Smart City Manchester

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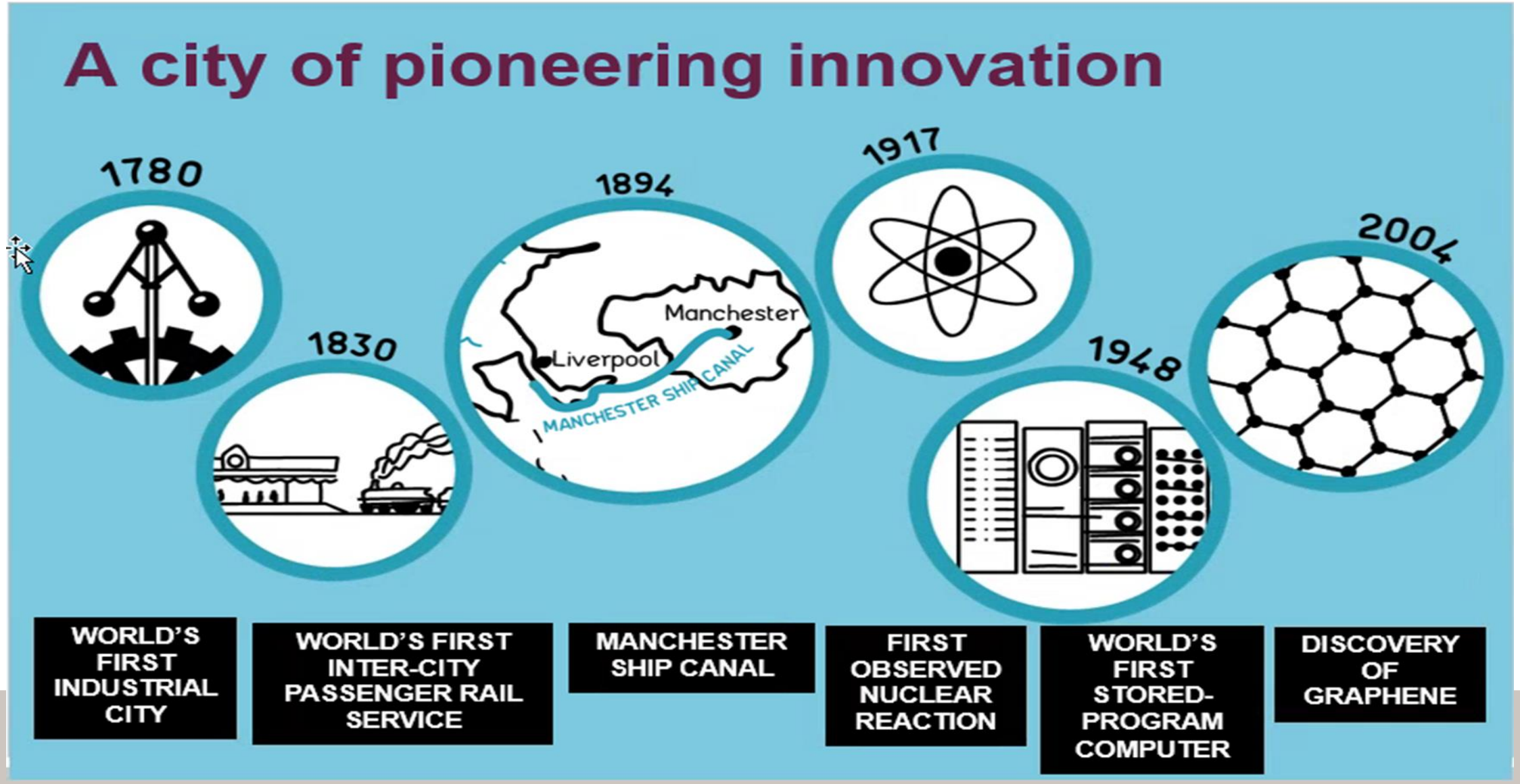
Manchester Context

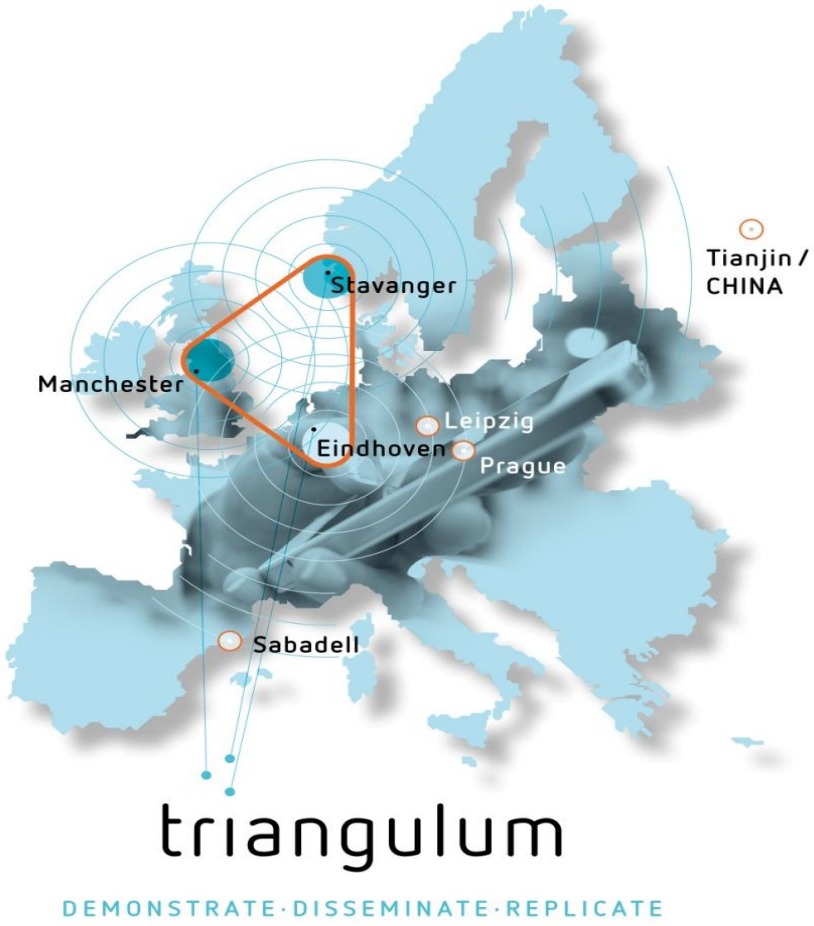


Greater Manchester Context

Oxford Road Corridor – Manchester’s Smart City District

Triangulum – Project Overview

- **Project budget: 29 million EUR**
  Horizon 2020 funding: 25.4 million EUR
- **5 year Project:** Jan 2015 – Jan 2020 Currently in M26
- **Consortium: 22 European partners in 6 countries** including municipalities, research institutes and businesses
- Project focus is on **Energy, Mobility, ICT**
- **Manchester Partners** are Manchester City Council, the University of Manchester, Manchester Metropolitan University, Siemens and Clicks & Links.



This project has received funding from the European Union's Horizon 2020 Research and Innovation Program under Grant Agreement No 646578

Additional Capacity

- MMU Birley Fields Campus

- Originally planned to install biomass and SOFC
- Amendment to install Electrical Energy Storage -
- Will complement 158kw solar pv also installed as part of the project

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MANCHESTER CITY COUNCIL
SIEMENS Ingenuity for life
Manchester Metropolitan University
MANCHESTER 1824 The University of Manchester
Clicks+Links

Mobility – e-vehicles

- MMU have purchased 2 additional e-vehicles for their staff ‘pool car’ fleet
- UoM have leased 7 e-vans for the estate maintenance team
- Both universities are creating a business case using documented carbon and cost savings to purchase further electric vehicles
- In – car telematics procured
- Siemens investigating linking the charging points to the grid monitoring activity at Birley Campus

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Mobility – e-cargo bikes

- Oxford Road restrictions
- MCC have procured the use of 4 bikes and maintenance from a fleet of 10
- E-cargo bikes have now been ‘hired’ (free of charge) for over 650 days
- E-cargo bike journey data is now automatically uploaded to the City data platform
- A variety of public and private businesses have trialled e-cargo bikes

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cityverve

Building this smart city will take trailblazing IoT technologies and a collective desire for ongoing collaboration.

At the heart of CityVerve our focus is on people – the people who live, work and visit the City. Success will be when they see and feel the difference CityVerve has made to their lives

2 km²
Innovation corridor

£16m
IoT investment

21
delivery partners

1st July 2016
Start date

15 Use Cases across Health & Social Care, Transport & Travel, Energy & Environment and Culture and Public Realm

Projects and Partnerships – CityVerve UK's IoT Demonstrator

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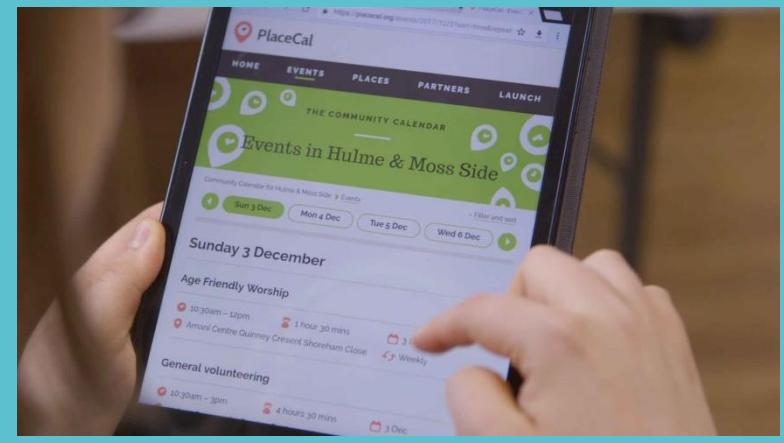
PlaceCal – an online calendar for social isolation



www.placecal.org

Buzzin’ App – City Wayfinding & AR

buzzin @buzzin_app · Dec 1

There are still spaces left on our @FuturEverything @cityverve Festive Tech Tour: Explore the Christmas Markets using Emerging Tech.

Free to register and open to the public: eventbrite.co.uk/e/festive-tech...

Use #buzzin to navigate around the @MCRMarkets. Free to download

See.Sense Smart Bike Light

SEE.SENSE \\ CYCLING TECHNOLOGY

HOW WE RECRUITED PARTICIPANTS

SEE.SENSE®

cityverve

BT

Create collateral

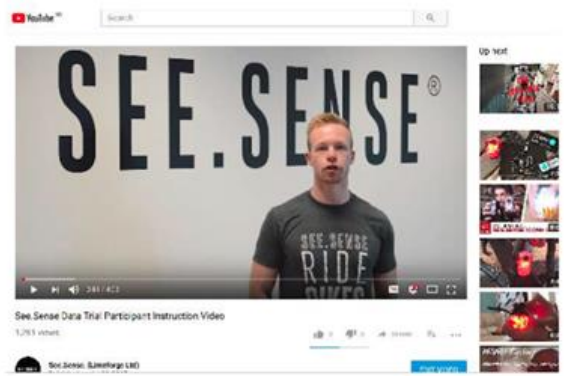
Lights offered at discounted rate of £10 (RRP is £65)

Coverage received by media outlets

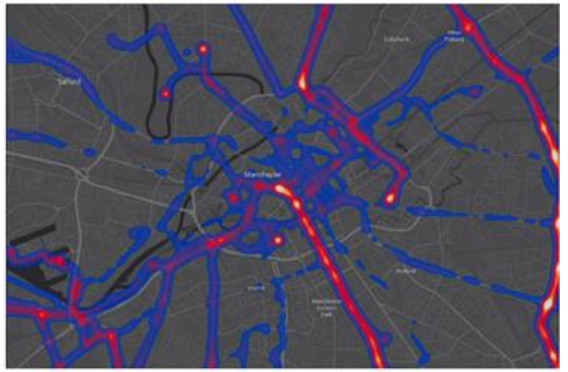
Over 400 applications received in 1 week

180 selected who met profiled criteria of commuter cyclists

Bulk delivery of lights to CityVerve/ FE and cyclists collect.



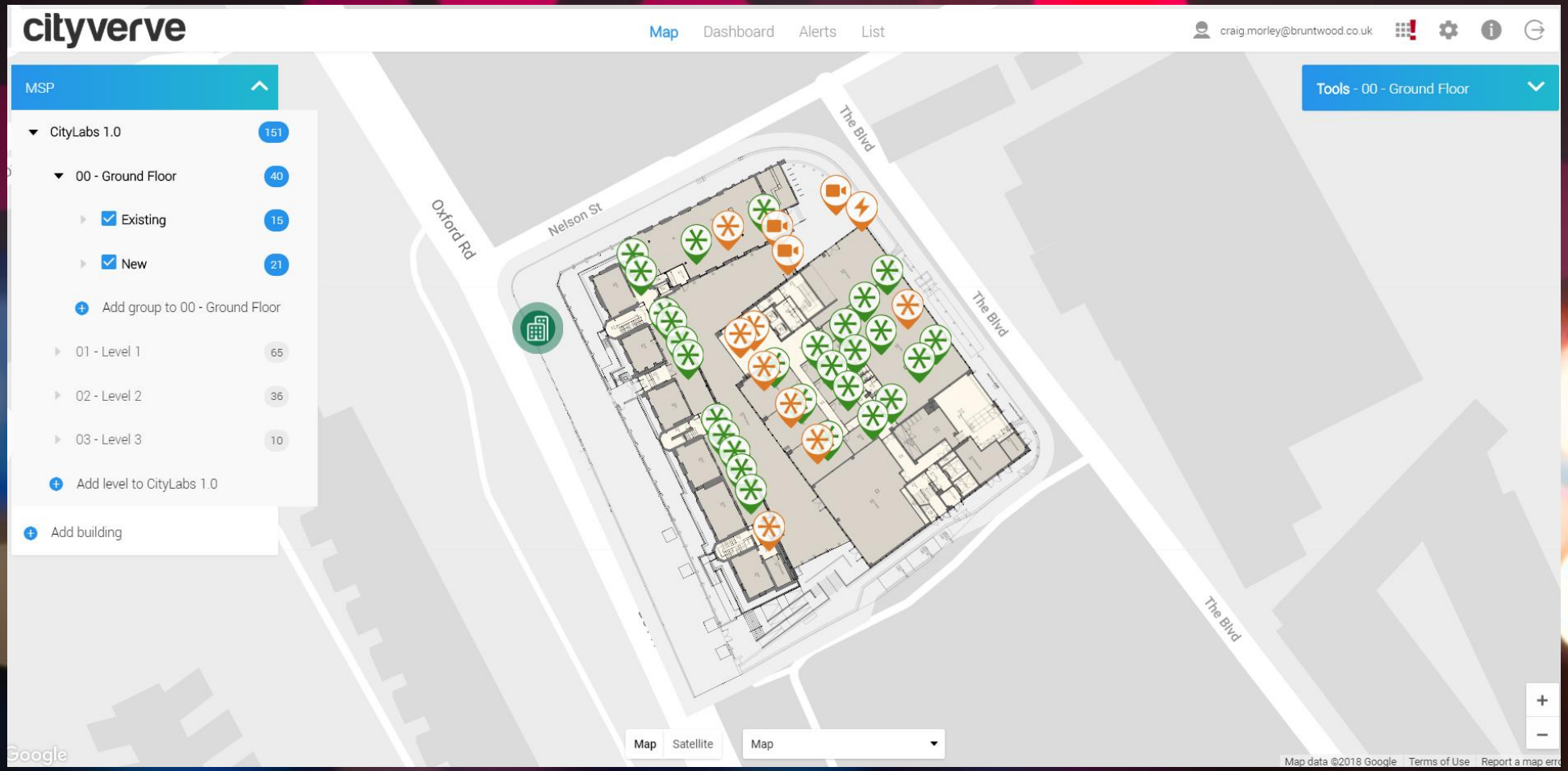
Onboarding using video on Youtube



Go live in October

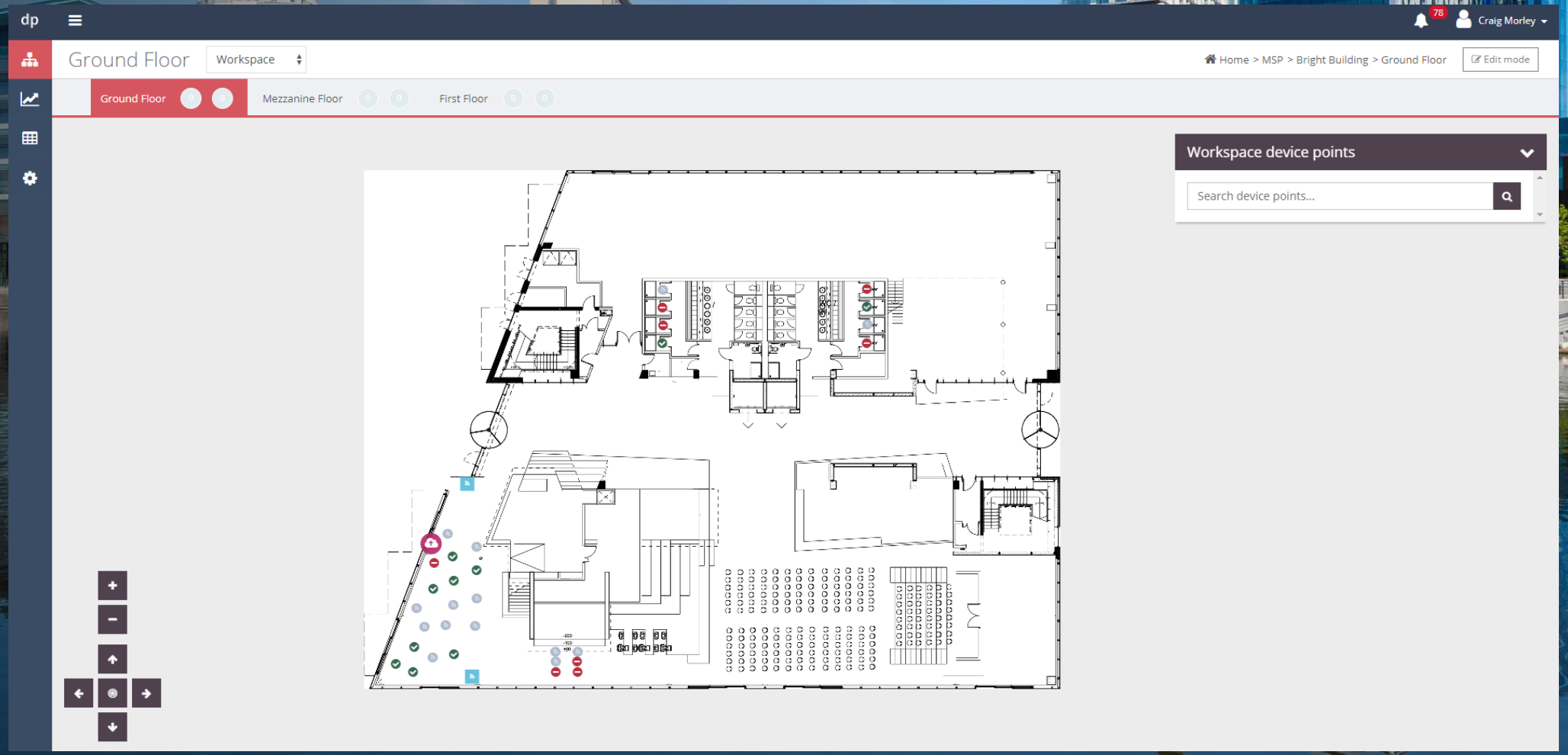
Energy & Environment

Building Retrofit



Energy & Environment

Work Place Utilisation



Working with Ordnance Survey & OGC

- OS have done mapping of Manchester as part of CityVerve
- A workshop with our stakeholders – those who use geodata in the city
- Relationship between 2D and 3D
- We want to encourage more businesses to work with geodata to improve policy making, improve public consultation and improve implementation of new services
- Operational needs around existing software & what are the new ways of working for the future.
- Being able to layer real time city data on a model
- Use of V.R. and other new platforms
- An opportunity to develop a tool for CityGML working with Manchester

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Thanks.

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