



"Smart City for the Citizen"

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Chief Executive  
Cork City Council




### Vision:

- The Cork Smart Gateway aims to enhance the reputation of Cork as an attractive region for people to live, work, visit and invest

### Collaborators:



Cork City Council



### Objectives:

- Engaging with citizens to identify the evolving challenges and opportunities that impact on their quality of life
- Identifying suitable and achievable smart projects through a collaborative multi stakeholder approach
- Encouraging an open and innovative ecosystem that supports start ups and SMEs through the facilitation of test beds to pilot new technologies
- Promoting Cork as a smart destination internationally





## Strategic Focus Areas



Citizen Engagement

Assisted Living

Mobility



Open Data

Energy & Resource

Efficiency

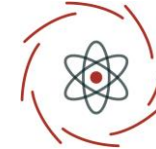


E – Governance

Food & Agriculture

Economic Development

Communication



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## Key Collaborations

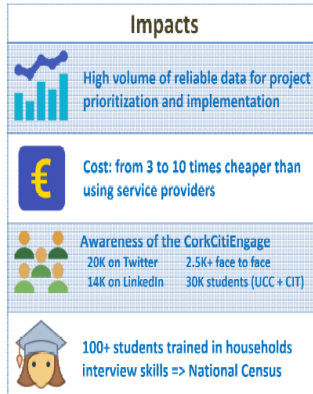
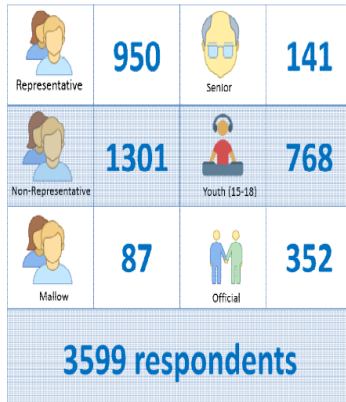


it@cork



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## Focus on Citizen Engagement



51% Male  
 76% living in Cork for over 10 years  
 63% living in City Centre and Suburbs  
 37% living in Commuter Towns and Rural Areas



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## Focus on Citizen Engagement



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Welcome to  
 Choice Based Letting



Log In



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# Open Data



**Coming Soon: Cork's Data Dashboard**



## Data Streams:

- Real time car parking availability in the 7 car parks around the city
- Planning Applications
- River Lee Water Levels at Anglers Rest and Lee Road
- Coca Cola Bikes API



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# IOT Solutions helping to better understand our city and citizen's needs

- Sensors on the River Lee
- SCOOT Traffic Management System
- Smart Street Lights



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## Growsmarter Project

- **3 Lead (lighthouse) cities – large scale demonstrator sites**
  - > Stockholm (coordinator)
  - > Cologne
  - > Barcelona
- **5 follower cities – replication sites**
  - > Cork
  - > Porto (Portugal)
  - > Graz (Austria)
  - > Suceava (Romania)
  - > Valetta (Malta)
- City Interest Group (20 members)
- General Assembly Meeting in Cork May 2017
- Replication Plan developed for Cork



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## Growsmarter Project

### 12 SMART SOLUTIONS

#### Low Energy Districts

- **Smart Building Shell Refurbishment**
- Smart Building Logistics
- Smart energy-saving tenants
- **Smart local electricity management**

#### Integrated Infrastructures

- **Smart Street Lighting**

- Waste Heat Recovery
- Smart Waste Collection
- Big Data Management

#### Sustainable Urban Mobility

- Sustainable Delivery
- Smart Traffic Management
- **Alternative Fuel Driven Vehicles**
- **Smart Mobility Solutions**



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## Replication Plan for Cork

### Smart Building Shell Refurbishment

#### Measures Replicated

- Climate Shell Refurb - Sarahville Place
- Energy Quality Assurance - Wolfe Tone St.
- Refurbishment Apt - Ard Bhaile/Glenamoy
- Refurbishment Tertiary – Leisureworld / Library



### Smart Street Lighting

#### Measures Replicated

- Smart LED street lighting
- Streetlights as wifi to grid connectors and electrical charges
- Smart Meter information analysis and actuators



Car park - Before



Car park - After



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## Replication Plan for Cork



### Smart Local Electricity Management

#### Measures Replicated

- > Smart Energy and Self Sufficient Block
- Ballyvolane Fire Station



### Alternative Fuel Driven Vehicles

#### Measures Replicated

- > Fast charging infrastructure for EVs
- > Standard speed charging infrastructure for EVs
- > Renewable fuels for heavy duty vehicles



### Smart Mobility Solutions

#### Measures Replicated

- > Mobility Hub



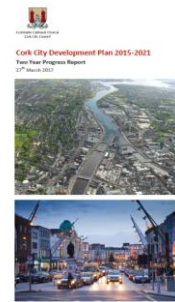
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## Lighthouse Ambition

- Build on the experience as a follower city
- Local Drivers and Opportunities
  - Movement of City Port
  - 220 ha of City Docklands to be Developed
  - Stakeholder Consultation
  - European Targets 2020
    - 33% Energy Efficiency
  - Ambitious City Centre Movement Strategy
  - Environmental Focus of Cork 2050 Strategy
    - Energy Positive Districts
  - Strong Collaborations and Support Across Quadruple Helix and an Enabling Ecosystem



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## Some Future Projects

- Air Quality Sensor Collaboration with Johnson Controls
- Smart Waste Compactors



- Develop a Smart Strategy for Cork



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