

www.smartsandyford.ie

@SmartSandyford

1 Year Anniversary!

2020 Review



SMART
SANDYFORD

A Smart Dublin District

Thursday 21st @ 11am



2020 Review



- An Cathaoirleach - Welcome
- Smart Sandyford Overview
- Covid-19
- Research Driven
- Core Projects
- Ambitions for 2021?



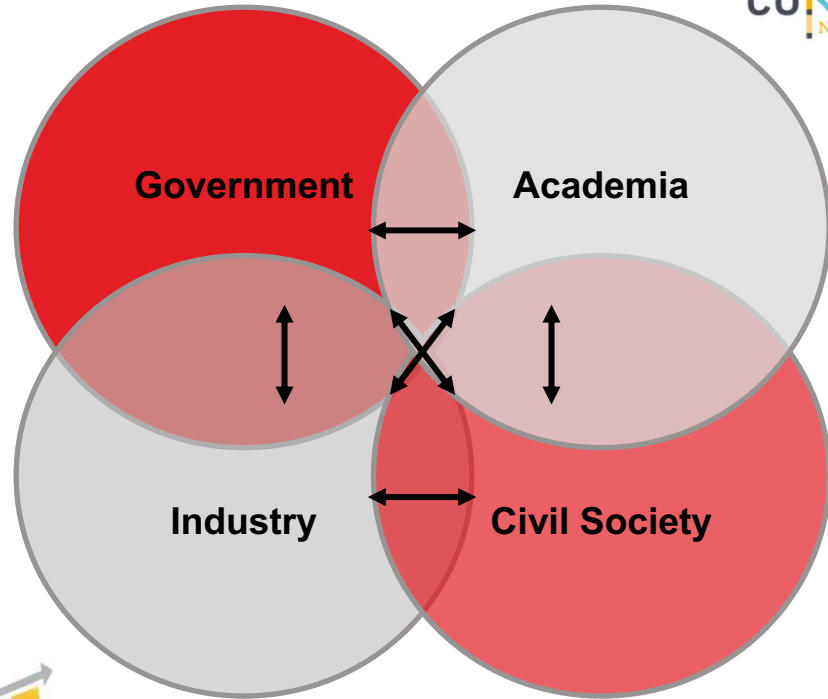
An Cathaoirleach Councillor Una Power

Highlights for 2020



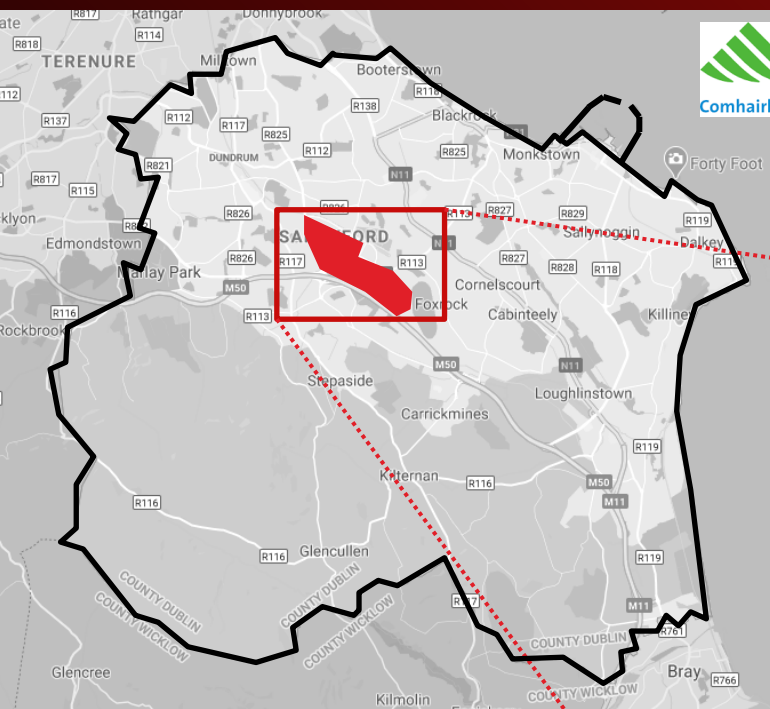
- ✓ Launch in Microsoft HQ
- ✓ €220,000+ EU Research Funding
- ✓ Research Collaboration Papers
- ✓ Sensor Deployment
- ✓ Expanding Team
- ✓ New Districts

Engagement



Quadruple Helix Engagement





Dún Laoghaire Rathdown Innovation Testbed



Dún Laoghaire Rathdown Innovation

- Digital Strategy
- Research Based Approach
- SBIR
- IoT Energy Trial
- Sensor Testing



Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin



THE CONVEX LENS



MSEMICON



Covid-19 Response

001

E-Bikes for frontline staff

DLR Mobility Hub

Bleeper
My Private Scheme

MOBY™



010

Covid-19 Response

Collaborative Research



Trinity College Dublin

Coláiste na Tríonóide, Baile Átha Cliath

The University of Dublin

A comparative analysis of Covid-19 responses in Ireland

10 Countries

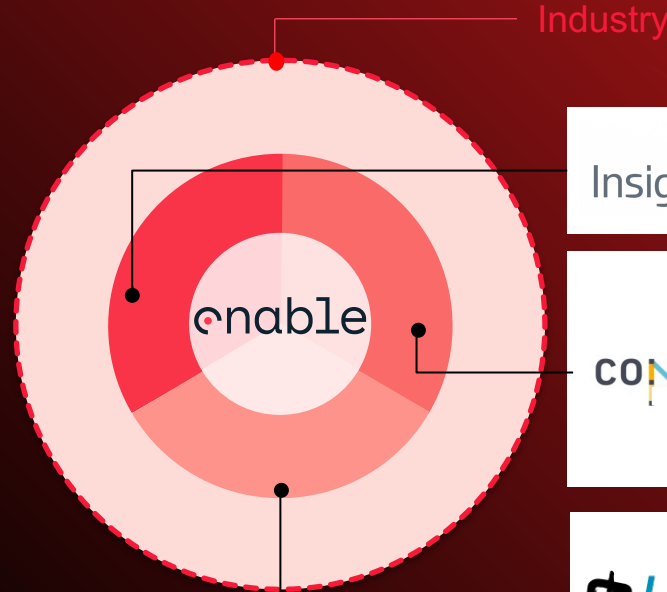
Workshops

Interviews

Dublin Case Study

Enable Research

Professor Siobhán Clarke, Principal Investigator



Enable Research

This year Smart Sandyford has developed research projects focused on mobility, engagement, sustainability and resilience.



Engagement Research

Prof Anna Davies

Dr Hannah Devine Wright

Mobility Research

Prof Brian Caulfield



Mobility Research

Enable Project Approach

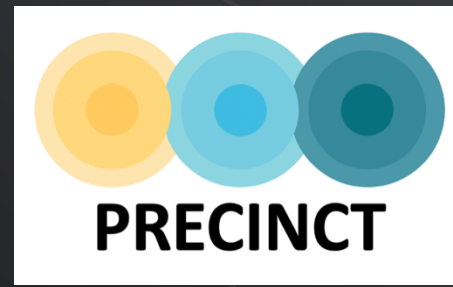


Research Fellow (Postdoctoral Researcher)
in Sustainable Transport



Research Led Innovation

PRECINCT

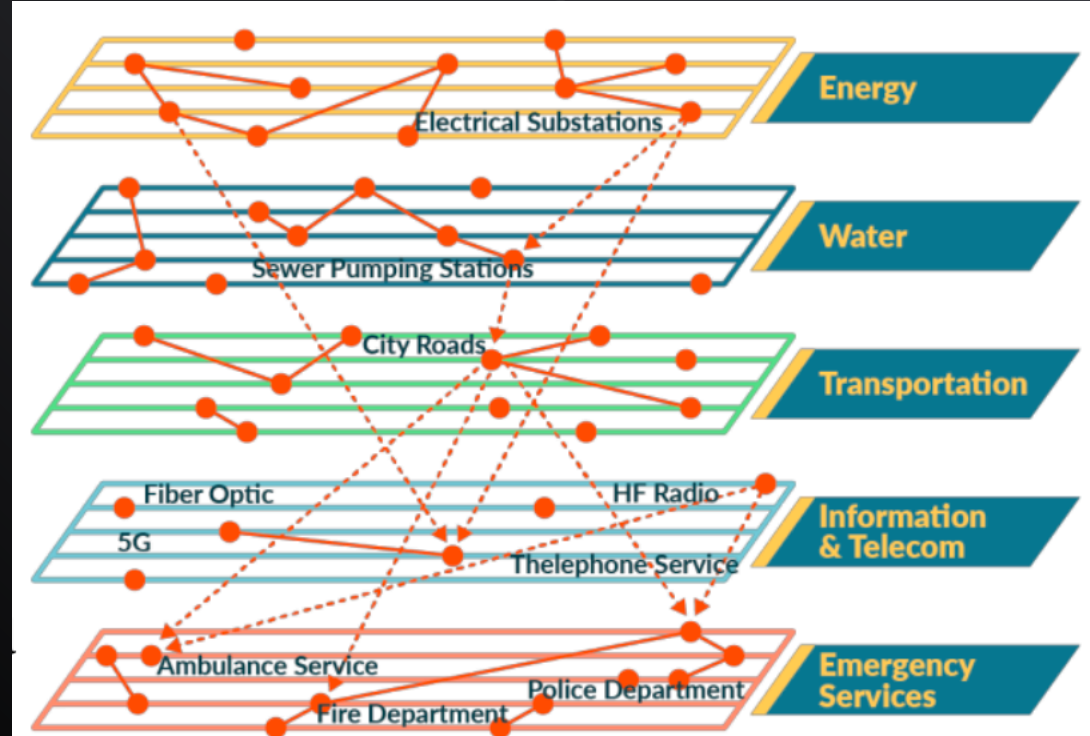


001

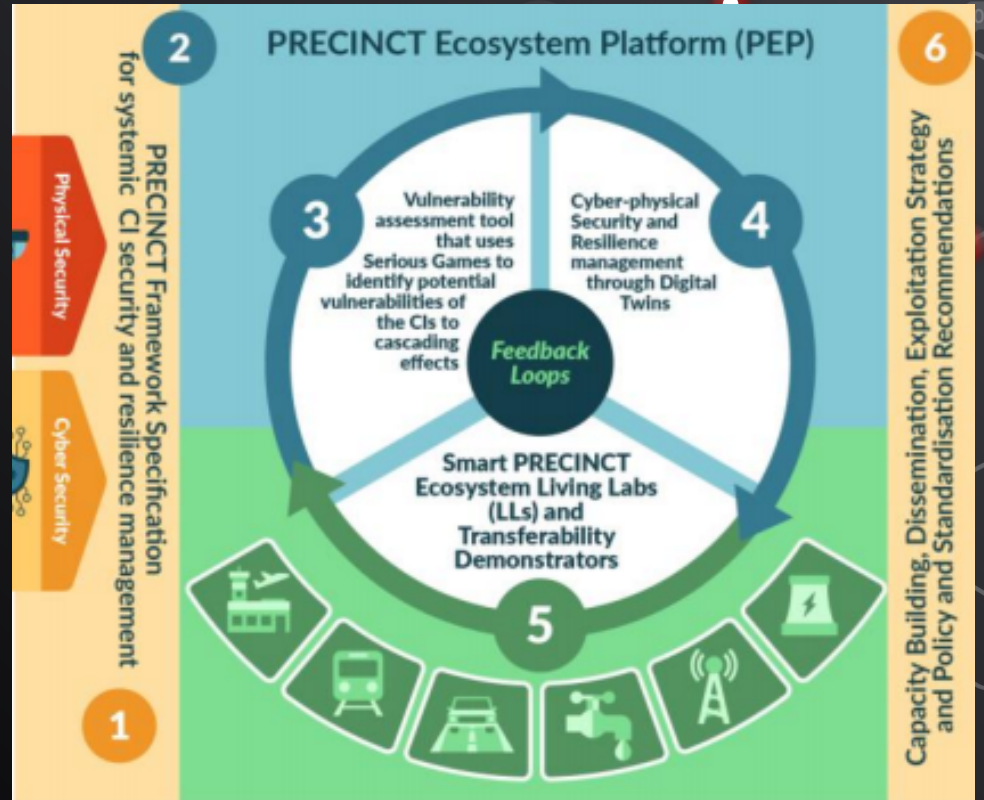
The project will evaluate and improve multiple critical infrastructure types

Living Labs provide both an experimentation environment and innovation testbed for PRECINCT

Working with UCD and our EU partners we will validate the findings and show their transferability across the three validation demonstrators



Research Led Innovation PRECINCT



Research Led Innovation

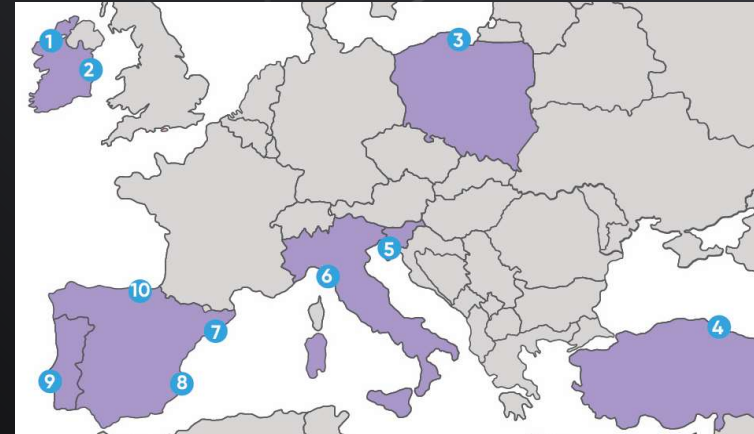
SCORE

'Smart Control of the Climate Resilience in European Coastal Cities'

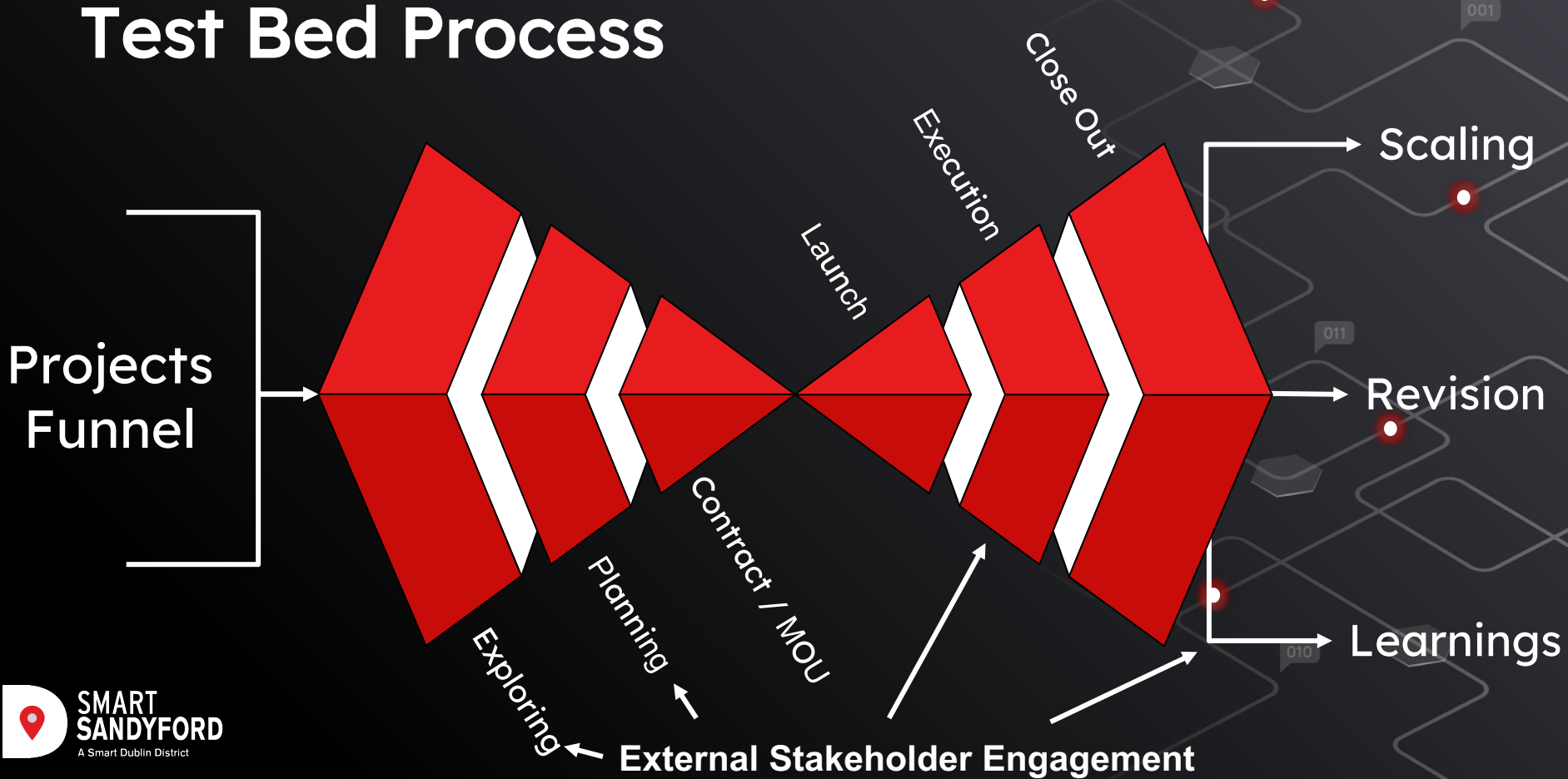
The research project offers new frameworks and approaches to managing the County and improving the resilience of the living lab

The ecosystem-based approach, adopted in SCORE will ensure sustainable management, conservation, and restoration of ecosystems that can generate social, economic and social benefits

The project will provide the Council access to cutting edge technologies, including digital twin and flood sensor technologies



Test Bed Process



Connectivity

Facilitating business through the Sandyford connectivity test bed

Promoting companies to trial IoT products at a city scale

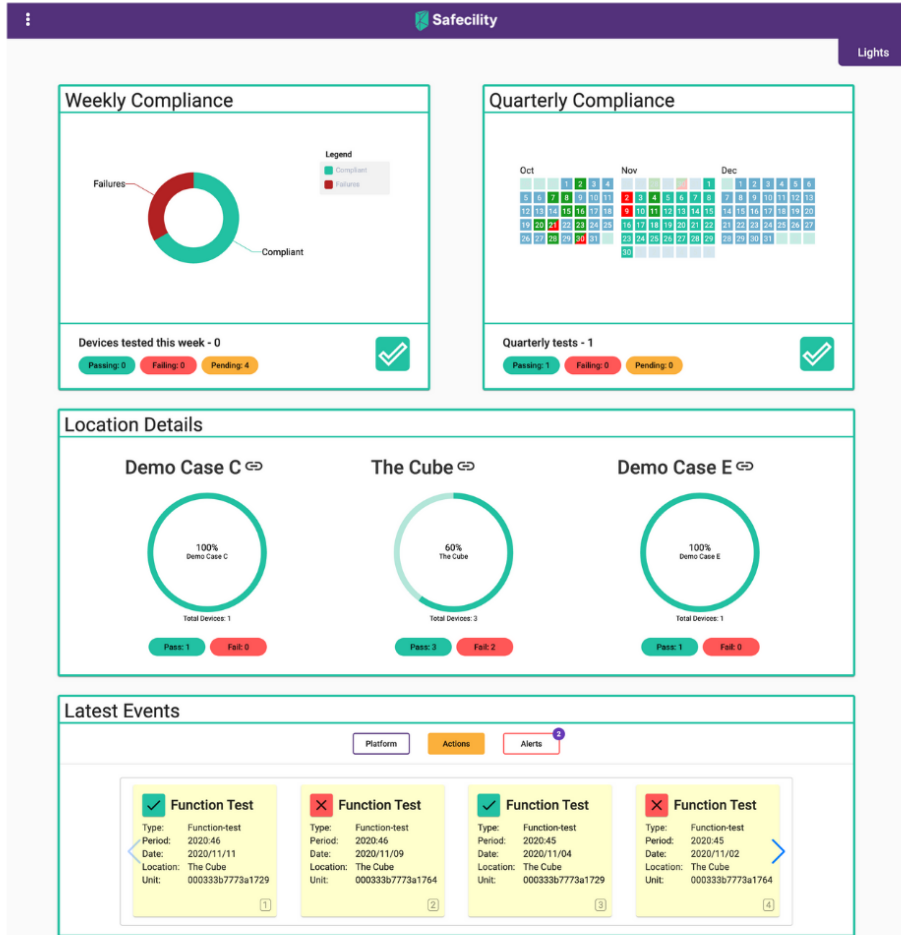


Traffic Monitoring

Air Quality

Man-Hole Access

IoT Network



cellnex



SMART SANDYFORD
A Smart Dublin District

SMART SANDYFORD
A Smart Dublin District

INTERNET OF THINGS

SEEKING **SMART**, LOW COST SOLUTIONS...



001

CHALLENGE:

TO FACILITATE CONNECTIONS

OVER AN IOT RADIOFREQUENCY MESH NETWORK



ALLOW CONNECTIVITY AND
COMMUNICATIONS OVER
NETWORK INFRASTRUCTURE

ALLOW
DISPARATE
DEVICES TO
COMMUNICATE

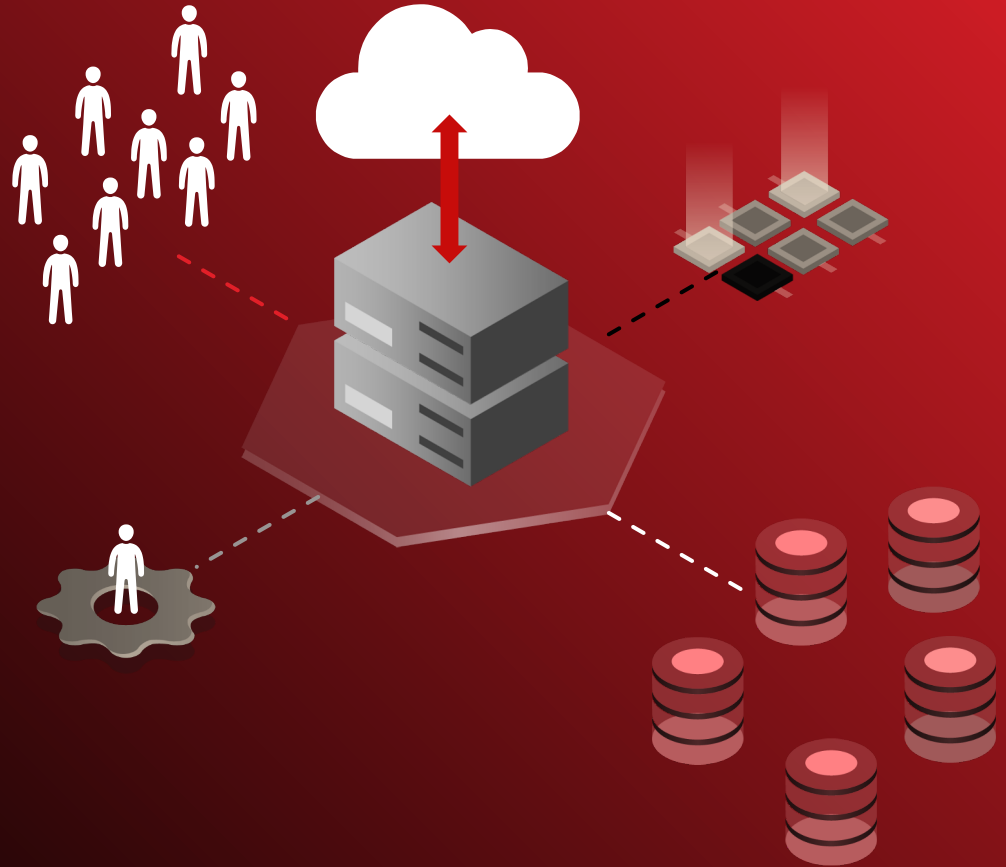


APPLY HERE: WWW.SMARTDUBLIN.IE

€70,000 **IN FUNDING
AVAILABLE**



Citizen Centric Approach



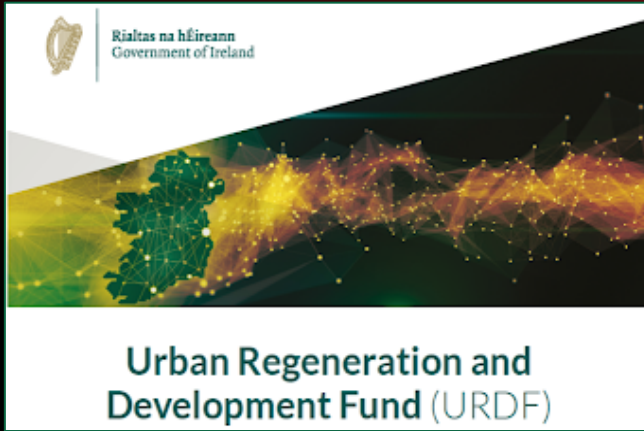
Local Data

Delivering data-based informed decision making to help local communities



Placemaking

Supporting the development of safe, connected transport infrastructure through local engagement and outreach



Smart City Series

Muma Business School Case Study

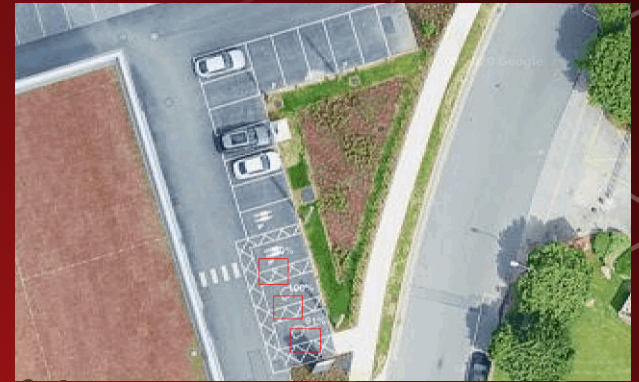
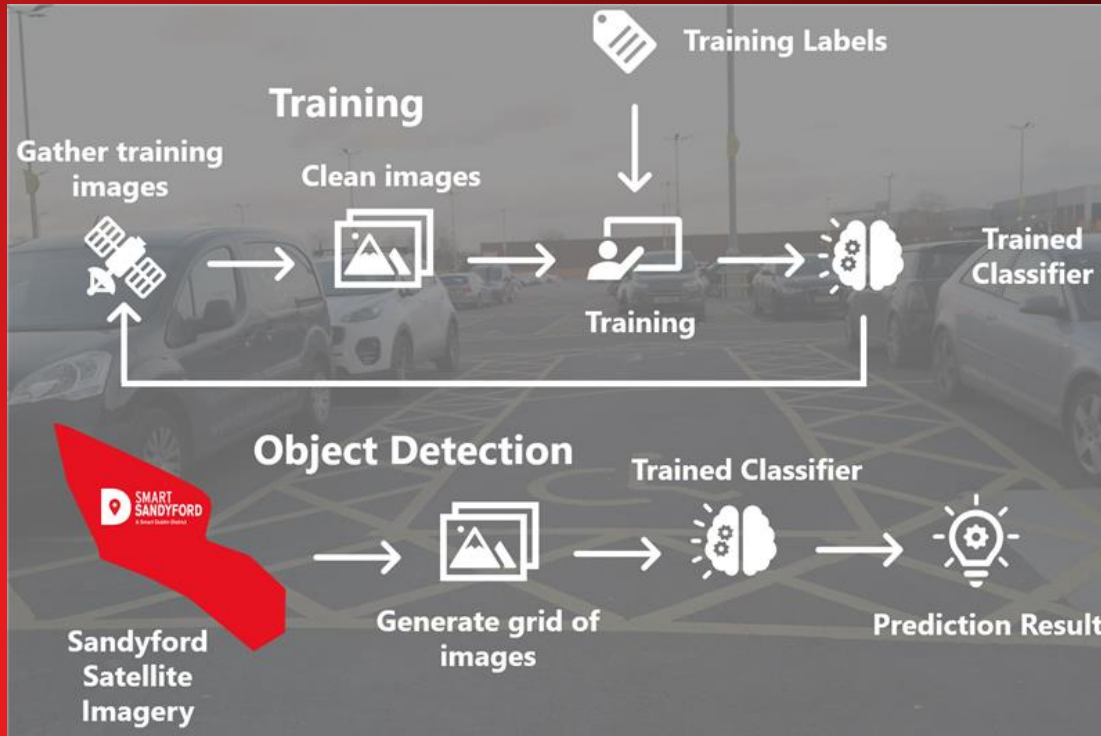


Accessibility a priority


Working together with local companies



Accessibility a priority





Public Engagement Innovation Week



Innovation Week
Working together for a better future


Tuesday Morning Session
'Smart Sandyford'

Jamie Cudden	00:01:40
Sarah Cunningham	00:27:24
Conor Mark Dowling	00:57:15
Panel discussion	01:17:55




SMART DUBLIN

**Smart Districts:
Fast-Tracking Innovation Webinar**
Thursday October 22nd
11.00 - 12.00



Conor Dowling PhD
Smart Sandyford Programme Manger
Smart Dublin



Olivia Labonté
Executive Producer
Govlaunch Podcast

Smart Districts Innovation Webinar:

<https://smardublin.ie/register-now-smart-districts-fast-tracking-innovation-webinar/>

Sandyford BID Innovation Week – Smart Sandyford Talk:

<https://www.sandyford.ie/news-events/event/innovation-week>

Public Engagement Webinar Series

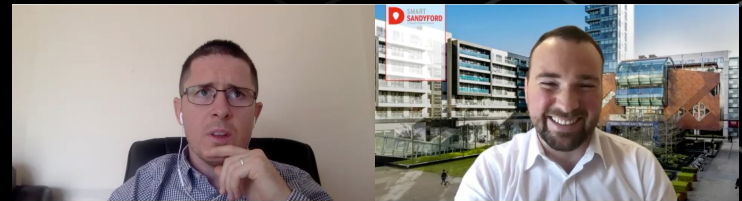
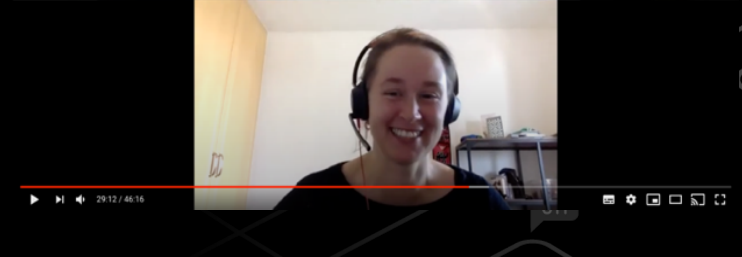
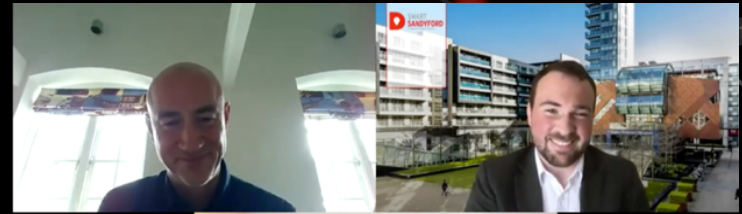
May: Council Response to Covid-19

June: What are Smart Cities?

July: Accessible Mobility

August: What does IoT mean for business?

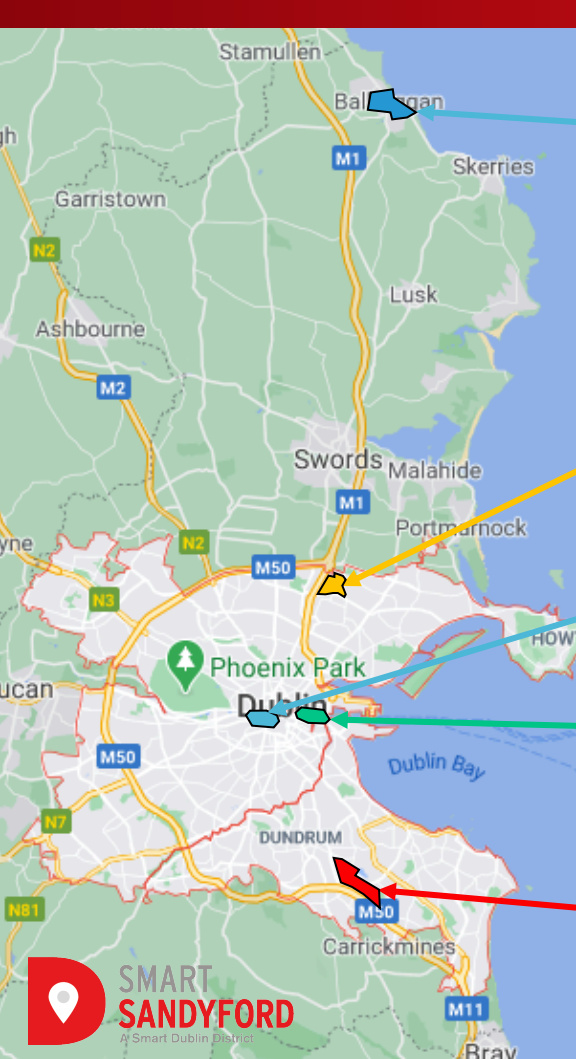
September: Sustainable Transport



Smart Services

Street Dock





SMART BALBRIGGAN

A Smart Dublin District



SMART DCU

A Smart Dublin District



SMART D8

A Smart Dublin District



SMART DOCKLANDS

A Smart Dublin District



SMART SANDYFORD

A Smart Dublin District



Districts



IoT sensors on the Smart Hydrogen Bus



Data Analytics



ambisense

Environmental IoT sensors over LoRa



WiFi Hotspot



CaetanoBus

Vehicle telemetry

Environmental IoT sensors over Vodafone NB-IoT



HAL
Self learning IoT sensors

Nota: imprimir gráfico total e fazer posteriormente o recorte para o indicador de destinos

3900 mm
3300 mm (área útil)



Location reporting via sigfox

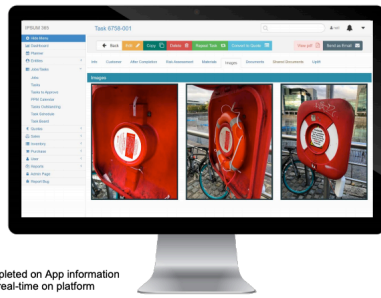
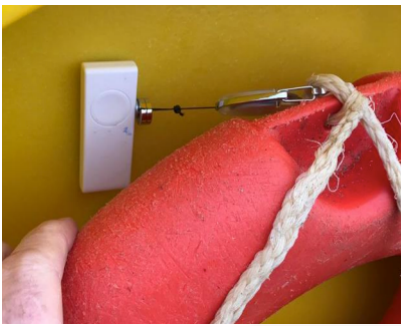


ACADEMY OF THE NEAR FUTURE

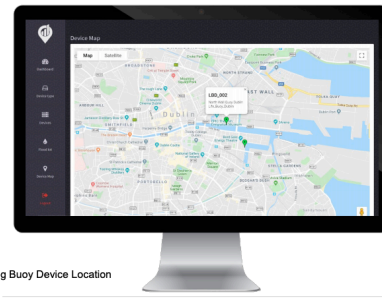
[Watch the video here](#)

A smart city tech programme for
upskillers and students

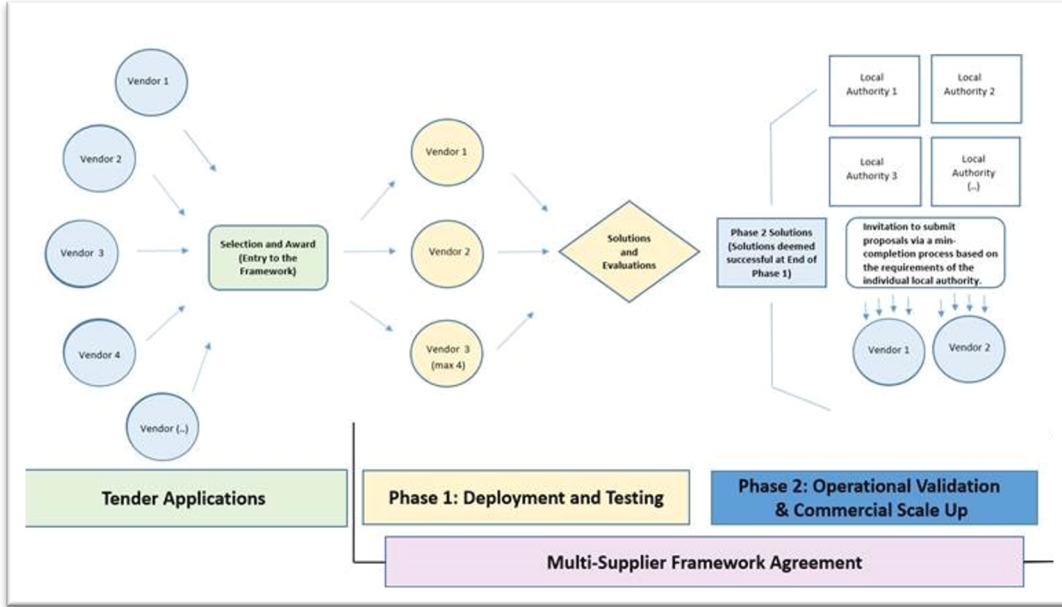




Job Completed on App information updated real-time on platform



Ring Buoy Device Location



Smart D8 – Health & Wellbeing District



Smart D8 is a new **Smart Health & Wellbeing District** located in **Dublin 8**.

Our purpose is to investigate and implement new & innovative approaches that will **improve** the health and wellbeing of citizens.

Launching March 10th 2021

Interested in being involved? orla@smartd8.ie



Get Involved!



SANDYFORD
BUSINESS DISTRICT



Get in touch:
conor.dowling@smartsandyford.ie

Thank you

To everyone in our network,
here's to another great year!

Get in touch: conor.dowling@smartsandyford.ie



SMART
SANDYFORD

A Smart Dublin District

Conor Dowling PhD
Programme Manager

