

**Welcome to the 15th issue of the 8th City Update, which I think provides some excellent examples of work achieved by the programme so far.**

This edition comes at a time when we are all working in extremely challenging circumstances due to the impact of COVID-19, so I want to assure you that the 8th City PMO are continuing to operate as normally as possible during the current situation.

We will do our best to continue to offer support and guidance to all 8th City projects and are in regular communication with the Managing Authority.

I'm very grateful to those of you across the cities who worked with the PMO to provide information on the impact of Covid-19 on your projects in recent weeks.

This information has been fed back to the Managing Authority and they are aware of the challenges you are facing.

The 8th City PMO has also contributed a number of questions and highlighted issues, via the ESIF Lead Partners group, to the Managing Authority (MA). Some of the issues and concerns raised by cities have been highlighted in the MA's Q&A guidance document in relation to Covid-19. See article on page 13 for more information.

We will ensure all projects are updated as any new information is available and ask that you keep us informed as much as possible during this time. As always, the PMO are available if you have any questions and we are happy to highlight these to the MA on an ongoing basis.

**Nicola McPhee, Programme Manager**





## 2 | PROGRAMME OVERVIEW (CONT.)

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Ongoing, further opportunities have been identified to share 8th City updates via sites such as the Scottish Cities Alliance website, blog page and social media channels, Scottish Government/Managing Authority ESIF Bulletin, the Improvement Service's Innovation Exchange, as well as international Smart City portals and websites.

A number of case studies were highlighted via a DataFest 2020 fringe event organised by the 8th City Data Cluster Steering Group. This took place on 12th March at the newly opened Famous Grouse Ideas Centre - also funded via the 8th City ERDF programme - within the Perth Creative Exchange and was one of the last events to take place before the DataFest 2020 programme was cancelled due to Covid-19. See article on page 12 for an overview of the event – including details of the case study report and plans for a wider report on the development and delivery of the event as part of the 8th City programme.

Other programme highlights in recent months include:

- The Perth Creative Exchange innovation lab - now branded as the Famous Grouse Ideas Centre (FGIC) – was officially opened in February with a launch event for stakeholders, funders and supporters. This was one of six projects taken forward by Perth as part of Phase 1 of the 8th City programme. See article on page 8 for info.
- Formal completion of Phase 1 Open Data projects in Aberdeen, Dundee and Perth. With Data projects in Glasgow and Stirling completed in 2019, this creates opportunities for a wider sharing of information, knowledge and lessons learned. These cities, along with Edinburgh and Inverness, have also contributed to the ongoing work of the

8th City Data Cluster, with recent activity also involving Scottish Government input in relation to data standards.

- A number of innovative services are being developed by the Dundee Smart Mobility project 'ShareMORE' projects, managed by Urban Foresight as part of The MILL (Mobility Innovation Living Lab). These include: Car club back to zone pilot; Community minibuses pilot; Parking predictive availability; EV pre-booking; and Friendly Enforcement (Parking). Further work also took place on the e-bike scheme pilot which complements Dundee's wider Smart Mobility initiatives (though not funded via the 8th City ERDF programme). See The MILL update on page 3 for more information.
- The Glasgow Smart Infrastructure – Water Management project and the Perth Mobile Working project were both short-listed for awards at the Smart Cities UK annual conference which took place in London on 13th February.
- A number of Scottish cities have engaged with the EUROCITIES Sharing Cities programme. This is a Horizon 2020 initiative. More info on page

The 8th City PMO has played a part in working with city partners to create the monitoring, reporting, financial and governance framework for the programme. With an update and revision of the 8th City Programme Assurance Framework, this work is being further developed for Phase 2 of the 8th City programme - with work ongoing in relation to outputs recording, the performance measurement framework, and effective reporting via the 8th City governance structures.





### UPDATE FROM THE MILL

The MILL (Mobility Innovation Living Lab) is an innovation programme to make Dundee an international testbed for smart mobility solutions. The MILL was established by Dundee City Council with the Scottish Cities Alliance and is managed by Urban Foresight. Part-funded via the 2014-2020 ERDF programme, this Smart Mobility initiative is one of Dundee's projects within the 'Scotland's 8th City – the Smart City' ERDF Strategic Intervention, which supports an ambitious programme of innovation across Scotland's seven cities.

Dundee is a city changing for the future and it is halfway through a £1 billion 30-year wider regeneration. The MILL is creating user-centric solutions that make low emission and intelligent mobility cost-effective, convenient and part of the cultural fabric of the city. This creates new entrepreneurial opportunities, enhances public services and improves the quality of life across the city.

The first wave of projects to be delivered through The MILL come under the heading of ShareMORE (Shared Mobility and Resource Efficiency) and was commissioned in 2017 to deliver solutions related to fleet sharing, car club drop off zones, smart parking, community minibuses and active travel. These projects were featured in issue 12 of the 8th City Update (Quarter 1/2019) – see previous newsletters at [www.scottishcities.org.uk](http://www.scottishcities.org.uk)

### STAKEHOLDER ENGAGEMENT

Citizen and stakeholder engagement is key to delivering operations in support of the 8th City Strategic intervention, enabling cities to become more liveable and resilient using data and technology. The MILL programme management team has carried out a series of communication activities to establish The MILL as a powerful brand and support engagement

## 4 | DUNDEE SMART MOBILITY (CONT.)

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with users, citizens, businesses, inward investors and export markets.

A key part of the strategy is to place The MILL at the centre of an engaged network of stakeholders. The activities that have been carried out are founded on a clear communication strategy supported by the 8th City Stakeholder Engagement Strategy as the guidance framework. This includes branding of The MILL with a dedicated website <https://themill.scot/> and social media campaign as well as a programme of regular events/information targeted at different stakeholder groups, such as presenting at international conferences, producing information packs for key stakeholders, Councillors briefings and hosting workshops. This additional effort and resources have resulted in a higher impact approach.

In June 2019, Urban Foresight hosted a 'The MILL ShareMORE Platform workshop' to understand pilot data applications and practicalities such as technology integration. The group also explored users and operator's perspectives, as well as understanding potential wider integration (mobility service providers such as bus operators) and further phases such as integration with the National Entitlement Card (NEC).

In March 2020, the 8th City Data Cluster hosted a 'show and tell' event in support of the DataFest 2020 in Perth. The event provided an opportunity to hear about data and smart city projects delivered as part of the 'Scotland's 8th City – the Smart City' ERDF programme, which also included a presentation of The MILL and the programme's preliminary data.

A systematic approach to performance measurement and monitoring is central to ensure that project aims/objectives are achieved and to promote continuous improvement through the whole lifecycle.

The MILL Performance Measurement approach is aligned with that of the 8th City programme Performance Measurement Framework. It provides clear guidance on governance, roles and responsibilities, performance definition as well as providing the outline of the innovative projects' outputs, intended outcomes and benefits and how these outputs will be measured using key performance indicators and data.

All of this data, where appropriate and agreed with stakeholders, will be published on to the Dundee City Council Open Data Platform, which is also funded as part of the ERDF 8th City Programme.

The MILL is now delivering the programme outputs, with four innovative services launched, or ready for launch, for use by DCC and the public. Preliminary data has also been collected and this is in the process of being published on the Open Data Platform. The first few months of data showed that by using six ULEV car club vehicles, Dundee City Council eliminated over 732 car journeys from the city's roads and reduced over 300 kg of CO<sub>2</sub>. The smart parking app, Just Park is also providing insights into parking sessions; data sets that include location and time-based parking information and revenue could enable parking managers to optimise parking assets and pricing strategy as well as enhance users' experience.

## 5 | DUNDEE SMART MOBILITY (CONT.)

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The Ride On public eBike scheme, a zero-cost scheme to DCC (not ERDF funded but complementary to the 8th City programme work in Dundee), was procured as part of The MILL Phase 1 tender. Since summer 2019, Ride On has worked closely with The MILL programme management team in conducting a series of stakeholder engagement events including community engagement, Councillors briefing and participation in local environmental events. Ride-On has also secured significant investment, which resulted in an appointment of a local operation manager and a maintenance/logistic company as part of the core team for the scheme. Site surveys, planning applications, and initial power connection have been completed, with further work scheduled to be carried out before launch.



### OUTCOMES

A key success of The MILL programme has been to attract additional investment into mobility services in Dundee. Urban Foresight and Dundee City Council have to date successfully secured more than £12m of external investment and funding for smart and low carbon mobility in the region. The MILL has also directly resulted in the creation of twelve new jobs in the city with this expected to increase further as projects enter the next phase of delivery. The branding, vision and narrative of The MILL make Dundee a logical location to invest when competing for innovation funding or investment in the smart mobility sector.

### NEXT STEPS

A key objective of The MILL is to achieve integration between the innovative services that are being developed in Dundee and established transport services. The next phase will be to combine these services into single mobility as a service (MaaS) platform, an Integrated Smart Mobility App. Dundee City Council is currently in the process of bringing on an application development partner to support this. The partners currently involved in the MILL projects - such as Co-Wheels, JustPark, Enterprise Car Club (ECC) and Ride On - have all signed up to be part of this MaaS platform, which will help residents and visitors to the city move around more easily.

MaaS gives customers a single interface through which they can access a range of transportation services in their community. This includes seamless journey planning across modes, flexible and integrated payments and personalised services based on user preferences.



## 5 | DUNDEE SMART MOBILITY (CONT.)

The 8th City programme funding for The MILL runs until the end of 2022. The learning and expertise obtained in the first phase of The MILL mean that the programme is fully established and is ideally positioned to initiate the second phase of innovation pilots.

These pilots will further establish Dundee as a living lab for mobility innovation testing and venturing. It will also seek to demonstrate how technology, data and advanced mobility services can support the aims of the Dundee Low Emission Zone and help businesses to access new commercial opportunities offered by this transition.

We will continue to engage with the wider community to share our experiences and further shape the smart mobility solutions, opportunities for other cities to find out at first-hand what is being achieved via Dundee Smart Mobility.

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## 6 PERTH – CITY CENTRE CONTAINERISATION PROJECT

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The Smart Waste Phase 2 Project, delivered by Perth and Kinross Council, has enabled the approach to waste collection to be transformed. The pink bag collection policy has been replaced with ninety 1,100L continental bins, each of which are fitted with smart fill level sensors.

Until now, the Council has supplied large pink bin liners to 800 properties in the City Centre that do not have wheelie bins due to access and space restrictions. These households were asked to present their filled bags on the pavement outside their property twice a week for collection.

Placing bags on the pavement for collection creates several issues including: scattering of waste by pests such as seagulls; bags out on the wrong day or left out overnight and also encouraging illegal dumping. All these issues resulted in residents, Operations staff and visitors to the city witnessing waste strewn on the pavements.

The new bins have been situated at 42 hubs around the city centre of Perth and provide convenient locations for those city centre residents previously on pink bags to dispose of their waste any time of the week.

With funding via the 8th City ERDF programme, each bin has been fitted with a smart sensor so that fill levels and collections can be monitored more closely to help improve the service further. The available data will help to ensure that there is the correct bin capacity at each location, whilst also monitoring any incorrect presentation of waste to help the last remaining residents to migrate across to the new service.

The transition has been fairly seamless and the feedback from both the general public and the collection crews has been excellent.

**Magda Jakub**  
**Smart Waste Project Officer, Perth & Kinross Council**



## 7 8TH CITY DATA CLUSTER EVENT FOR DATAFEST 2020 - #BEYONDDATA

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Coordinated by The Data Lab, DataFest is an annual showcase of Scotland's leading role in data science and artificial intelligence on the international stage.

DataFest 2020, scheduled to run from 9th - 20th March, was themed #BeyondData and sought to highlight the real impacts that data and AI can have in people's lives. Organisers outlined a focus on what's beyond what we are capable of with data and existing technologies, and to look at the value that data can bring to businesses in every industry sector, in our cities and the world, in innovation and discoveries, and in our future!

As part of this year's DataFest fringe programme the 8th City Data Cluster made a pitch to deliver a showcase event on 'Innovating with data across the public sector – a Scottish Cities perspective'. This event took place on 12th March at the recently opened Famous Grouse Ideas Centre (one of the smart city projects part-funded via the 8th City ERDF programme) within the new Perth Creative Exchange.

Almost 50 participants attended the event - which was one of the last events to take place before the DataFest 2020 programme was cancelled due to Covid-19. Inputs on the day included:

- The context for data led innovation (with presentations from Scottish Government, 8th City ERDF programme, and 8th City Data Cluster)
- Demonstrating the impact (use cases on behalf of Aberdeen, Dundee, Edinburgh, Glasgow, and Perth)
- Sharing Lessons Learned

To support the event, a use case report was produced highlighting data-led activity in each city. This report forms the basis for a selection of blogs on the Scottish City Alliance website – see <https://www.scottishcities.org.uk/media/blog>. Organisers are also producing a report on the development and delivery of the event, including key presentations.

For further information please contact:

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## 8 OFFICIAL OPENING OF PERTH CREATIVE EXCHANGE AND THE FAMOUS GROUSE IDEAS CENTRE

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Perth Creative Exchange, a £4.5 million creative hub which will help boost the local Perthshire arts economy, was officially opened at a launch ceremony on Wednesday February 26, by the Provost of Perth and Kinross, Dennis Melloy.

The Provost unveiled a plaque to commemorate the success of this partnership regeneration project by Wasps Artists' Studios and Perth & Kinross Council, in transforming an empty school building into a facility of high quality, affordable studios for artists, makers and creative businesses. It houses The Famous Grouse Ideas Centre for creative business incubation, a facility which was part funded by the Scottish Cities Alliance's 8th City Programme, funded through the European Union's ERDF Strategic Intervention. As well as a significant contribution from Edrington (The Famous Grouse).

Provost Dennis Melloy said: "I am delighted to see the Perth Creative Exchange facility come into being, made possible by a £3.5 million investment by Perth & Kinross Council."

We are creating an environment which encourages creative and artistic growth, whilst retaining and attracting talent to the City of Perth. Not only has Perth Creative Exchange attracted resident creative people from across Scotland to the Fair City, this splendid facility is already fully let and expected to support 66 full time equivalent jobs and generate wage earnings of just under one million pounds per annum across the local economy."

"The creative sector is now the fastest growing sector in the UK. In 2018 it added £111 billion to the economy, an increase of just under 8% from the previous year. And Perth and Kinross is a place where businesses thrive – but creative people need particular support for their talent to thrive and grow. We have around 1,500 creative industries in our area, many of which are very small scale but have huge potential to grow."

More info at: [www.scottishcities.org.uk/media/blog/official-opening-and-first-exhibition-to-celebrate-perths-new-creative-hub](http://www.scottishcities.org.uk/media/blog/official-opening-and-first-exhibition-to-celebrate-perths-new-creative-hub)

## 9 SMART CITIES SCOTLAND ENGAGED IN EUROCITIES SHARING CITIES

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Sharing Cities is a Smart City replication initiative, led by the lighthouse cities of Lisbon, London and Milan - with Bordeaux, Burgas and Warsaw also actively engaged as 'fellow cities'. An application in 2019 for Scottish cities / Smart Cities Scotland to join the programme (as a 'Replication City') was successful - along with applications from Debrecen, Kharkov and Wuppertal.

Sharing Cities has ten smart city measures being implemented by lighthouse and fellow cities - with an offer that replication cities have access to information, learning and resources for each of these measures. The ten measures include: Smart lamp posts; Urban Sharing Platform; Citizen Engagement; Energy Management; Building Retrofit; e-car sharing; e-vehicle charging points; Smart parking; e-logistics; and e-bike sharing.

One of the outcomes of involvement in the Sharing Cities programme is that cities are supported in the development and delivery of smart city strategies. This is supported by a needs assessment process - with Scottish cities benefitting from shared information and guidance.

Further updates will be provided via the 8th City Advisory Group. More information at: [www.sharingcities.eu/](http://www.sharingcities.eu/)





## 10 SCOTTISH CITIES ALLIANCE'S FOUNDATIONS FOR A HYDROGEN ECONOMY PAY DIVIDENDS



Aberdeen City Council Co-Leaders, Cllr. Jenny Laing and Cllr. Douglas Lumsden (left), and David Phillips, First Aberdeen Operations Director (right), at the hydrogen refuelling station in Cove, Aberdeen.

Informed by the Scottish Cities Alliance commissioned study on 'Building a Hydrogen Economy for Scotland' (2013) and resulting strategy outlining a national vision for using hydrogen, Scottish cities are pursuing several key strands of activities to develop a hydrogen economy.

One of the most significant and ambitious projects that the Alliance is involved with is the commercialisation of hydrogen fuel cell buses and infrastructure, which is the largest project of its scale in Europe.

The new £8.3million project has been funded by Aberdeen City Council, the Scottish Government and, through the Alliance, the European Union's JIVE project, which aims to aid commercialisation of hydrogen buses through joint procurement between cities. Dundee is a lead partner in the JIVE2 programme.

The buses will complement Aberdeen's existing fleet - including a range of hydrogen and electric vans and cars

through a car share scheme. They are as efficient as electric equivalents, with refuelling taking less than 10 minutes and offering a greater range. Water is the only emission from the vehicles which reduces carbon emissions and the new buses will contribute to Aberdeen's commitment to tackling air pollution.

The UK's first hydrogen production and bus refuelling station was opened in Aberdeen in 2015 as part of a £19million green transport demonstration project. The Aberdeen City Council-led project tested the economic and environmental benefits of hydrogen transport technologies and aims to drive the development of hydrogen technologies.

Aberdeen City Council Co-Leader Councillor Jenny Laing said:

"Aberdeen is at the forefront of developing green technologies and our continued innovative commitment to hydrogen truly puts us on the global map.

The new buses come with even better

## 11 SCOTTISH CITIES ALLIANCE'S FOUNDATIONS FOR A HYDROGEN ECONOMY PAY DIVIDENDS (CONT.)

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technology helping to tackle air pollution in the city and further makes Aberdeen an entrepreneurial and technological leader by pushing boundaries for hydrogen.

"We are really proud to be the world's first city with hydrogen double-deckers and we look forward to seeing them on the city's roads.

The introduction of hydrogen fuelled buses will further underline Aberdeen's role as a pioneer in hydrogen.

Alongside multiple hydrogen-led projects throughout the Scottish cities, this will allow Scotland to position itself as one of Europe's leading early adopters of hydrogen technology and attract investment into sectors such as manufacturing, engineering, energy and commercialisation of the technology over the next few years.

The use of hydrogen solutions will also contribute to the achievement of Scotland's challenging climate change targets and improve local air quality.

Scotland's Energy Minister, Paul Wheelhouse, said:

"Scotland has some of the most ambitious emission reduction targets in the world so, in the years to come, I expect we will begin to see many more 'greener and cleaner' transport solutions like this begin to emerge.

"I'm proud that today's announcement, which is a world first, has been made possible thanks in part to Scottish Government funding.

"We are currently undertaking a wide-ranging project to assess the potential for hydrogen and hydrogen fuel cells for use in transport and heating across

Scotland. Hydrogen could well play an important role in the energy transition that's required in order to meet our 2045 net zero emissions target."

See <https://www.scottishcities.org.uk/media/blog/world-first-hydrogen-double-deckers> for blog.

## 12 SCOTTISH GOVERNMENT / MANAGING AUTHORITY

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In considering the impact of Covid-19 on the delivery of ESIF Operations and Strategic Interventions, the Managing Authority in Scotland has received many queries from Lead partners, delivery bodies and representative organisations in recent weeks.

In response, the Managing Authority (MA) has produced a Q&A document for Lead Partners and Delivery Agents to refer to before contacting the MA. This document seeks to address some of the most common queries and will be updated as changes occur.

### **The Q&A document is organised into three sections:**

1. Claims process – submission and payment
2. Delivery of ESF/ERDF operations
3. Eligibility and audit requirements

In the introduction to the Q&A document Hilary Pearce, Head of the Managing Authority and Deputy Director, European Structural Funds and State Aid Division notes the following:

“In the current circumstances, we recognise that there will be very different and reduced programme activities, very different models of delivery and vastly different working arrangements. Evidence of activity and outputs, achievement of targets and milestones, staffing levels and arrangements will all be severely impacted for the duration of the COVID-19 disruption and possibly beyond.

We fully understand and accept this. In the circumstances we simply ask that as far as possible you continue to deliver where and however you can, making sure to keep a robust audit trail.

### **In the meantime we promise to:**

- Continue to make all payments as promptly as we can
- Be flexible about all processes and procedures for you to continue to deliver all European structural fund operations where possible.
- Issue a regular update including any updates to this Q&A document to maintain communication flows

I hope this provides some clarity and reassurance and will enable you to continue to deliver your extremely valuable work under these very difficult circumstances.”

The document is available at:

[www.gov.scot/publications/coronavirus-covid-19-european-structural-and-investment-funds/](http://www.gov.scot/publications/coronavirus-covid-19-european-structural-and-investment-funds/)



## 13 POLICY / RESEARCH

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### URBAN INTERMEDIARIES RESEARCH (GOVAN) AND LAUNCH OF STRATEGY



Working from the premise that European cities face complex challenges that demand smart solutions, this project puts urban intermediaries - those people who can bring people and resources together in innovative ways - at the heart of smart urban development and sets out to understand how they create social innovation.

Project research took place in four European cities - Birmingham, Copenhagen, Glasgow and Amsterdam - and involved collaborative work with a range of partners in the public, third and community sectors, brought together in local and transnational 'living labs'. The project sought to advance knowledge of how intermediaries innovate and generate smart urban development, creating opportunities for dialogue and learning between social innovators across Europe.

The Scottish launch of the research report took place in December 2019 in Govan. The report and other project resources are now available on the website, as follows:

- The Full Research Report: [www.smart-urban-intermediaries.com/wp-content/uploads/2019/11/Socially-Smart-Cities-Report-2019.pdf](http://www.smart-urban-intermediaries.com/wp-content/uploads/2019/11/Socially-Smart-Cities-Report-2019.pdf)
- The Policy and Practice Briefing (European-wide): [www.smart-urban-intermediaries.com/wp-content/uploads/2019/11/Social-Transformation-in-Urban-Neighbourhoods-Policy-Brief-2019.pdf](http://www.smart-urban-intermediaries.com/wp-content/uploads/2019/11/Social-Transformation-in-Urban-Neighbourhoods-Policy-Brief-2019.pdf)
- The Scottish Policy Supplement: [www.smart-urban-intermediaries.com/wp-content/uploads/2019/12/Supporting-Smart-Urban-Intermediation-Scottish-Supplement-2019.pdf](http://www.smart-urban-intermediaries.com/wp-content/uploads/2019/12/Supporting-Smart-Urban-Intermediation-Scottish-Supplement-2019.pdf)
- There is new blog material on our blog-page: [www.smart-urban-intermediaries.com/blog/](http://www.smart-urban-intermediaries.com/blog/) - including the most recent from Govan: <http://www.smart-urban-intermediaries.com/getting-serious-about-socially-smart-urban-regeneration-some-critical-questions-for-all-of-us/>
- There is, too, the short film report from our final conference in Copenhagen (and other project films): [www.smart-urban-intermediaries.com/films/](http://www.smart-urban-intermediaries.com/films/)
- You can also see the wider range of project publications at: [www.smart-urban-intermediaries.com/publications/](http://www.smart-urban-intermediaries.com/publications/)
- If you'd like to stay in touch with the project and any further publications and blog-pieces that emerge, please do sign-up to the newsletter or contact us via: [www.smart-urban-intermediaries.com/contact/](http://www.smart-urban-intermediaries.com/contact/)

Dr Oliver Escobar and Dr James Henderson

James Henderson, Research Fellow, Smart Urban Intermediaries - view the project here: [www.smart-urban-intermediaries.com/](http://www.smart-urban-intermediaries.com/)



### **SIGNALS IN THE NOISE: MODELLING THE PATTERNS OF CHANGE IN LOCAL GOVERNMENT**

Published in April 2020, this paper sets out a framework to guide work and thinking about the changing role and function of local government - described as 'new operating models'. This was developed through research which accompanied Nesta's Upstream Collaborative - a programme for local government innovators to share, accelerate and assess new models that work upstream of social problems to help create the conditions that enable citizens' needs to be met in empowering and inclusive ways.

Report available at:  
[https://media.nesta.org.uk/documents/Signals\\_in\\_the\\_Noise.pdf](https://media.nesta.org.uk/documents/Signals_in_the_Noise.pdf)

For more info about the **8th City Update** newsletter contact Stephen Birrell, 8th City PMO - [stephen.birrell@glasgow.gov.uk](mailto:stephen.birrell@glasgow.gov.uk) / 0141 287 8645.



### **SEIZING SUSTAINABLE GROWTH OPPORTUNITIES FROM ZERO EMISSION PASSENGER VEHICLES**

Report by Centre for Economic Performance (CEP). Published in February 2020, this report explores the ways in which the transition to zero emission passenger vehicles might help drive sustainable growth opportunities in the UK.

The report highlights opportunities in the area of passenger vehicles, in particular in automotive manufacturing and associated jobs, and finds that the rise of zero emission and autonomous vehicles offers ways to decarbonise road transport and provide growth opportunities - the UK could sustain nearly 80,000 jobs in 2030 in the production of EV vehicle components.

Next issue will be out in August 2020. Please note deadline of 13th July for submitting content. Opportunities regarding funding, events and training will be circulated via **8th City e-Updates**.