Derry City & Strabane

Building a SMART City from the Bottom Up

Kevin O'Connor
Head of Business

Derry City & Strabane
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Comhairle
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Cheantar an tSratha Báin
Derry Cittie & Stràbane
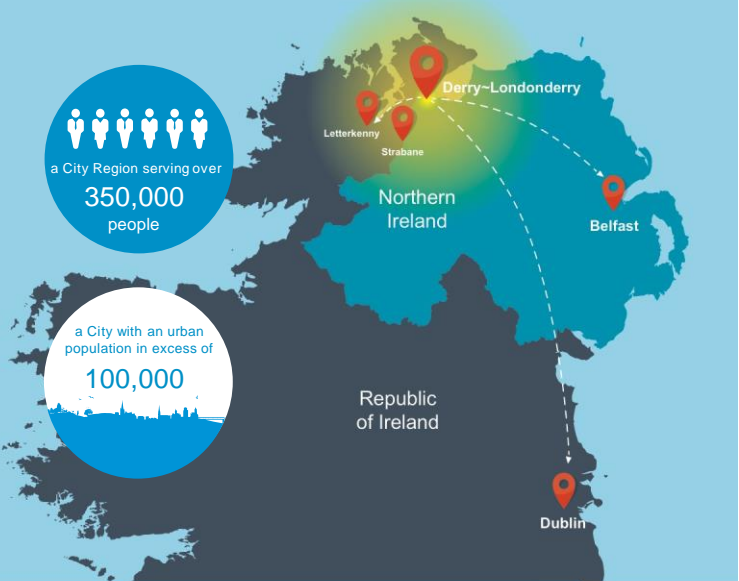Destrick Cooncil

A City Region of Opportunities: Be part of our vision

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SMART Ecosystem

Super Connected City with access to Hibernia transatlantic cable (Project Kelvin)

High availability of superfast broadband and high 4G download speeds

Wireless City Network

An established LPWAN (Lorawan) IoT network

Embedded Partnerships across Civic Society, Business and Communities

Our Digital Infrastructure makes us one of the most accessible destinations in the world

a City Region serving over
350,000
people

a City with an urban population in excess of
100,000

Derry~Londonderry

Letterkenny
Strabane

Northern Ireland

Belfast

Republic of Ireland

Dublin

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SMART Metrics

Human Capital-Youthful & Creative Population
(34% under 25)

UU Ranked in top 2% of Global Universities

1ST for Primary Maths in EU
(6th in world)

31% of school leavers educated to degree level

Top 10

2 of top 10 schools for A-levels in NI

59%

Students with 2+ A Levels
(above NI Av.)

FORBES Best Small City for Business

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We brought industry and community together…

Vision Workshop
Digital Research & Capacity Needs

Facilitator: Jose Manuel San Emeterio
Local Expert: Justin

European Commission's
Digital Cities Challenge
Derry–Londonderry

Derry City & Strabane District Council
Comhairle Chathair Dhoire & Cheantar an tSratha Báin
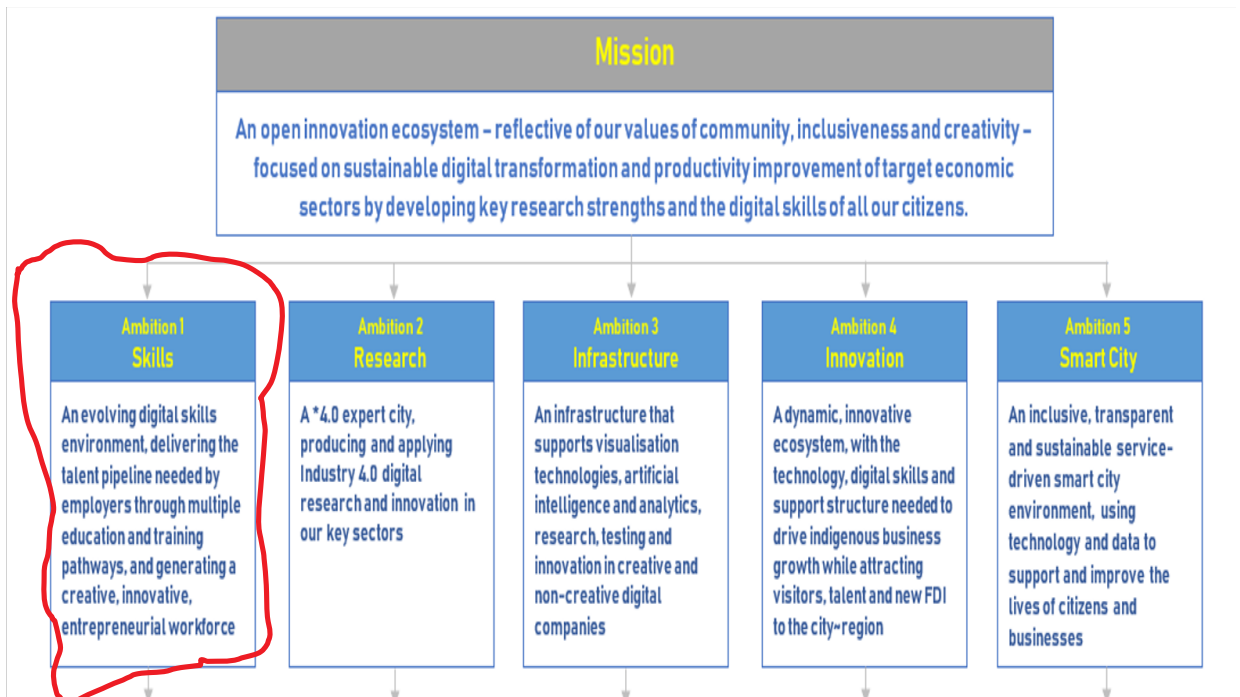Derry Cittie & Stràbane Destrick Cooncil

DIGITAL TRANSFORMATION

- Working in Collaboration with ERNACT DCSDC was selected a fellow City in the EC Digital Cities Challenge
- This involved the facilitation of a series of workshops to develop a digital city vision for the region in 2018.
- Asked Industry to collaborate with the wider community.
- Identified both problem statements and prioritised actions.
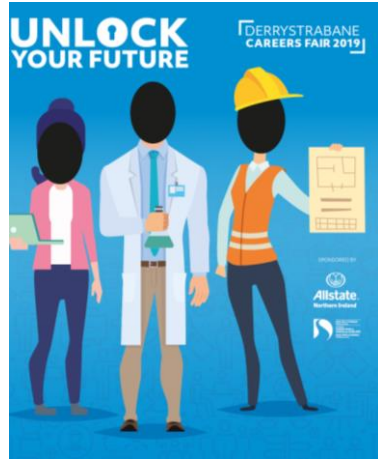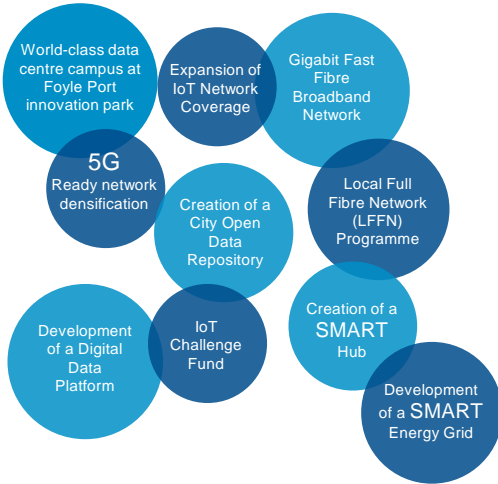
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Industry participation…

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Mission

An open innovation ecosystem – reflective of our values of community, inclusiveness and creativity – focused on sustainable digital transformation and productivity improvement of target economic sectors by developing key research strengths and the digital skills of all our citizens.

Ambition 1 Skills	Ambition 2 Research	Ambition 3 Infrastructure	Ambition 4 Innovation	Ambition 5 Smart City
An evolving digital skills environment, delivering the talent pipeline needed by employers through multiple education and training pathways, and generating a creative, innovative, entrepreneurial workforce	A *4.0 expert city, producing and applying Industry 4.0 digital research and innovation in our key sectors	An infrastructure that supports visualisation technologies, artificial intelligence and analytics, research, testing and innovation in creative and non-creative digital companies	A dynamic, innovative ecosystem, with the technology, digital skills and support structure needed to drive indigenous business growth while attracting visitors, talent and new FDI to the city~region	An inclusive, transparent and sustainable service-driven smart city environment, using technology and data to support and improve the lives of citizens and businesses

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The Digital Vision is becoming a reality…£250 million investment!

World-class data centre campus at Foyle Port innovation park

Expansion of IoT Network Coverage

Gigabit Fast Fibre Broadband Network

5G Ready network densification

Creation of a City Open Data Repository

Local Full Fibre Network (LFFN) Programme

Development of a Digital Data Platform

IoT Challenge Fund

Creation of a SMART Hub

Development of a SMART Energy Grid

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And to Build a SMART Talent Pipeline

Transformation – Healthcare Innovation Value Based Ecosystem (T-HIVE)	Centre for Industry Digitalisation, Robotics, and Automation (CIDRA)	Cognitive Analytics Research Laboratory (CARL)	Northern Ireland Innovation Enabler Centre (NIIEC)
Research & Skills Focus: • Genomes • Personalised medicine • Health analytics	**Research & Skills Focus:** • Industrial digitalisation • Robotics • Automation • Internet of Things	**Research & Skills Focus:** • Cognitive data analytics • Data Analysis	**Research & Skills Focus:** • Development of a Virtual and Augmented Reality Research Centre • Incubation/Innovation space for SME's

Industry focused Digital Skills programmes

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Industry and the Community are now making it happen..

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Smart Volunteer programme

Jason McIntosh
Finance Manager
Seagate Technology

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Our vision:

A network of Smart Volunteers who are driven to make this region a healthier, happier and more prosperous place to live, work and visit.

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What's it all about?

Our vision is to have a network of Smart Volunteers who are driven to make this region a healthier, happier and more prosperous place to live, work and visit.

Working in partnership across the city region

- Smart City Volunteers will promote the benefits of using data and work with communities to raise awareness of what a Smart City is and could be.

- We aim to show how data can help solve real life problems.

- Work together to find and create technology solutions which bring value and benefit.

- Promote cultural and behavioural change in relation to data and technology.

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What will a Smart Volunteer do?

1. ## Smart City Ambassador
   (promoting the value and benefits of a Smart City in our communities)

2. ## Education and Mentoring
   (working with young people & communities to educate on the idea of a Smart City)

3. ## Identifying opportunities for data solutions
   (working with communities to identify the opportunities for data and technology to help solve real life issues)

4. ## Applying Smart technology
   (identifying and finding/developing the technology solution to a Smart City Challenge)

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The story so far....
April 2019 - Foyle Smart City Conference

12 speakers, 150+ attendees

Themes/topics:

- Education for a Smart world
- Transforming the future through technology
- Is this region ready for a Smart future?
- How can data and technology improve our communities?
- Crafting the Datasphere

"A Smart City must grow from the bottom up"

"A strong sense of community is key to the success of a Smart City"

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The story so far....
April 2019 - Foyle Smart City Conference

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The story so far....
April 2019 - Foyle Smart City Conference

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The story so far....
Summer 2019 - Smart City Summer Schemes

5 Summer Schemes - Smart City theme

- **Part 1 - Data Awareness**
- **Part 2 - Data in Action**

Training for volunteers - specially-developed programme

Reached over <u>400</u> young people

176+ volunteer hours

Changing mindsets around data - starting with young people

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The story so far....
October 2019 - Smart Volunteer celebration/showcase

School showcase

- 80+ 17/18 year olds
- Training and workshop offer

Share Phase 1 highlights

- Celebrate 100 volunteers
- Share thought leadership
- Invite feedback

Look towards Phase 2

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What's coming next?

Design thinking workshops

Smart City speaker series

Volunteer & data training

Education programme in all local secondary schools

Skills module curriculum support

Engaged & active volunteers

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In summary...

Partnership across the city is key

Consult & involve communities

What are the <u>real</u> problems?

Start with young people

Cultural and behavioural change

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