



SPC Smart Cities Update



Comhairle Cathrach Bhaile Átha Cliath Dublin City Council



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



Manna has been operating since 2020 in Ireland and has recorded about 5,000 real-world deliveries in the suburbs of Galway and Dublin. The team has also performed close to 90,000 test flights to date.





Future is happening now in our cities and towns!





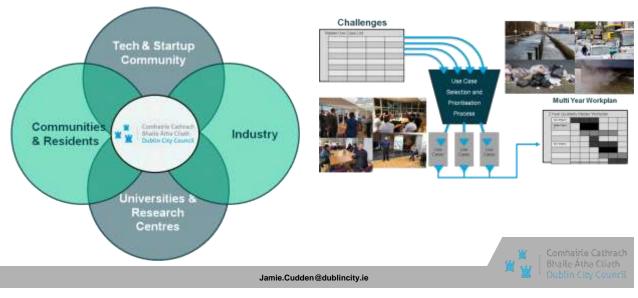


AN INITIATIVE OF THE **FOUR DUBLIN LOCAL AUTHORITIES** TO ENGAGE WITH TECHNOLOGY PROVIDERS, RESEARCHERS AND CITIZENS TO SOLVE CHALLENGES AND IMPROVE QUALITY OF LIFE.



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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



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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.

 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

- Experimentations on Connectivity
- · Pilots and test-bedding
- 5G Whitepaper
- Wifi4EU
- Telecoms Unit Established April 2022 -One Stop Shop
- Telecoms Infra Project (TIP)
- Dublin Regional Enterprise Plan
- World Economic Forum
- City Telecoms Association

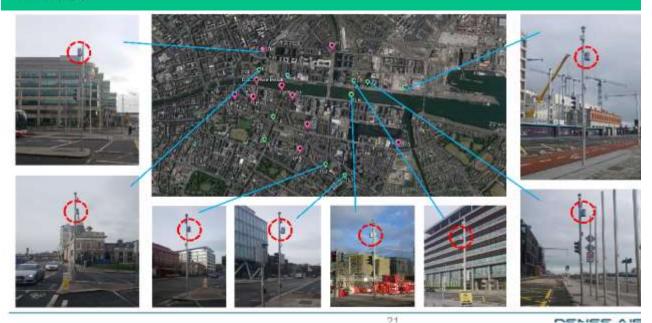


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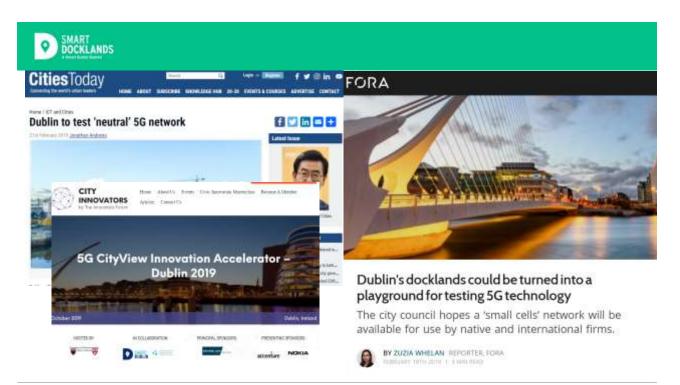




Docklands 5G Testbed – Future Telecoms











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

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2. Data Insights Programme

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









2. Data Insights Programme



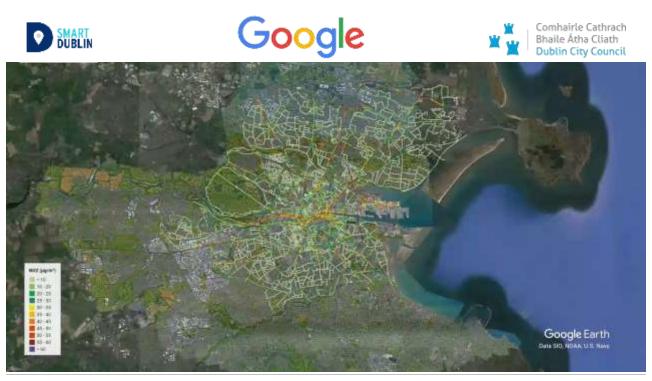




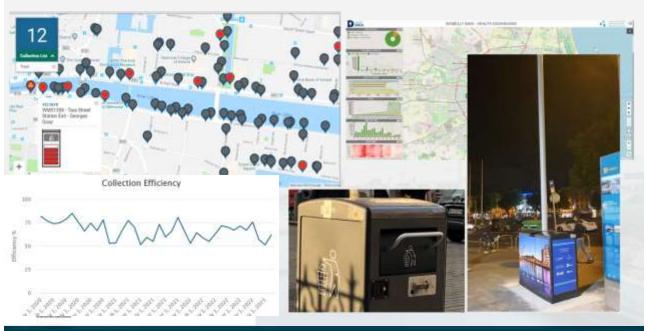




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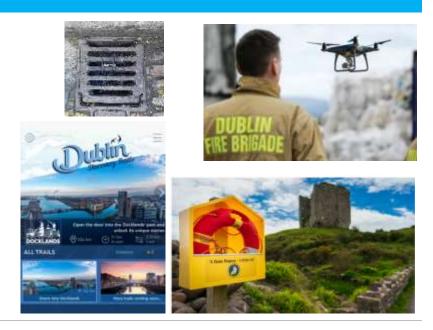


Big Belly Bins Docklands – Data Insights (20k records)

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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





Jamie.Cudden@dublincity.ie

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

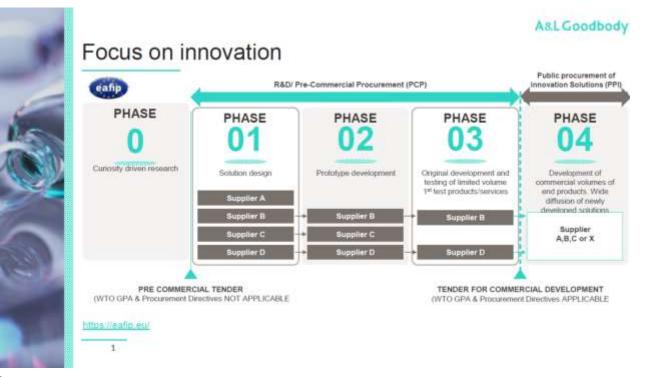
Dublin floars idea of tracker chip deterrent as young men on stag dos are blamed for theft and destruction of safety kit



Adding signing in Milway Intelling Streng Staff.

Local authorities across the country are spending more than 650,000 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 620,000. As the council is in charge of more than 140 lifebuoy locations, it is the equivalent



SMART RING BUOYS PROJECT







DCC partnership for Radar sensors at the three main entrance to Glasnevin Enables real time classification of vehicles, speed, direction and the flow of pedestrians/traffic passing and on off the campus **Enhance the Digital Twins** RADAR 3 Real-time occupancy: **Ghlas Naion** DCU · Optimisation of campus as a resource DCU Glasnevin Catering planning · Effects of new bus timetables/routing · Event timetable/planning Predictive analytics ٠ Unusual patterns Comhairle Cathrach **Collins Avenue entrances** Bhaile Átha Cliath **Dublin City Council**





MOBILE APP FOR HERITAGE TRAIL(S) TENDER



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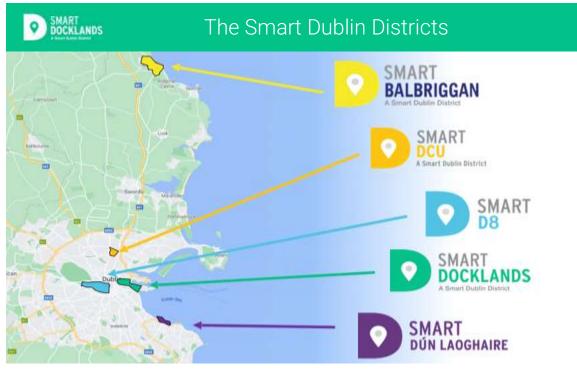
4. Engagement Programme

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



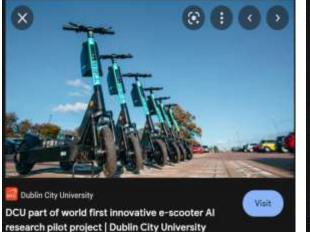




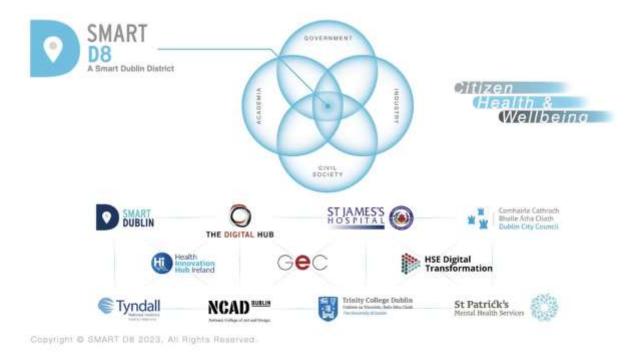




Smart DCU Testing Environment







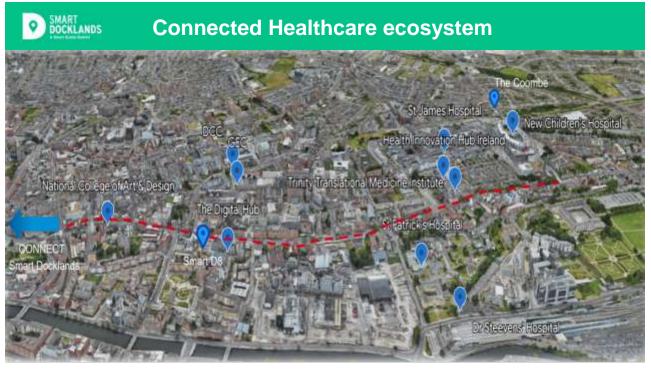




Smart D8 : Selected Pilots 2023 Menopause and The City | Brace MoveAhead | OSA Identifier App



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SNART DOCKLANDS

FUTURE CONNECTIVITY

5G/6G IN HEALTH CARE

20th June 2023, 9:40-14:30

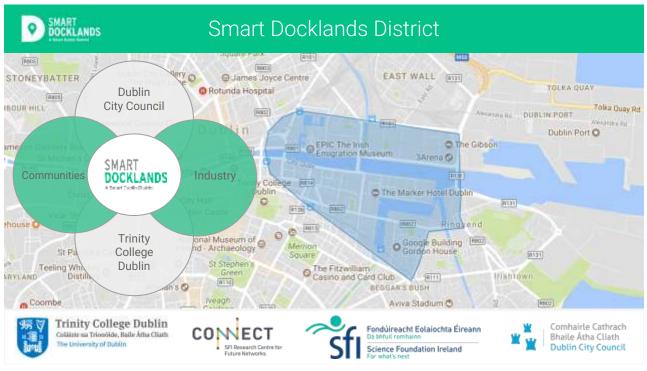
The Bank at The Digital Hub 85 James Street, The Digital Hub, Dublin 8 D08 C2PR





- Brought academics, industry, city and healthcare professionals together
 - Key takeaways: coordinated approach to connected healthcare; need for funding/investment; cost of deployment; alignment on potential use-cases
- Opportunity to build upon DCC telecoms agenda, CONNECT research, eHealth strategies and deliver significant societal impact







Shaping the Future of Cities

"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.

Fondúireacht Eolaíochta Éireann

Science Foundation Ireland



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Experimenting with new connectivity for city services

SMART DOCKLANDS







Docklands Innovation Tours





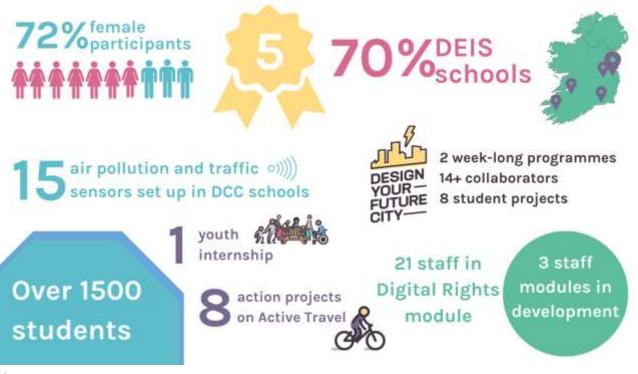
Engagement Programme

ACADEMY BEARFUTURE

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









Prototyping ideas & presenting to city leaders



ACADEMY #INEARFUTURE Module 2: Privacy and Ethics & Digital Rights

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

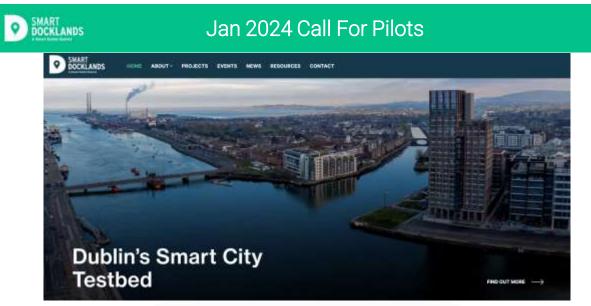


Delivery robots in Dublin





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



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







www.smartdublin.ie



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