







SMART DISTRICT APPROACH

FAST TRACKING INNOVATION

NOVEMBER 11, 12:00PM - 1:15PM

Welcome

#PublicSectorInnovationWeek

Session overview

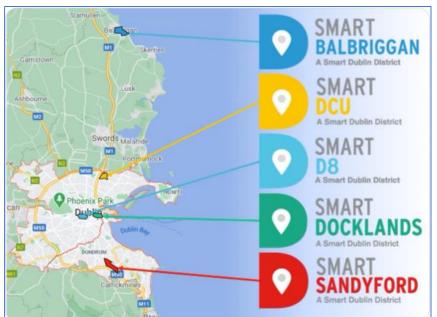
- 1. Introductions
- 2. Smart Docklands Edward Emmanuel
- 3. Smart Sandyford Conor Dowling
- 4. Smart DCU Kieran Mahon
- 5. Smart Balbriggan Aishling Hyland
- 6. Smart D8 Nicola Graham
- 7. Smart Tourism Barry Rogers
- 8. Panel discussion

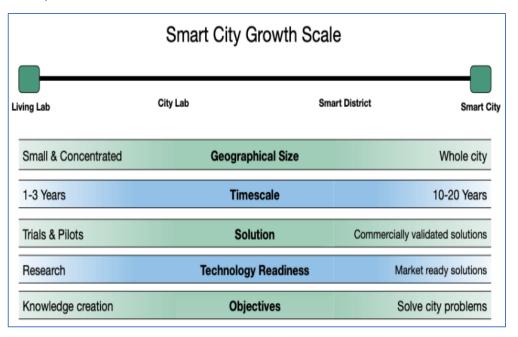




Smart Districts Introduction

- Discrete districts within a city is nothing new (e.g.) IFSC, Italian Quarter, The Liberties, etc.
- Smart Districts in Dublin;
 - ✓ The Councils are accelerating innovation through trialling solutions to solve local challenges.
 - ✓ A Project Management Office (PMO) plays an 'honest broker' role amongst government, industry (large and small), business owners, universities and research centres, and citizens.
 - ✓ A distributed local approach; diverse knowledge creation, collaboration between district leaders.



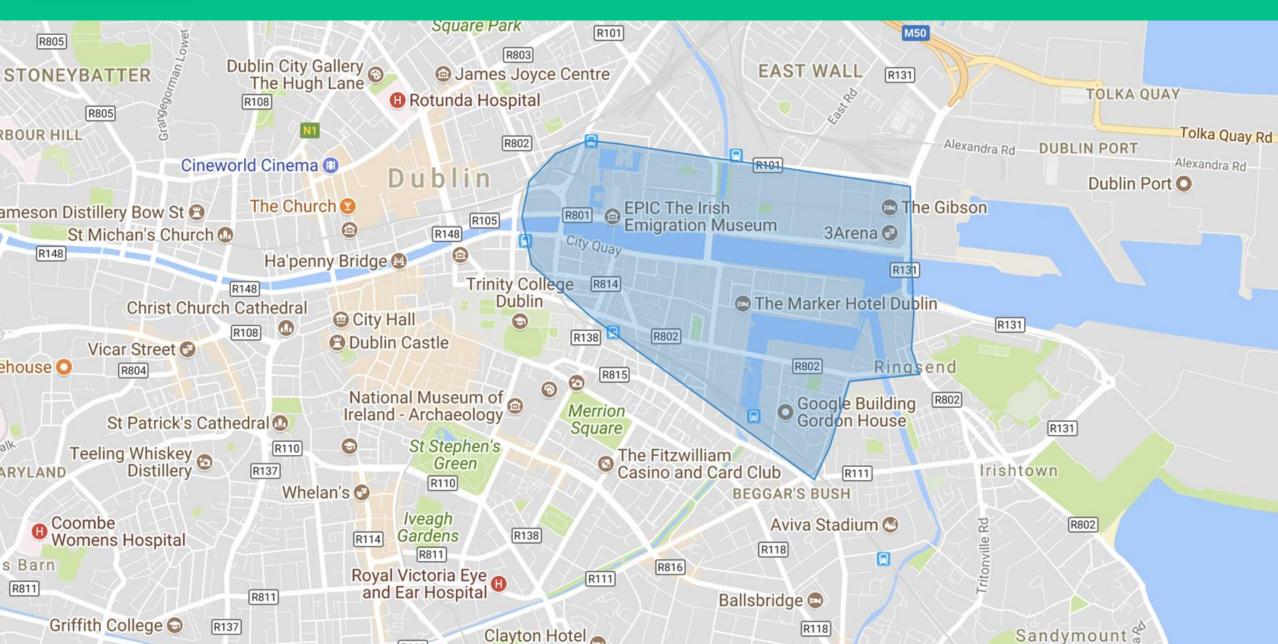














44,000 Employed



26,000 Residents

A leading ★ university at its doorstep

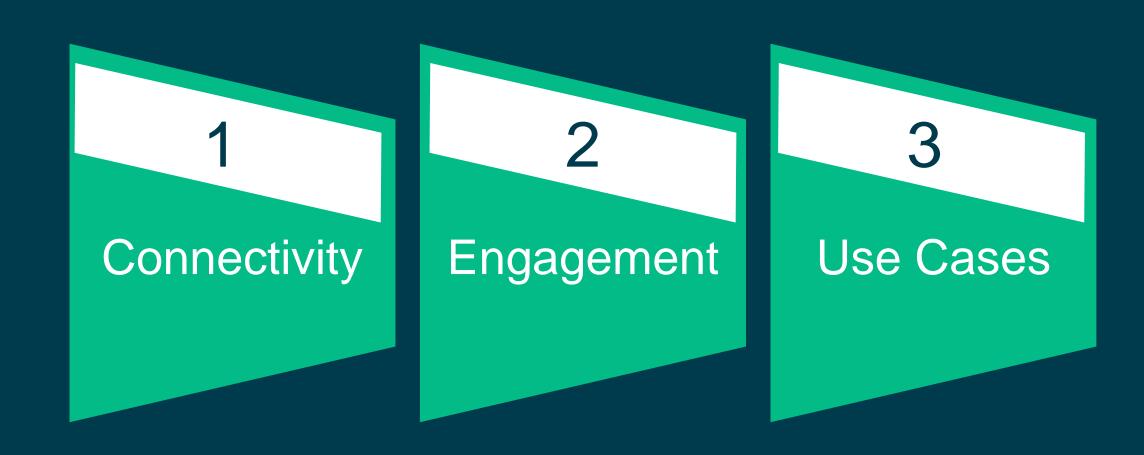


Home to over 500 businesses





Smart Docklands Programme





Some Examples: Fast Tracked Innovation





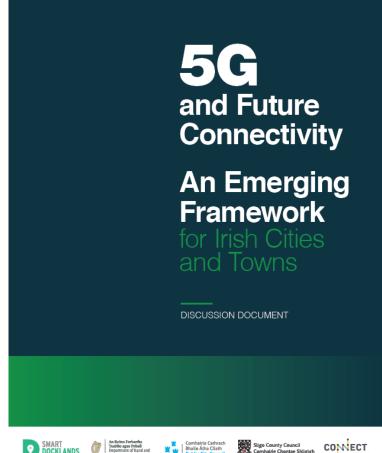
Coverage Footprint





















The main report and it's executive summary can be found here.











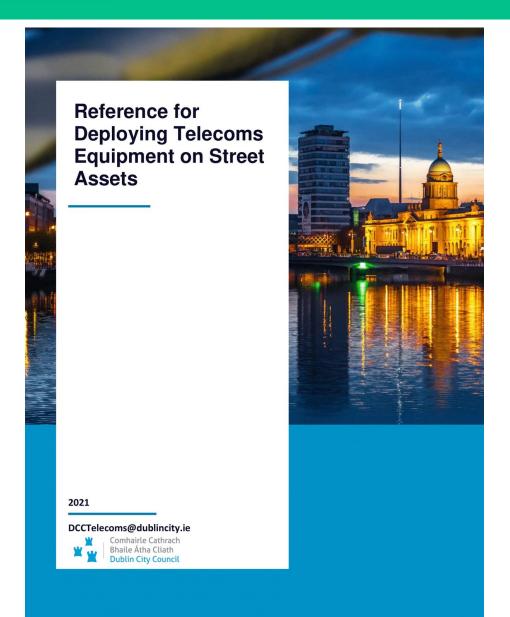
















- Small cell playbook for local authorities around the world approved by the TIP Technical Committee
- Based on the learnings gained from deployments
- Playbook examines the challenges, opportunities and solution pathways related to future small cell rollouts

















Mapped Assets



Residential

Infrastructure

Commercial

Emergency Services

Health Care

Education

DCC Docklands

DCC Traffic Ducting

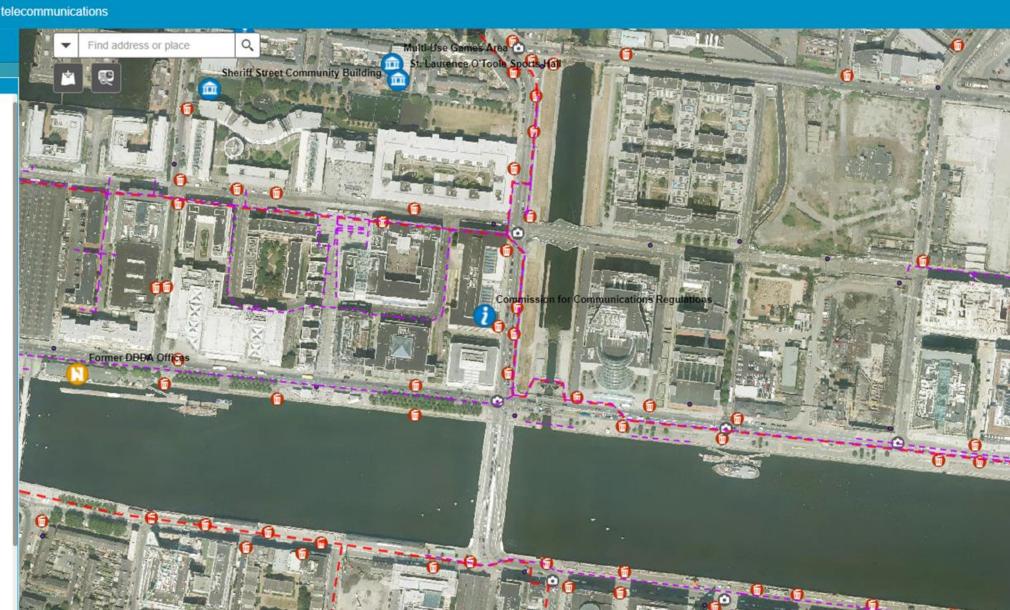
Traffic CCTV

SC_DCC_traffic_signal_poles

Big Belly Bins



Dublin 2018 Ortho 125mm





Engagement





Engagement

ACADEMY 器NEARFUTURE

Academy of the Near Future is a smart city education programme for Transition Year students and local authority workers.

The programme is designed to **demystify smart cities** for those with **no previous knowledge** of smart city concepts or technologies, in order to **empower more people to become engaged actors in the development of smart cities.**

The programme supports <u>UN Sustainable Development Goal 11</u> to 'make cities and human settlements inclusive, safe, resilient and sustainable', and will reach 1000 students in 2021/22, with an initial focus on groups underrepresented in STEM.

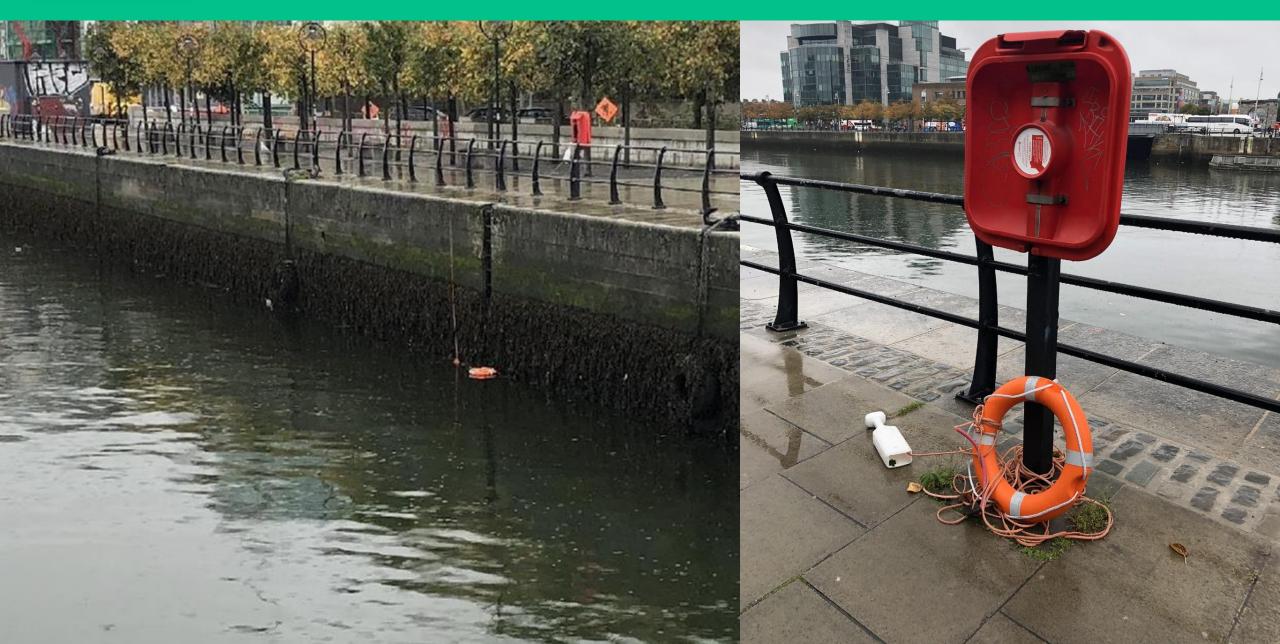
To find out more go to **nearfuture.ie**

















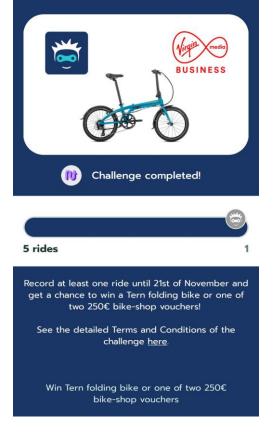












Virgin Media Business Grand Prize Challenge

Dublin Cycling Buddy mobile app Download at Play or App store

Dublin Shortlisted for:

EUROPEAN CAPITAL OF INNOVATION AWARDS 2021





FINANCIAL TIMES

Winners

Strategy

Future 2019/20



SMART LOCATIONS OF THE FUTURE 2019/20







Winner

Social Impact – Promoting Small Cells for Social/ Economic/ Environmental Development

Enabling neutral host small cells providing unrivalled benefits to the city, mobile operators and citizens





Comhairle Cathrach Bhaile Átha Cliath **Dublin City Council**





Strategy Awards 2019 Winners



GLOBAL THOUGHT LEADERS





www.SmartDocklands.ie













Innovation Week

District Approach





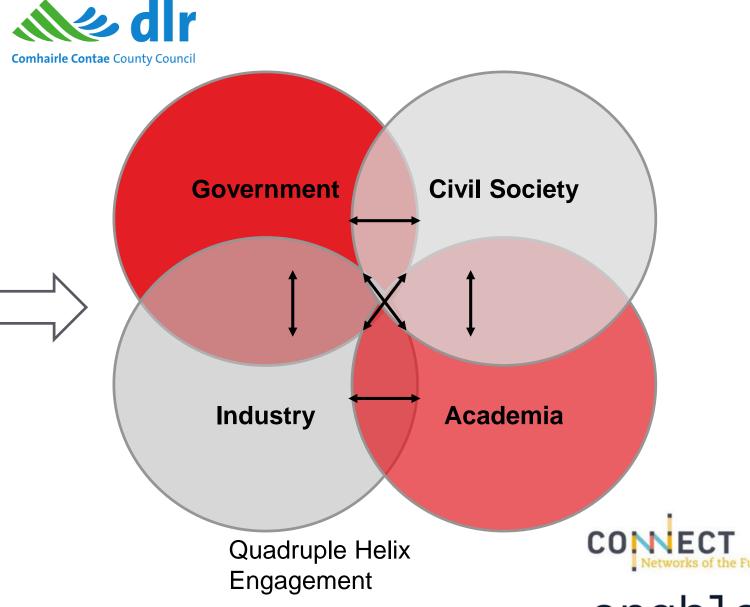






Collaborative Engagement









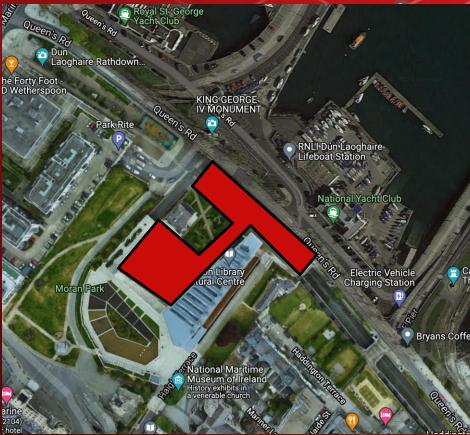
Plastic Raiders

- 1. Stakeholder Engagement
- 1. Citizen Science Gamification
- 1. Sustainability
- 1. Innovation OpenLitterMap
- 1. Review and expand





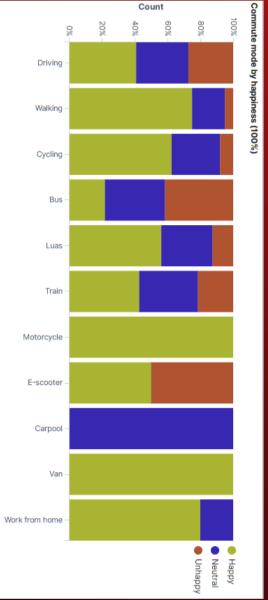




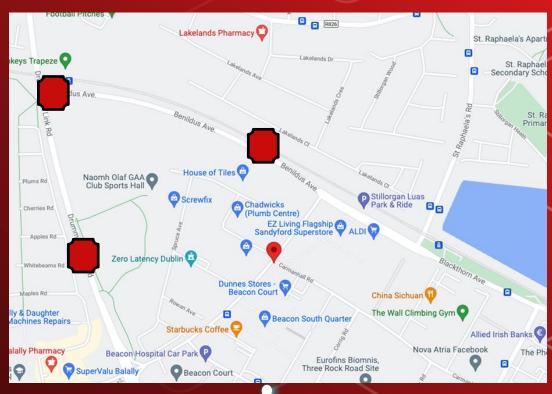


Sustainable Transport





IoT Deployments





EU Research





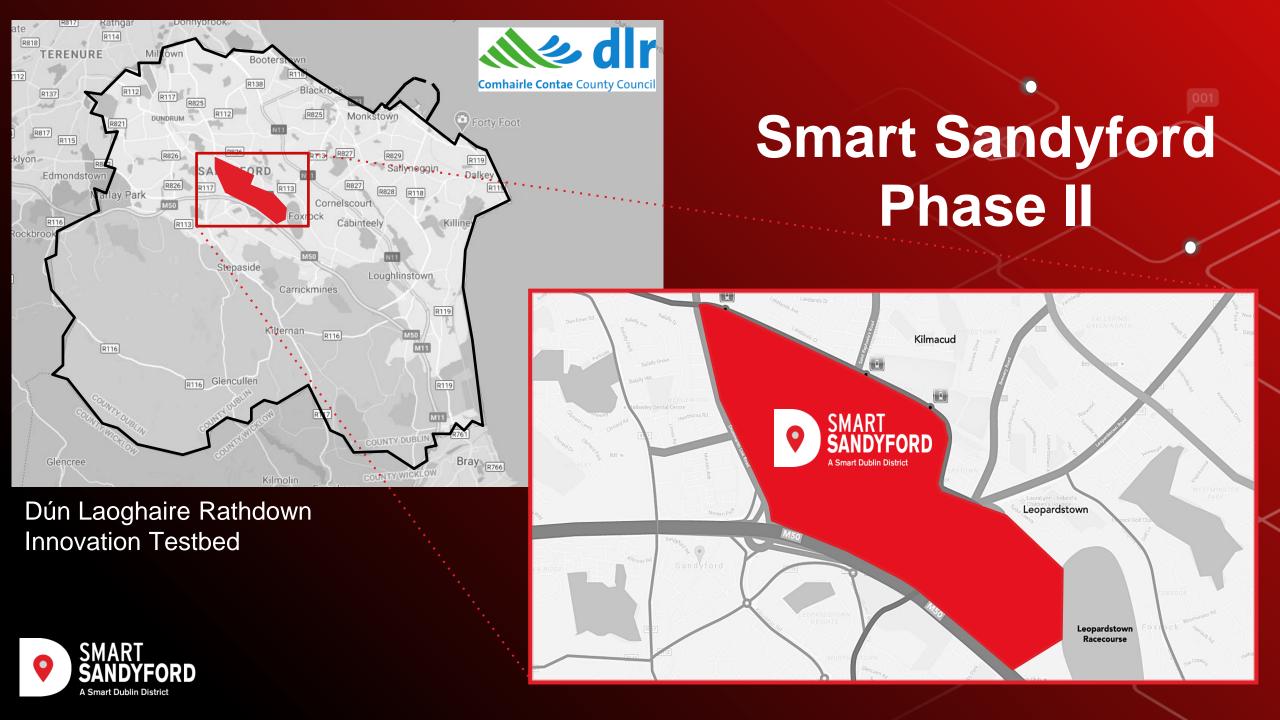






PROBONO





Thank you

conor.dowling@smartsandyford.ie



















Comhairle Cathrach Bhaile Átha Cliath **Dublin City Council**









Smart DCU introduction

Smart DCU located on the north side of Dublin

18,500 students (55 countries)

Over 2,000 staff

Use this as a test bed for Smart City innovations

Where the Campus is the City

Students and Staff are the citizens





Not just a University, a Microcosm of a city (100% controlled by the University)

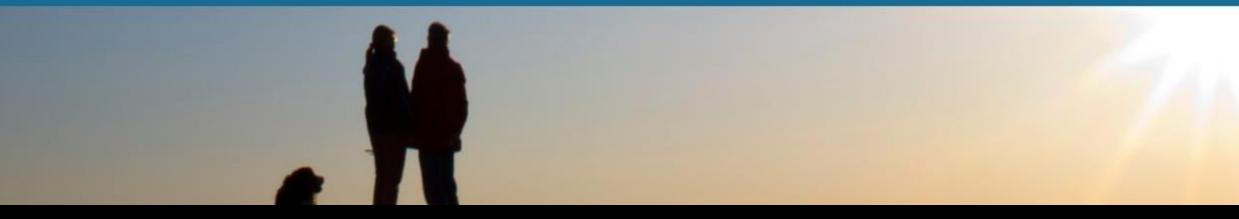




Smart DCU supported by Insight







Empowering Citizens through Smarter Societies



Smart DCU E-Scooter safety Pilot

Fleet of E-Scooters on Campus







Smart DCU E-Scooter safety Pilot

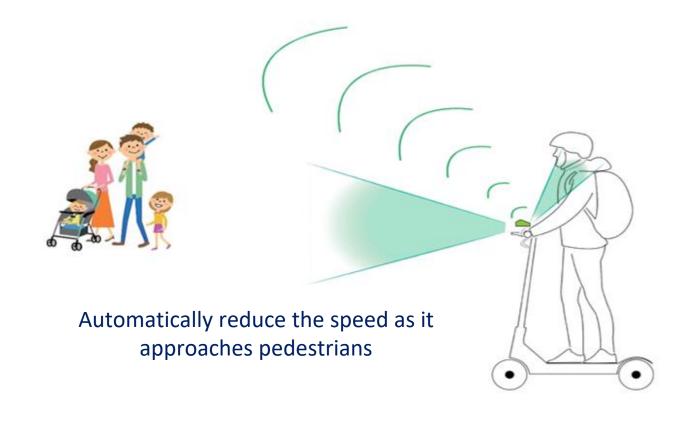
Fleet of E-Scooters on Campus

Being equipped with AI enabled Computer Vision

Hazard detection

E-scooter fleet into a mobile real time sensor networks









Intelligent transportation and Smart Cities



Collaboration objectives:

- Prepare DCU vehicle fleet to move to all-electric
- Determine the reduction in carbon footprint
- DCU Insight Vehicular Technology Research
 Analysis of usage
 Most efficient routing
 Battery charging patterns
 Improve sustainability
 Improve the efficiencies of Smart Cities.
- Seek to answer the question, would access to free intercampus shared E-cars drive a modal shift away from bringing your own car to DCU (take public transport instead).



Research into optimising the deployment of shared e-cars to improve the sustainability and efficiencies of Smart Cities





Delivery Robots



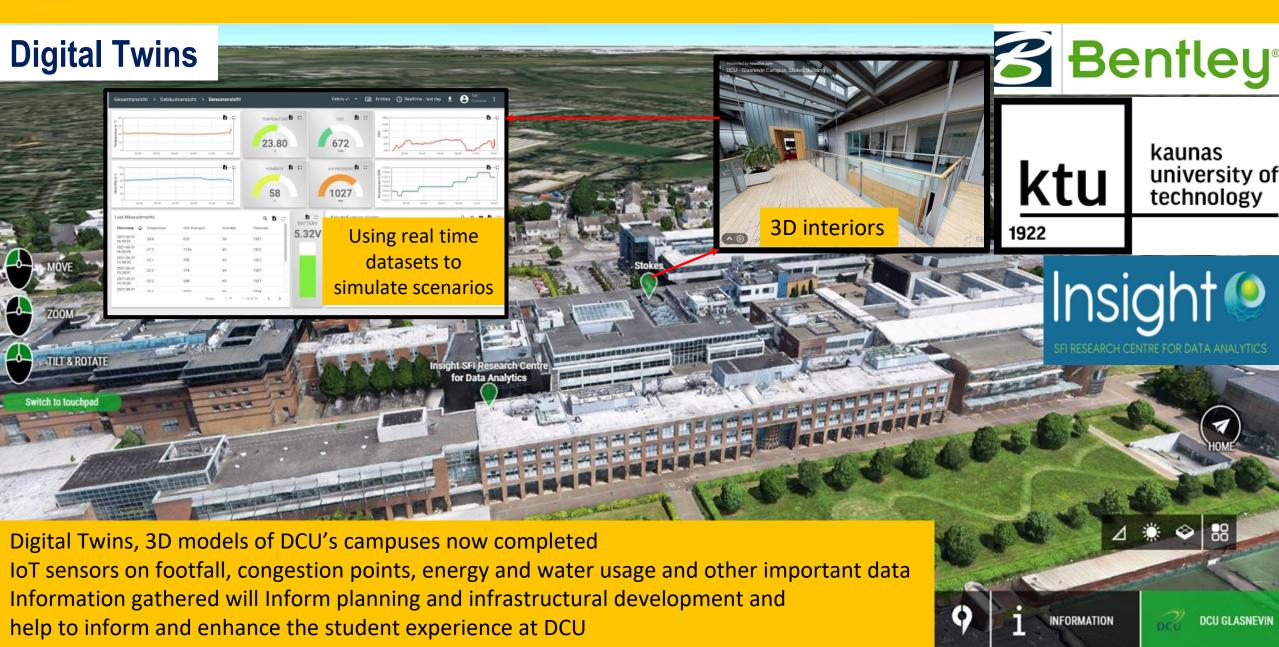
- Remotely driven Delivery Robot (Teleoperation)
- Video feed to a person that steers it
- Mobile networks for the communication channel
- Zero emissions
- Future Retail



- Computer Vision enabled Delivery Robot
- Automatic learning of surroundings
- Autonomous
- Zero emissions
- Future Retail



Ireland's first higher education digital campus



















Smart Balbriggan Overview

Nov 11th 2021



Agenda

- Smart District Overview
- Project Trello Board
- Project Spotlight
- What's next?



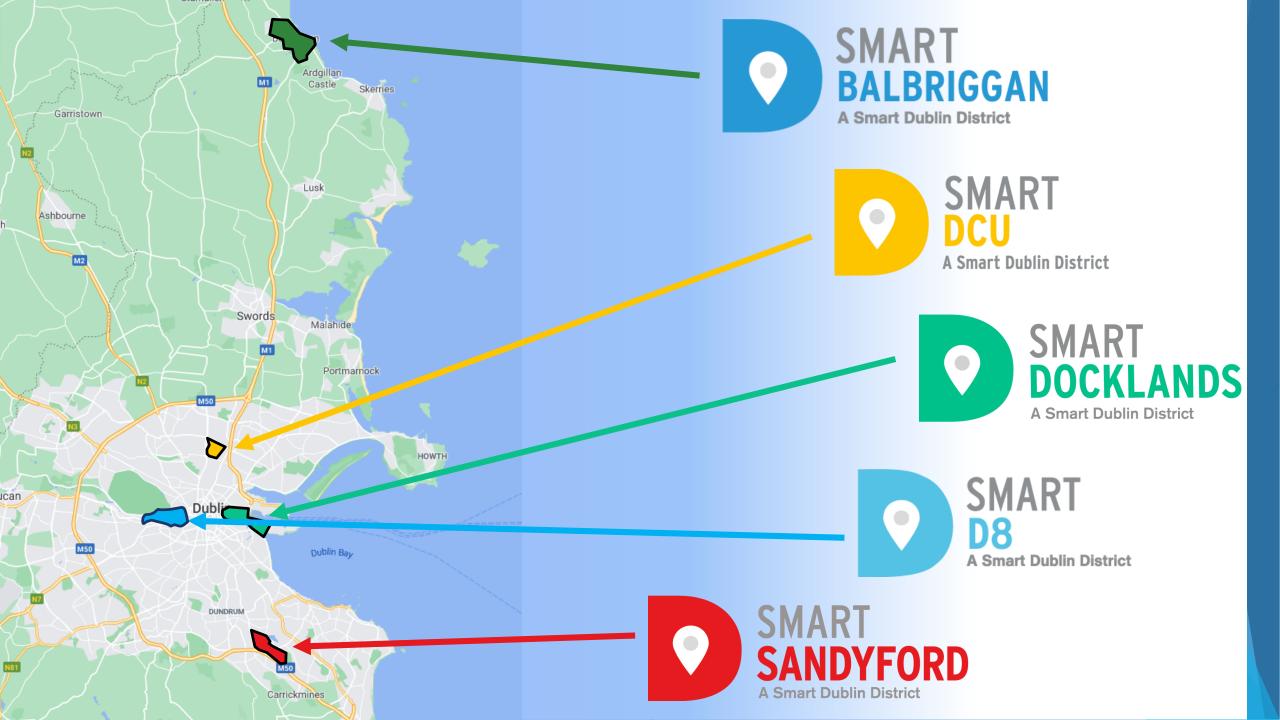


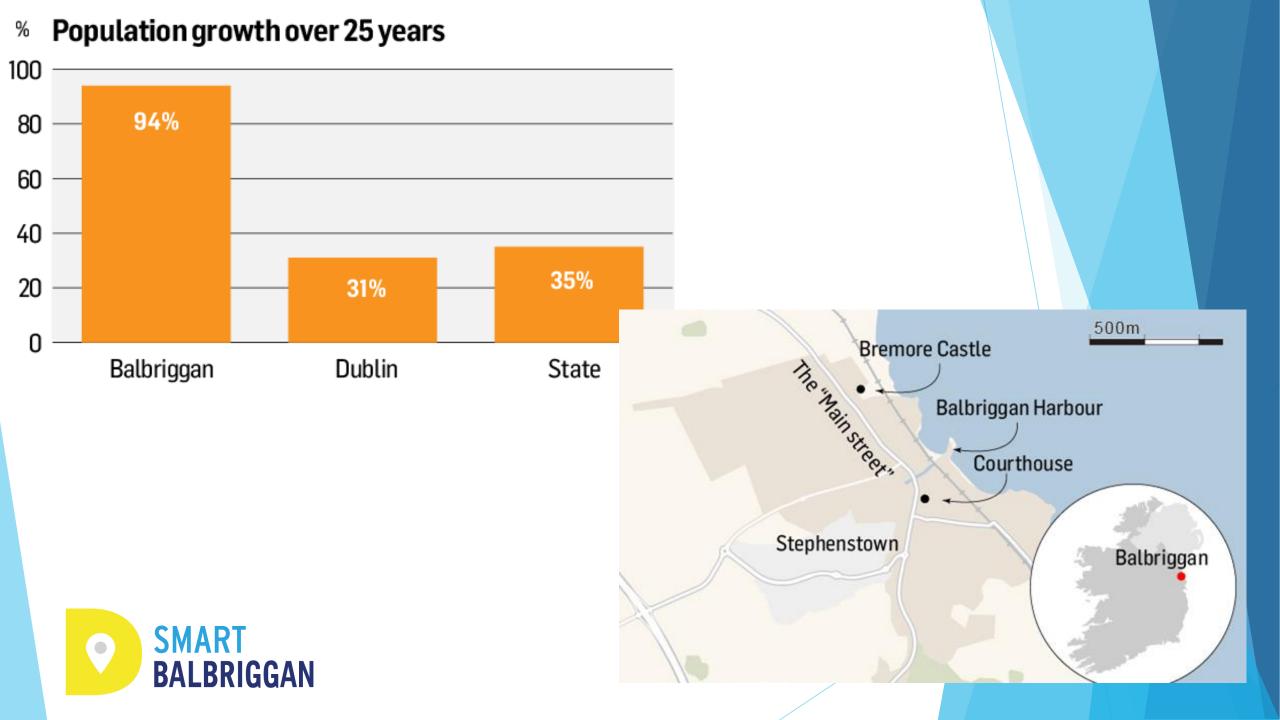
Comhairle Contae Fhine Gall Fingal County Council

















Our Balbriggan 2019 - 2025 Rejuvenation Plan

New Thinking Fresh Leadership Ambitious Initiatives





Core Themes

- ► Community Building: The Smart Balbriggan District will build the town's identity as a forward-thinking, young and dynamic place to live, work and visit.
- ▶ Job Creation and Economic Growth: A key message of the Smart Balbriggan District is that Balbriggan is open for business and investment.
- ► Improved Services and Public Realm: Delivering better more efficient services and improving public realm with smart solutions.

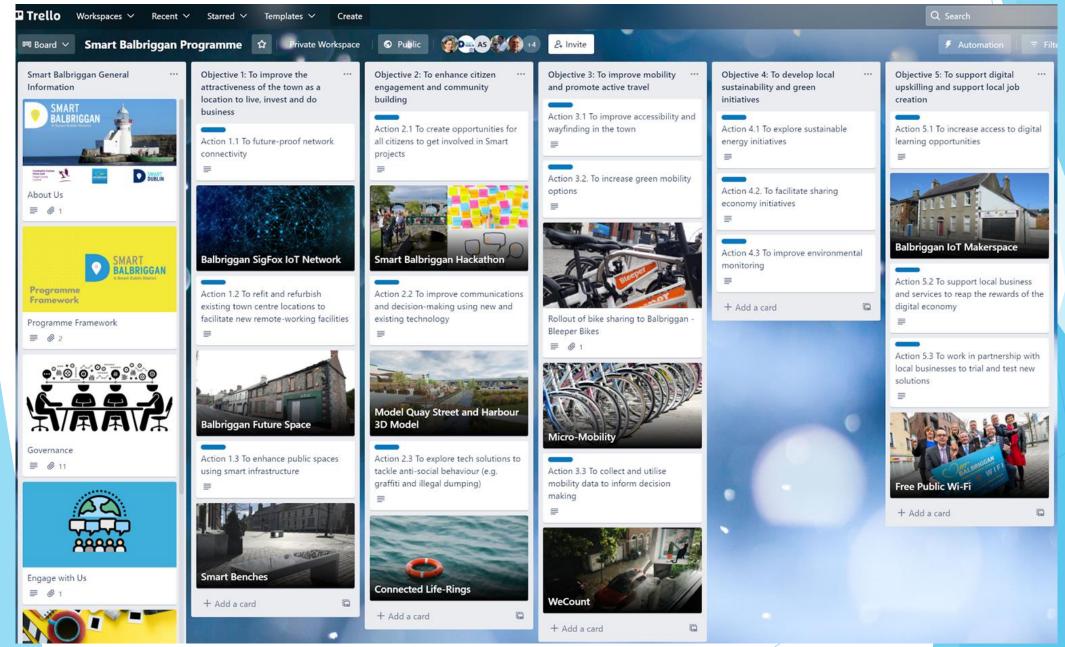




Stakeholders



Project Trello Board



Project Spotlight: Balbriggan 3D Model

A Platform to Plan,
Communicate and Realise
the Our Balbriggan 2019 2025 Town Rejuvenation
plan. Funded by the Public
Service Innovation Fund

Service



Project Spotlight: Balbriggan 3D Model







Web viewer

Built for interactive community engagement

Desktop viewer

Built for staff use, added functionality

VR Headset

Built for immersive simulation and engagement



Project Spotlight: Balbriggan 3D Model



Project Spotlight: Smart Balbriggan Transition Year Design Challenge

Academy of the Near Future

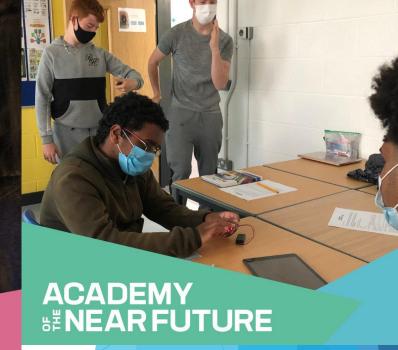




Project Spotlight: Smart Balbriggan Transition Year Design Challenge









Project Spotlight: Smart Balbriggan Transition Year Design Challenge

- 1. Community Challenge: How do we build a stronger, cohesive and vibrant community?
- Over 130 students took part in the TY Design Challenge.
- 3 Secondary Schools
 - CGNM Coláiste Ghlór na Mara
 - Ardgillian Community College
 - Bremore Educate Together Secondary School
- Winning Team: CGNM Coláiste Ghlór na Mara "Food Waste".
- Student testimonials in response to question: 'What was the high point of the workshop?"
 - 'Coming up with creative ideas to make towns better'
 - 'Learning that I can think of solutions to problems.'
 - 'Working together as a team was a highpoint for us as we communicated well together'



Project Spotlight: The Changing Face of Balbriggan Community Hackathon October 16th 2021









- Community Challenge: How do we build a stronger, cohesive and vibrant community?
- 2 competing teams
- Seed funding to develop ideas further



Events: The Changing Face of Balbriggan Community Hackathon October 16th 2021





BALBRIGGAN THINK TANK

BUILDING COMMUNITY PRIDE

THE SOLUTION

BALBRIGGAN THINKTANK TO BUILD CIVIC PRIDE

- PODCASTS AS A COMMUNITY COMMUNICATION TOOL
- COUNCIL TOWN HALL WORKSHOP TO BUILD POSITIVE RELATIONSHIP AND ENCOURAGE COMMUNITY ENGAGEMENT
- IMPROVED EXISTING TOOLS SUCH AS FIX MY STREET WEBSITE



- > 3D Model
- Develop consultation features
- Citizen Engagement with VR Headset
- Smart Balbriggan TY Challenge & Hackathon
- Look to support winning solutions
- Support annual event
- Expand project delivery across all District themes:
- Community Building
- Job Creation and Economic Growth
- Improved Services and Public Realm





Get in touch!

If you would like to find out more or get involved in Smart Balbriggan email smart.balbriggan@fingal.ie











Smart Dublin's Health and Wellbeing District

Nicola Graham, DCC Smart City Operations Manager











SMART D8



WORKING TOGETHER TO IMPROVE HEALTH AND WELLBEING IN THE D8 AREA

- Newest Smart District under the Smart Dublin umbrella
- Focused on Health and Wellbeing
- Initiated by 4 Lead Partners
 - Dublin City Council's South Central Area Office
 - ➤ DCC's Smart City Unit
 - ➤ Digital Hub
 - ➤ St. James Hospital
- Established in 2020 and officially launched in March
 2021 by Minister Simon Harris



Webinar Link to Smart D8 Launch: https://www.youtube.com/watch?v=7UJ6ziCJO9M&t=1s

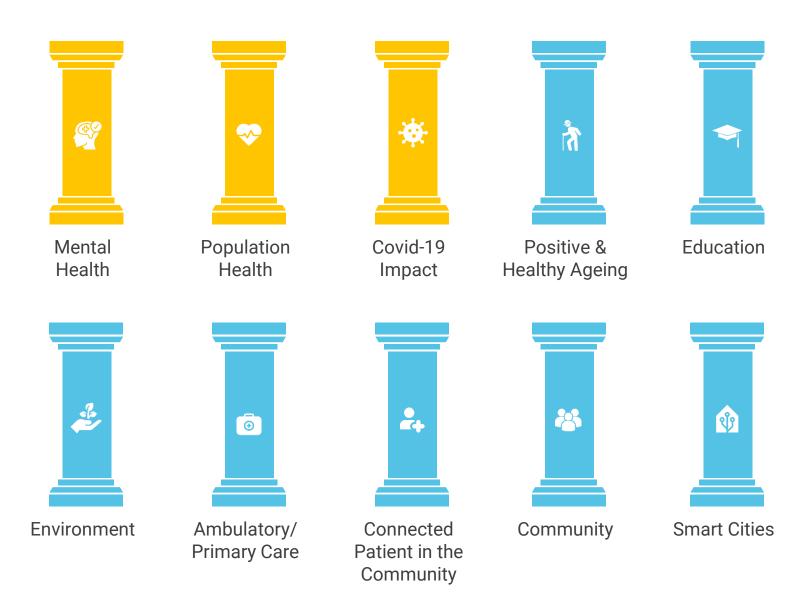
SMART D8 FOUNDING PARTNERS







SMART D8
PILOT CALL 1





PILOT CALL 1 RESULTS

37

Applications Received 10

Proposals Shortlisted 5

Pilots Selected

Successful Pilots were announced on the 16th of August:

https://smartdublin.ie/smartd8-pilot-selection-announcement/

SMART D8



Pilot Call 1 - Mental Health Pillar



Ways to Wellbeing: Learning from Locals – supported by St.Patrick's Mental Health Services, this project will support primary and secondary school students to learn about mental health and wellbeing by engaging with the older community in Dublin 8.

Virtual Reality Meditation Platform – led by Solas VR, this project will pilot a Virtual Reality Meditation platform in the community creating a short VR escape and time and space to step back from events or situations that are impacting them.





Mental Health Literacy – focused on empowering adults engaged with mental health services; this proposal aims to address the challenges of health and digital health literacy to support decision-making and treatment planning using a co-design process.

SMART D8



Pilot Call 1 - Population Health

Heart of our City – partnered by the Irish Heart Foundation and Novartis, Heart of our City is a program focusing on heart health in Dublin 8 by connecting people locally with a range of resources to support their cardiovascular health.





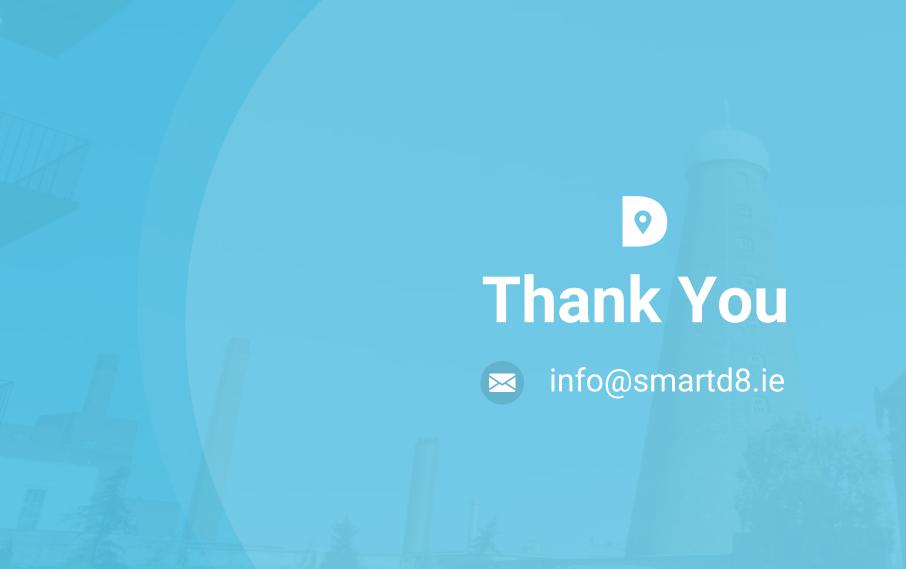
Civic Dollar, A Social Currency Community Platform — This pilot encourages citizens to improve health by getting active and visiting local parks and open spaces. Using a mobile app, you can earn Civic Dollars and claim rewards for physical activity in the local area. Alternatively, you can donate your Civic Dollars to a local community group.

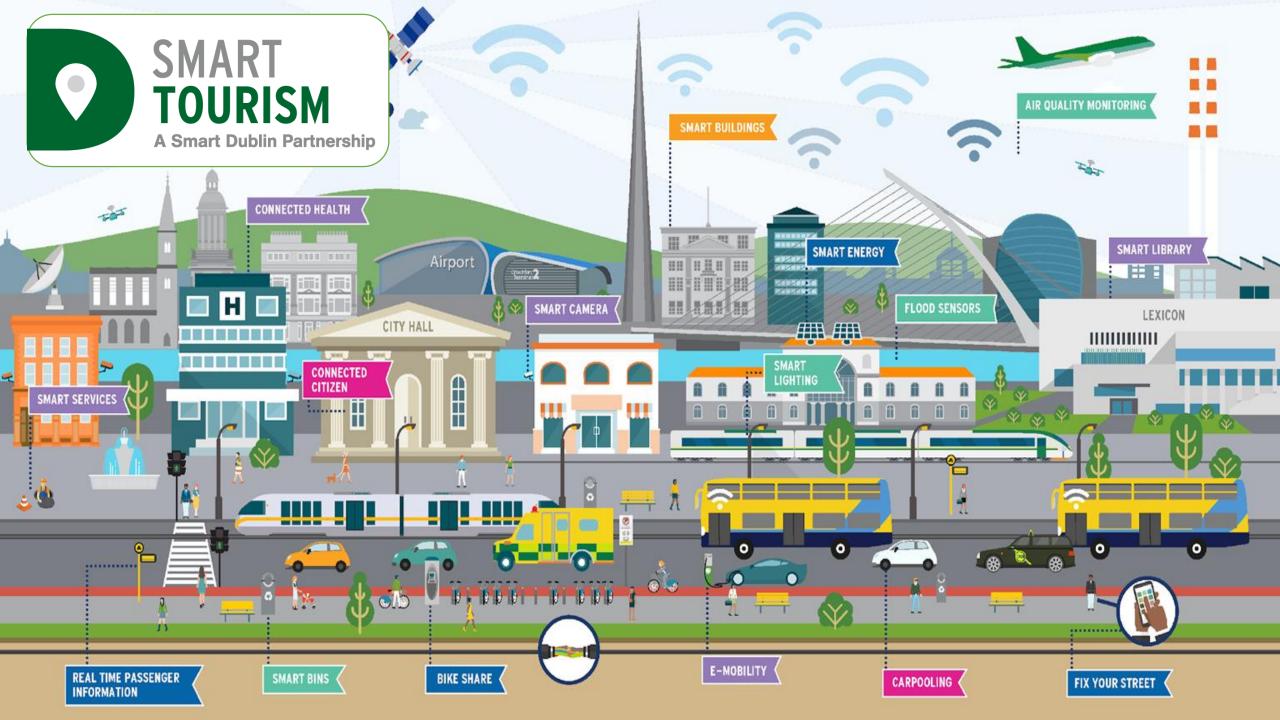


Civic Dollar Pilot - Coming Soon to a Park Near You!



- Supported by DCC Parks, South Central Area Office and the Smart City Unit
- ❖ Aimed at Residents, Local business & Community Groups
- Explore the Outdoors 5 designated DCC Parks in Dublin 8 (Initial Launch)
- Get Active and Earn Rewards
- Support Local Community groups and donate your dollars
- Launching this November, Sign up Today!!







Smart Tourism - Definition



"Smart Tourism is a model for supporting **innovation** and driving **positive transformation** within destinations. It uses **technology, data analysis** and **digitalisation** to build more **accessible**, **sustainable** and **equitable** destinations, ultimately creating more **inclusive prosperity** for **locals** and **better experiences** for visitors."

















Current Work Streams

The Programme for this partnership will be delivered under the following four headings throughout 2021 and 2022:



Digital Trails



Orientation



Data & Insights



Digital Transformation/
Smart Tourism Lens







2021 Engagement





Dublin in bidding to be recognised as 2022 **Smart Tourism Capital at European Awards**



23 October 2021

« Return to listing page





Dublin shortlisted among seven European cities to win **Capitals of Smart Tourism award**



Ads by Google Stop seeing this ad Why this ad? ▷















🗘 Fáilte Ireland

Smart Tourism – Model and Network



Clear Channel Project











2022 European Capital of Smart Tourism Fáilte Ireland





SHORTLISTED FINALISTS

EUROPEAN CAPITAL OF SMART TOURISM 2022 AWARD



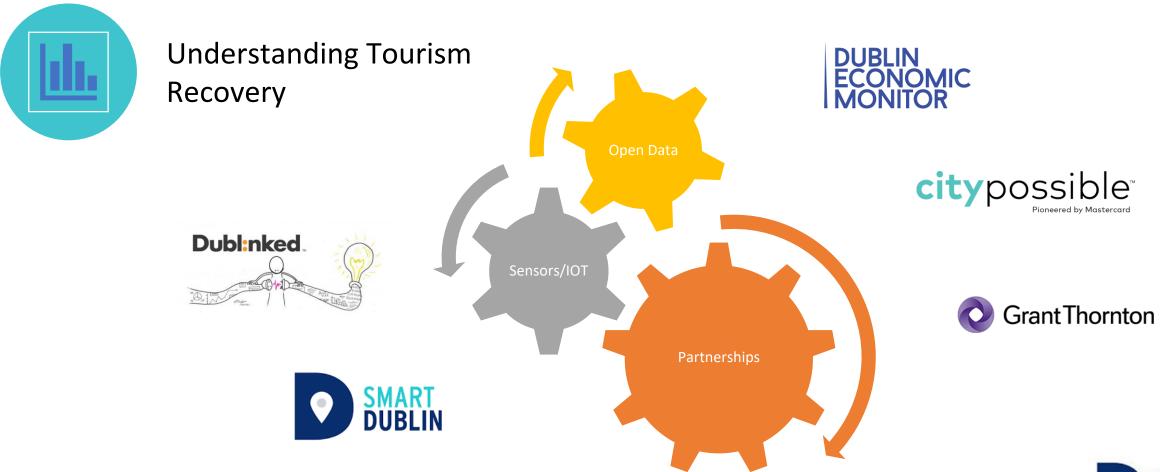








Data and Insights





2022 Data & Insights





Dublin Tourism Recovery Spotlight

October 2021



Spend



Footfall



Mobility



Beds



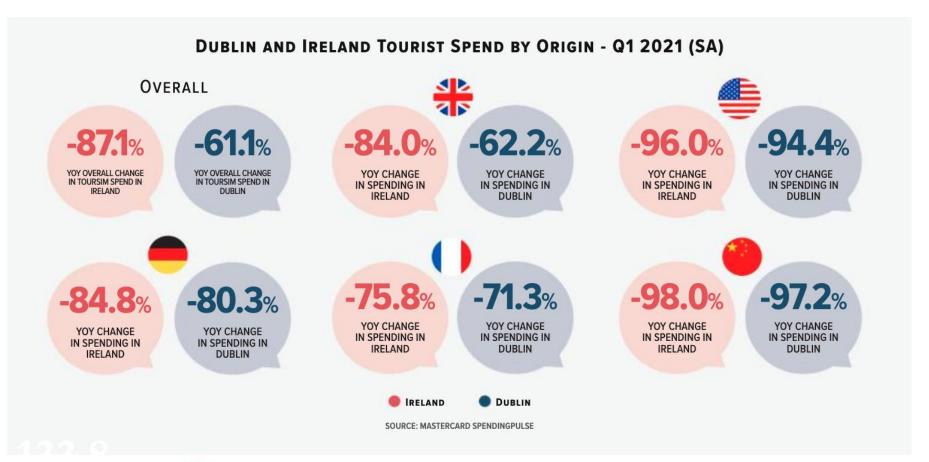
Air

This spotlight focuses on monitoring Dublin's tourism recovery across key economic indicators such as Spend, Footfall, Mobility, Accommodation and Air Access. It uses multiple indicators and data sources with as up to date data as possible. It is produced on the last working day of every month. This report is not for external publication or quoting.



Spend

Data driven decision making through partnership and collaboration.















Digital Trails Best Practice





<u>Digital Trail Development Opportunities for Tourism and Hospitality: Lessons from Ireland</u>

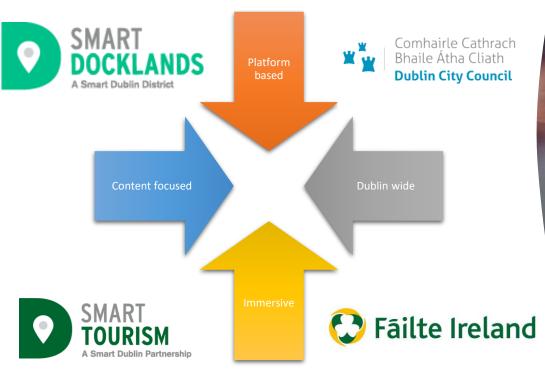
By: <u>Alex Gibson</u>, Assistant Head of School, School of Marketing, TU Dublin, and <u>Barry</u> <u>Rogers</u>, Smart Tourism Programme Manager, Smart Dublin







Heritage Trail Platform





2022 Programme Plan





Digital Transformation



Data & Insights



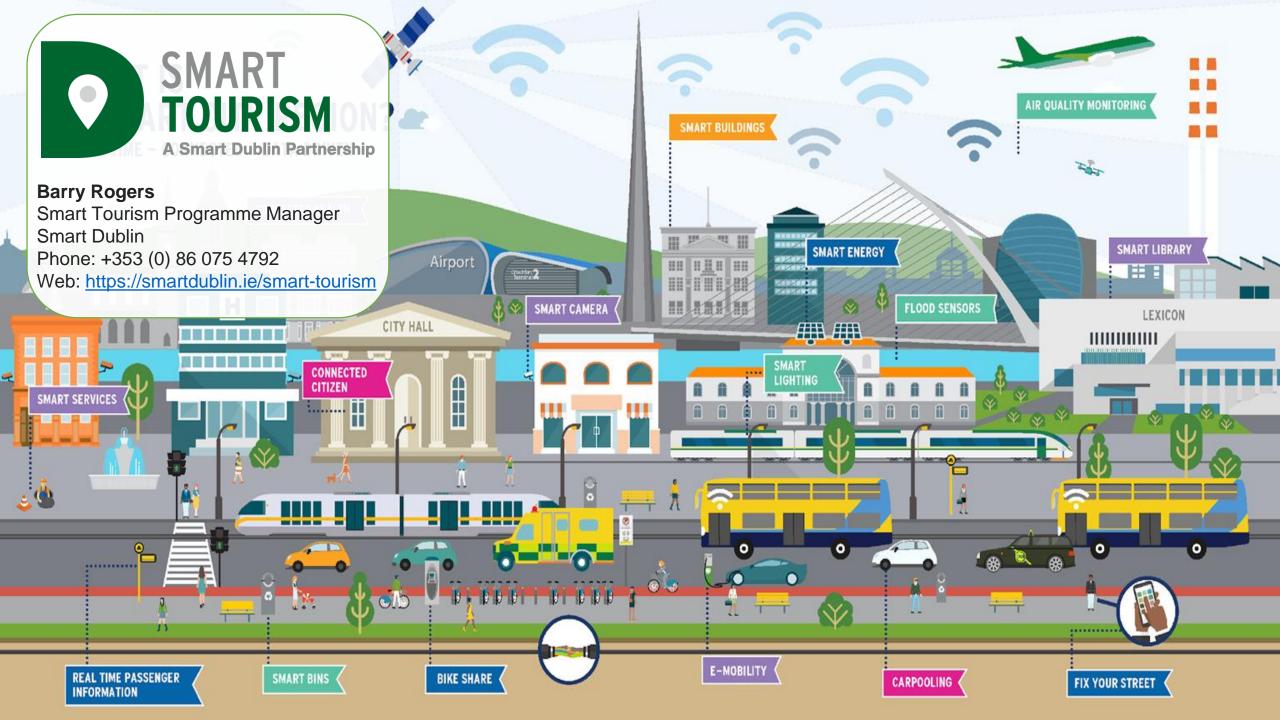
Sustainability



Engagement and Collaboration







Thank You

- To our Producers
- To our Audience
- To our Speakers
- To our Collaborators

If you want to find out more: https://smartdublin.ie/smart-districts/



