Urban Digital Transformation: “The Rise Of Smart City Regions”

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Limerick City & County Council
Fourth Industrial Revolution
Disruptive Innovation

Artificial Intelligence
IoT. Data.
Quantum Computing

New Services
Digital Fabrication
Market Disruption

Automation
Efficiency
Connected Worlds
New Challenges
Urbanisation, Nature of Work

Jobs Replacement
Inequalities
Digital Dependency

Population Growth
Ageing Population

Ageing Infrastructure
$1 Trillion Annual Investment Gap

120 million workers will need to be retrained due to AI, says IBM study
Digital

It’s all about the economy...?

$21 Trillion Global Digital Economy

Billions of connected “things” (IoT) by 2020, $1.9 trillion value

Agile. Fundamental Transformation
Irish Digital Economy

- €12.3bn Digital Economy (2016), 6% of GDP
- €850,000 / hour online spending
- 100,000 people employed

5th in EU - Digital Economy and Society Index (DESI)

Source: Indecon, (2016),
Smart Cities
Sustainable. Resilient.

Engaged
Citizen Participation
Co-creation

Informed
Data. Analytics. ICT
Integrated

Transformed
New Structures
Collaboration
SUSTAINABLE DEVELOPMENT GOALS

1. NO POVERTY
2. ZERO HUNGER
3. GOOD HEALTH AND WELL-BEING
4. QUALITY EDUCATION
5. GENDER EQUALITY
6. CLEAN WATER AND SANITATION
7. AFFORDABLE AND CLEAN ENERGY
8. DECENT WORK AND ECONOMIC GROWTH
9. INDUSTRY, INNOVATION AND INFRASTRUCTURE
10. REDUCED INEQUALITIES
11. SUSTAINABLE CITIES AND COMMUNITIES
12. RESPONSIBLE CONSUMPTION AND PRODUCTION
13. CLIMATE ACTION
14. LIFE BELOW WATER
15. LIFE ON Land
16. PEACE, JUSTICE AND STRONG INSTITUTIONS
17. PARTNERSHIPS FOR THE GOALS
Smart Cities & Tourism
Disruptive Digital Technologies

Mobile Participation Platforms
Analytics Sensors. Data. Integrated ICT.
Transformed New Business Models Collaboration & Experience
Technology can be invasive

Cyber-security Threats

- Fair information practice principles
- Privacy by design
- Security by design
- Education and training

Rob Kitchin, NIRSA, Maynooth University, 2016
Smart Cities Reality

Visionary Leadership

Local Innovation Systems

PP Partnerships

Smart Regulation

Global Standards

Source: World Economic Forum, Cities and the Fourth Industrial Revolution 2018
Limerick 2030
Economic & Spatial Plan

12,000 Jobs
5,000 in the City Centre

€1b Investment

500,000 sq.ft of enterprise space
Smarter Ways of Working
Limerick Digital Strategy
Smart Limerick Roadmap

10 Programmes
125 Projects
5 years
€15m Investment
# Urban Digital Transformation

<table>
<thead>
<tr>
<th>Business Model</th>
<th>Structure</th>
<th>People</th>
<th>Process</th>
<th>IT Capability</th>
<th>Offerings</th>
<th>Engagement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smart Limerick</td>
<td>Doing Things Right</td>
<td>Digital Inclusion</td>
<td>Project Management</td>
<td>EA, MDM, CRM, WEB, Mobile, ERDMS, IoT Broadband</td>
<td>Digital Customer Experience (online, social)</td>
<td>Multi-channel Customer Experience</td>
</tr>
<tr>
<td>Traditional Preoccupations</td>
<td>New Units</td>
<td>Public Service Embargo</td>
<td>Multiple Local Processes</td>
<td>Fragmented Systems &amp; Data</td>
<td>Disconnected Offerings</td>
<td>Multiple Counters</td>
</tr>
</tbody>
</table>

A community of practice focused on the advancement of cities and communities in both the Republic of Ireland and Northern Ireland.

www.smartcitiesireland.org
@smartcitiesireland
LIMERICK DIGITAL CITY REGION

Ireland’s Cities in NPF 2040

- Increasingly, city regions are the focal point for internationally mobile investment
- To enable the four cities of Cork, Limerick, Galway and Waterford to each grow by at least 50% to 2040 and to enhance their significant potential to become cities of scale
DIGITAL QUARTER

• foster open innovation to create new products and services in collaboration between partners and citizens,
• test and demonstrate how smart technologies can help solve urban challenges, transform public services and improve the quality of life for people
Council Organisational Change Programme 2013-2016

- Strategy & Operations
- Customer Services
- Staff Development
- Project Management

- Digital Transformation Programme
- New offerings

Putting People First
Structural Change Programme

- Economic
- Social
- Physical

- Customer Services
- Operations
- Finance & Technology
- Corporate Services & HR

Doing the right thing
Doing things right

Changing for Good
A strong voice for Limerick

17 integrated websites

1m visitors (2018)

Top 25 agency tourism websites in the World (Skift 2017)
MY LIMERICK ONLINE Services

My Limerick
Hello Laura - Logout

Dashboard | My Favourites | My Cases | My Represented Cases | Inspire Me | My Profile

My Scrapbooks | My Cases | Inspire Me

Love 53 Items Saved | 04 Cases Open | Check out what we have selected to inspire you...

My Represented Cases

Cases - Requests
Representations
Licences, Grants, etc.
Mobile Operations

Instant Response to My Limerick & Customer Services

Timely information to & from ground crews

Evidence of work carried out (Photos, GPS, QR Codes, etc.)
Digital Infrastructure

Municipal Data Network
IoT Deployment
Public WiFi
Air Quality
Noise Sensors
Pedestrian Counters
Parking Guides
VMS
Smart CCTV
Insight Limerick

Data as a Service

Real-time Data

Open Data

Enterprise Architecture

Research with LERO
Engagement & Participation
The Key to Smart Cities

Citizen Engagement Model
City Engage Week
Data Crowd-sourcing

MY POINT
Online Consultation

LIMERICK CITIZEN OBSERVATORY
Limerick
Lighthouse Smart City Reality

5 year, €20m Innovation Action Horizon 2020 EU Project;

Positive Energy City 2050

Increase occupancy and use of Historic City Centre Community

Source: World Economic Forum, Cities and the Fourth Industrial Revolution 2018
This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 824260.
Final Remarks

LIMERICK CITY REGION IS OPEN FOR BUSINESS

Collaboration is KEY: with partners, LA, etc.
Climate and UN Goals as Opportunity

Policy across domains: tourism, transport, planning, housing, etc.

Scale vs Urbanization
Lost Regional Opportunities are a loss for Ireland

Source: World Economic Forum, Cities and the Fourth Industrial Revolution 2018