



Smart Dublin

OPEN, CONNECTED & ENGAGED

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





# CITY TRENDS

“The 19th century was a century of empires, the 20th century was a century of nation states. The 21st century will be a century of cities.” Wellington E. Webb, Former Mayor of Denver

66% of the  
world's  
population in  
cities by  
2050



80% of global  
GDP generated in  
cities



City Challenges:  
ageing populations,  
legacy  
infrastructure,  
climate  
change,  
housing



Tech  
adoption  
rises  
exponentially –  
challenges BUT  
critical  
opportunities





# ▶ WHAT IS A SMART CITY?

Real Time - Connected - Data Driven



# SMART DUBLIN

IT IS AN INITIATIVE OF THE FOUR DUBLIN LOCAL AUTHORITIES TO ENGAGE WITH SMART TECHNOLOGY PROVIDERS, RESEARCHERS AND CITIZENS TO SOLVE CHALLENGES AND IMPROVE CITY REGION LIFE.

## LOCAL GOVERNMENT IRELAND

- 31 LOCAL AUTHORITIES (LA'S) IN IRELAND WITH ELECTED LOCAL COUNCILS.
- SMART DUBLIN REPRESENTS 4 AUTONOMOUS DUBLIN LA'S.
- NO DIRECTLY ELECTED DUBLIN MAYOR.
- LA REMIT: PLANNING, HOUSING, LOCAL ROADS, ENVIRONEMNT AND WASTE MANAGEMENT, LIBRARIES, COMMUNITY DEVELOPMENT.
- NO AUTHORITY: HEALTH, EDUCATION, TAXATION (EXCEPT RATES).



Comhairle Cathrach  
Bhaile Átha Cliath  
Dublin City Council



Comhairle Contae  
Fhine Gall  
Fingal County  
Council



Comhairle Contae  
Átha Cliath Theas  
South Dublin County Council

# SMART DUBLIN ECOSYSTEM

- Forward thinking local authorities & city officials
- Global technology companies
- World-class research institutes
- Vibrant start-up community
- Engaged citizens



## Research Centres:



## Higher Education:



## State Agencies:







# OUR PROGRAMME

OUR VISION IS FOR DUBLIN TO BE A WORLD LEADING OPEN, CONNECTED AND ENGAGED SMART CITY REGION TO LIVE IN, WORK IN AND VISIT





# SMALL BUSINESS INNOVATION RESEARCH (SBIRs)



## EXECUTING OPEN INNOVATION



### SMART MOBILITY

- ✓ CYCLING
- ✓ WAY FINDING
- ✓ MOBILITY HUB
- ✓ LAST MILE DELIVERY

### SMART ENVIRONMENT



- ✓ ILLEGAL DUMPING
- ✓ GULLY MONITORING
- ✓ BATHING WATER
- ✓ IOT

### SMART PEOPLE

- ✓ UNHEARD VOICES



### SMART LIVING

- ✓ FIRE SAFETY & UNIVERSAL ACCESS IN HISTORIC BUILDINGS
- ✓ AMAZING SPACES, SMART SPACES



## 42 INNOVATION CONTRACTS AWARDED



## €1.5M+ INNOVATION FUNDING

## 11 CHALLENGES

IN PARTNERSHIP WITH:





# ILLEGAL DUMPING

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



**CHALLENGE:**  
REDUCE URBAN  
& RURAL ILLEGAL  
DUMPING  
IN THE DUBLIN  
REGION



**SOLUTIONS SOUGHT:**  
PREDICT,  
TRACK  
& DETER



**USING DATA TO:**  
TIDY OUR STREETS  
CLEAN OUR COUNTRYSIDE



**COSTING DUBLIN OVER €1.5M EVERY YEAR**

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

**€200,000** IN FUNDING  
AVAILABLE



# GULLY MONITORING

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



**CHALLENGE:**  
REDUCING  
FLOOD  
RISK



**SOLUTIONS SOUGHT:**  
DETECT OVERFLOWING  
GULLIES IN HIGH RISK  
FLOOD AREAS



**WITH REAL TIME ALERTS  
& PREDICTIVE ANALYTICS**



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**€200,000** IN FUNDING  
AVAILABLE



# INTERNET OF THINGS

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



**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](http://WWW.SMARTDUBLIN.IE)**

**€70,000** IN FUNDING  
AVAILABLE



# UNHEARD VOICES

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



**CHALLENGE:**  
ENCOURAGE  
ENGAGEMENT  
OF ALL COMMUNITIES  
IN DECISION  
MAKING



**GET VIEWS OF  
UNDERREPRESENTED  
GROUPS**



**TACKLE  
INEQUALITY**



**INCLUSIVE SOLUTION**

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

**€100,000** IN FUNDING  
AVAILABLE





# SMART CITIES AND DIGITAL RIGHTS

## Challenges

- Distrust of tech
- Concern over data usage
- Digital Divide
- Discrimination and exclusion
- Gentrification

# ► DIGITAL RIGHTS 3-PRONGED APPROACH: COMPLIANCE, ETHICS, CITIZEN ENGAGEMENT







Check out **SmartDublin.ie**

## **SMART DUBLIN**

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