increase ease-of-use and flexibility for users

**Stirling:** This project aims to deliver an effective and efficient monitoring network incorporating a vehicle Movement Information Platform (monitoring network). Installation is now complete, with project closure report due to be submitted January 2019.

## 8<sup>th</sup> City Programme Phase 1 update: July to September 2018 - Continued

### 6. Smart Services – Energy:

This Operation includes projects in Aberdeen and Stirling.

**Aberdeen:** Discussions ongoing in Aberdeen City Council (ACC) concerning options for re-scoping the existing project in order to enhance specific ACC assets with an IoT Building Management System. Project completion is scheduled for June 2019.

**Stirling:** Installation of Building Energy Management Systems (BEMS) in 15 of the 30 Stirling Council buildings identified, with data recordings being captured.

Significant progress on build of Smart Energy Hub, which will include live data on: Renewable Energy Generation; AMR Data (half hourly Gas & Electricity Readings); & BEMS readings. Overall progress at 61%, and on schedule for completion by June 2019.

### 7. 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 is deploying a mix of smart technology and data sharing processes through sensors in bins, solar powered compactor bins, street sweeper vehicles and operator handsets. Solar powered compactor bins now operational with data gathered being uploaded onto Dundee's Open Data Platform (also funded via the 8th City ERDF programme). Bin Sensor deployment has been affected by hardware issues and further work is now required to explore alternative options.

**Edinburgh:** Purchase and deployment of Smart Bin sensors completed during summer 2018. and data analysis commenced in September. An assessment tool to inform City of Edinburgh Council of the need to relocate sensors is in development.

**Glasgow:** This is a one-year demonstrator project involving smart bin technology. Project Officer now in post to analyse data and monitor sensors, following completion of new litter bins and bin sensor roll-out across a number of pilot neighbourhoods across the city.

**Inverness:** This Smart Waste project utilises route optimisation software to enable The Highland Council to progress an intelligent, data-driven approach to waste collection. The tender for Platform/Hardware procurement has now been issued, with hosting option decided.

**Perth:** This project 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. The 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. Data from Litter Bin Sensors now being captured daily following completion of installation. Mini Glass Recycling points now mapped and visible on online portal. The Underground Bin Project has been extended to December 2019.

**Stirling:** Smart Waste project completed and work is now underway to finalise the Project Closure Report.



## 8<sup>th</sup> City Programme Phase 1 update: July to September 2018 - *Continued*

### 8. Smart Services – Public Safety / Operations Centres:

Dundee and Perth are working on projects for this Operation.

This Operation uses smart technology to enhance the capability of 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 is ongoing on development of a new 24/7 Safety and Alarm Response Centre (SARC) - scheduled to 'Go Live' in December 2018. With an overall focus on 'Smart City' management, other elements of this project will include:

- data analytics from Public Space CCTV cameras
- datasets from two new integrated software systems
- creation of an IP (internet protocol) network to securely distribute images between Dundee's three Operations Centres.

The IP public space CCTV system contract has been approved and is scheduled to be announced late November. UTC fibre has been ordered, with install due to commence late November.

**Perth:** This project will enhance safety cameras, urban traffic management systems, and integration of community alarm centre - creating a City Operations Centre to support city management.

Following bidder presentation contract awarded to Scottish Communications for control and monitoring systems. Contractor also appointed for the Perth–Dundee fibre link, with installation due for the end of November.

As part of stakeholder engagement, public consultation will take place regarding Privacy Impact Assessments.

### 9. Smart Communities – Mobile Working:

**Glasgow** and **Perth** are working on projects for this Operation, with the aim being to use mobile applications to generate efficiencies by developing and deploying mobile applications to provide staff with the technology and information they require whilst working away from base. This allows staff to directly access data from business systems and update them while still in the field, reducing operating costs and increasing the quality of service. The programme will also deliver efficiency savings through more automated resourcing and scheduling - enabling a better match between the supply of resource and the demand for it.

Both projects are progressing well and are now scheduled to continue until December 2019.



## 8th City programme partners — Hellos and Cheerios

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

**Hello and welcome to:**

Megan Smith, *Open Data Project Assistant*, Stirling Council; Ken Campbell, Dundee Open Data Project.

**Cheerio and thanks to:**

Ailsa Falconer, City of Edinburgh Council (CEC representative on 8th City Advisory Group).

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

## 8<sup>th</sup> City Programme - Information Sharing

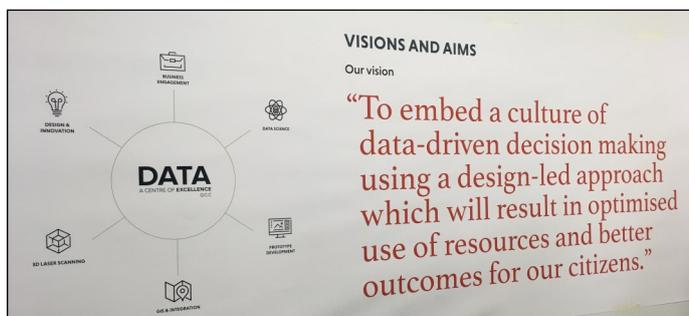
### Glasgow City Council Show and Tell Event, 28<sup>th</sup> September 2018

The Data Team within Glasgow City Council hosted a show and Tell event entitled 'Design with Data – Making it Real' in the Tontine Building, Glasgow, on 28th September 2018.

The event was organised by the Data Centre of Excellence, and included outputs from project staff funded through the ERDF 8th City Data Analytics project.

The event enabled the extended Council Data team to showcase the work that they have been doing making better use of data, using a design-led methodology, and supporting innovation.

The event provided an opportunity to demonstrate a range of projects including interactive ward dashboards, open data, a prototype community hub portal, property applications, as well as a laser scanner and 3D City Model.



As well as showcasing the work delivered through the 8<sup>th</sup> City programme, the event also provided an opportunity to highlight data analytics work taken forward by a wider data community across the Council family and provided examples of collaboration between services as well as external partners such as academics and private sector partners.

The event was attended by around 75 people from across Glasgow City Council and its partners, other 8<sup>th</sup> city project leads from across Scotland, Scottish Government, and other public, private and third sector partners.

The Show and Tell event is the latest in a series of sessions run by the data team in Glasgow as a way to transfer the knowledge and learning gathered by the team through involvement in 8<sup>th</sup> City projects and others.



The event was very well received and generated a number of follow up enquiries from attendees for further information about several of the projects and prototypes being demonstrated. The team in Glasgow will organise further events in the near future.

**Stephen Sprott, Principal Officer, Corporate Data Team, Glasgow City Council**  
[Stephen.Sprott@Glasgow.Gov.uk](mailto:Stephen.Sprott@Glasgow.Gov.uk) | t: 0141 287 0064

### 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 projects such as: Joint procurement of open data platforms; Glasgow Mobile Working; Dundee Smart Waste; 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 10 for the **Glasgow Smart Infrastructure - Water Management** blog article.

## 8<sup>th</sup> City Programme: Information Sharing - *Continued*

### Environmental Protection Scotland (EPS) Conference 8<sup>th</sup> October 2018, Glasgow



Environmental Protection Scotland (EPS) organised a conference in Glasgow on 8<sup>th</sup> October to discuss how organisations and individuals can use environmental data responsibly.

The event invited speakers to discuss a range of issues around the use of data. Stephen Sprott, Project Officer for the ERDF 8<sup>th</sup> City Data Analytics Project was invited along to speak on the theme of how Glasgow City Council was using data, including open data to improve the way the Council delivers services.

The event was aimed at planners, policy makers, researchers, technical leads and influencers working in the field of environmental policy and planning across Scotland. It provided an opportunity for a range of professionals to discuss the opportunities that greater access and use of data can bring.

Stephen Sprott provided a presentation that told the story of how Glasgow City Council has embraced the value of its data as a means to supporting greater data driven decision making across the organisation. Stephen also described how the 8<sup>th</sup> City Smart City ERDF programme was helping Glasgow to realise the value of data analytics by enabling the Council to invest in people and projects that focus on data science, good design and innovation.

Stephen's input was well received at the event and generated much interest, including a number of questions from delegates on the day. The event also highlighted to delegates the on-going collaborative work amongst Scottish cities around open data and analytics.

**Stephen Sprott, Principal Officer, Corporate Data Team, Glasgow City Council**  
[Stephen.Sprott@Glasgow.Gov.uk](mailto:Stephen.Sprott@Glasgow.Gov.uk) | t: 0141 287 0064



### 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 8<sup>th</sup> 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 earlier this year. 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;
- Provide a source of reference for effective business engagement.

For further information please contact:

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## Managing Authority / Scottish Government

Recent issues of the [European Structural & Investment Funds e-bulletin](#), published in August and October 2018, include info and updates on:

- Managing Authority news.
- Info on ESIF blog posts, including links to data protection guidance, and the audit and compliance documents used by the Managing Authority and Audit Authority.
- 'Horizontal Themes Guidance', outlining the meaning of each theme, the background behind the themes and how these are assessed and monitored. More info at <https://www.gov.scot/publications/esf-and-erdf-programmes-2014-2020-horizontal-themes-guidance/>
- Presentation to Energy, Economy & Fair Work Committee, September. Read the [written report](#) and watch the video at the Scottish Parliament website.
- Survey results from Lead Partner event, 19th June.
- EUMIS updates and changes.
- ESIF 2014-2020 Performance Framework.



ESIF newsletters can be viewed at: <https://blogs.gov.scot/european-structural-and-investment-funds/>  
For more information please contact [europeanstructuralfunds@gov.scot](mailto:europeanstructuralfunds@gov.scot)

## National Performance Framework - Scotland Performs

Launched in 2007, the [National Performance Framework \(NPF\)](#) supported a ten year vision through which to measure Scotland's national wellbeing beyond GDP.

In 2018, and with the outcomes approach placed in statute through the Community Empowerment Scotland (2015) Act, Scottish Government embarked on a public review of the National Outcomes for Scotland.

The revised NPF has been formulated to link with and promote Scotland's commitment to the United Nation's Sustainable Development Goals which are aimed at improving wellbeing across the world.

An outcomes based approach encourages a focus on the difference that can be made - and not just to inputs or processes. A focus on the NPF should act as an enabler for collaboration between organisations, supporting organisation to work across boundaries.

The NPF is a key element within the 8th City Programme's Performance Measurement Framework (see [8th City Update #10](#)) and partners and project leads are encouraged to identify project outcomes which make a contribution to the 11 National Outcomes and supporting Indicators. Info at <http://nationalperformance.gov.scot/>



## Understanding Scottish Places

The Understanding Scottish Places (USP) platform was commissioned by Scottish Government in 2015. Providing in-depth information on Scotland's towns and cities, USP is an accessible, open-access tool which allows people to view the social and economic profile of their town and compare this with other towns in Scotland. Data is included for all Scottish towns with a population of above 1,000; 479 settlements in total.



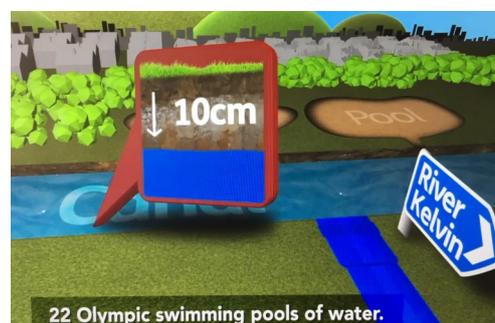
This innovative website has recently been upgraded and now includes indicators on 'Connectivity and Environment Assets' (such as greenspace and internet download speed) as well as a new section grouping five 'Change' indicators (e.g. Population, Households, and Jobs Change). See <https://www.usp.scot/>

The platform includes the [USP Your Town Audit](#), designed to help users gather local information which complements the national data available through USP. This feature may be of interest to 8th City partners in relation to ongoing work when reporting on Outcomes and Benefits Realisation.

## 8th City Blog article: First in Europe - Glasgow's Smart Canal

**A pioneering new digital surface water drainage system will unlock 110 hectares across north Glasgow for investment, regeneration and development, paving the way for more than 3000 new homes.**

The £17million project, being delivered via a partnership of Glasgow City Council, Scottish Canals and Scottish Water under the umbrella of the Metropolitan Glasgow Strategic Drainage Partnership (a Glasgow City Region City Deal project - info at <http://www.mgsdp.org>), will use sensor and predictive weather technology to provide early warning of wet weather before moving excess rainfall from residential and business areas into stretches of the canal where water levels have been lowered by as much as 10cm. This will create 55,000 cubic metres of extra capacity for floodwater - equivalent to 22 Olympic swimming pools.



Officially named the North Glasgow Integrated Water Management System (NGIWMS), the project to create a so-called 'sponge city' - a term used to describe how cities respond to surface water flooding - will see North Glasgow passively absorb, clean and use rainfall intelligently. Advanced warning of heavy rainfall will automatically trigger a lowering of the canal water level to create capacity for surface water run-off.

Before periods of heavy rain, canal water will be moved safely through a network of newly created urban spaces - from sustainable urban drainage ponds to granite channels - that absorb and manage water in a controlled way, creating space for surface water run-off.

The scheme will unlock 110 hectares across the north of the city for investment, regeneration and development, and will see the Forth & Clyde Canal connected to five new sites over the next 10-15 years, including Sighthill, Hamiltonhill, Ruchill Hospital, Cowlairst and Dundashill.

The capital funding for the scheme comes from Glasgow City Region City Deal and the European Regional Development Fund (ERDF) via the Green Infrastructure Fund and Scotland's 8th City - the Smart City.

The project was launched by Glasgow City Council Leader Susan Aitken, Scottish Canals' CEO Catherine Topley and Simon Parsons from Scottish Water with the signing of a 60-year service agreement.

Councillor Susan Aitken, Leader of Glasgow City Council and Chair of the Glasgow City Region City Deal Cabinet, said: "This is a fantastic day for Glasgow's Canal, as we mark the introduction of cutting-edge technology that will both allow surface water in this part of the city to be managed, and allow the building of new homes and businesses on land that historically has been unfit for development. It is very exciting to see such smart technology in operation in Glasgow - one of very few examples in the world - and we can look forward to it playing a key role in the continued regeneration of Glasgow's Canal and the north of the city."

Catherine Topley, CEO at Scottish Canals, said: "By unlocking the inherent value of Glasgow's Canal and diversifying how we use this publicly-owned heritage asset, we are ensuring it continues to deliver for local people 250 years after it was first built. Creating a dynamic urban canal which uses smart technology to move water safely about the city will not only reduce the flood risk impact of climate change, but act as a catalyst for new investment, jobs, homes and businesses in North Glasgow as well as help to create one of the city's top tourist destinations."

Effective collaboration between Glasgow City Council, Scottish Canals and Scottish Water, has transformed this visionary concept into reality after a decade of hard work and commitment.

As part of the project, Scottish Water will vest and maintain all underground pipes that are connected to a Scottish Water system and will maintain some of the Sustainable Urban Drainage Systems (SUDs).

Simon Parsons, Scottish Water's Strategic Customer Services Planning Director, said: "Scottish Water is delighted to be involved in this unique project that enables development in Glasgow and manages flood risk using the canal. This will help manage the impact of climate change on the sewer network. This is the sort of development that we are wanting to see more of and are working with local authorities across Scotland under our Storm Water Strategy to deliver."

A short video explaining the operation of Glasgow's Smart Canal can be found at:

<https://www.dropbox.com/s/dtffd4pnl3bbrm7/Smart%20Canal%20%28animation%29.mp4?dl=0>

## 8th City programme: promotion and communications via social media

As projects and Operations are progressed across the 8th City programme, with a number completed or near to completion, Scotland's seven cities are taking opportunities to publicise this with partners and stakeholders. This includes a focus on information and knowledge sharing - via case studies, events, blogs, lessons learned, and project closure reports - as well as wider coverage through press and media coverage. This approach fits well with the 8<sup>th</sup> City Strategic Intervention ethos – with the 'ERDF Operational Programme 2014-2020' guidance noting that the "ambition is to make a step change in the use of smart technology for integrated city management not just individually but collectively, so creating the 8th city."

Increasingly, social media is being used for promoting and communicating around 8<sup>th</sup> City project and programme activity. In utilising social media opportunities, 8<sup>th</sup> City partners should note guidance in the 'European Structural Funds 2014-2020 - Publicity Requirements' (section 3.5) which states:

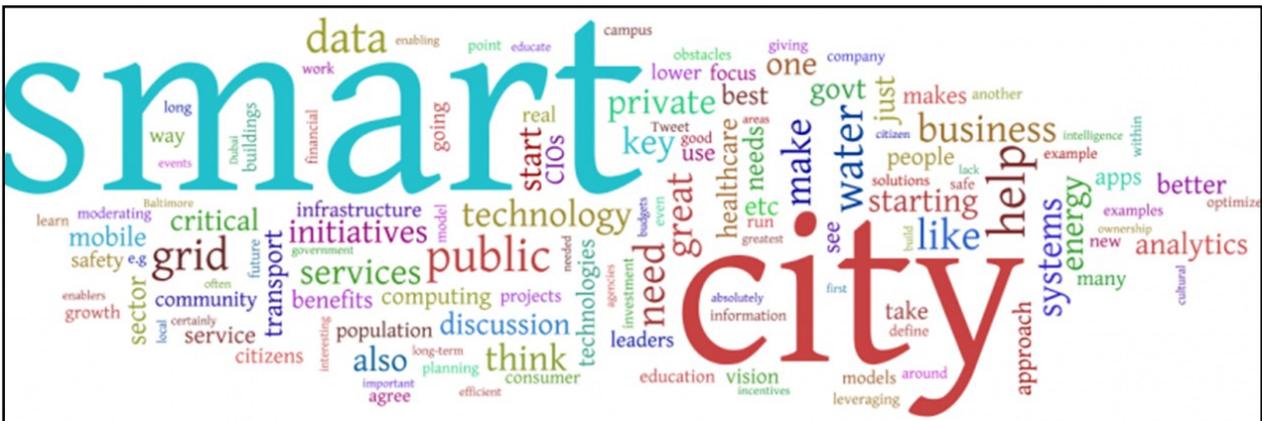
**Social Media:** The Scottish Government has established a Twitter account for European Structural Funds (@scotgovESIF) which will be used to promote interest in ESIF activity among key interest groups and the general public in Scotland and also across Member States.

Lead partners and Delivery Agents in receipt of European Structural Funds should:

- ensure their own Twitter accounts are following @scotgovESIF;
- where possible use the @scotgovESIF Twitter handle in posts designed to promote significant milestones in ESIF activity – for example where a lead partner receives funding from Scottish Government, awards European Structural Funds to specific operations or where an operation is completed;
- retweet @scotgovESIF Twitter posts which are relevant to lead partner ESIF activity or European Structural Funds generally;
- as much as possible support and promote any Twitter activity using European Structural Funds hashtags – i.e. #europeanstructuralfunds or #ESIF

When using Twitter to promote 8<sup>th</sup> City programme activity, cities should also include #smartcitysscotland, #scottishcities, and @scottishcities in addition to the ESIF handle and hashtag(s) noted above, as well as those which are city or partner-specific. The 'scottishcities' links will enable wider sharing via the Scottish Cities Alliance communication channels.

### Stephen Birrell, 8th City PMO



The Scottish Local Government Digital Partnership's newsletter is available to download [here](#). This includes info on the Digital Partnership's activity across the three work streams of **Leadership**, **Foundations**, and **Services**, as well as details of webinars on Digital Skills and using agile approaches to transform services.

## Smart Cities Policy and Research

### Finland's City of Tampere publishes The Smart City Cookbook

The Smart City Cookbook was launched at Tampere Smart City week (8<sup>th</sup> to 12<sup>th</sup> October 2018). The book provides an introductory guide with examples for smart city program managers and developers to use in defining the operational framework for managing their smart city activities.

[Smart City Cookbook Free Download here](#)



The book is based on best practices through knowledge and experiences gained across projects within the City of Tampere, says its author Nick Cotton. The book defines the key elements for a smart city program and gives guidance on their implementation. For example there is guidance and a related template for creating a smart city program vision aligned to a city's strategic vision. This can then be driven forward incrementally by a smart city roadmap, at both strategic and tactical levels.

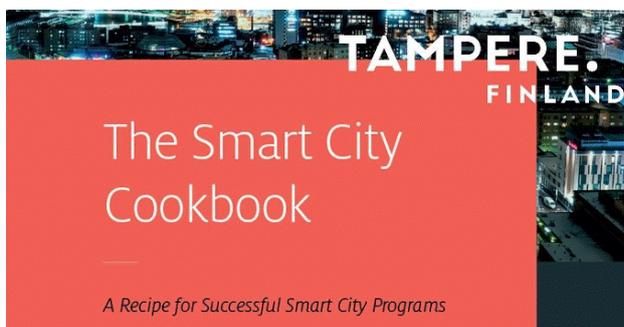
**People need to be at the center of innovation and change, and that is a message that is at the heart of this book.**

A further example of the book's practical content is measurement frameworks. Here a scorecard framework is used, to indicate strategic goal focused progress. These approaches can easily be re-used by smart city programs.

Additionally we are developing smart city learning services, intended for those who are planning to establish smart city programs in cities around the world. We have created a learning path for smart city program and project management competence development. This leads from an initial understanding of program frameworks, through to managing business models, open innovation platforms and measurements.

This is an exciting opportunity to share our expertise in this area, and in doing so collaborate with other cities around the world. I would like to take this opportunity to thank Scottish Cities Alliance for their support with this project, says Nick.

For further information the Smart City Cookbook - and wider learning opportunities provided by City of Tampere to develop smart city program and project management skills - please contact **Nick Cotton, Planning Officer, International Affairs, Tampere** [nicholas.cotton@tampere.fi](mailto:nicholas.cotton@tampere.fi) / +358 (0)44 423 5323



### 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](#)

## Other news

### The Data Lab secures £13.5m Scottish Government funding

The Data Lab, Scotland's data innovation centre, recently announced that it has secured up to £13.5m in new Scottish Government funding.



This follows the data innovation centre's success during its first phase of activity, in which it established Scotland as an international data science hub.

The announcement was made by Richard Lochhead MSP at the DataFest 2019 launch event in September.

Since its launch in 2014, The Data Lab has used its existing funding from the Scottish Funding Council to attract and develop data talent in Scotland. It has created and run educational programmes and events, and provided backing to Scottish innovation projects. Its core mission is to generate significant economic, social and scientific value from big data.

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### Investment in CENSIS

CENSIS, the centre of excellence for sensing, imaging systems, and the internet of things (IoT), has been given £9.25m over five-year years to "cement Scotland's place as a world leader in cutting-edge technology".



Investment from the Scottish Funding Council, Scottish Enterprise, and Highlands and Islands Enterprise is expected to be supplemented by £3m which CENSIS is targeting from competitive programme calls and industry contributions.

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### Showcasing the Urban Big Data Centre

The Urban Big Data Centre (UBDC) is holding a showcase event on 'Shaping Cities Through Urban Analytics' on Wednesday 28th November in Glasgow.

The event is targeted at senior stakeholders from academia, industry, the public sector, and the third sector. The morning session looks at the impacts of UBDC work to date, with parallel presentations across four key research strands: Transport and Mobility, Education, Skills and the Labour Market, Housing and Neighbourhoods and Urban Analytics. In the afternoon, Tom Smith, Managing Director, ONS Data Science Campus, provides a keynote followed by expert panel responses and discussion.



Limited number of places available - please contact Keith Maynard for info; [keith.maynard@glasgow.ac.uk](mailto:keith.maynard@glasgow.ac.uk)  
Opportunities to also join in conversation about the event by following [#ubdcshowcase](https://twitter.com/ubdcshowcase) on Twitter.

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The Itron Smart City Challenge brings together leading IoT developers from across Europe to tackle a set of key business and societal challenges. These challenges are designed by city leaders with the goal of identifying breakthrough solutions that enhance citizen well-being, improve operational efficiency and build more resourceful communities.



Glasgow currently has an active Itron Smart City Challenge as it looks for innovative solutions on how best it can manage large scale events and the movements of such large numbers of people and ensure that their experience and that of Glasgow's resident and business communities is a positive one.

The application period runs from 12th November 2018 to 4th January 2019. This is followed by a Development Period, from January 16th, and winners announced in March 2019.

More info at <https://www.itron.com/eu/events/smart-city-challenge/glasgow>.

## Awards Opportunities

### Entries now open for the ScotlandIS 2019 Digital Technology Awards

The awards showcase excellence within the industry, rewarding the innovation, expertise and ambition of businesses large and small, and the people who drive them. They cover the whole technology sector, shining a spotlight on the internationally competitive products and services being built in Scotland right now.

Deadline for applications is 15 February. The awards ceremony takes place on 9 May in Glasgow.

This year's categories include:

- Best New Product or Service
- Fintech Innovation
- Innovation within the Public Sector
- Best Training Programme
- Cyber Security Innovation
- Transformational Innovation Through Data
- Culture & Leadership Award
- Digital Agency of the Year
- Emerging Digital Technology Business of the Year (less than 4 yrs old, less than 10 staff)
- Small-Medium Digital Technology Business of the Year (less than 100 staff)
- Large Digital Technology Business of the Year (101 plus staff)



## Funding Opportunities

### Big Lottery Digital fund

The Digital Fund is a new UK wide £15 million funding programme to support charities and community organisations. It is about helping the charity and voluntary sector to use digital tools and approaches to support people and communities to thrive. More info [here](#).

Outline proposals can be submitted from 22nd October 2018 until 5pm 3rd December 2018. There will be further opportunities to apply in 2019.



### Urban Innovative Actions Initiative

The Urban Innovative Actions Initiative has launched its fourth Call for Proposals. The call opened on 15 October 2018 and closes on 31 January 2019 at 2pm CET. It is focused on four topics: digital transition, sustainable use of land and nature-based solutions, urban poverty, and urban security. Further info at <https://www.uia-initiative.eu/en>



## Innovate UK

### Zero emission vehicles: funding to drive development and adoption

Businesses working on ultra-low or zero-emission projects can apply for a share of £22 million to develop their ideas and help the UK become a world leader. Deadline midday on 6th December 2018.

[Find out more and apply >>](#)

## Events and Training Opportunities

### What Works Scotland: Effective leadership and networked governance

4 December 2018 | Glasgow

This seminar draws together some of the key findings from the What Works Scotland research on public service and community leadership and provides a forum for discussion and the development of ideas and responses to evolve leadership that takes public services and the leadership agenda to the next level.

Places are free but limited; [please register on Eventbrite](#)



### Smarter, Greener Urban Places for Scotland: Ways to improve the infrastructure of our places

24 January 2019 | Edinburgh

Organised by Mackay Hannah, this event examines the core opportunities to modernise and improve the infrastructure of all Scotland's communities to create smarter, greener places. Keynote address by Councillor Susan Aitken, Leader, Glasgow City Council.

Info at <http://www.mackayhannah.com/conferences/agenda/smarter-greener-places-for-scotland>



Smart Cities  
2019  
LONDON



### Smart Cities 2019 Conference and Awards

7 February 2019 | London

The 2019 Conference, Expo and Awards will concentrate on providing skills, guidance and resources to create a smart environment, and will address how access to funding, investment and a global economy can drive prosperity, increase employment and tackle society's fundamental issues. Now in its fourth year, the Conference will examine the importance of sustainable investment and the United Nations Sustainable Development Goals to shape economic and social acceleration within UK cities.

Further details and tickets at <https://4allofus.org.uk/tickets/smart-cities-2019-tickets/>

### The 2nd Annual Scottish Passenger Transport Conference

27 March 2019 | 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. More info and tickets [here](#)



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Issue #12 of the [8<sup>th</sup> City Update](#), covering programme activity during Quarter 4 of 2018, will be out early 2019. To contribute updates on 8<sup>th</sup> City activity please provide info by 21<sup>st</sup> January 2019. For more info contact Stephen Birrell at [8th\\_City\\_PMO@glasgow.gov.uk](mailto:8th_City_PMO@glasgow.gov.uk) | t: 0141 287 8645. Ongoing opportunities re funding, events, and training will be circulated via regular [8th City e-Updates](#).