SMART DUBLIN

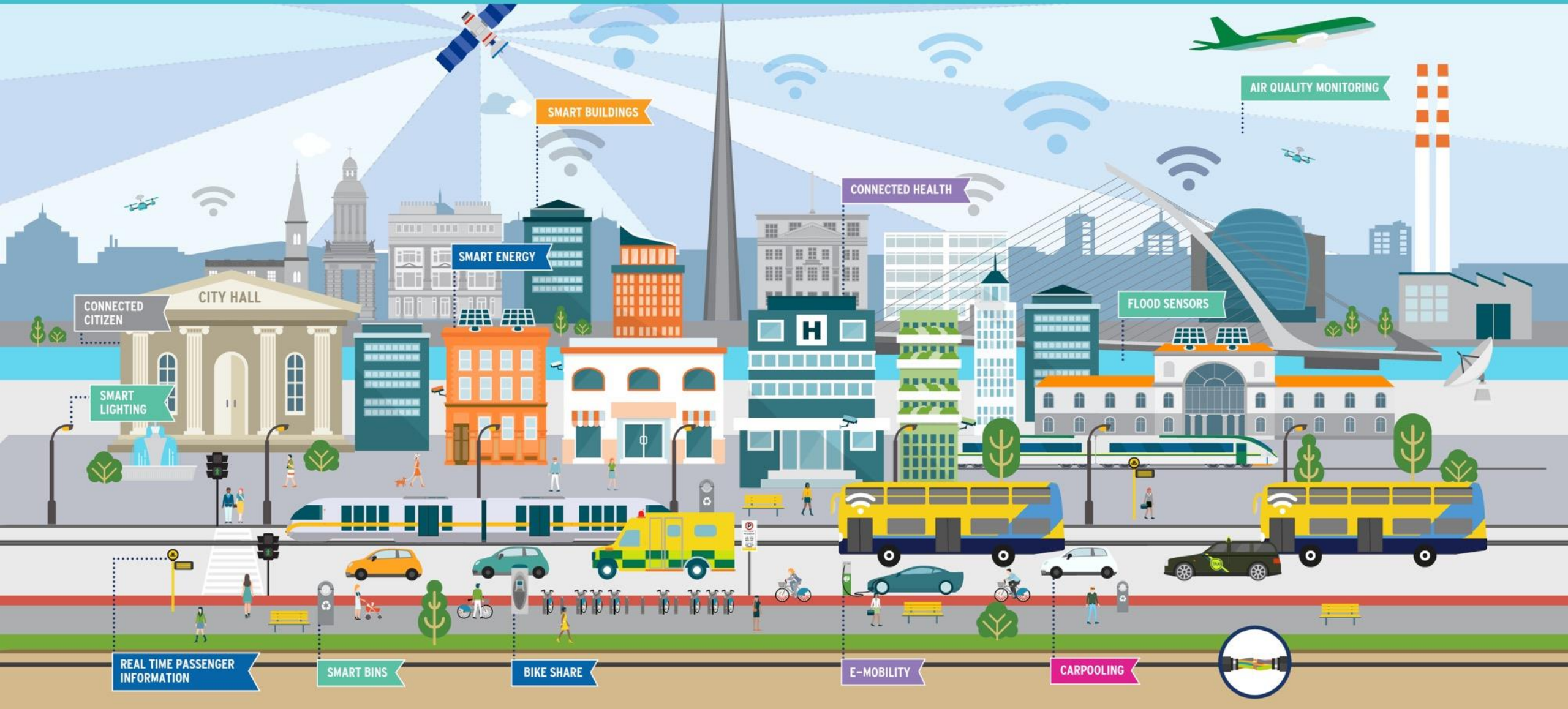
Nicola Graham
Smart Cities, Dublin City Council
Smart City Operations Manager

Promoting Innovation through engagement - Trialling and testing new solutions across the Dublin Region.

OPEN, CONNECTED & ENGAGED

WHAT IS A SMART CITY?

REAL TIME – CONNECTED – DATA DRIVEN



What is Smart Dublin?

- It is an initiative of the four Dublin local authorities.
- Finding innovative solutions for challenges facing the Dublin region by engaging with technology providers, researchers, SMEs and citizens.
- Aiming to improve services and making Dublin a better place to live, to be, to visit and to do business.

Smart Dublin Open Data Store

www.SmartDublin.ie @SmartDublin

https://data.smartdublin.ie/

SMART DUBLIN

History of Dublinked

OCT 2011 — Dublinked Open Data Portal and Innovation Network was launched in partnership with IBM and Maynooth University.

MAR 2016 — Dublinked, under the umbrella of the Smart Dublin initiative, was re-launched. The proprietary IBM portal was replaced with CKAN platform.

JUN 2017 — The decision was made to fully integrate the Dublinked portal as part of the Smart Dublin website.

SEPT 2017 — A tender for the integration and procurement of a managed service was issued through eTenders. Derilinx were successful and awarded this contract.

JAN 2018 — The newly integrated Dublinked Open Data Store went live on Smart Dublin's website.

MID 2018 — Reviews and assessments of data platform and storage architecture were conducted alongside an audit of currently available datasets.

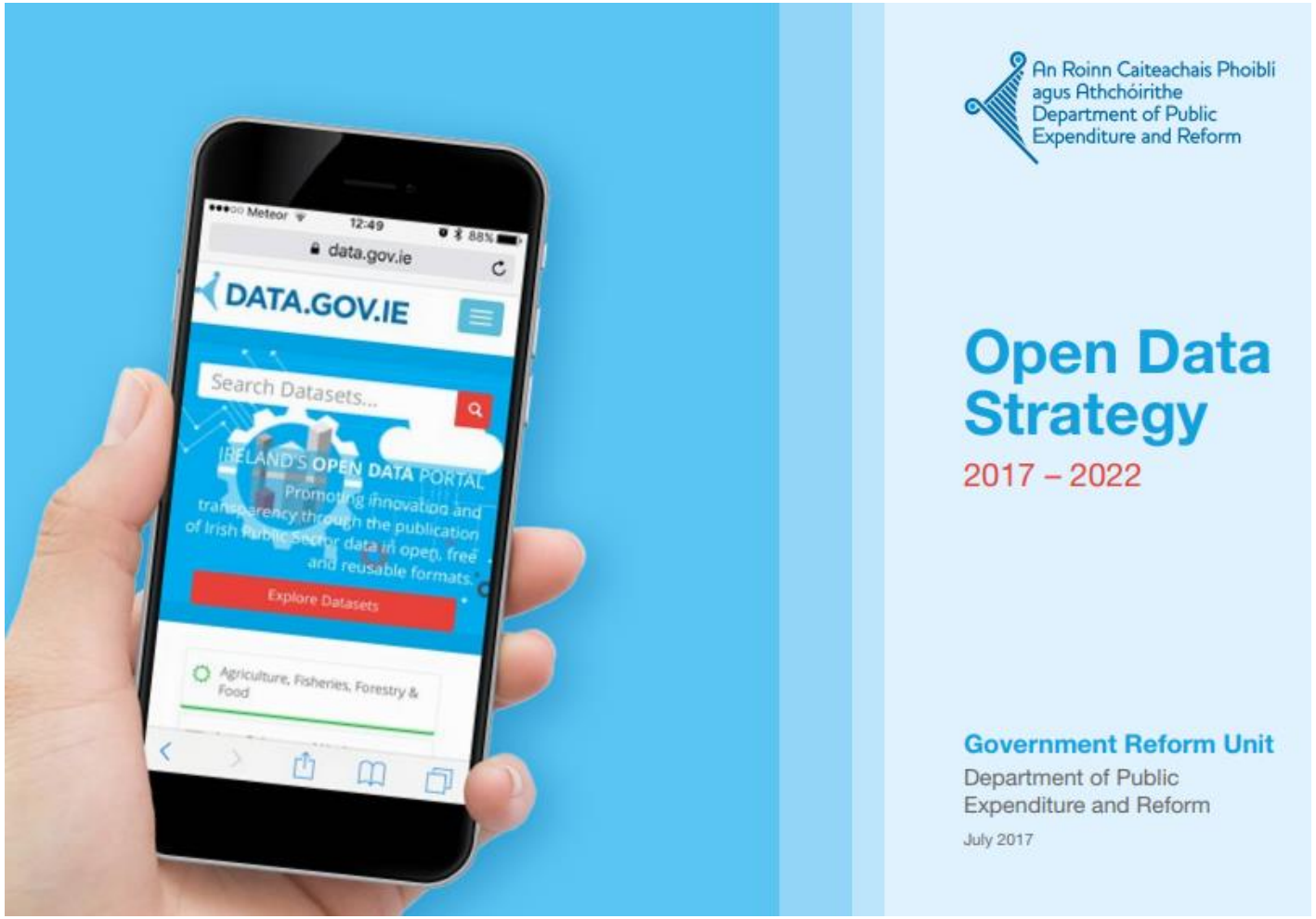
MAR 2019 — Dublinked Data Strategy 2019 approved by the four Dublin Chief Executives to drive data initiatives across the Dublin region commences.

Publishing Local Authority Data:
To drive innovation and;
To improve efficiency and services.
Promoting openness and transparency across the Dublin Region.

https://data.smartdublin.ie

SMART DUBLIN

Supporting Ireland's National Open Data Strategy 2017-2022



An Roinn Caiteachais Phoiblí agus Athchóirithe
Department of Public Expenditure and Reform

Open Data Strategy

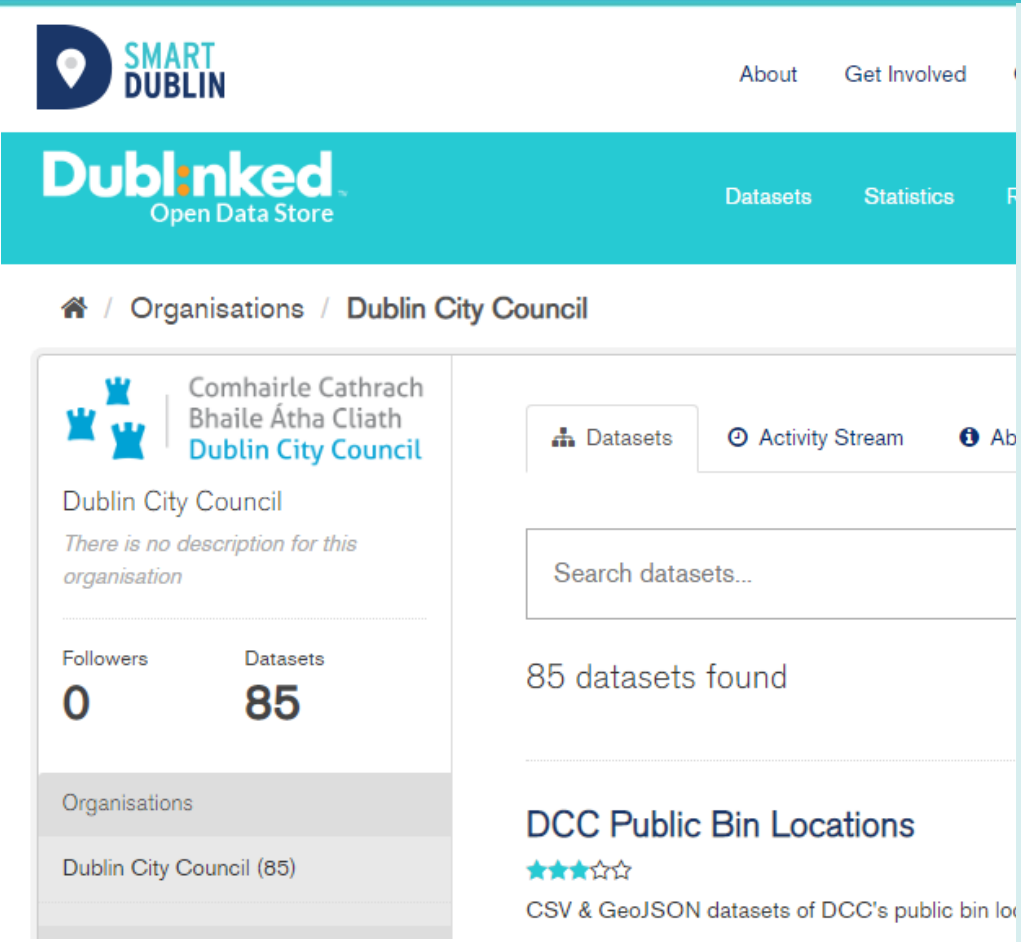
2017 – 2022

Government Reform Unit
Department of Public Expenditure and Reform
July 2017

- Ireland named No. 1 in Europe for Open Data Maturity for the second year running.
- Data shared on Dublinked is also shared on the Irish National and European Data portals.
- Data underpins all Smart City initiatives.
- Data provides evidence which can help improve decision making processes.

SMART DUBLIN

Smart Dublin Open Data Update & Cleanse 2019
Data available from: https:data.smartdublin.ie



2. Review and Cleanse Approach

Update of Existing Dublinked Data - Scope determined by the existing categories listed on the portal

1 CATEGORIES

- Environment and Energy
- Transport and Infrastructure
- Planning and Land Use
- Government and Participation
- Recreation and Amenities
- Population and Communities
- Arts, Culture and Heritage
- Public Health and Safety
- Economy and Innovation

2 DEPARTMENTS

- Group datasets within each category by LA department
- Connect with Smart Dublin Co-ordinators to identify business owner
- Contact Business Owner - is data still available/ relevant and can it be updated?

3 LOCAL AUTHORITY

- Adopt best method for publication to the portal, i.e formats.
- Repeat across each LA

4 SMART DUBLIN/ DUBLINKED

- Social Media Updates of New Datasets
- Citizen Engagement to identify data they would like to see made available
- Competition for public to visualise data from the portal??

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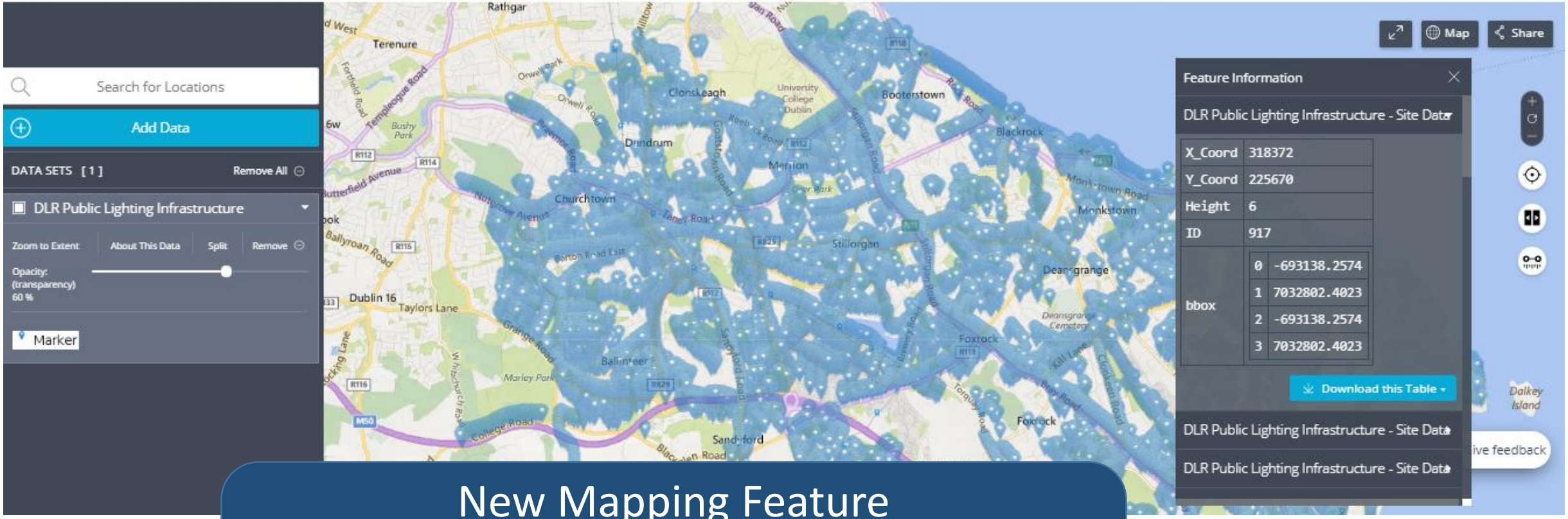
SMART DUBLIN

About | Get Involved | Challenges | Open Data | Smart Stories

Dubl:nked Open Data Store

Datasets | Statistics | Request data | News, Blog & Events | Search Open Data

Map Explorer



New Mapping Feature

- ✓ Allows the user layer multiple datasets
- ✓ Download the Raw Data
- ✓ Share the map via social media channels

OUR PROGRAMME

OUR VISION IS FOR DUBLIN TO BE A WORLD LEADING OPEN, CONNECTED AND ENGAGED SMART CITY REGION TO LIVE IN, WORK IN AND VISIT

SMART ECONOMY

SMART MOBILITY

SMART ENVIRONMENT

SMART PEOPLE

SMART LIVING

SMART GOVERNMENT

SMART DUBLIN

Collaboration Model

Google Microsoft mastercard AT&T Deloitte. accenture

ARUP JACOBS IBM intel THE DIGITAL HUB CISCO sgi HUAWEI

Research Centres:

Insight The Programmable City ICHEC CONNECT Centre for Future Networks

lero THE IRISH SOFTWARE RESEARCH CENTRE Pervasive Nation enable connecting • communities

Higher Education:

DIT DCU UCD DUBLIN

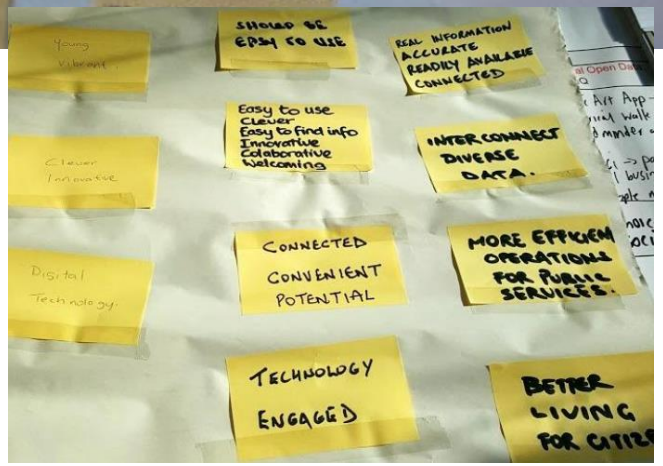
Maynooth University National University of Ireland Maynooth Trinity College Dublin The University of Dublin

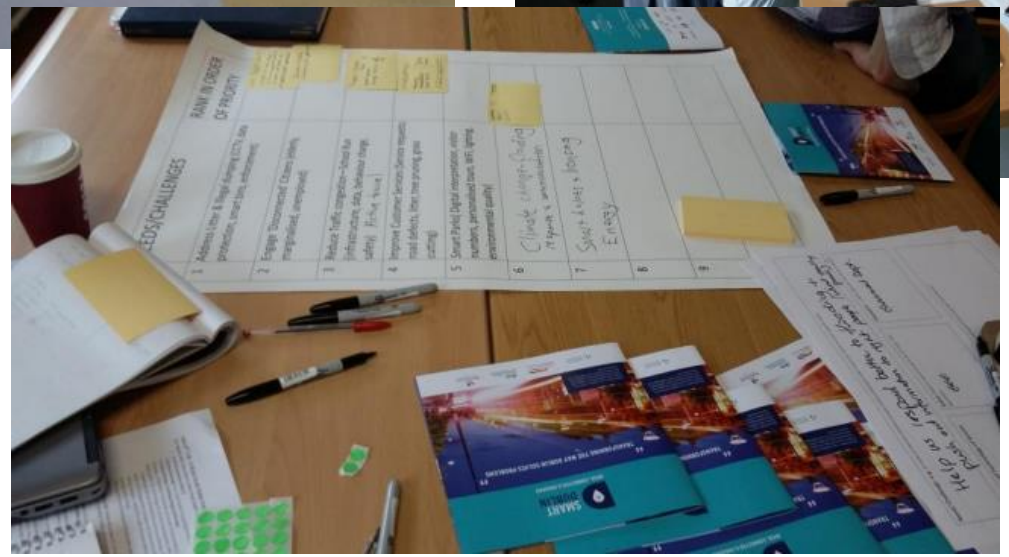
State Agencies:

IDA Ireland ENTERPRISE IRELAND

seai SUSTAINABLE ENERGY AUTHORITY OF IRELAND sfi SCIENCE FOUNDATION IRELAND

Challenge Based Approach





SMART DUBLIN

SMALL BUSINESS INNOVATION RESEARCH (SBIRs)

EXECUTING OPEN INNOVATION

SMART DUBLIN

SMART MOBILITY

- ✔ CYCLING
- ✔ WAY FINDING
- ✔ MOBILITY HUB
- ✔ LAST MILE DELIVERY

SMART ENVIRONMENT

- ✔ ILLEGAL DUMPING
- ✔ GULLY MONITORING
- ✔ BATHING WATER
- ✔ IOT

SMART PEOPLE

- ✔ UNHEARD VOICES

SMART LIVING

- ✔ FIRE SAFETY & UNIVERSAL ACCESS IN HISTORIC BUILDINGS
- ✔ AMAZING SPACES, SMART SPACES

42 INNOVATION CONTRACTS AWARDED

€1.5M+ INNOVATION FUNDING

11 CHALLENGES

IN PARTNERSHIP WITH:

ENTERPRISE IRELAND

Comhairle Contae Átha Cliath Theas South Dublin County Council

Comhairle Cathrach Bhaile Átha Cliath Dublin City Council

dlr Comhairle Contae County Council

Comhairle Contae Fhine Gall Fingal County Council

Cork City Council Comhairle Cathrach Chorcaí

Belfast City Council

Comhairle Cathrach & Contae Phort Láirge Waterford City & County Council

Limerick City & County Council

CYCLING

SEEKING SMART, LOW COST SOLUTIONS...

DUBLIN CYCLING CAMPAIGN

SMART DUBLIN

CHALLENGE: SCALE UP CYCLING IN DUBLIN

IMPROVE SAFETY

REDUCE BIKE THEFT

COLLECT BETTER DATA

APPLY HERE: WWW.SMARTDUBLIN.IE

€150,000 IN FUNDING AVAILABLE

ENTERPRISE IRELAND

Comhairle Contae Átha Cliath Theas South Dublin County Council

Comhairle Cathrach Bhaile Átha Cliath Dublin City Council

dlr Comhairle Contae County Council

Comhairle Contae Fhine Gall Fingal County Council

SEE.SENSE \\ CYCLING TECHNOLOGY

HEATMAP OF CENTRAL DUBLIN

Heatmap showing the most popular cycling routes in the city centre.

1500
cyclists apply

500
cyclists accepted

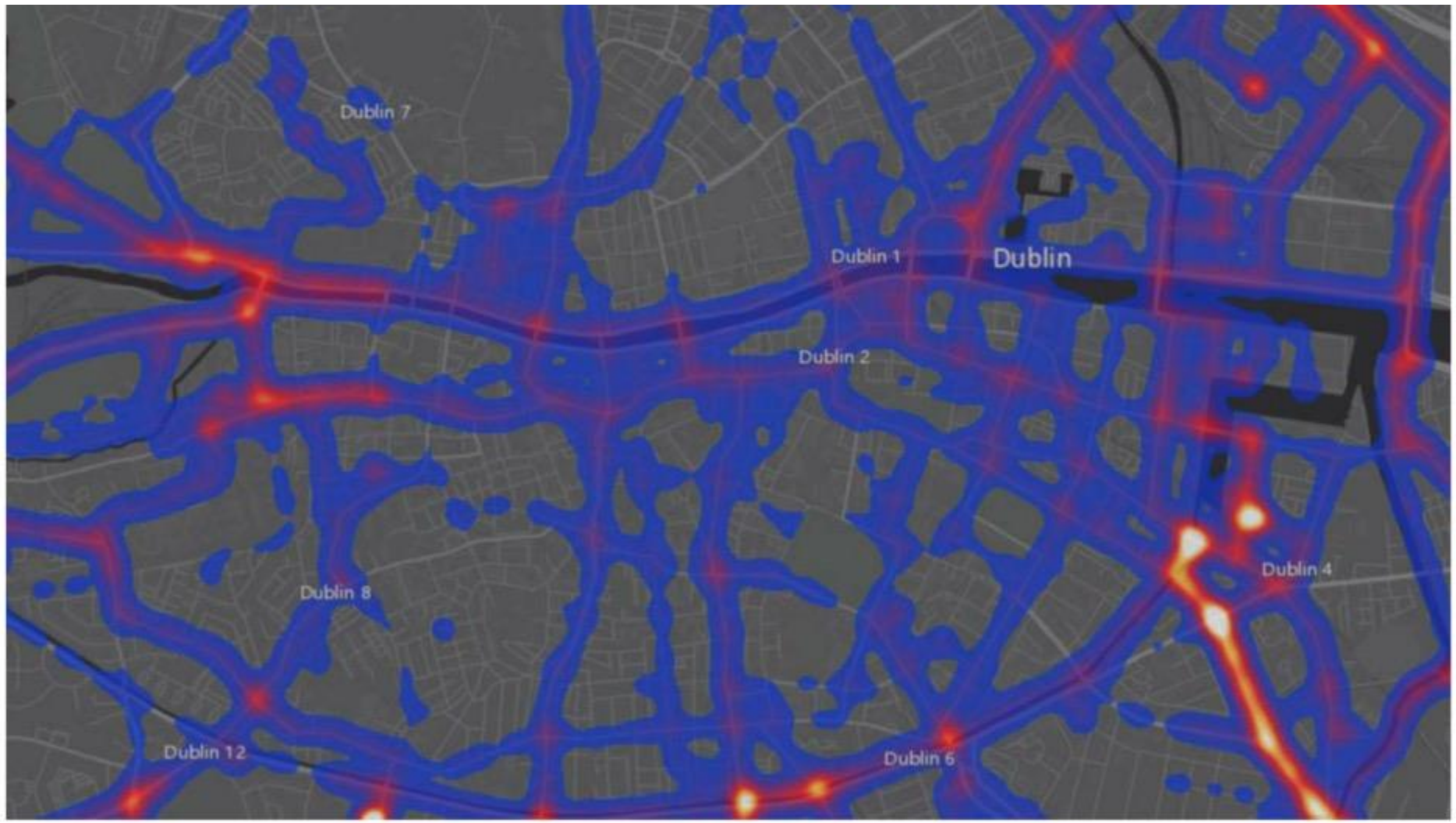
3
Months of data collection from Oct - Dec

470
cyclists collected data

573
annoyances recorded

DIRECTIONALITY

SEE.SENSE ROAD SURFACE SCORE



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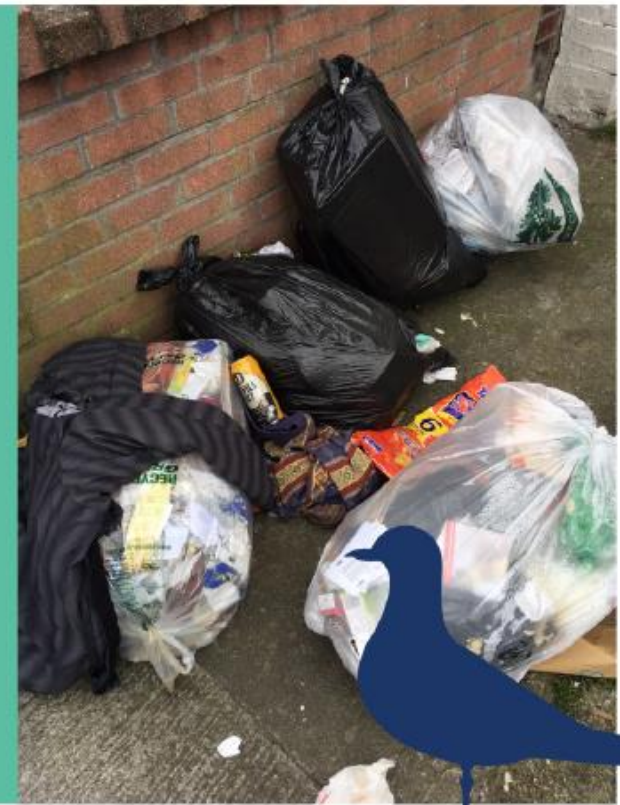
ILLEGAL DUMPING

SEEKING SMART, LOW COST SOLUTIONS...

SMART DUBLIN

CHALLENGE: PREDICT, TRACK AND DETER ILLEGAL DUMPING

(...WHILE ADDRESSING DATA PROTECTION CONCERNS)



ILLEGAL DUMPING / FLY-TIPPING COSTS DUBLIN €2 MILLION+ PER ANNUM

IT'S RUINING OUR STREETS, DESTROYING OUR COUNTRYSIDE, POLLUTING OUR ENVIRONMENT

APPLY HERE: WWW.SMARTDUBLIN.IE

€200,000 IN FUNDING AVAILABLE

ENTERPRISE IRELAND

Comhairle Contae Átha Cliath Theas South Dublin County Council

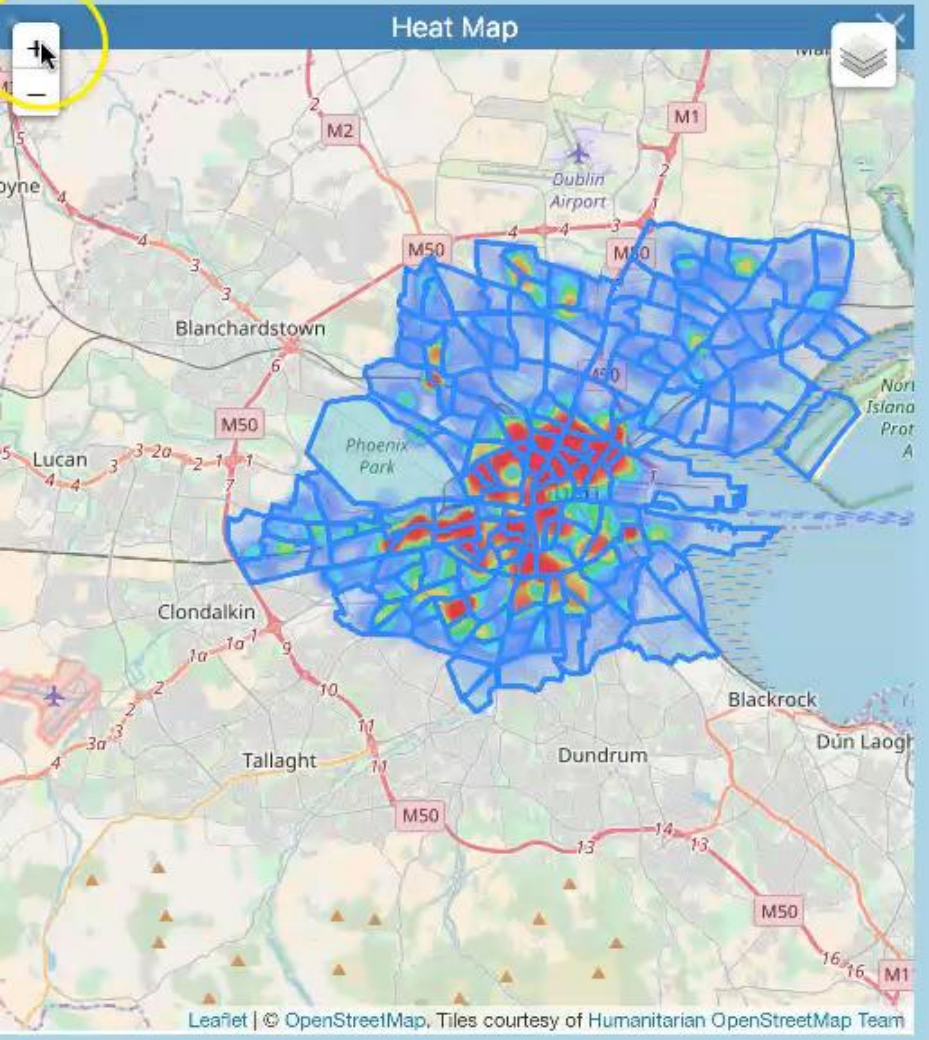
Comhairle Cathrach Bhaile Átha Cliath Dublin City Council

dlr Comhairle Contae County Council

Comhairle Contae Fhine Gall Fingal County Council

Analytics Engines | Dashboard List | COBALT ID SMART CITIES | Login

Heat Map



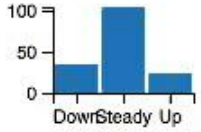
2016 Dumpings/Week

RECORDED WITH SCREENCAST-O-MATIC

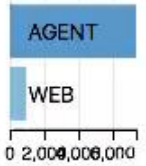
Electoral Districts

Dumping Count by ED

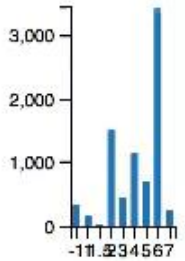
ED Quarterly Change



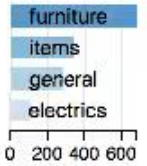
Channel



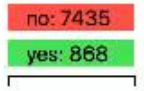
Street Class Code



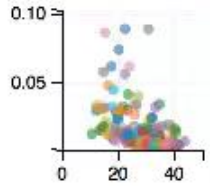
Household Waste



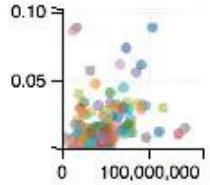
Bins Y/N



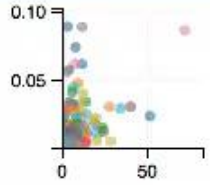
Age Dependency Ratio



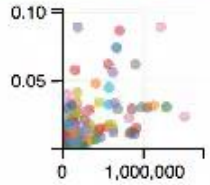
Population Density



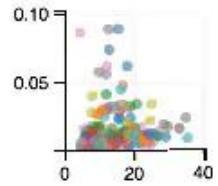
Perc Commercial



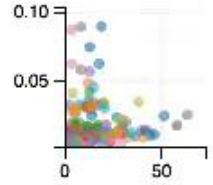
Vacant Buildings



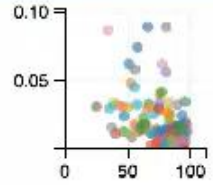
Unemployment



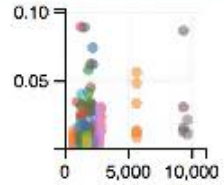
Renting



Irish



Crime



Cultivate Partnerships

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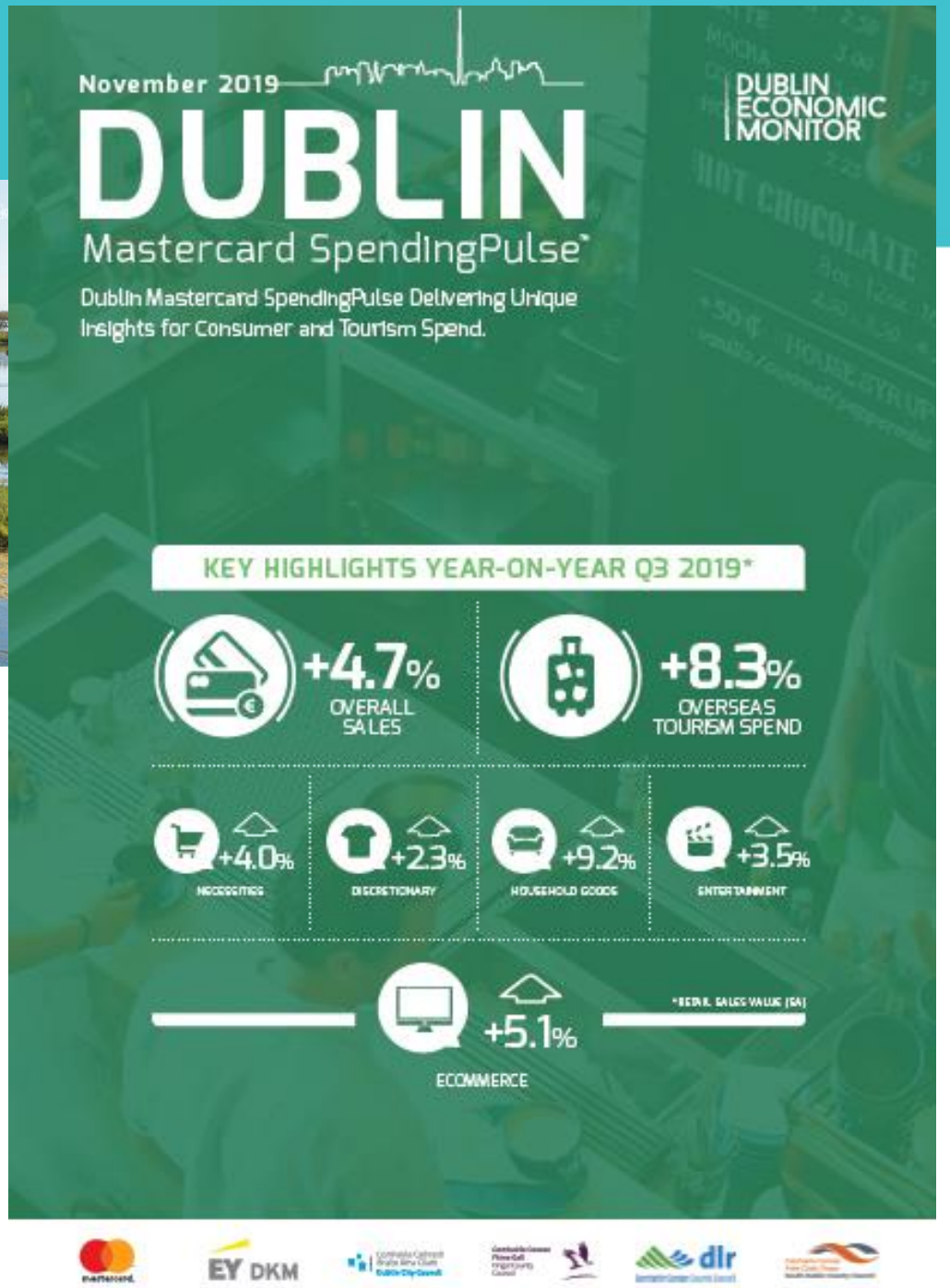


Develop Smart Districts

Providing Testbed Areas to Trial and Test New Solutions

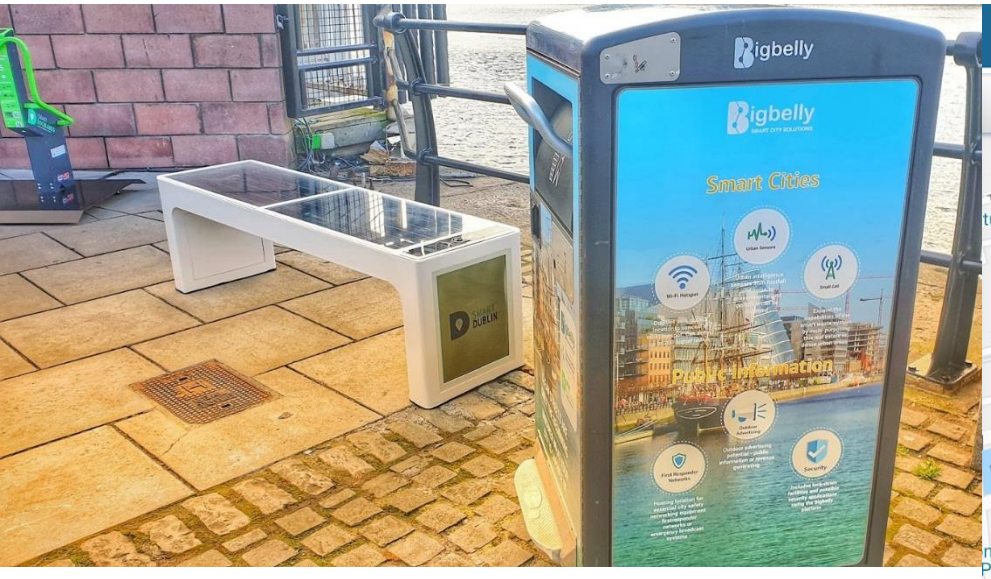
SMART SANDYFORD
A Smart Dublin District

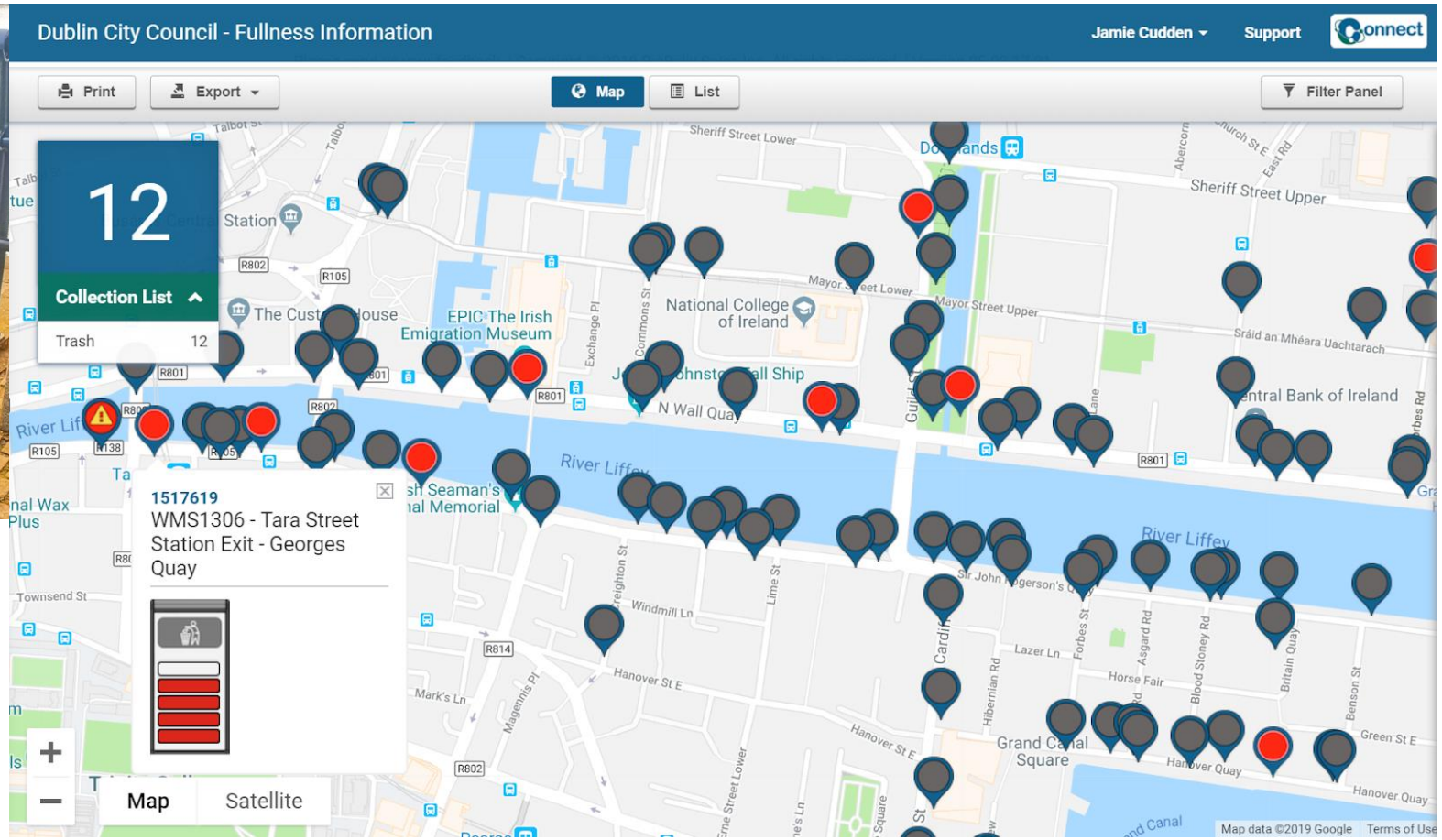
SMART DCU
A Smart Dublin District

SMART DUBLIN

www.SmartDublin.ie @SmartDublin

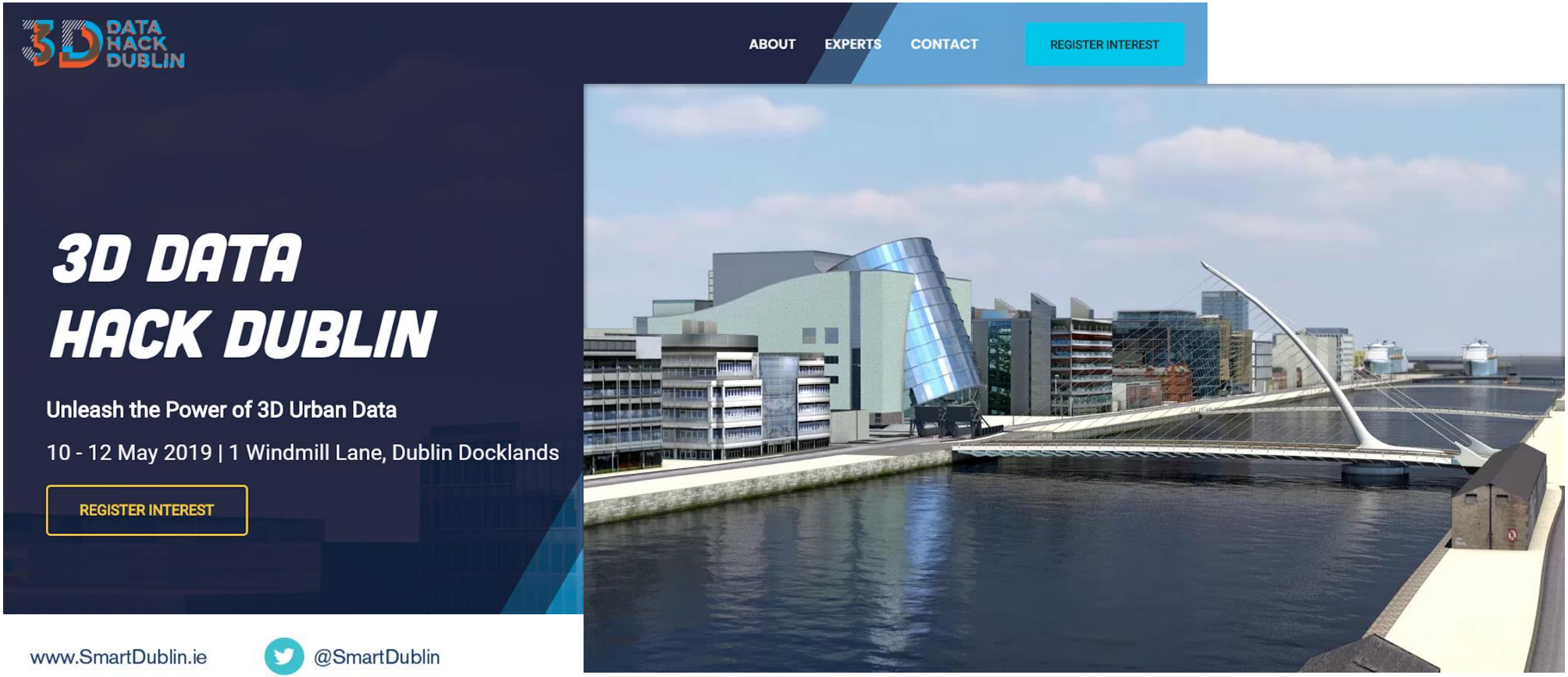
Pilot and Test New Solutions





Improving Efficiency & Testing New Business Models

Support Innovation Activities – 3D Data Hack



Staff Engagement

Summary

- Smart Dublin aims to drive innovation, improve services and make Dublin a better place to live, to work and to do business
- Collaboration, Engagement & Communication are key to the success of smart cities
- Data underpins all smart city projects
- Smart Cities are not only about new smart technologies, they are resilient, sustainable and future thinking cities.

SMART DUBLIN

SMART DUBLIN

Thank You
&
Any Questions??

Check out **SmartDublin.ie**

SMART DUBLIN
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