

About me

Belfast

- City Innovation Broker
- City Innovation Team
 - Team of 7 – based in Belfast City Council
 - Enable transformation especially towards a ‘smarter’ city
- Formerly:
 - Asst Mayor of Liverpool
 - University of Liverpool Eco Innovation team
- Background in:
 - Environment/energy consultancy
 - Environmental impact assessment
 - Sustainable transport consultancy
 - Sustainability and climate change
 - research
 - action/implementation

A City Transformed

Belfast

Girdwood Community Hub



Titanic Belfast



Belfast Waterfront



Ulster University






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Belfast



A City Transformed

Belfast



Number one city globally for financial technology investment

Largest centre of its kind in UK

Number one city globally for financial technology R&D

10% of global foreign exchange transactions go through Citi's Belfast operation

Belfast Agenda

Belfast

66,000
new residents by 2035

46,000
more jobs by 2035

33%
reduction in the life expectancy gap between most and least deprived neighbourhoods by 2035

100%
of young people leaving school have a destination that fulfills their potential

Belfast – A smart city?



“Harnessing innovation, technology and data science to contribute to the success of the Belfast Agenda”



Shared understanding of city challenges



Engaged innovator community



Building city data assets



Robust delivery mechanisms

What about Belfast?



Machine Learning



Urban Mapping Tools



Internet of Things



Drone Technology



Immersive Technologies



Understanding Visitor Behaviours



Last Mile Delivery



Smart Districts

Smart Belfast...projects

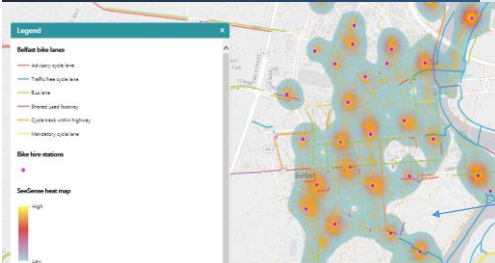
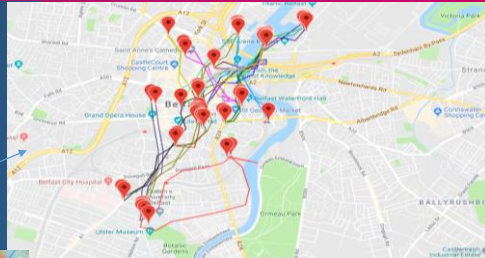
Belfast

- Amazing Spaces
- Last mile delivery
- Air quality monitoring
- Pulse smart hubs
- Maritime Mile
- AR/VR visitor attractions



iPedal – outputs

Example of some journeys, greater than 1km in length, within Belfast on the bicycles. Each red marker represents a start or end point of the journey, while the line represents the path taken. Colours represent the groupings of similar journeys.

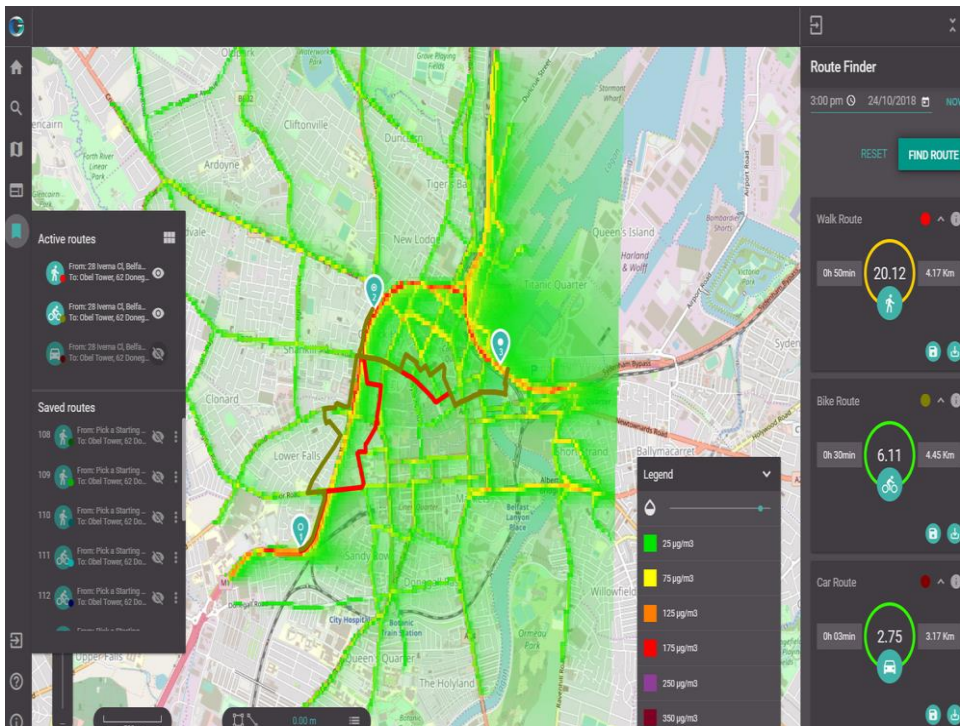


Shorter journeys



beginning to layer other data such as Bike lanes to show usage/popularity





Smart Belfast...moving on

Belfast

Sample issues:

- Transport Hub
- Smart Port
- Regeneration and development projects
- New campus
- Capital programme (BCC)
- Digital and Connectivity are key
- All enabling a smarter city

City Deal – Digital strand

Belfast

- Smart District & Regional testbeds (£68.2m)
- Regional Innovation Network (£30m)
- Infrastructure Enabling Fund (£42.3m)
- Digital Innovation Platform and Partnership (£30m)



Smart District

Belfast

- Testbed
 - For multiple sectors
 - For 5G
 - For public services and infrastructure
 - For placemaking
- Densification of 5G
 - Trial launched in the harbour
- Urban innovation sandbox



Innovation Strand – University led

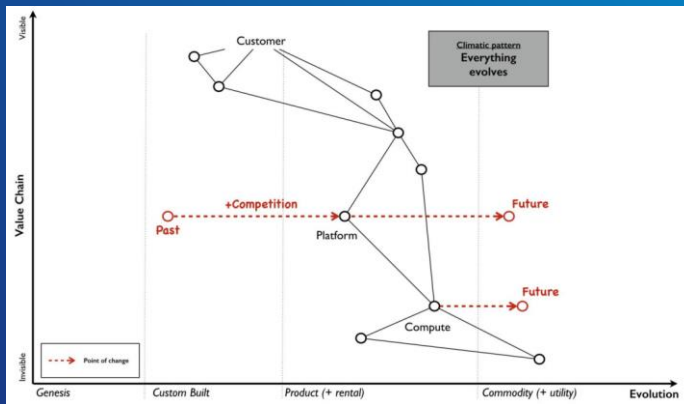
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- Global Innovation Institute
- Centre for Digital Healthcare Technology
- Institute for Research Excellence in Advanced Clinical Healthcare
- Advanced Manufacturing Innovation Centre
- Screen and Media Innovation Lab



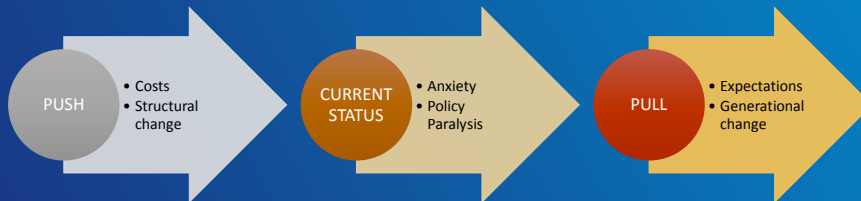
The role of connectivity

Belfast



The push for connectivity

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Sticking points

- Planning
 - Enabling roll out
 - Responding to the consequences
- Networks
 - Neutral host?
 - Free for all?
- Governance
 - Who controls the city? For whom?
 - What outcomes do we want?
 - *Quis custodiet ipsos custodes?*

Belfast



Conclusions

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- Move from technical to operational and financial
- Need to bring the public along with us
- A proper focus on use cases
- Developing areas we can try all of this out (e.g. Smart District)
- Cooperation is key
- We need people and partners to get involved!