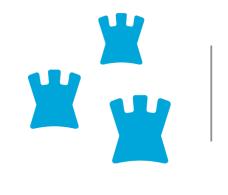


Jamie Cudden

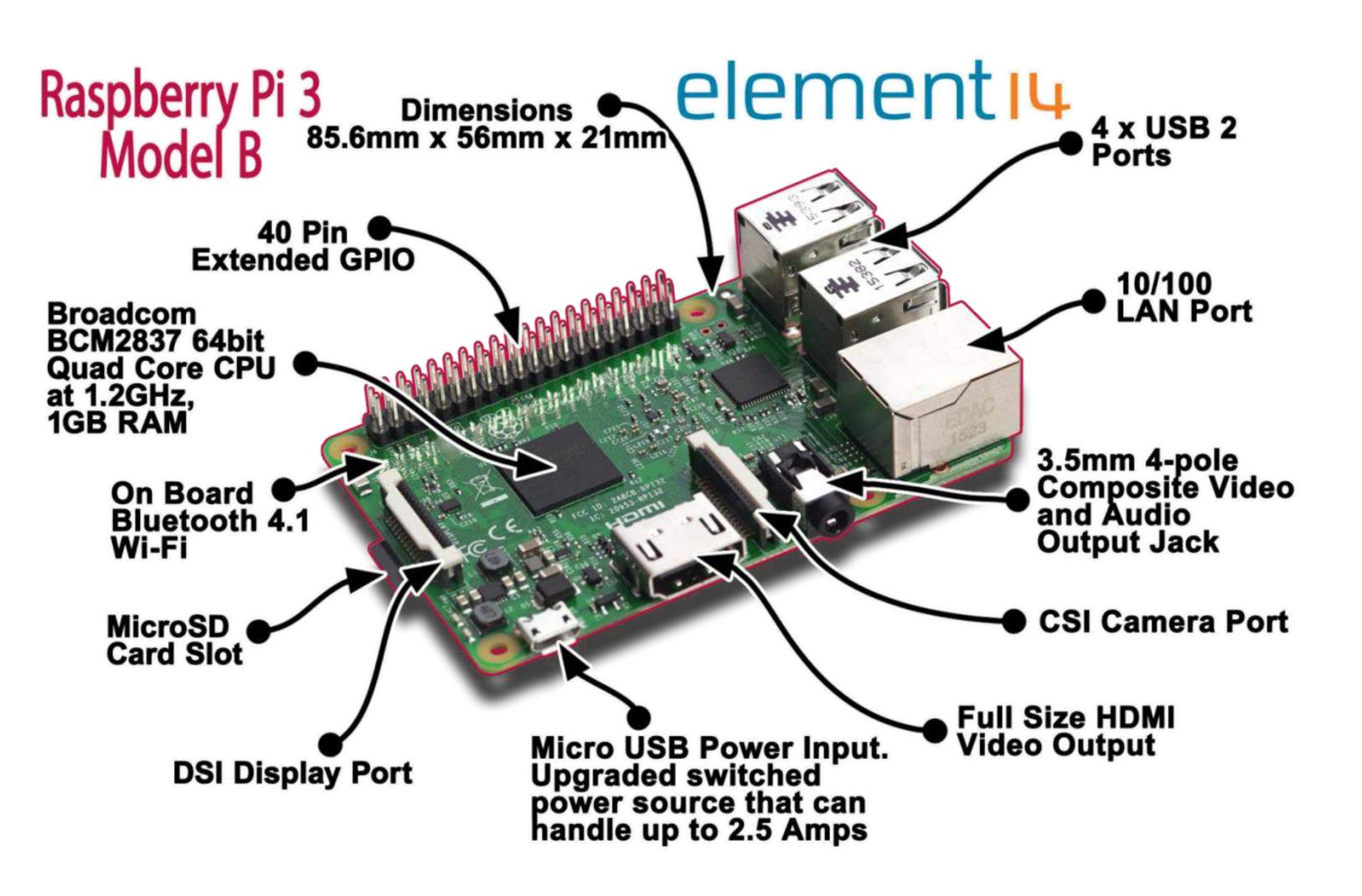
Smart City Programme Manager



Comhairle Cathrach Bhaile Átha Cliath Dublin City Council



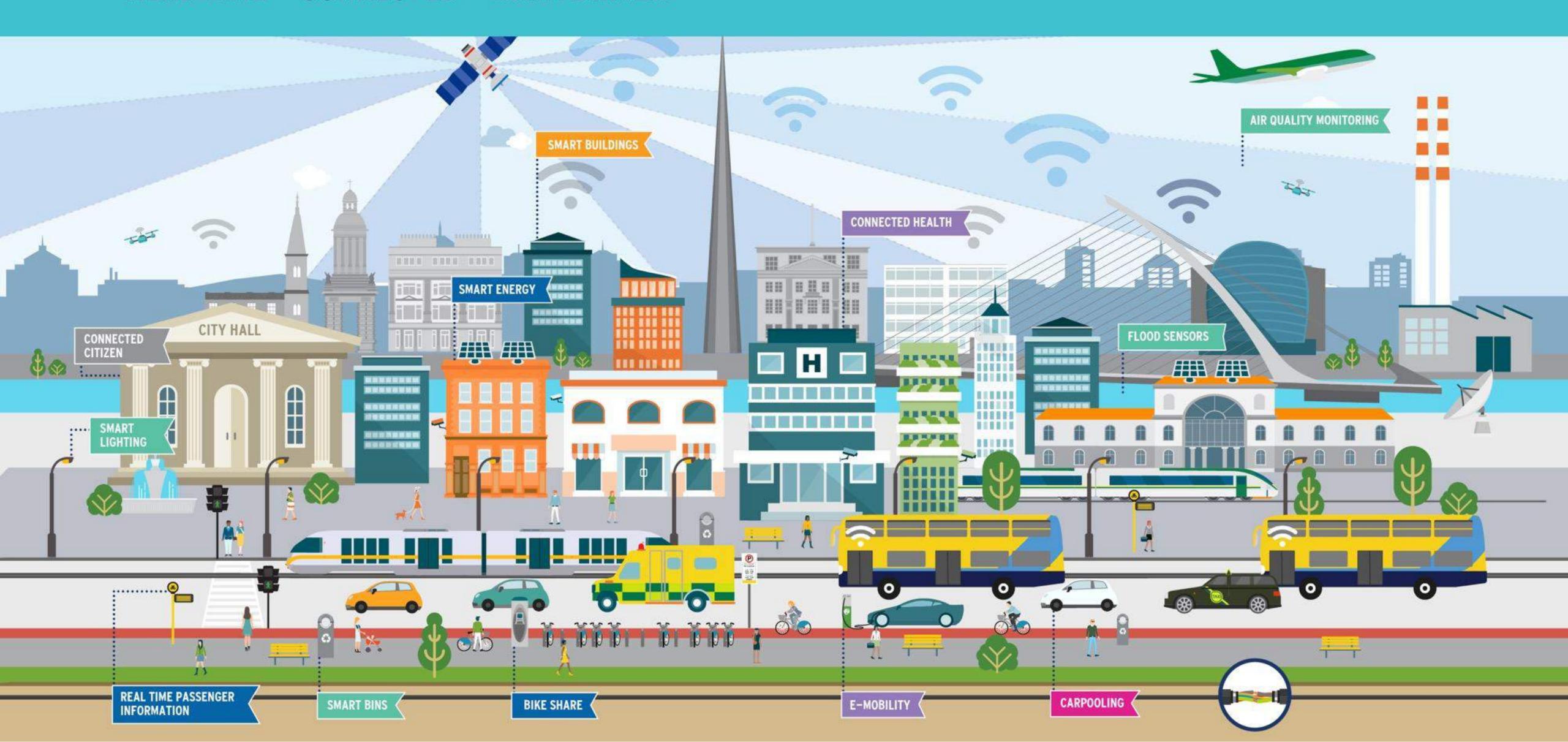
The sub-\$10 loT





WHAT IS A SMART CITY?

REAL TIME - CONNECTED - DATA DRIVEN



KEY DRIVERS

1) To promote ECONOMIC development 2) Deliver greater Efficiencies 3) Better Engagement with citizens. 4) Make Better Decisions.....





















Collaboration model































Research Centres:

















Higher Education:









State Agencies:







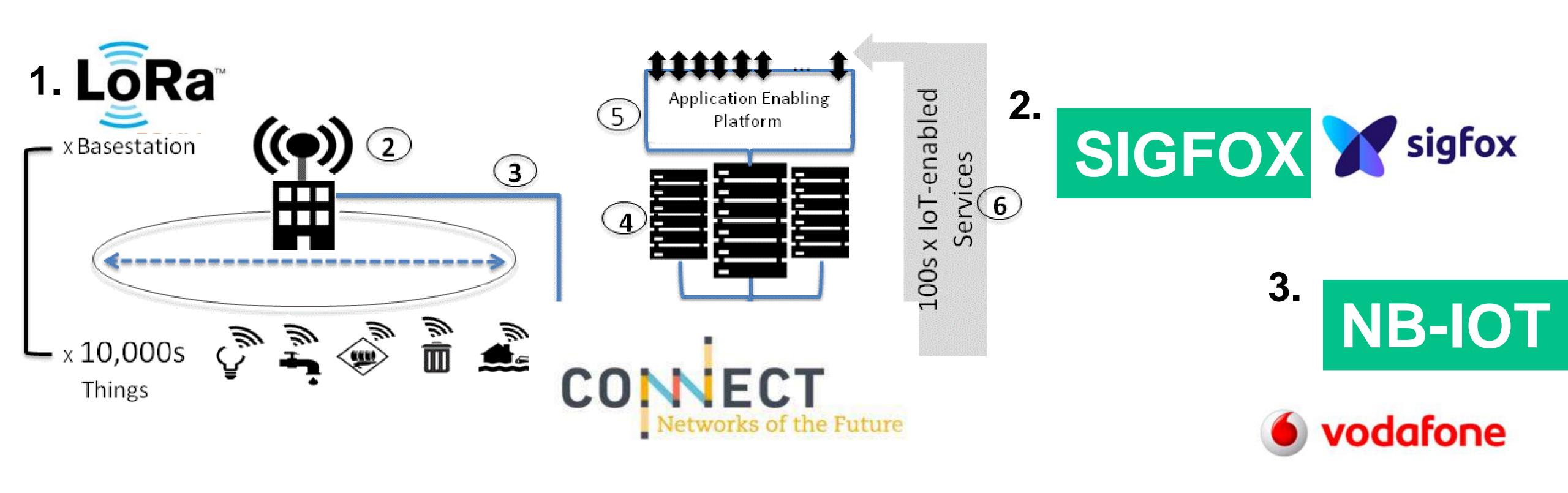


DUBLIN AS A TESTBED

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



DRIVING USE CASE INNOVATIONS IN LOW POWER COMMS

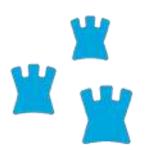


Small messages, Low Power, Long battery life. Suitable for Awkward spots, Low cost point

LOW COST ENVIRONMENTAL MONITORING



Rainfall Sensor Project



Comhairle Cathrach Bhaile Átha Cliath Dublin City Council







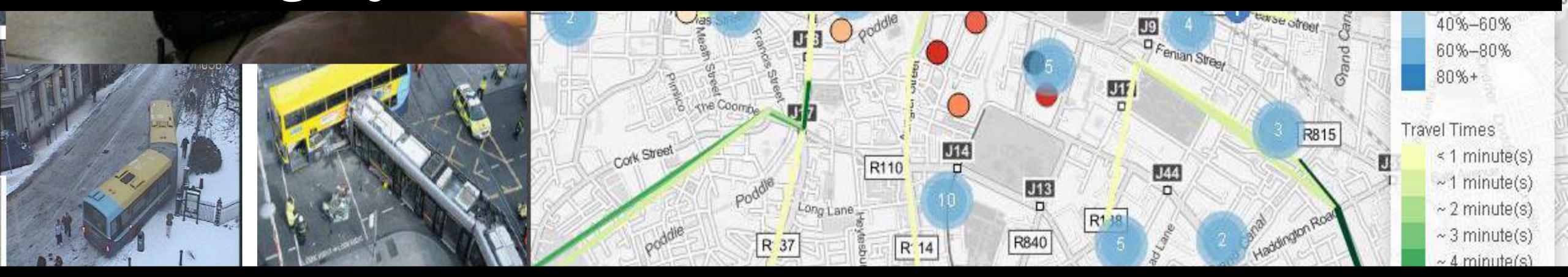




Experiment with hyper local and low cost sensing



Producing dynamic and real time data



Making Better Decisions.....predict, adapt, respond







NEW WAYS OF SOURCING INNOVATION

Working in partnership with Enterprise Ireland through the Small Business Innovation Research (SBIR) programme to find solutions for:

- CYCLING
- FLOODING

- WAYFINDING
- ILLEGAL DUMPING





273

EXPRESSIONS
OF INTEREST





CYCLING

SEEKING SMART, LOW COST SOLUTIONS...





CHALLENGE: SCALEUP CYCLING



IMPROVE SAFETY



REDUCE BIKE | | |





APPLYHERE: WWW.SMARTDUBLIN.IE

€150,000 IN FUNDING AVAILABLE



















Phase 2: 4 contracts @ 25,000







CRASH ALERTS



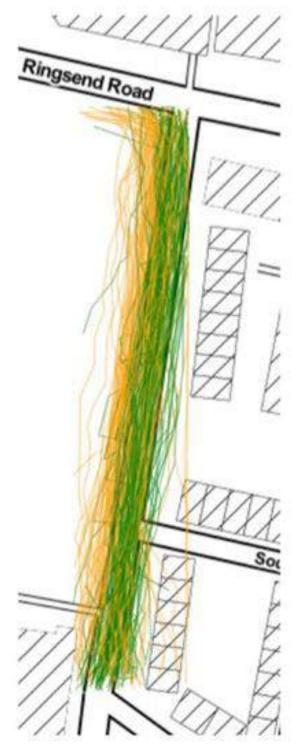


SEE.SENSE°

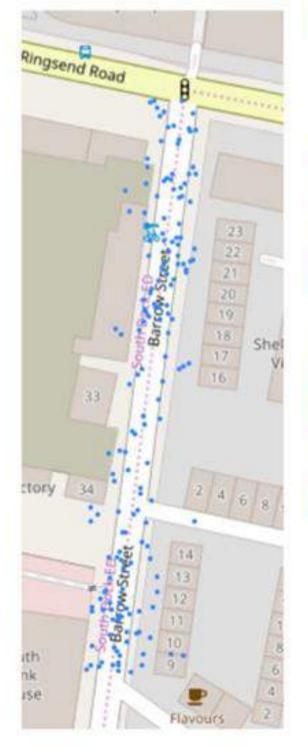
HEATMAP OF CENTRAL DUBLIN

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

DIRECTIONALITY



SEE.SENSE ROAD SURFACE SCORE





GULLY MONITORING



SEEKING SMART, LOW COST SOLUTIONS...

CHALLENGE: REDUCING FLOOD RISK



SOLUTIONS SOUGHT: DETECT OVERFLOWING GULLIES IN HIGHRISK FLOOD AREAS



WITH REAL TIME ALERTS & PICE ANALYTICS



APPLY HERE: WWW.SMARTDUBLIN.IE

€200,000 IN FUNDING AVAILABLE







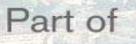
































44,000 Employed



26,000
Residents

90/0



Home to over 500 businesses



Select a theme or a topic

or display

CITIES

COUNTRIES



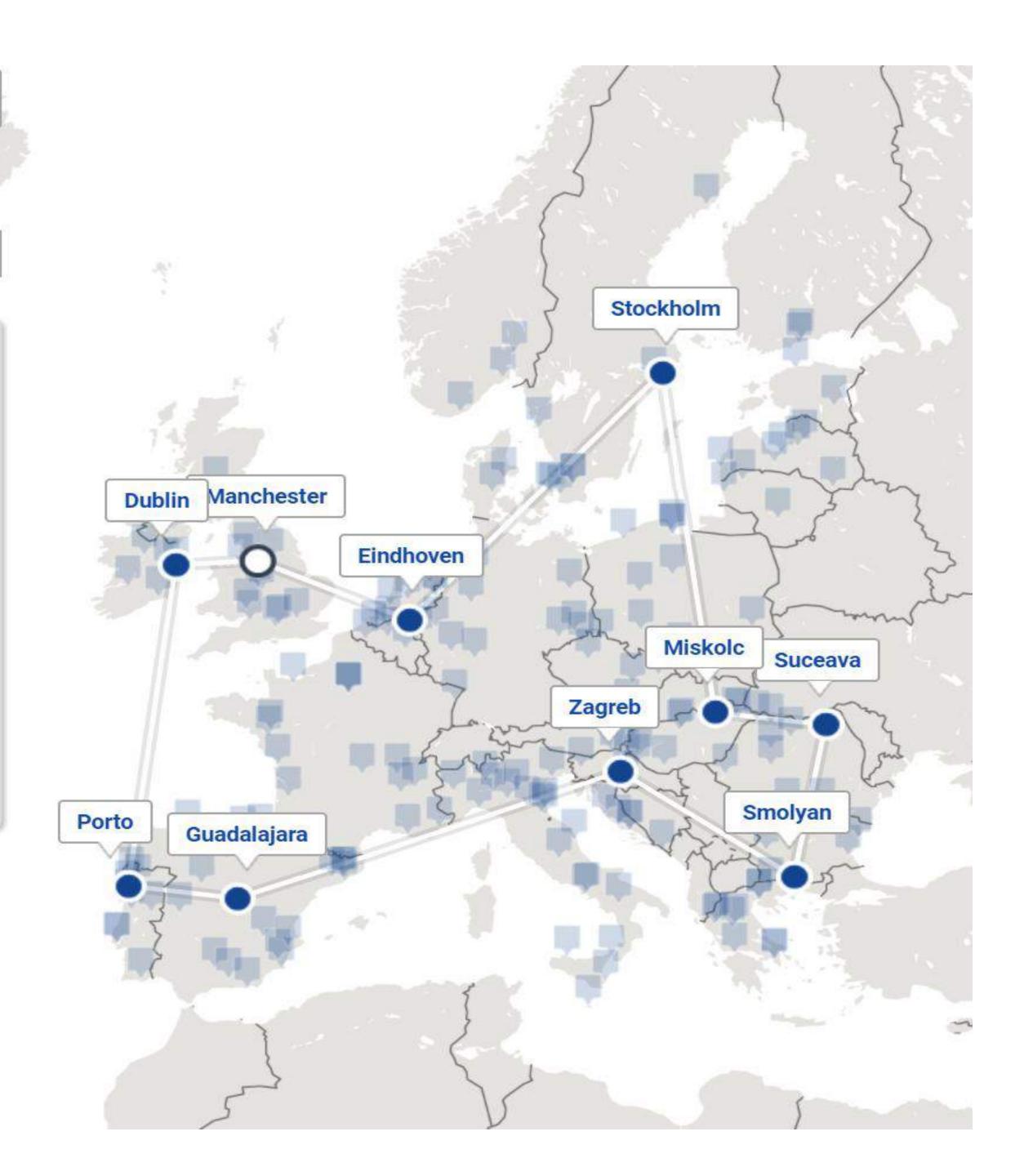
SmartImpact

Local Impacts from Smart City Planning



Partners: Dublin (Ireland), Porto (Portugal), Guadalajara (Spain), Zagreb (Croatia), Smolyan (Bulgaria), Suceava (Romania), Miskolc (Hungary), Stockholm (Sweden), Eindhoven (Netherlands),





Smart Docklands Network







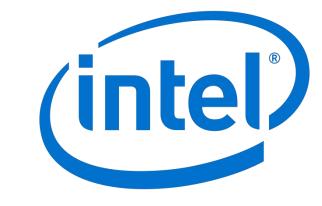


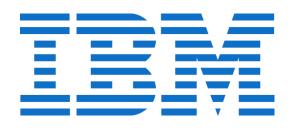






















STAKEHOLDER WORKSHOPS – USE CASE DEVELOPMENT

Infrastructure

DCC Internal Engineers, Novegen, Waterways Ireland, Nama

Hospitality & Tourism

3Arena/Live Nation, CHQ, The Marker, NPAS, Grand Canal Hotel, The Gibson Hotel

Developers & Property

Iput, Hiberia Reit, Arup, Sisk, CBRE, WiredScore

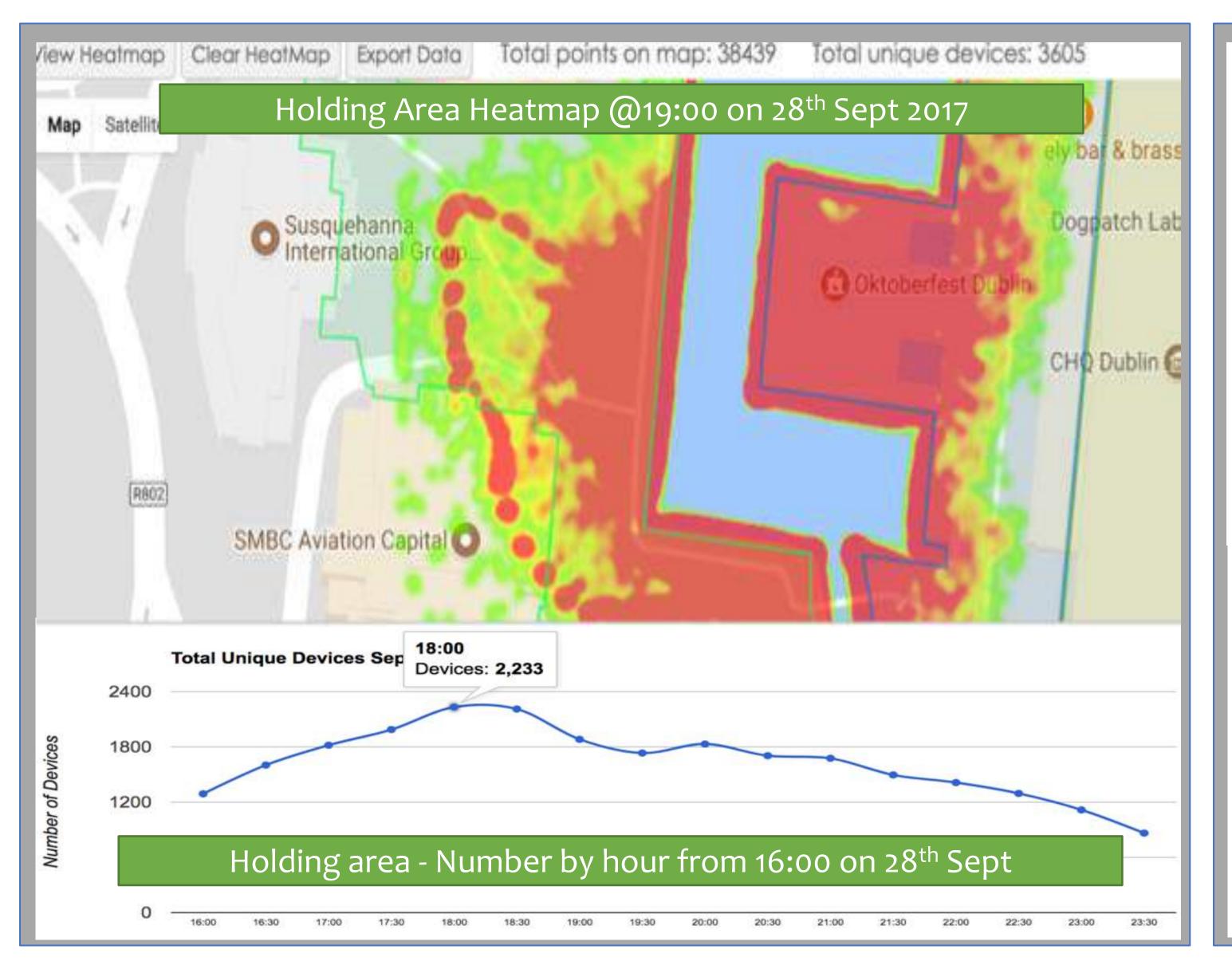
4 Residents

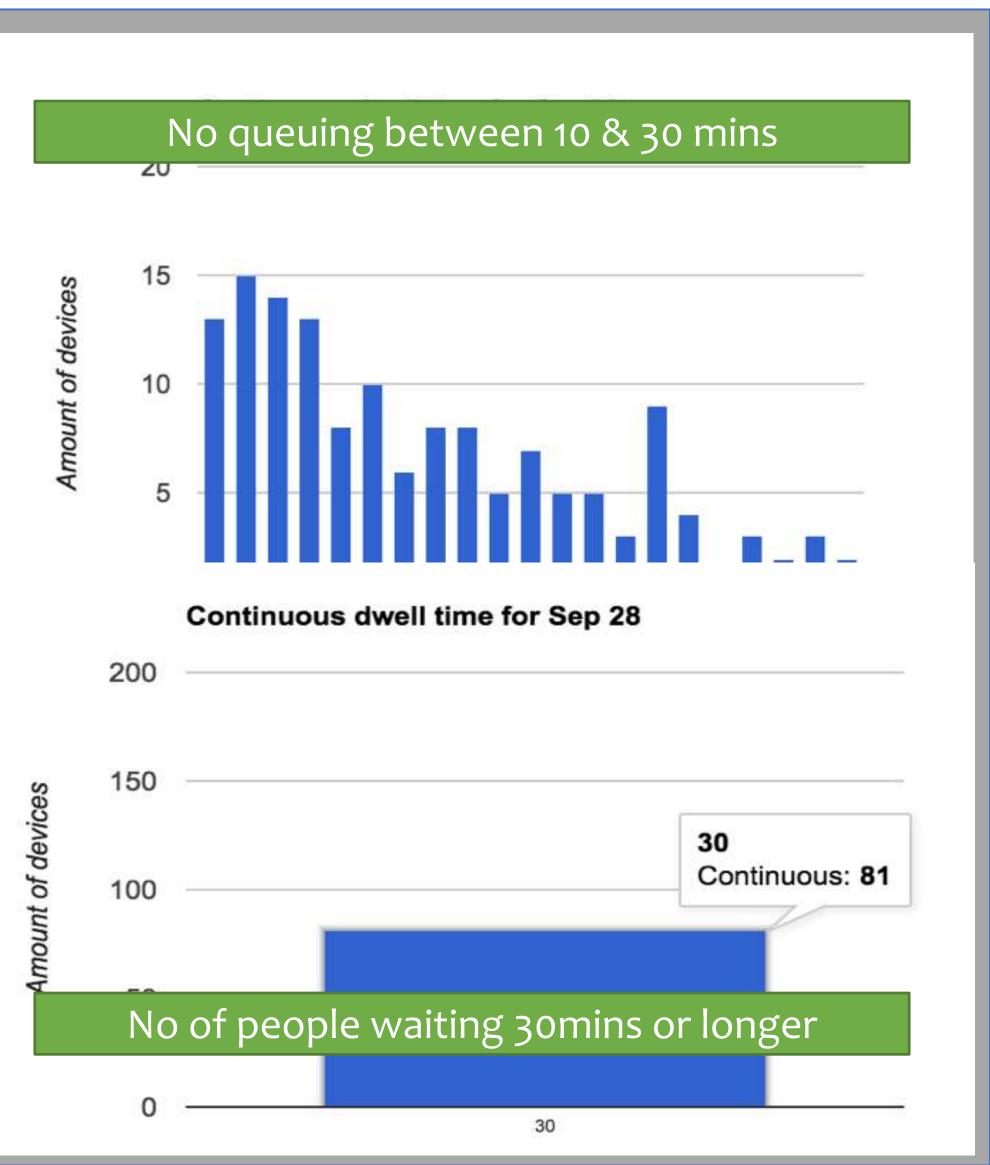
St. Andrews, Irishtown & Ringsend, North Wall, East Wall, Grand Canal Dock



Analysis of queue times 28th September 2017









"The most connected building in the world"

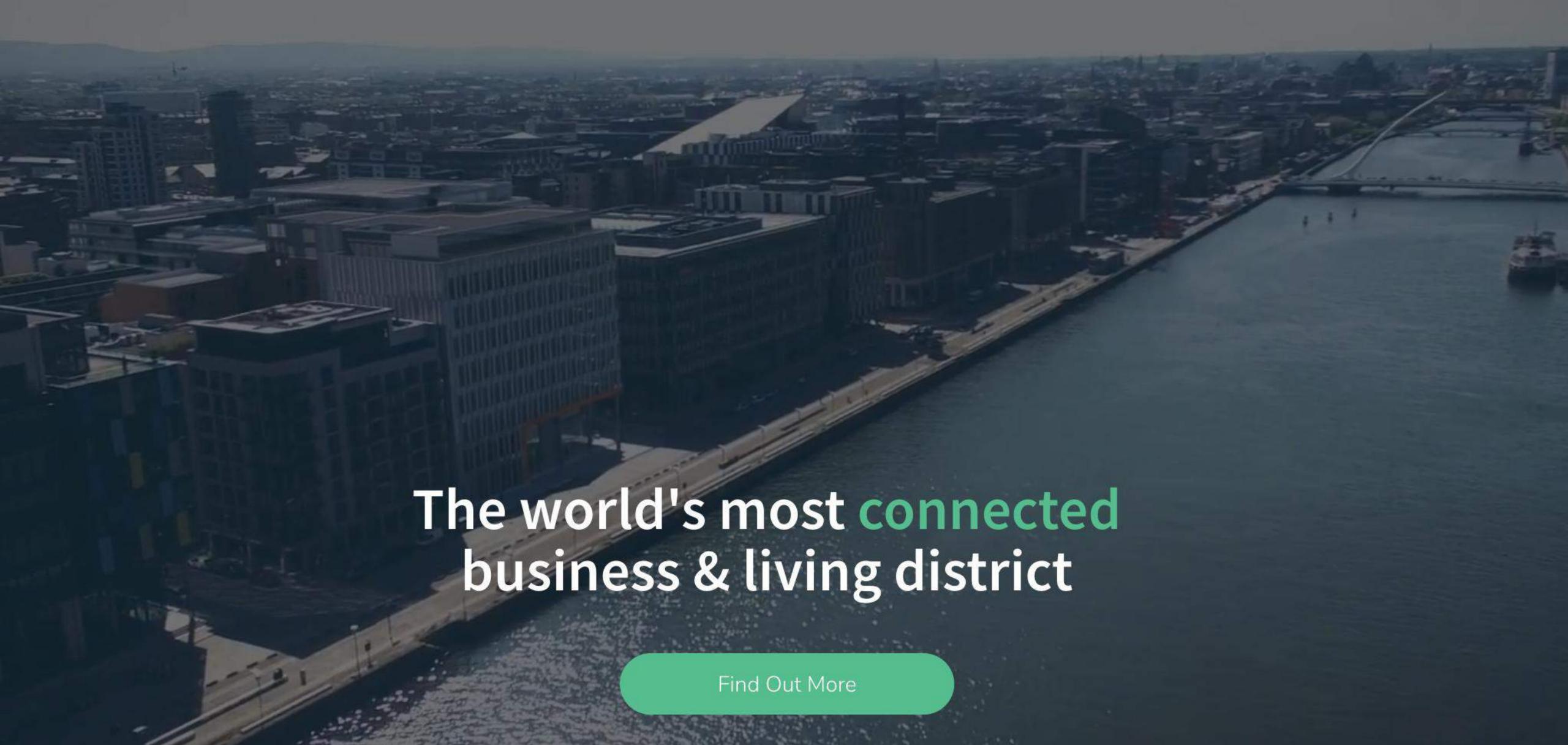




https://vimeo.com/255370118

SMART





BEST PRACTICE MODEL

Technology and Entrepreneurship

Center at Harvard

Presented to

Dublin City Council and Partners



In recognition for excellence and innovation in delivering Smart Docklands District
February 14th, 2018

Paul B. Bottino
Executive Director

Dr. David S. Ricketts
Innovation Fellow



REALISING THE SMART CITY OPPORTUNITY

CITIES ARE STEPPING UP

Most are at the start of this JOURNEY.

COLLABORATION MODEL AND LEADERSHIP IS KEY TO SUCCESS

RAISE AWARENESS OF THE OPPORTUNITY AND BARRIERS / RISKS

CITIES need better PROCUREMENT models

What's the BUSINESS model
Understanding the risks and OPPORTUNITIES
Less about TECH more about PEOPLE and CULTURE and CHANGE



THANK YOU

Jamie Cudden

