



Google Earth



Comhairle Cathrach  
Bhaile Átha Cliath  
Dublin City Council

## Our Goals for the City 2020 – 2024

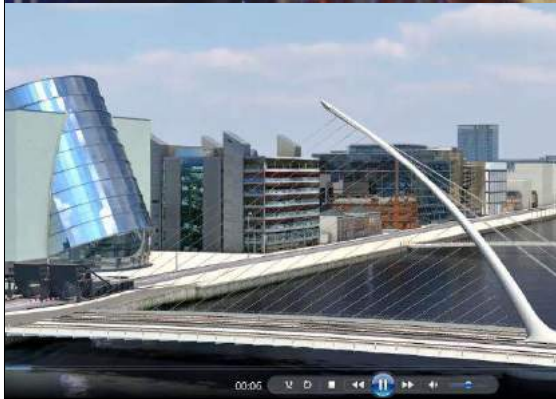


## Future Proofing Dublin

“New technologies are continuing to have major impacts on economy, society and the workplace and are fundamentally changing many traditional industries, processes and modes of communication. Being aware of and ready to take advantage of new trends in technology is essential.

Delivering a dynamic, sustainable city that is future ready

# Future is happening now in our cities and towns!



**ChatGPT**

What are you?

I'm a large language model trained by OpenAI. I'm a form of artificial intelligence that has been designed to process and generate human-like language.

Are you human?

I'm not a human and I don't have the ability to think or feel in the same way that a person does.

Facial recognition system interface showing several individuals with their IDs and demographic information:

- ID: 254876592  
MALE  
BROWN HAIR  
CAUCASIAN
- ID: 548765942  
MALE  
GREY HAIR  
CAUCASIAN  
REAR AXLE  
BAG
- ID: 25864892  
FEMALE  
CAUCASIAN  
BAG
- ID: 76528092  
FEMALE  
BROWN HAIR  
BAG
- ID: 458625943

SYSTEM RECOGNITION IN PROGRESS... 27%



**PRIVACY IN THE AGE OF BIG DATA**

RECOGNIZING THREATS, DEFENDING YOUR RIGHTS, AND PROTECTING YOUR FAMILY

Theresa M. Payton & Theodore Glynn  
Foreword by FCC Commissioner and Director of the FTC, Richard A. Cordray

**The Economist**

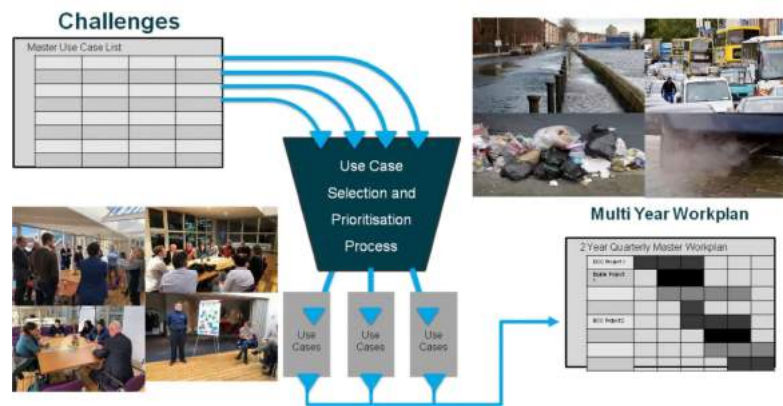
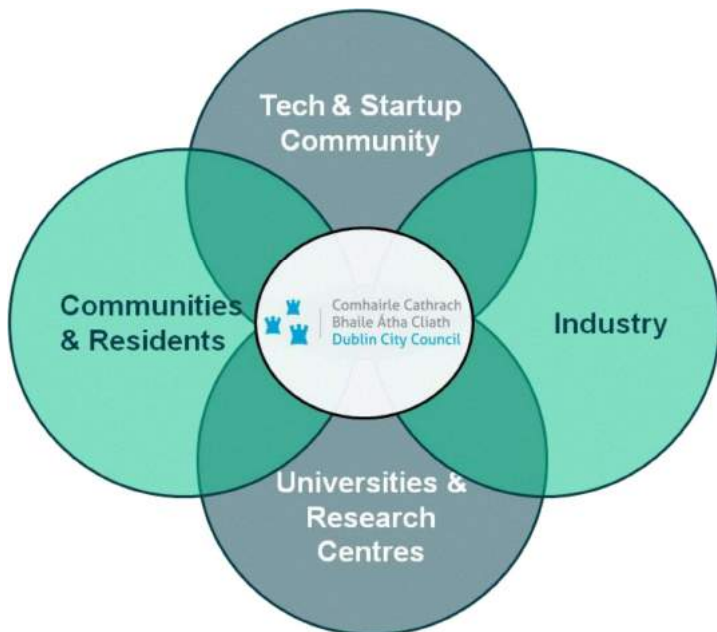
INSIDE: A 14-PAGE SPECIAL REPORT ON FINANCIAL TECHNOLOGY

**Artificial Intelligence**  
The promise and the peril

How to fix America's inner cities  
The self-service economy  
Time to open up Indonesia  
Inside the anti-fake news business  
Why business causes heatwaves

AN INITIATIVE OF THE **FOUR DUBLIN LOCAL AUTHORITIES** TO ENGAGE WITH TECHNOLOGY PROVIDERS, RESEARCHERS AND CITIZENS TO SOLVE CHALLENGES AND IMPROVE QUALITY OF LIFE.

## The City as a collaborator – challenge based approach



## ► DUBLIN AS A TESTBED

“ WE ARE BIG ENOUGH YET SMALL ENOUGH TO BE THE IDEAL LOCATION TO PILOT NEW CITY SERVICES & SOLUTIONS



### DUBLIN CITY COUNCIL SMART CITIES

**1. CONNECTIVITY PROGRAMME**  
Helping to build the digital infrastructure to strengthen city connectivity.

**2. DATA INSIGHTS PROGRAMME**  
Delivering test cases to show how data can strengthen Council decision making.

**3. EMERGING TECHNOLOGY PROGRAMME**  
Delivering test cases to show how technology can strengthen Council service delivery.

**4. ENGAGEMENT PROGRAMME**  
Building resources, knowledge, networks and partnerships to strengthen Council outreach.

**5. PROGRAMME SUSTAINABILITY**  
To ensure the operations and continuation of the Smart Cities programme.

# 1. Connectivity



CASE STUDY

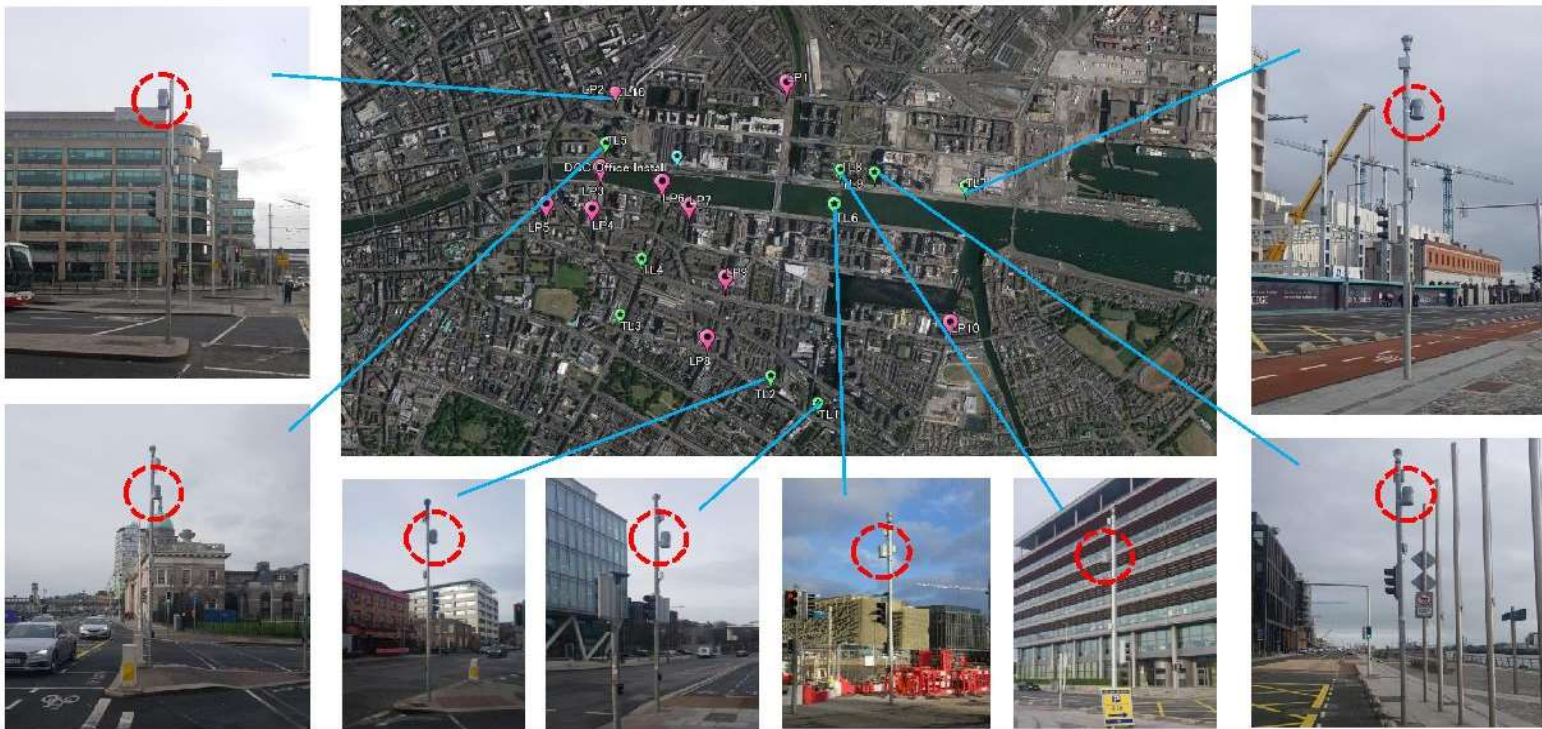
## Telecoms Unit, Dublin



2017	2018	2020	2021	2022
<b>Smart Docklands</b> <ul style="list-style-type: none"> <li>- Launch of the Smart Docklands District and Testbed</li> <li>- Market PIN Notice issued on Future Gigabit Wireless</li> </ul>	<b>Neutral host testbed</b> <ul style="list-style-type: none"> <li>- Partner with the CONNECT Research Centre and Dense Air to launch neutral host telecoms testbed in the Docklands</li> </ul>	<b>National 5G Whitepaper</b> <ul style="list-style-type: none"> <li>- Launch first-of-its-kind 5G discussion paper for Ireland based on neutral host testbed learnings</li> </ul>	<b>Telecom Infra Project Partnership</b> <ul style="list-style-type: none"> <li>- Partner with the Telecoms Infra Project (TIP) and industry leaders such as Cellnex to accelerate Connected City Infrastructure</li> </ul>	<b>Telecoms Unit Launch</b> <ul style="list-style-type: none"> <li>- Deployment of Connected City Infrastructure and publication of blueprint guide for other cities with TIP</li> <li>- Procurement of External Expertise for Telecoms Unit</li> </ul>

**THE WORLD'S MOST CONNECTED BUSINESS & LIVING DISTRICT**

# 1. Connectivity



# 5G and Future Connectivity

## An Emerging Framework for Irish Cities and Towns

DISCUSSION DOCUMENT



## Establishing a Telecoms Unit for Dublin

Connectivity that Matters

SEPTEMBER 21

DCCTelecoms@dublincity.ie



Comhairle Cathrach  
Bhaile Átha Cliath  
Dublin City Council



Comhairle Cathrach  
Bhaile Átha Cliath  
Dublin City Council

Residential

Business

Your Council



Content

Home > Business > Economic Development and Enterprise

Gaeilge

## Telecoms

A "one-stop-shop" for all telecoms-related requests within the Dublin City Council administrative area.

### About the Telecoms Unit

An introduction to the Telecoms Unit

### Rate Card & Standard Agreements

Information on Rate Card & Standard Agreements

### Asset Registry

An interactive Asset Registry that lists Dublin City Council's asset portfolio in the city

<https://www.dublincity.ie/business/economic-development-and-enterprise/telecoms>

# National Small Cell Neutral Host Test Bed



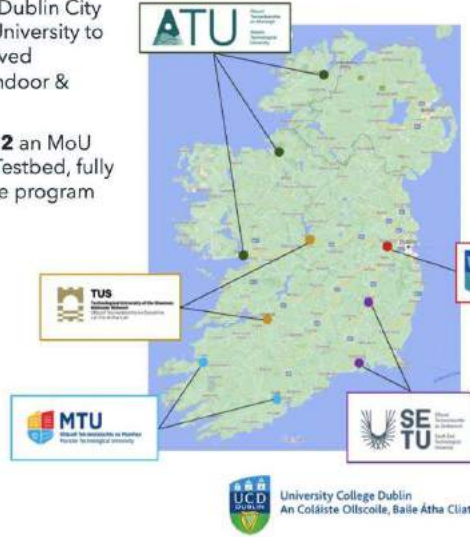
Over 120 Radios will eventually be deployed on 18 University Campus sites across Ireland, all linked into a single private network, enabling enhanced funding and access to Europe's highest quality academic & industry researchers.

This is the first time such a network has been build in Ireland or the EU.

In **May 2018** Dense Air Ireland undertook an agreement with Dublin City Council & the CONNECT group of colleges, TCD Maynooth University to build a Small Cell Research network in order to explore improved customer service performance and capability delivered from indoor & outdoor small cell deployments.

Following the success of this 4 year relationship, in **March 2022** an MoU was signed with CONNECT to build a Multi Campus National Testbed, fully funded by DAI. In **September 2022** Teagasc agreed to join the program

- Original Partners CONNECT: TCD & Maynooth University
- Multi Campus Test Bed Partners: SETSU, TUS, MTU & ATU
- Additional Partners: University of Limerick, UCC, Teagasc



To Date we have deployed in six Teagasc Sites:

- Moorpark Co. Cork
- Kildalton. Kilkenny
- Johnstown Castle Co. Wexford
- Ballyhaise Co. Cavan
- Ashtown Co. Dublin
- Grange Co. Meath



A World Leading 5G Research Centre



Dense Air Networks - Private and Confidential

dense air

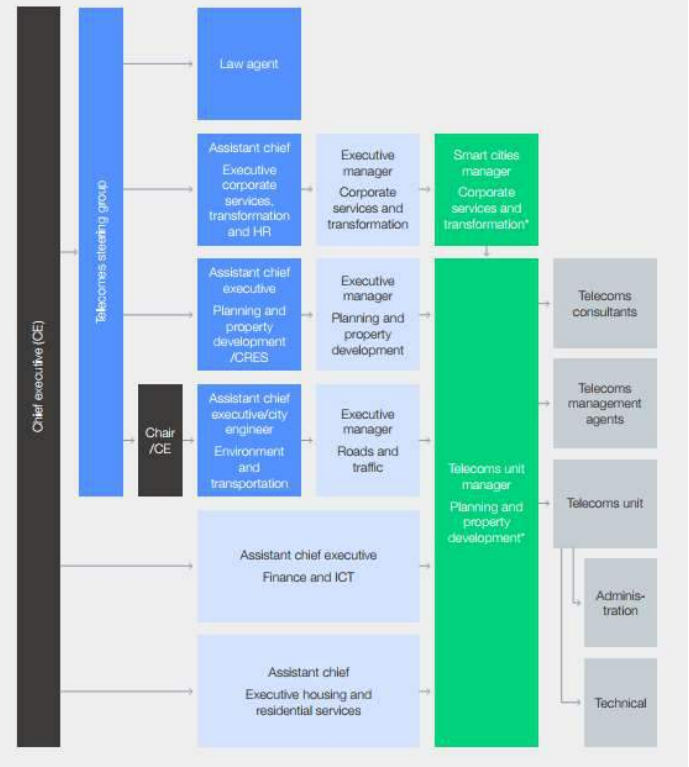


CASE STUDY

## Telecoms Unit, Dublin



### Telecoms Governance



CASE STUDY

Telecoms Unit, Dublin



# DCC Telecoms Offerings

1. **Duct Access (in place)**
2. Rooftop access (in progress)
3. Parks access (in progress)
4. MDU's for DCC housing (future)
5. Public Lighting (future)
6. Street Furniture (future)

# Example Telecoms Offerings - Duct

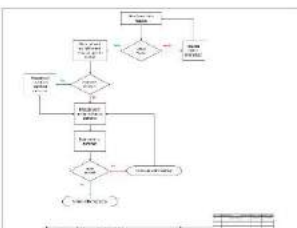
## Telecoms Offering Matrix

Product Offering Type	Available Size	Availability	Network Options	Lease Options	Pricing	Risks and Responsibilities Defined	Key Milestones Identified	Defined Processes and Procedures	Roles and License Agreements	Available Supporting Information	Supporting Information Required to Access the Duct Network	Activity Milestones/Questions	Standoff Chambers	Management and Support Contact
DCC	32/28mm	Standard Offering	Where sufficient capacity exists to install sub-ducts in the network a 32/28mm sub-duct (inner diameter 28mm, outer diameter 32mm) will be installed. Minimum value of €1,700 ex VAT applies (i.e. 500 metres). This is an annually recurring charge.	Per meter per year	€3.40	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DCC	10/14mm	Standard Offering	Where restricted capacity exists within the network a 10/14mm micro-duct (inner diameter 10mm, outer diameter 14mm) will be installed. Minimum value of €1,700 ex VAT applies (i.e. 500 metres). This is an annually recurring charge.	Per meter per year	€3.40	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DCC	10/14mm	Standard Offering	Where restricted capacity exists within the network a 10/14mm micro-duct (inner diameter 10mm, outer diameter 14mm) will be installed. Minimum value of €1,700 ex VAT applies (i.e. 500 metres). This is an annually recurring charge.	Per meter per year	€3.40	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

## Rate Card

Product	Description	Unit	Rate
Sub-Duct Core	Where sufficient capacity exists to install sub-ducts in the network a 32/28mm sub-duct (inner diameter 28mm, outer diameter 32mm) will be installed. Minimum value of €1,700 ex VAT applies (i.e. 500 metres). This is an annually recurring charge.	Per meter per year	€3.40
Micro-Duct Core	Where restricted capacity exists within the network a 10/14mm micro-duct (inner diameter 10mm, outer diameter 14mm) will be installed. Minimum value of €1,700 ex VAT applies (i.e. 500 metres). This is an annually recurring charge.	Per meter per year	€3.40
Connection Charges	One-off fees to include site surveys; drawings; administration; delivery and project management only. Note: this does not include the cost of the supply and installation of any materials which will be charged at cost.	Per Order	€1,650.00
<b>Auxiliary Services</b>			
Cable recovery	Cables to be removed at Operator's own expense under DCC Management Agent supervision - see 'Supervision' charge below.		
Blockage Clearance	Does not include carriageway reinstatement, out of hours work or traffic management.	Per blockage	To be charged as incurred.
Blockage Clearance (aborted)	Aborted clearance of a blockage in a duct per aborted clearance. Does not include carriageway reinstatement, out of hours work or traffic management.	Per blockage	To be charged as incurred.
Removal of locked lifts		Per hour	To be charged as incurred.
Abortive time charge		Per hour, per operative	€55.00
Non-standard civils work	Any non standard civils works required to deliver a connection. This may include building connections, additional chambers, additional ducting runs etc. A detailed quote will be provided.	TBD	To be charged as incurred.
Supervision	Supervision of works ( cable removal, connecting to chambers)	Per Hour	€125

## Process Maps



## Asset Map





**NEXT PLENARY MEETING: OCTOBER 2023**

**citytelecoms**  
ASSOCIATION

Cities shaping the future of urban connectivity  
A new global public-private network

If we don't work collaboratively, we are not going to have the super-competitive, digitally connected cities that people talk about, nor can we develop the use cases and exciting ways to innovate that we need.

**James Cudden**  
Smart City Lead, Dublin

POWERED BY  
**CitiesTodayInstitute**



## Delivering inclusive development in our communities

### Founder Members



The City Telecoms Association (CTA) is the first global public-private network that is shaping the future of urban connectivity. Founder city members are committed to the deployment of telecoms and digital infrastructure that bring the benefits of connectivity to their communities in healthcare, education, local economic development and innovation potential. The CTA's mission is to assist public and private partners to work together to tackle the challenges that are hindering telecoms deployments but also to accelerate the opportunities that next generation digital connectivity can deliver for cities.



### Cities and telecoms industry seek common ground on digital infrastructure

**Cities Today** 380 subscribers [Subscribe](#) 0 [Share](#) [Save](#) [...](#)

86 views 1 month ago  
Innovative deployment, business models, and use cases were among the topics on the agenda at the City Telecoms Association event which took place in Westminster, London last week.



# Alpha Wireless & Bigbelly Join Forces for 5G Deployment

By News Desk - 02/13/2023 - 1 Minute Read

Antenna solutions provider Alpha Wireless has announced a licensing agreement with public waste solutions specialist Bigbelly to offer a turnkey 5G cell site solution with integrated antenna, mast, connectors and enclosure.

The complete site enclosure kit features the Bigbelly Tellybelly waste and recycling platform designed to host and conceal network equipment.



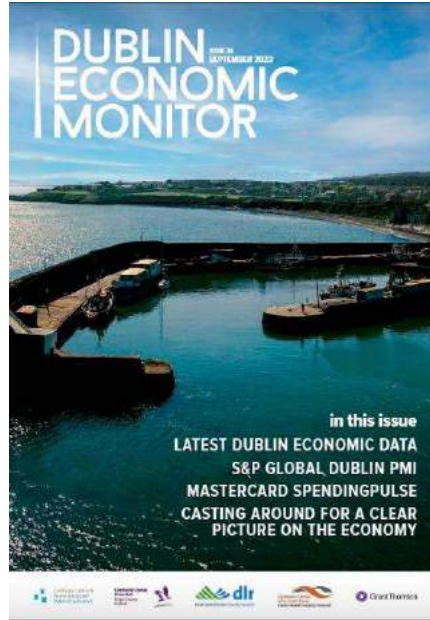
## Alpha Wireless and Bigbelly join forces for 5G deployment

4G and 5G 10 Feb 2023 by SmartCitiesWorld news team



## 2. Data Insights Programme

- Mastercard Spend
- Big Belly Impact Analysis
- Wifi4EU performance
- Drones Monitoring
- Google AirView / Hackathon
- Smart Tourism – data insights
- Dublin Economic Monitor



mastercard.

## Big Belly Bins

- **104** Big Belly Bins are located in Docklands area.
- For the period of January-October 2023, **8,969** collections were made. So this is a saving 25,000 bin liners versus standard bins in the same period!



# 2. Data Insights Programme

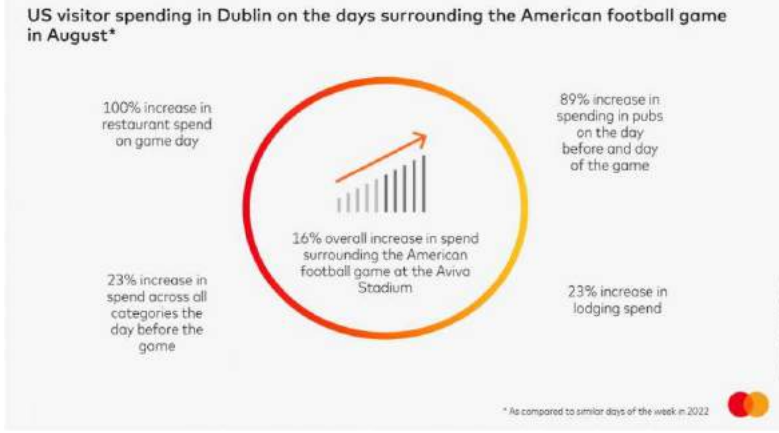
DUBLIN ECONOMIC MONITOR

Home The Monitor Insights Resources About Us



## American Football Game Linked to US Tourist Spending Surge in Dublin

DECEMBER 8, 2022



RTÉ NEWS SPORT ENTERTAINMENT BUSINESS LIFESTYLE CULTURE PLAYER TV RADIO

NEWS > DUBLIN > Ukraine Climate Brexit Ireland World Business Politics Nuacht RTÉ Investiga

## Air quality map for Dublin city released

Updated / Tuesday, 14 Feb 2023 19:44



**AIR QUALITY MAP OF DUBLIN CITY RELEASED**

THE IRISH TIMES 10° Subscribe Sign

Environment

## Air pollution on every Dublin street mapped in 16-month study

Project Air View allows Dubliners to see air quality outside homes and throughout city



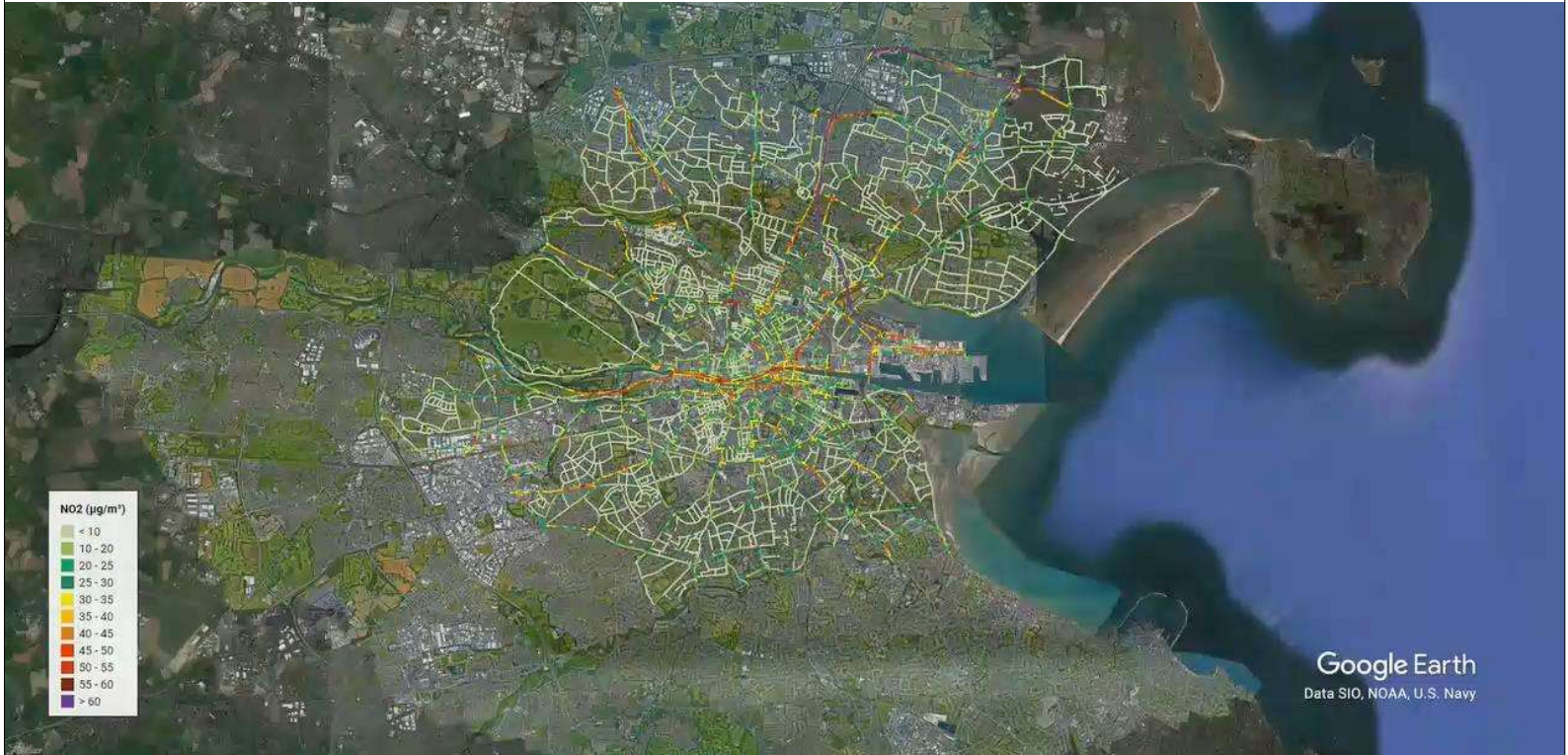
By Joan O'Sullivan



Comhairle Cathrach  
Bhaile Átha Cliath  
Dublin City Council



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Bhaile Átha Cliath  
Dublin City Council



Google Earth  
Data SIO, NOAA, U.S. Navy



## Public Sector Digital Transformation Awards

Data Innovation of the Year - Sponsored by



### Project Airview

1st



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Dublin City Council



## Project Airview



## 3. Emerging Technology Programme

- DCC Drones Strategy
- Digital Twin Programme
- Ring Buoys
- Gully Monitoring
- Smart Mobility Hub
- Kerbside Management
- Last Mile Deliveries
- AR and Tourism



## Accelerating the Potential of Drones for Local Government 2021-2022

### Mission:

- Explore drone potential to improve the way local government deliver services, increasing efficiencies, public engagement, digitalisation, data driven decisions

### Vision:

- Accelerate the potential of drones for local government and position Ireland as pioneer worldwide

### Goals:

- Ensure Compliance, H&S, Trust
- Prepare for future (roles, responsibilities, infrastructure, challenges)
- Take advantage and explore drone innovation potential



## DCC Drones Strategy in Development (Q1 2024)

"To become a global leader in the delivery of drone-based public-sector services and to build an eco-system in which drone and advanced air mobility innovation can flourish to the benefit of all citizens in a safe, inclusive, affordable and environmentally responsible way"





# Developing a strategic framework for drone operations for Dublin City Council

“To become a global leader in the delivery of drone-based public-sector services and to build an eco-system in which drone and advanced air mobility innovation can flourish to the benefit of all citizens in a safe, inclusive, affordable and environmentally responsible way”



Comhairle Cathrach  
Bhaile Átha Cliath  
Dublin City Council

## Developing a strategic framework for drone operations for Dublin City Council

- Assessing DCC drone use now and in the future
- Review of the Irish drones market and service offerings
- Benchmarking study on DCC drone services (compared with other European Union urban drone services)
- A clear and comprehensive set of recommendations and roadmap for the Council to progress towards full deployment.



Comhairle Cathrach  
Bhaile Átha Cliath  
Dublin City Council

# Notable Operations



## GULLY MONITORING

SEEKING **SMART**, LOW COST SOLUTIONS



**CHALLENGE:  
REDUCING  
FLOOD  
RISK**



**PROBLEM: OVERFLOWING  
GULLIES IN HIGH RISK  
FLOOD AREAS**

**WITH REAL TIME ALERTS  
& PREDICTIVE ANALYTICS**



**APPLY HERE: [WWW.SMARTDUBLIN.IE](http://WWW.SMARTDUBLIN.IE)**

TENDER ISSUING WITH 9+ LOCAL AUTHORITIES IN JAN 2024

**€200,000 IN FUNDING  
AVAILABLE**



# SMART MOBILITY HUB

SEEKING SMART, LOW COST SOLUTION...



**CHALLENGE:**  
DELIVERING SMARTER  
WORKPLACE  
MOBILITY  
FOR STAFF  
REDUCING EMISSIONS

TENDER ISSUING WITH Q1 2024 (STAFF SHARED BIKE SCHEME)

INTEGRATION OF  
E-CARS, E-BIKES,  
PUSHBIKES



NEW BUSINESS MODELS,  
OPEN STANDARDS

ABILITY TO REPLICATE IN OTHER LOCATIONS

APPLY HERE: [WWW.SMARTDUBLIN.IE](http://WWW.SMARTDUBLIN.IE)

**€200,000** IN FUNDING  
AVAILABLE



## SOLVING CHALLENGES LOCALLY & SCALING

### Missing lifebuoy hampered efforts to save actor from drowning, inquest hears



### Buoy toys: vandalism of safety floats rings up €50,000 cost

Dublin floats idea of tracker chip deterrent as young men on stag dos are blamed for theft and destruction of safety kit



Adding signage to lifebuoy brackets deters theft.  
ALAMY

Local authorities across the country are spending more than €50,000 a year to replace an estimated 1,500 lifebuoys that are stolen or vandalised.

Dublin city council had to replace 500 lifebuoys in 2018 at a cost of €20,000. As the council is in charge of more than 140 lifebuoy locations, it is the equivalent

# Ring Buoys Dashboard

Ringbuoys present: 134
Ringbuoys missing: 2
Missing more than one day: 0
Ringbuoys Offline: 15
Last alert received: 28 Nov 2023, 09:42:49

**All devices**  
Select any limit to view feedback on the right.

Task location
  Visualization
  Sort-reasons

Devices: 134

ID	Device Name	Latitude	Longitude	Status	Reason	Assigned To	Created At	Last Seen At
96779703722546	D77 Grand Canal (N), Wilton Place	53.3411	-6.2581	Present			2023-11-28 09:42:49	2023-11-28 09:42:49

**Details of device 96779703722546 (D77 Grand Canal (N), Wilton Place)**

Quality
  Location
  Orientation
  Battery
  Signal
  Time
  Status
  Connected

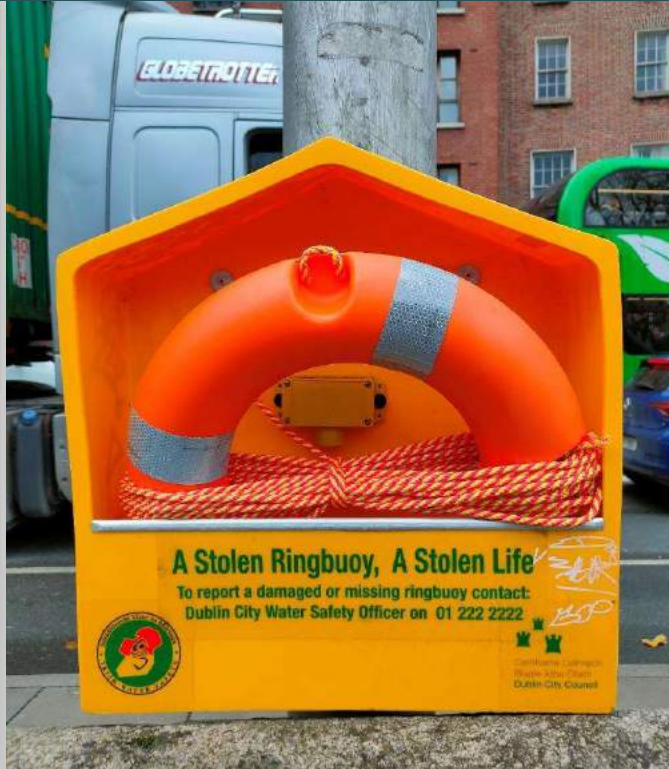
Not connected
  Life
  Present

Connected
  Low battery

Signal strength: 100%  
 Battery level: 100%  
 Orientation: 0°  
 Connected: Yes

Location: 53.3411, -6.2581  
 Name: D77 Grand Canal (N), Wilton Place  
 Address: D77 Grand Canal (N), Wilton Place, Dublin 2, Ireland

Show details  
 Show map



## SMART RING BUOYS PROJECT



100s of Ring Buoys go missing each year across Ireland

640+ Sensors

INSTALLED IN

**8**

LOCAL AUTHORITIES

€145,000 Funding

ON AVERAGE

**110**

DROWNINGS PER YEAR

# Smart Accessibility Parking Project

The Smart Accessible Parking Project intends to leverage state-of-the-art sensors and user-centric mobile apps to transform the parking experience for individuals with accessibility issues.



**U-Admin** Dublin City

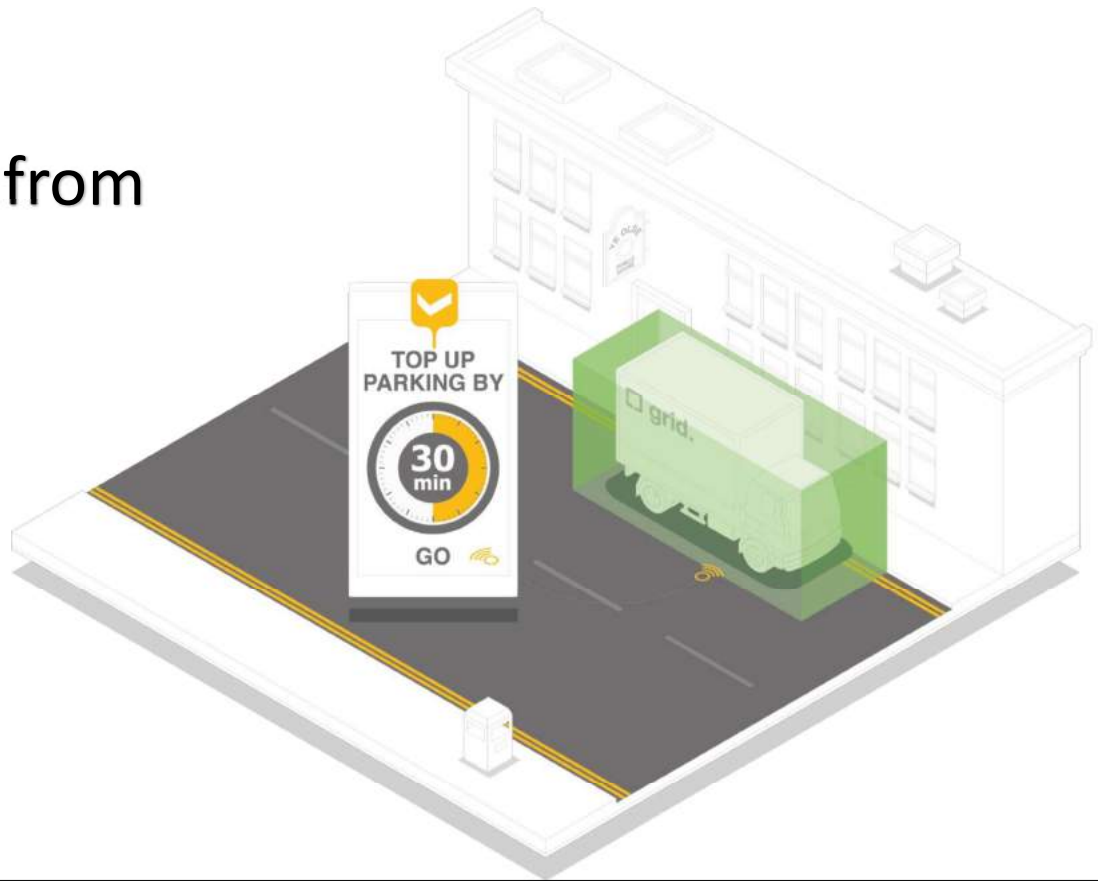
Project	Accessibility Bay Sensors	Dublin Loading Bays
N. of regulated Spot Groups: 0	N. of regulated Spot Groups: 0	N. of regulated Spot Groups: 0
N. of regulated Spots: 58	N. of regulated Spots: 53	N. of regulated Spots: 5
Total n. of alerts: 1	Total n. of alerts: 0	Total n. of alerts: 1

Search by Name and ID

U-Admin version: 3.9.7

Accessibility Bay Sensors and Loading Bay Sensors

# Kicking Chaos from the Kerb

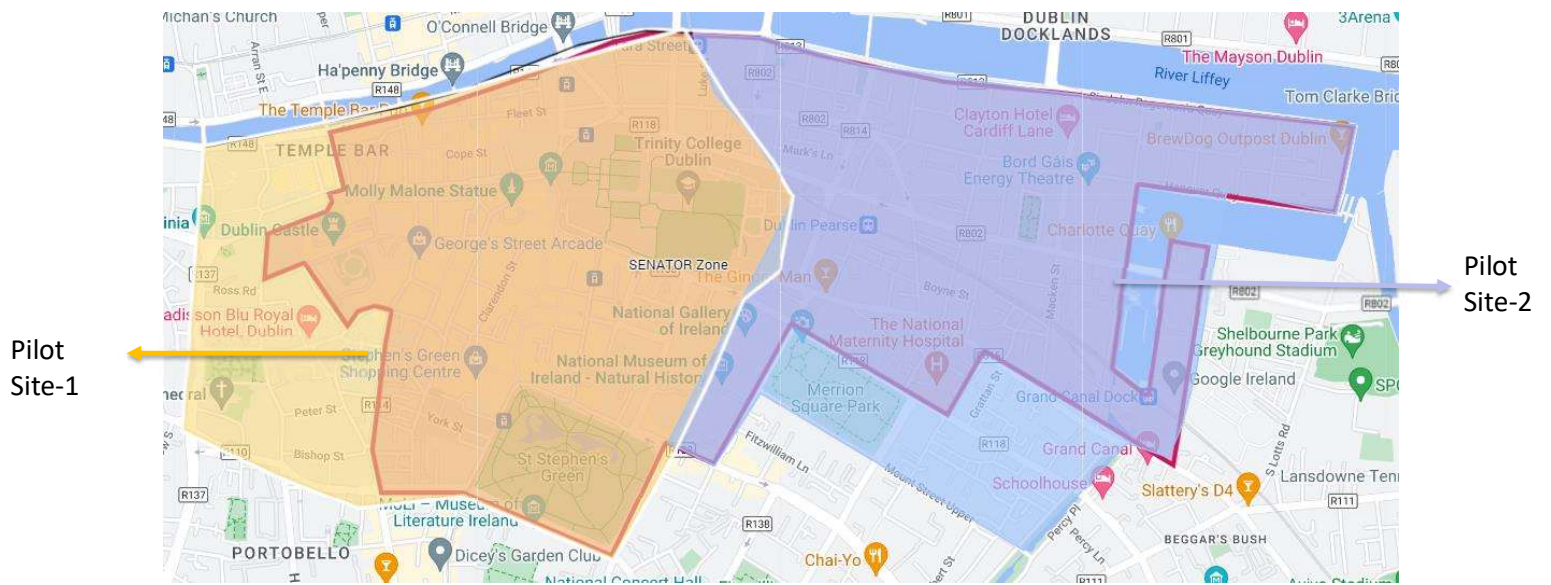


Comhairle Cathrach  
Bhaile Átha Cliath  
Dublin City Council

Senator  
TIONSCADAIL NA FIONNACHTAÍ  
PATHFINDER PROGRAMME  
Transforming how we travel

## Defining the Pilot Areas



Senator  
TIONSCADAIL NA FIONNACHTAÍ  
PATHFINDER PROGRAMME  
Transforming how we travel  
Comhairle Cathrach  
Bhaile Átha Cliath  
Dublin City Council



# Surveying the areas





LiDAR Data Collection

**Curb-Level Surveying (CLS)**

Open-source measurement tools to survey streets with automated scripts to convert images into curb regulation data

**Augmented Mobile Mapping (AMM)**

A vehicle-based process to generate digital curb regulations from signage imagery using machine vision

# The Kerbside Insights

**Location: Temple Bar Street/Dame Street**  
**Area Covered: ~1.25 sq. Km**  
**Roads Covered: 30+ Km**  
**Data Points: ~2000 data points**

**Location: South Docklands**  
**Area Covered: ~1.06 sq. Km**  
**Roads Covered: 30+ Km**  
**Data Points: ~2000 data points**

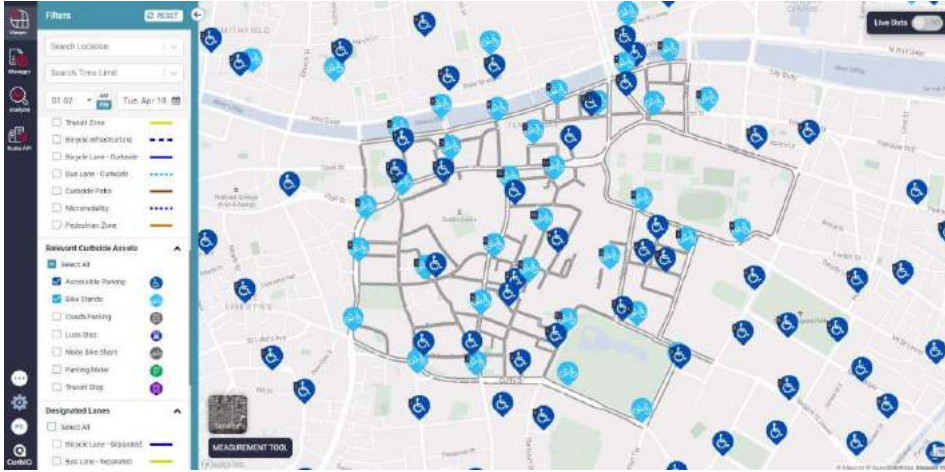
20+ Unique Data Sets

Street Name	Restriction Type	No. of Bays	Operating Hours
Townsend Street	Paid Bay	5	PB Standard days: Mon-Sat 07:00-19:00 Max Stay: 3h
Townsend Street	Loading Bay	2	LB Standard days: Mon-Sat 10:00-12:30
Townsend Street	Double Yellow Line		DYL Standard days: 00:00-00:00

Street	Restriction	Operating Hours	Exceptions	Extent
Merrion Square North	<span style="color: green;">●</span> Cycle lane	At all times		1129.9 feet / 344.4 metres
Merrion Square North	<span style="color: orange;">●</span> Bus lane	All year, Mon-Sat, 07:00-10:00	Cyclists	827.7 feet / 252.3 metres

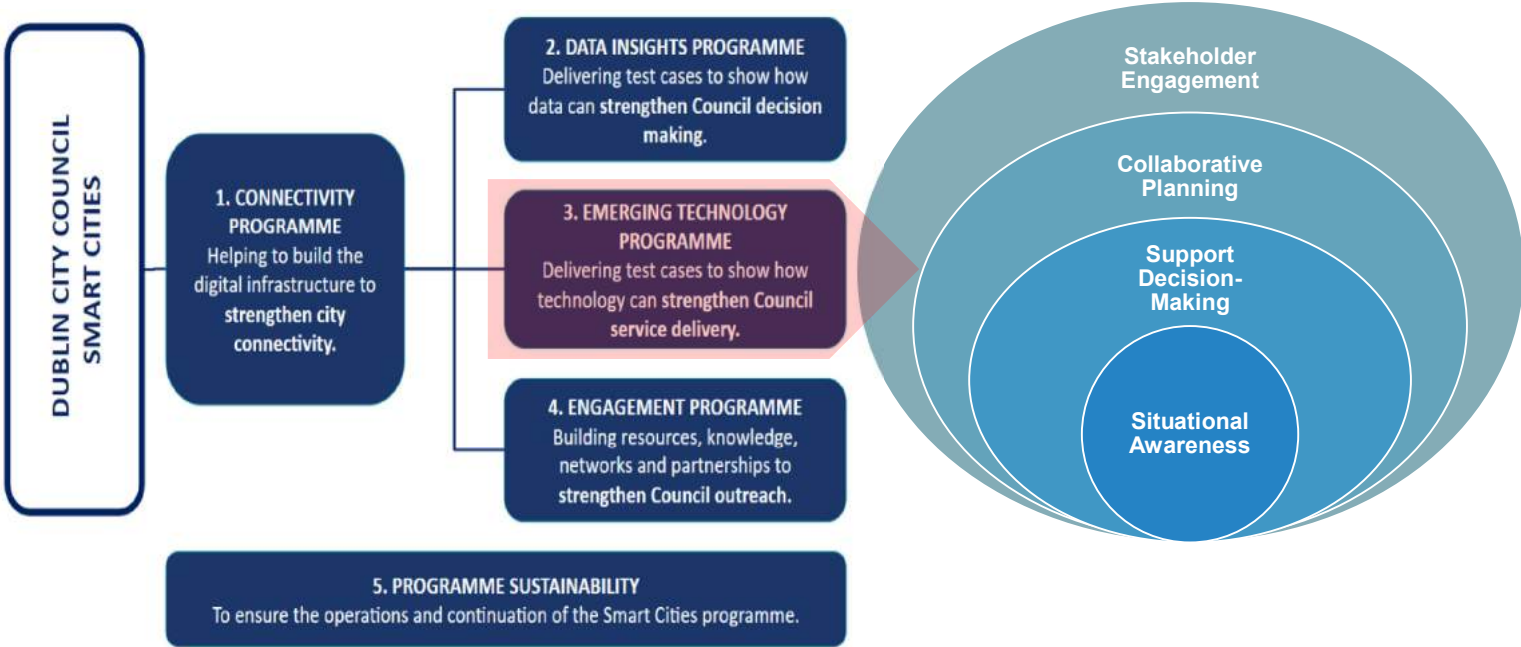
# The Digital Kerbside Maps

Double Yellow Line  
Dropped Kerb  
Parking Bay, Paid Bay  
Disabled Bay  
Loading Bay  
Bus Bay





“  
**Unlocking Tomorrow's Possibilities with Digital Twins**  
 ”



# DCC's Approach towards Digital Twins

## Proof of Concept

Trial and Test LDT use-cases  
*-Ethical and Governance Framework for design and deployment phases + Evaluate*

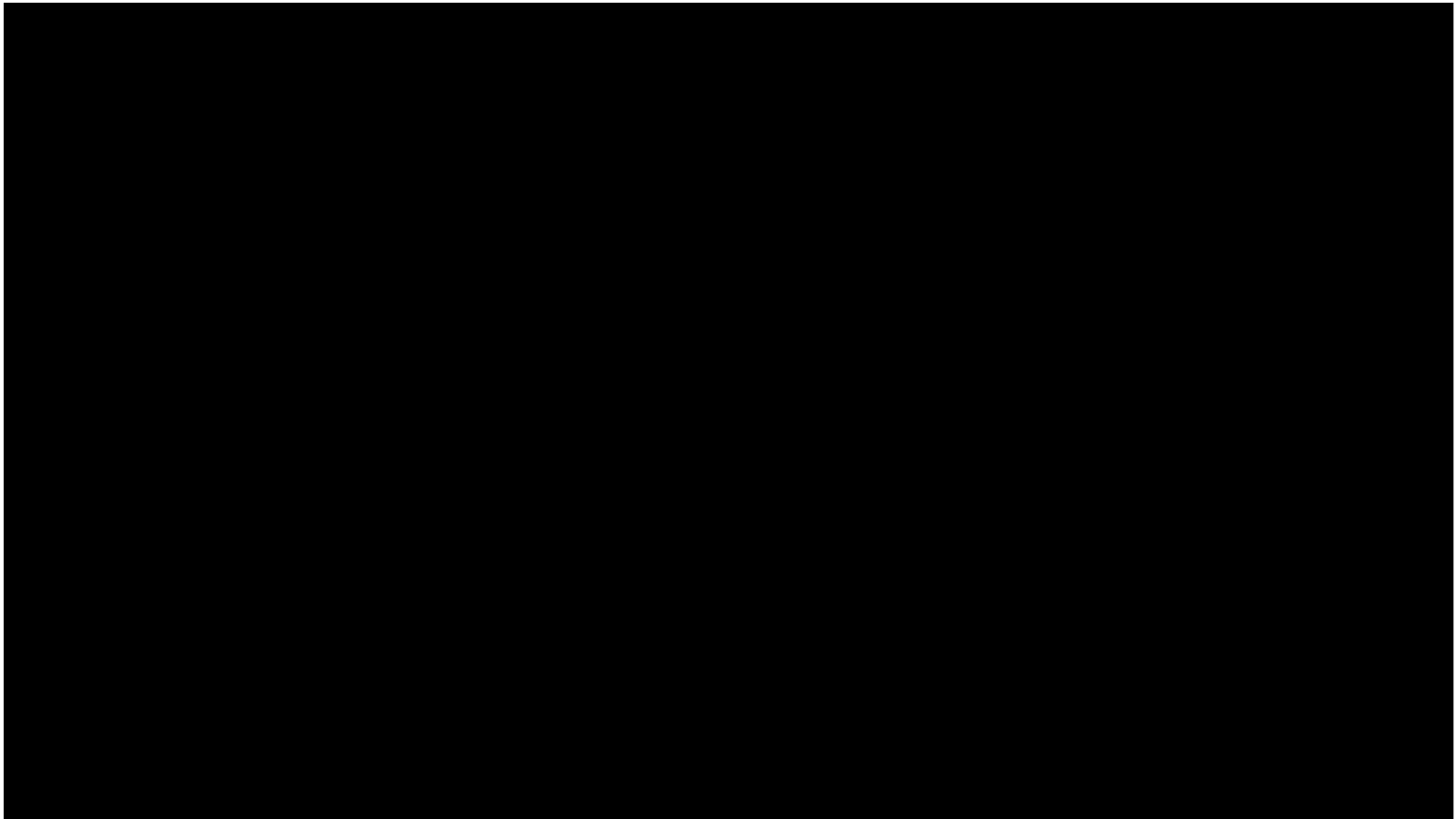
## Capacity Building

Build a Collaborative Ecosystem  
*-DT Interest Group @ DCC  
 -Local Stakeholder Groups*

## New Opportunities

Future partnerships  
*- EU funding calls and work with private enterprises  
 -EuroCC's DIF call*





# Active Travel Data Innovation?

Over the next 8 years, the [#ActiveTravelNetwork](#) will grow from 10km to a connected network of 310km across the city.

## Public Value to the City

Outcomes – 95% of people coming within 400 metres of the 310km network

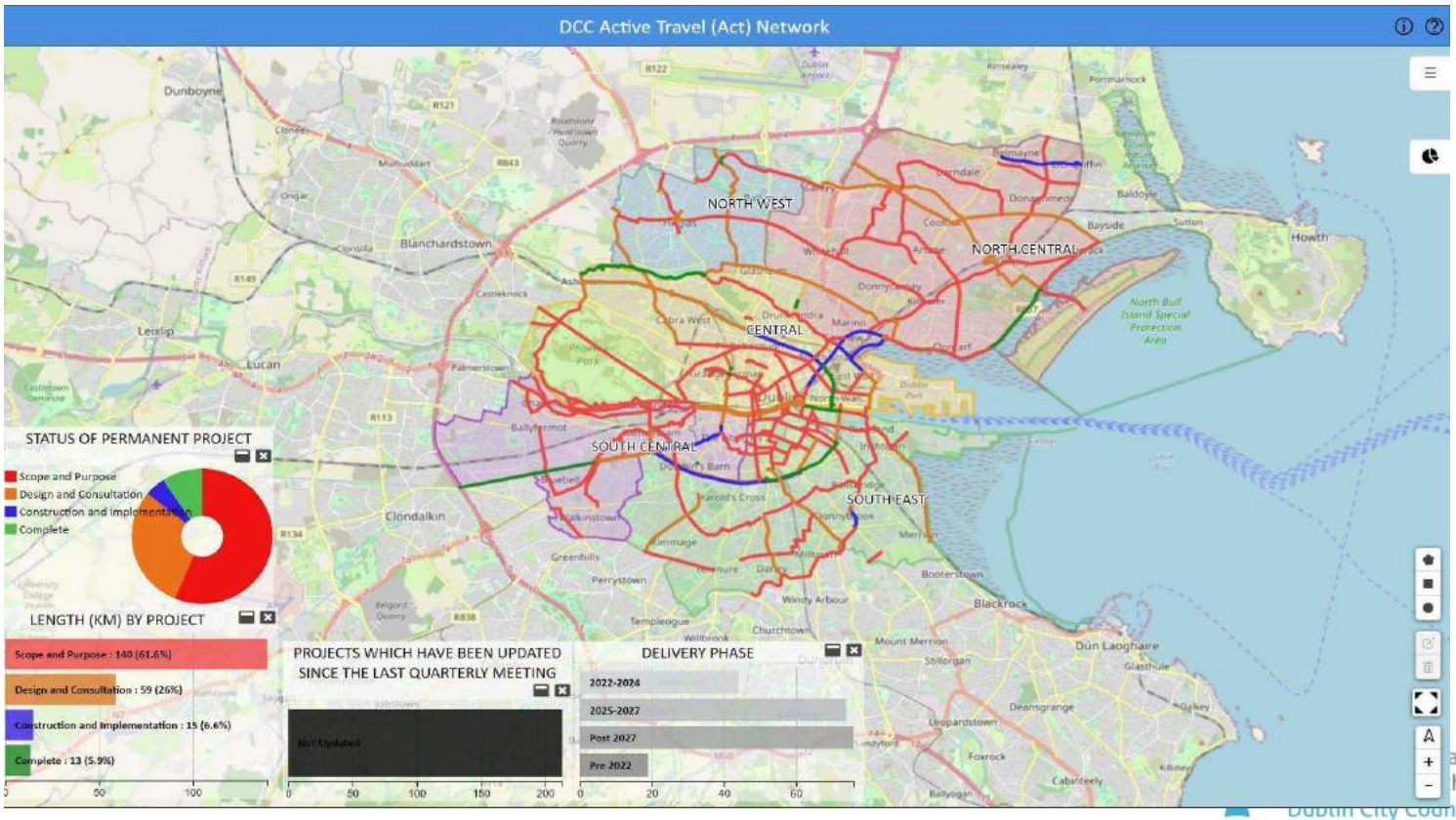


Connecting Communities with Workplaces and Amenities - Dublin City

## Targets

2028 - 25% Active Travel Journeys  
Current Share is 12%

**Aim - 95% of people within 400m of 310km network**





# Data Impact

Partnering with governments in using data to improve public health



## EUROPEAN CAPITAL OF SMART TOURISM

# OUR JOURNEY TO THE HEART OF DUBLIN

**2019:** Dublin Launches Smart Tourism Programme



**2022:** Dublin Establishes Dedicated Tourism Unit for Responsible Tourism



**2020:** Dublin Hires First Full Time Smart Tourism Manager



**2023:** Dublin Publishes Sustainable Tourism Strategy 2023-2028



**2021:** Dublin Shortlisted for European Capital of Smart Tourism 2022!



**2024:** Dublin Hosts European Capital of Smart Tourism?



## Dublin City Tourism Unit-Team



**Head of Tourism Unit**  
**(Barry Rogers)**



**Tourism Innovation Manager**  
**(Nollaig Fahy)**



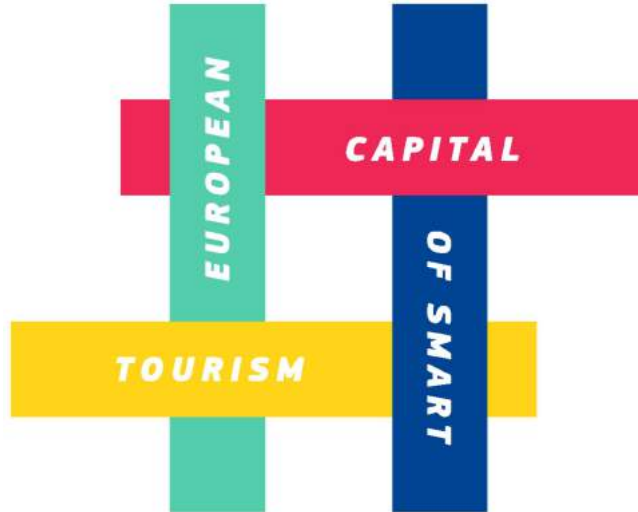
**Tourism Strategy Manager**  
**(Dr. Mariia Perelygina)**



**Tourism Data Manager**  
**(Manna Thomas)**

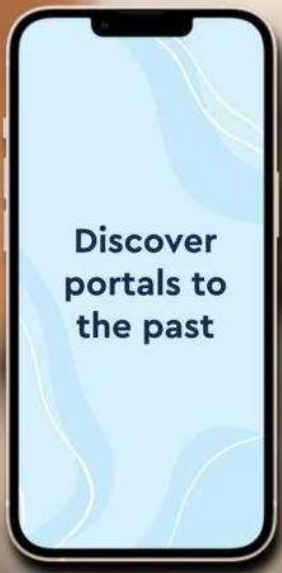
Aonad Tuarasóireachta  
Chathair Bhaile Átha Cliath  
Dublin City Tourism Unit





Dublin  
Ireland

[SmartTourismCapital.eu](https://SmartTourismCapital.eu) #EUTourismCapital





# European Cultural Tourism Awards

Digitisation advances and digital transition in Sustainable Cultural Tourism

## Dublin Discovery Trails 2nd



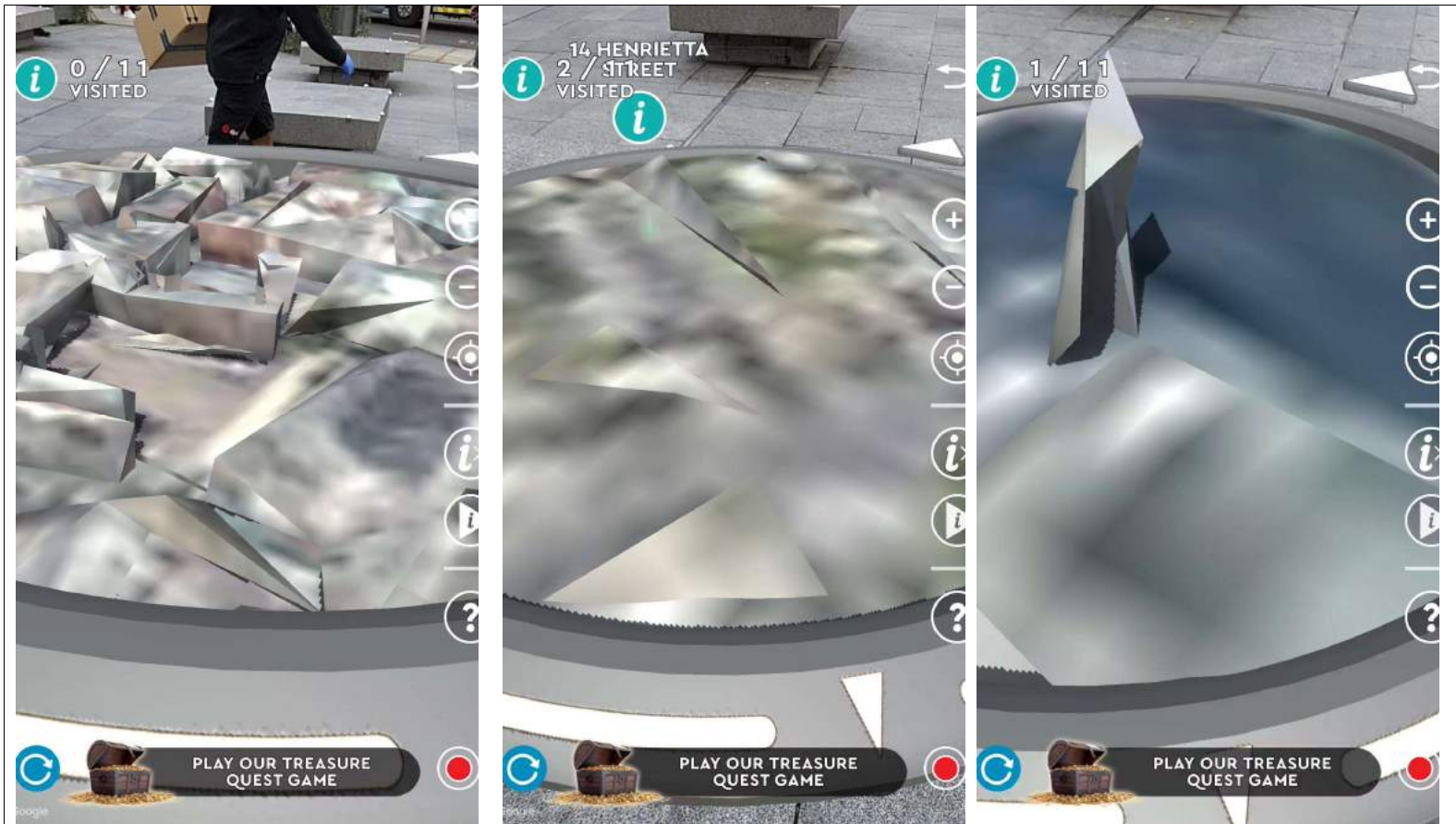
Explore the City Like Never Before with

# DISCOVER Dublin

## Ireland's First Augmented Reality 3D Map

### Available now on the *Dublin Discovery Trails* app!





## 4. Engagement Programme

- Smart Districts Approach fundamental
- Academy of the Near Future
- UN Digital Rights /Public Sector Duty



**ACADEMY OF THE NEAR FUTURE**  
 A smart city tech programme for upskillers and students



NearFuture.ie





**Darach Mac Donncha**

Programme  
Manager



**Grace D'Arcy**

Engagement  
Programme  
Manager

Academy of the  
Near Future



**Clara Butz**

Engagement  
Programme  
Lead

Academy of the  
Near Future



**Karolina Anielska**

Project and  
Engagement  
Manager

Community  
Engagement



**Claudia Bailey**

Technology and  
Engagement  
Manager

Local Authority  
Engagement

**“Smart Docklands is a unique partnership between Dublin City Council and the SFI Connect Centre for Future Networks and Connectivity based in Trinity College Dublin to future proof Dublin. Supporting the acceleration and adoption of new and emerging technologies for Cities”**

Smart Docklands was the first of Dublin’s ‘smart districts’ which has now expanded to 5 districts.



Experimenting with new connectivity for city services

## Smart Docklands Innovation Tour



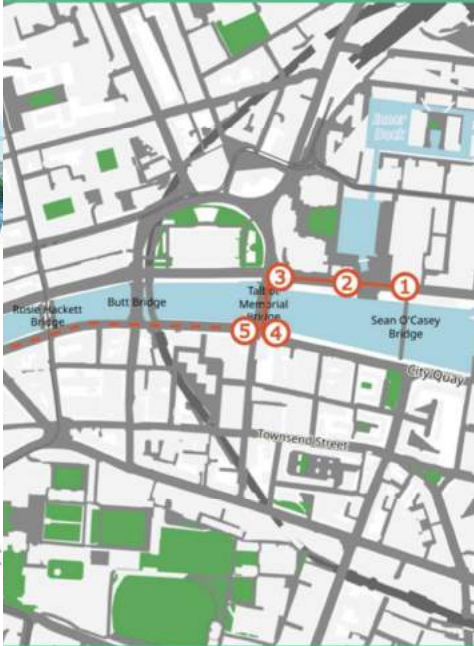
Sustainable innovation is all around the Docklands. If you want to learn more about it come to one of our free organised tours!

**Thursday 3rd November @ 10am**  
**Saturday 5th November @ 12pm**  
**Tuesday 8th November @ 4pm**

**CHQ Terrace**  
by the EPIC sign  
Custom House Quay  
North Dock, Dublin 1

You can also organise a tour by contacting us at [info@smartdocklands.ie](mailto:info@smartdocklands.ie)

## INNOVATION TOUR



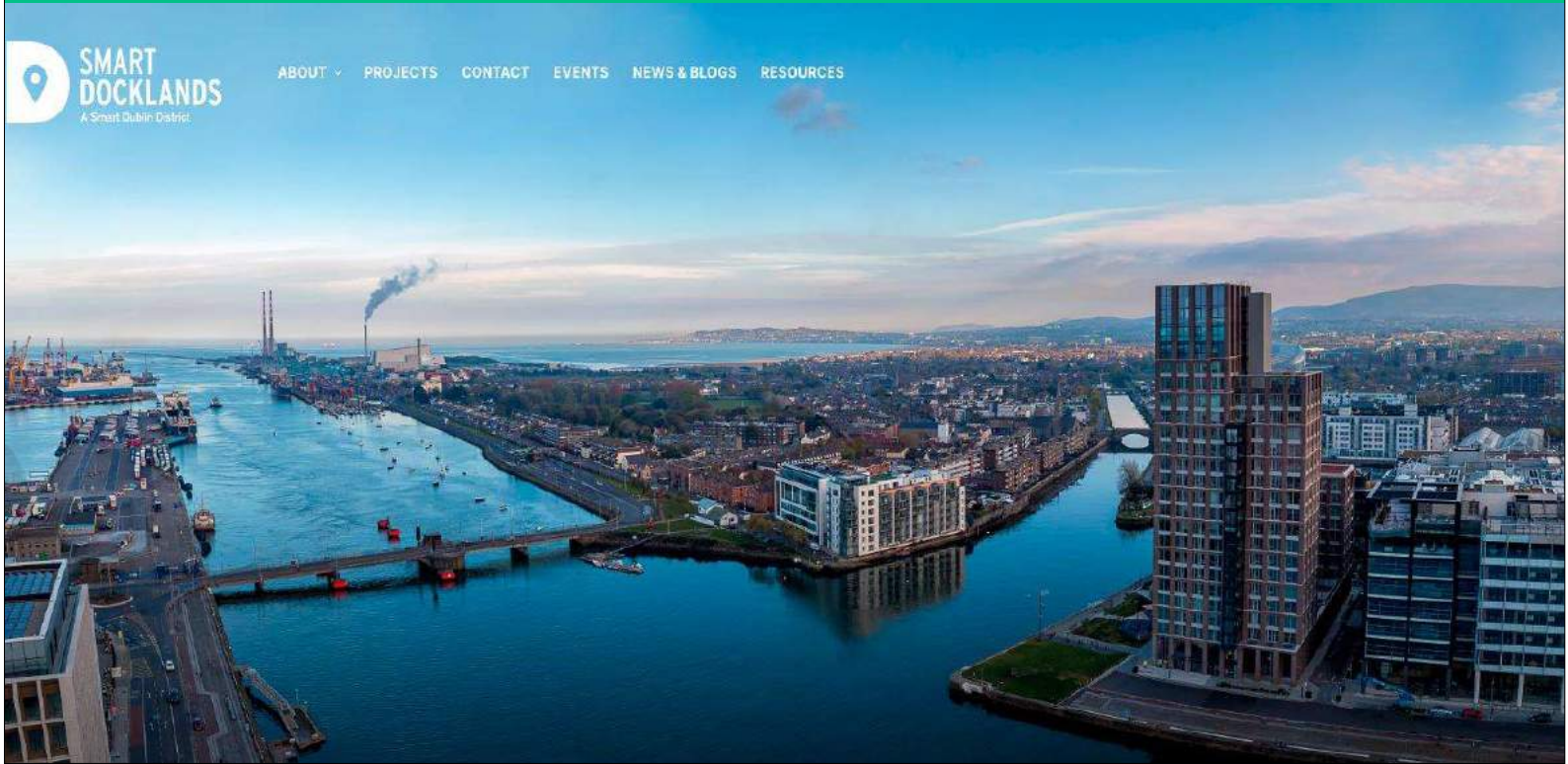
- 1 Dublin Bikes  
Smart Traffic Light  
Dublin Cycle Buddy  
Big Belly Bins
- 2 Heritage Trail App  
Utilex App  
3D VR Model
- 3 5G Testbed  
Establishment of DCC Telecoms Unit
- 4 Ring Buoys
- 5 Bicycle Sensor  
Gully Monitoring
- 6 Tebelly
- 7 Tebelly

What was your favourite innovation? Why?

Did anything surprise you? What?

What innovation would you add? Where?

Your email address:



## Commonplace



### Smart Docklands

Do you live in, work in or visit the **Dublin's Docklands**?

We would like to get your feedback on your experience in the Docklands area. **What do you like about the area and what are the issues or challenges you face?**

Click here to [answer our survey](#) or drop a pin on our [interactive map](#)!

e.g. sam@smith.com

**Keep me updated**

Your email will be used to contact you about project updates. You can unsubscribe at any point. Please read our [privacy policy](#).



## ACADEMY OF THE NEAR FUTURE

Building awareness & empowering young people & local authority staff to tackle 21st-century city challenges



**72%** female participants



**70%** DEIS schools



**15** air pollution and traffic sensors set up in DCC schools



2 week-long programmes  
14+ collaborators  
8 student projects

**1** youth internship



**Over 1500** students

**8** action projects on Active Travel



21 staff in Digital Rights module

3 staff modules in development



## Seoul Smart City Awards Human-CentriCity

### Academy of the Near Future Silver



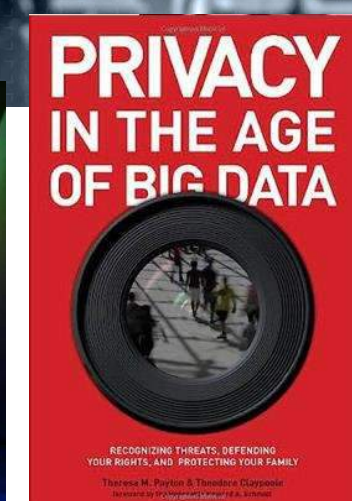
**'Design Your Future City'** is a 5 day programme for Transition Year students in February 2024, exploring science, technology, art and design.

Students are introduced to **smart city technologies** and facilitated through a **design thinking** process to develop, refine and **showcase their smart solution to a local challenge!**



## Academy of the Near Future and the Cellnex Foundation launch partnership to upskill students on smart technologies and digital connectivity. A €345,000 co-investment initiative

- April 2023, Dublin, Ireland:** Academy of the Near Future, which is an award-winning Smart Cities Education Programme designed for young people and Local Authority staff, has partnered with the Cellnex Foundation for 3 years to develop young people's understandings of smart technologies and digital connectivity in primary schools across Dublin and nationwide. The programme builds awareness of new trends in telecommunications and digital connectivity as well as supporting future careers in STEM.
- Cellnex Ireland is Ireland's largest, independent telecoms infrastructure provider. The Cellnex Foundation is a Cellnex Group initiative which aims to use technology to bring people together through improved connectivity, particularly those at risk of exclusion.



What are the privacy and ethical implications of deploying technology solutions in Dublin?

- Impacted stakeholder groups
- Intended & unintended consequences

Connection between digital rights and the Irish Public Sector Duty



Delivery robots in Dublin



March 2023: Delivered pilot module on Digital Rights and the Public Sector Duty in collaboration with UN-Habitat and the Cities Coalition for Digital Rights

## Digital Rights



### Human rights in the digital era

Learnings on local governance from pilots in Europe



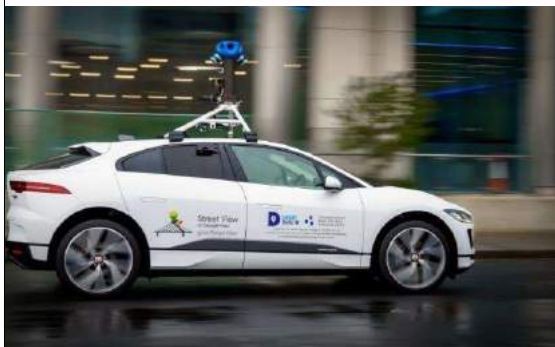
We represented Dublin on a panel at the Smart City Expo World Congress in Barcelona!

We shared our key learnings from being a part of the Digital Rights Governance Pilot project - where we developed 3 workshops for young people, local authorities, and community members about digital rights.

Dublin is a Leading City with the Cities Coalition for Digital Rights! We are developing learning content with our partner city Vienna mainstream digital rights in the public sector.



# Call for pilots - 2024!



# Feb 2024 Call For Pilots

**SMART DOCKLANDS**  
A Smart Dublin District

HOME ABOUT PROJECTS EVENTS NEWS RESOURCES CONTACT

## Dublin's Smart City Testbed

FIND OUT MORE →

*"We are big enough yet small enough to be an ideal location to pilot new city services & solutions."*



“...Smart City ecosystem creating an example for the world and being happy to document and share it...”

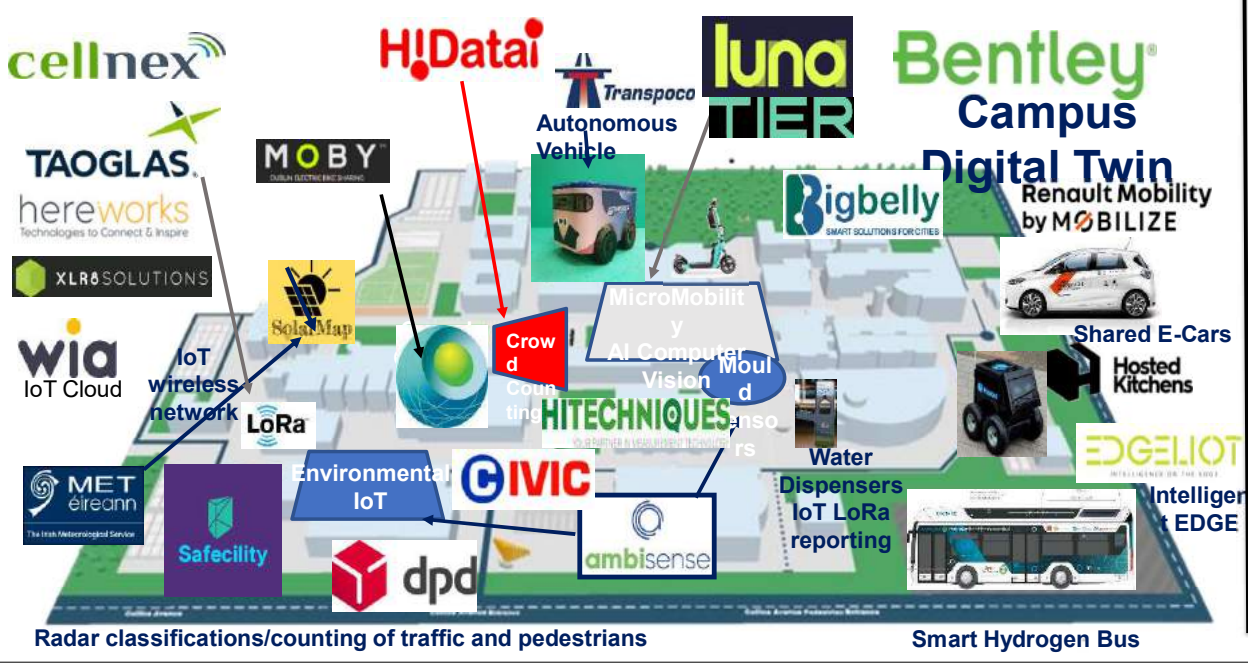


More info: [kieran@smartdcu.ie](mailto:kieran@smartdcu.ie)



**A Smart City Ecosystem** **“...The World’s Smartest Sandbox in the Heart of Dublin...” Bentley Systems**

DCU is a "Living Lab" with a myriad of smart technologies from strategic partners bringing these technologies together under one roof for a 'Smarter' way of life.



- ✓ Air Quality Sensors
- ✓ Intelligent Waste Management
- ✓ Real Time Campus Occupancy
- ✓ Car Traffic Control
- ✓ Indoor 3D Mapping
- ✓ Smart 5G University
- ✓ Foot fall Tracking
- ✓ E-Bike Mobility Tracking
- ✓ IoT Emergency Lighting Sensors

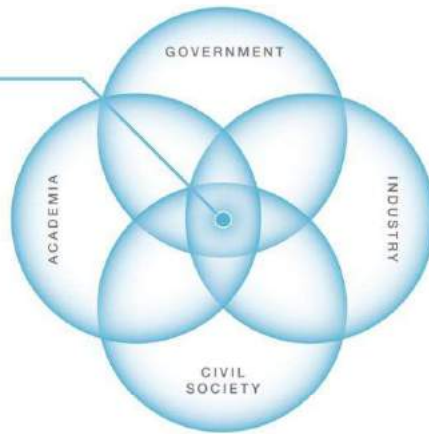


## Going Digital Awards In Infrastructure

Founders' Honours - Facilities, Campuses & Cities

### Smart DCU





Citizen  
Health &  
Wellbeing



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# Call for Pilots 2023 — +

Seeking Innovative Approaches to Health and Wellbeing Challenges

Citizen  
Health &  
Wellbeing





Smart D8 : **Selected Pilots 2023**  
Menopause and The City | Brace  
MoveAhead | OSA Identifier App

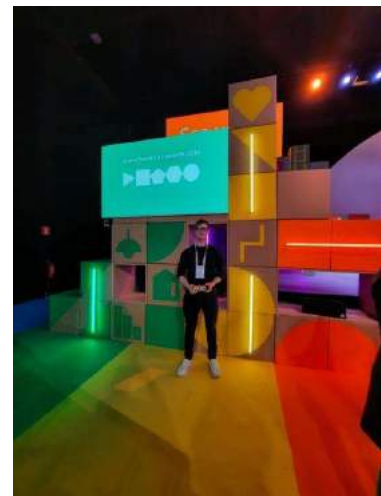


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World Smart City Awards  
Innovation Award

Smart D8  
Finalist





# Docklands Business Forum Awards

Docklands Community Award - Sponsored by  
**Smart Ring Buoys**



Tourism Award - Sponsored by  
**Dublin Discovery Trails**



Smart Docklands Award - Sponsored by  
**Project Airview**





[www.smartdublin.ie](http://www.smartdublin.ie)



Comhairle Cathrach  
Bhaile Átha Cliath  
Dublin City Council