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Horizon 2020 - Smart Cities and Communities

BUILDING A LOW-CARBON, CLIMATE RESILIENT FUTURE: SECURE, CLEAN AND EFFICIENT ENERGY

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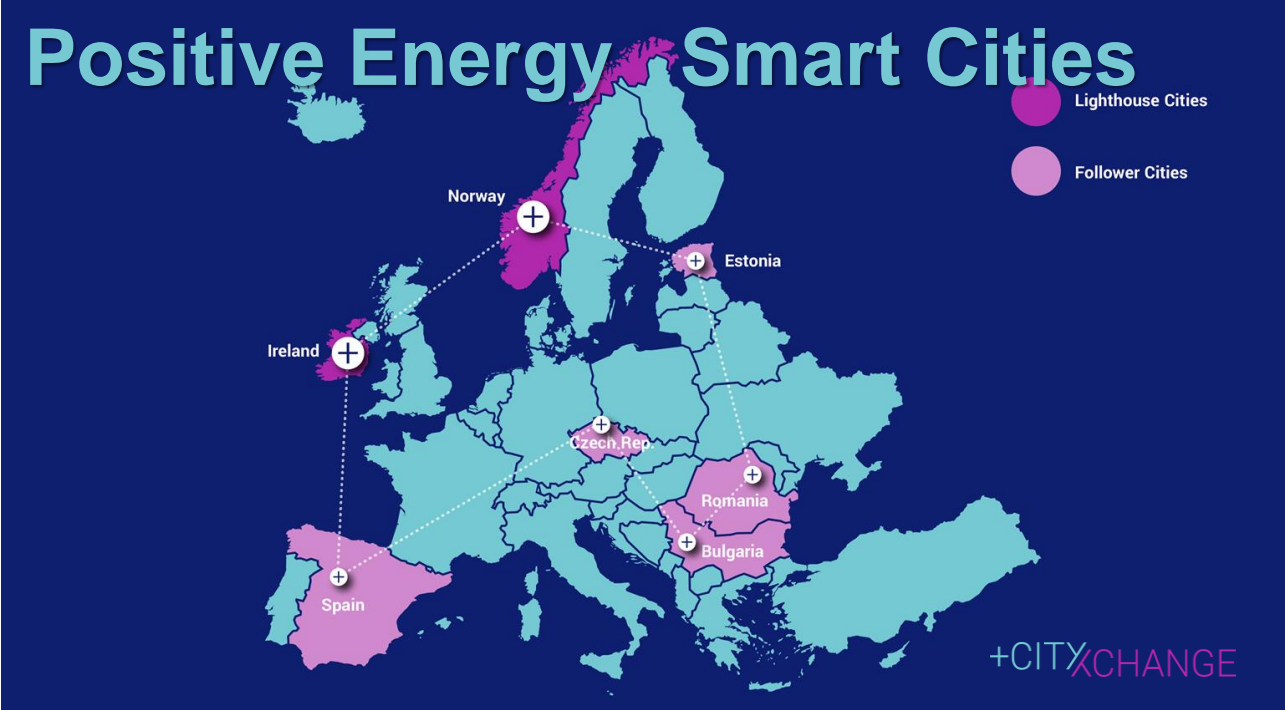
Citizen Open Innovation in +Limerick
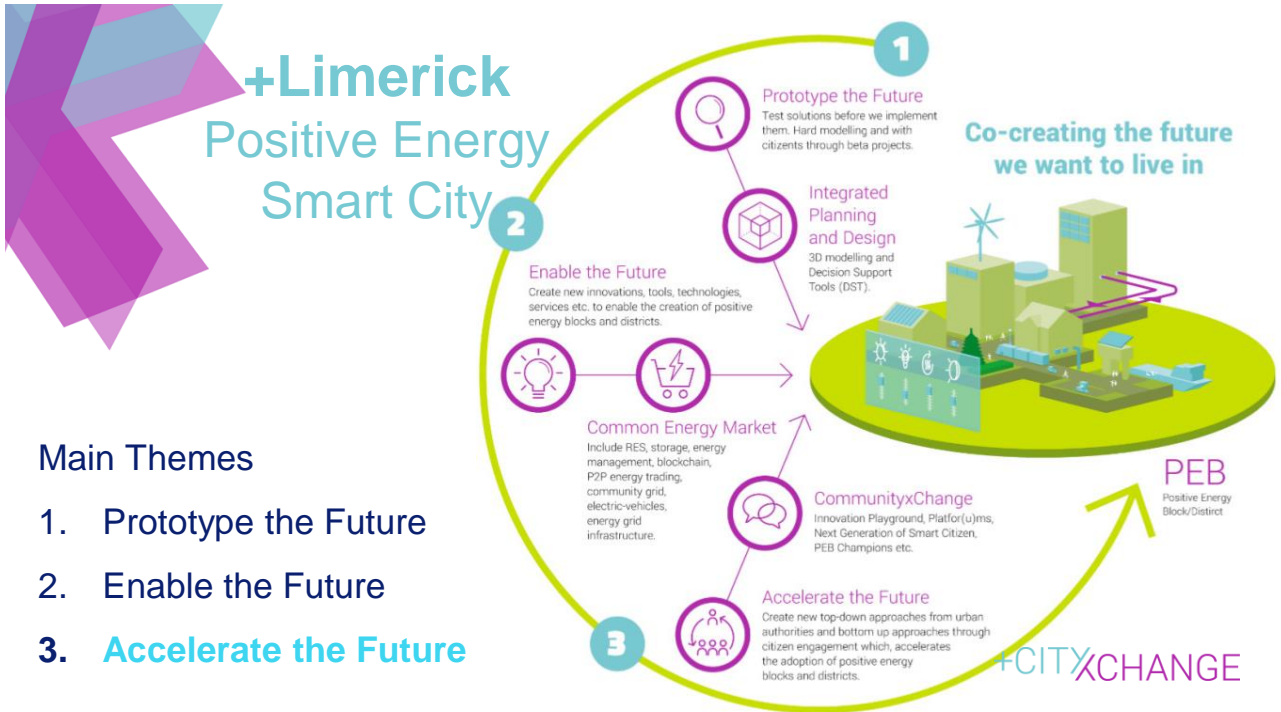
All Ireland Smart Cities Forum
22/10/2019

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Positive Energy Smart Cities

Lighthouse Cities

Follower Cities

Norway
Estonia
Ireland
Czech.Rep.
Romania
Bulgaria
Spain

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Positive Energy Smart City

Main Themes

1. Prototype the Future
2. Enable the Future
3. **Accelerate the Future**

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+Limerick - Positive Energy City

Block > District > City

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+Limerick Georgian Innovation District

- DA GEORGIAN INNOVATION DISTRICT
- DS02 Limerick Youth Services
- DS01 Gardens International
- DS05 Craft Hub
- DS04 General Post Office (GPO)
- DS03 Ulster Bank
- DS06 The Engine
- DS08 University of Limerick (UL)
- DS09 University Hospital Limerick (UHL)
- DS10 Limerick Institute of Technology (LIT)
- DS11 Narrative 4
- DS12 Belltable Arts Centre
- DS15 Limerick City Gallery of Art (LCGA)
- DS07 Colbert Railway Station
- DS14 Limerick Georgian House & Garden
- DS13 The Crescent

7 City Blocks, 15 sites

1. Block 1,2,3 – Demo, 15,000 sqm
2. Block 4,5,6,7 Replication
3. District

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+Limerick - Positive Energy City

VISION (DP02)
Co-create a Bold City Vision, to Plan, Implement, Replicate & Scale-up to Positive Energy Districts & Cities

ENGAGE (DP03)
Co-Create Positive Energy Blocks

MODEL (DP01)
Record data and provide integrated decision support to cities

REGULATORY ZONE (DP04)
Enable innovation through regulatory mechanisms

PLAYGROUND (DP05)
Accelerate change and disruptive solutions through innovation playgrounds

INVEST (DP11)
Enable consumers to invest in their buildings, which is critical to the creation of a PEB

DPEB (DP06)
Create Distributed PEBs through improved energy performance and integration with the energy system

MICROGRIDS (DP07)
Balance and optimise energy in the PEB through Microgrids

EMaaS (DP08)
Integrate seamless e-mobility within the PEB

LOCAL TRADING (DP09)
Enable Peer-to-Peer trading within the PEB

FLEXIBILITY MARKET (DP10)
Enable a fair deal to all consumers through a flexibility market

PROTOTYPE THE FUTURE **ENABLE THE FUTURE** **ACCELERATE THE FUTURE**

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11 Demo Projects

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+Limerick: 5 reasons

1. **Increase use of clean energy sources**
2. **Increase the climate/energy jobs – New Energy Market**
3. **Reduce vacancy and under-use of Historic City Centre**
4. **Increase uptake of e-Mobility solutions**
5. **New Smart Community Co-operation Models**

Demonstrate at European Level the Limerick Innovation Ecosystem

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Cross agency cooperative action
Centred on communities of place

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**Sherry Arnstein's
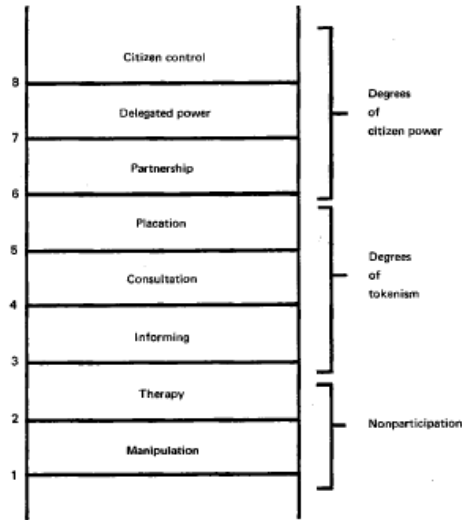Ladder of
Citizen Participation**

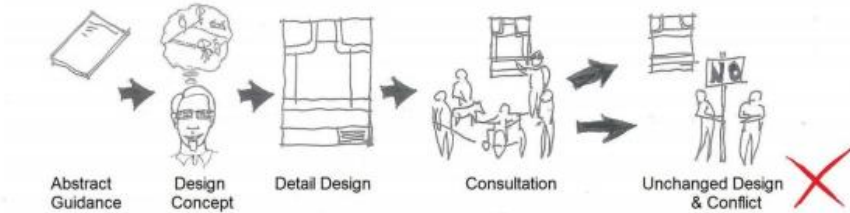FIGURE 2   Eight Rungs on a Ladder of Citizen Participation

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Current citizen engagement processes

A typical design process

From "Shared Streets. Shared Spaces and Homezones from a Universal Design Approach for the Urban
Environment " Trinityhaus

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The Universal Design process

Guidance & User Consultation

Universal Design Streets

Design Concept

Detail Design

Pilot Studies, Trials or Mock-ups

Figure 8.1: Comparison of current and Universal Design processes - adapted from (Atkin, 2010)

Participation Continuum- the alternative

From "Shared Streets. Shared Spaces and Homezones from a Universal Design Approach for the Urban Environment " Trinityhaus

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Co Design

Initiative

Planning

Local Authority

Education Institutions

Local Community Groups

NETWORK WEAVER

Communities of Interest

Placemaking

Professionals

Prototyping

Urban Innovators

Testing

European Network of Living Labs

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Citizen Observatory

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Citizen Observatory

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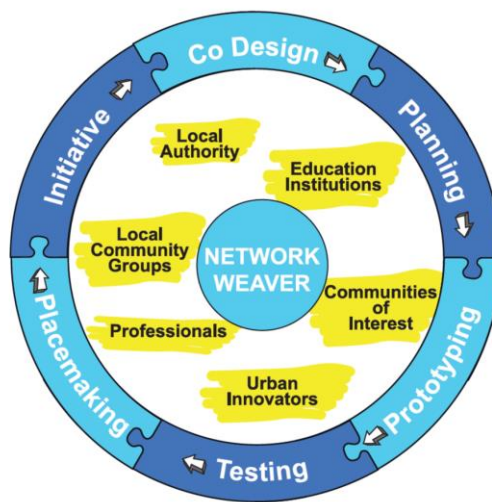
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City Engage Weeks

CITY ENGAGE EVENTS

TUESDAY 25TH APRIL
PechaKucha 20X20 Night @ CURRAGOWER PUB, CLANCYS STRAND
"Connections to Limerick's Riverways"
7 - 9pm PechaKucha 20X20 Night with lots of interesting local speakers

WEDNESDAY 26TH APRIL
City Riverway Listen & Learn Event @
SMALL EXHIBITION SPACE, CITY HALL, MERCHANTS QUAY
"Using the Riverways"

12.30 - 1.15pm	xxxxx
1.15 - 2.30pm	Dave Neville, NevSAIL Watersports

Community Mapping @
SMALL EXHIBITION SPACE, & OUTSIDE AREA OF CITY HALL, MERCHANTS QUAY
3.00 - 5.00pm   Community mapping event to collect & map local knowledge about the Riverways, hosted by FABLAB

THURSDAY 27TH APRIL
City Riverway Listen & Learn Event @
CAPTAIN'S ROOM, HUNT MUSEUM
"Riverway Policies"

6.00 - 6.45pm	Fiona Monaghan, Failte Ireland (TBC)
6.45 - 7.30pm	Eanna Rowe, Waterways Ireland

FRIDAY 28TH APRIL
City Riverway Intergenerational Design Workshop @
CHEZ LE FAB CAFE & OUTSIDE AREA, ARTHURS QUAY PARK
9.45 - 11.45am   Integenerational Design Workshop

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Mapping Limerick's Laneways

Co-Creation Board Game

Narrative Tours of Georgian Limerick

Citizen Sensing

SBIR Launch

Creative Play

City Engage Week Main Events

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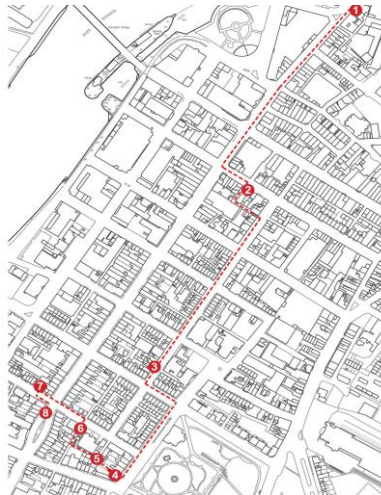

Community Mapping and Auditing Workshops

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Narrative Tours Georgian Limerick

Open House **Limerick**

LIMERICK CIVIC TRUST
CIVIC PRIDE IN ACTION

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SBIR Announcement

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Co Design Workshops

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Creative Play
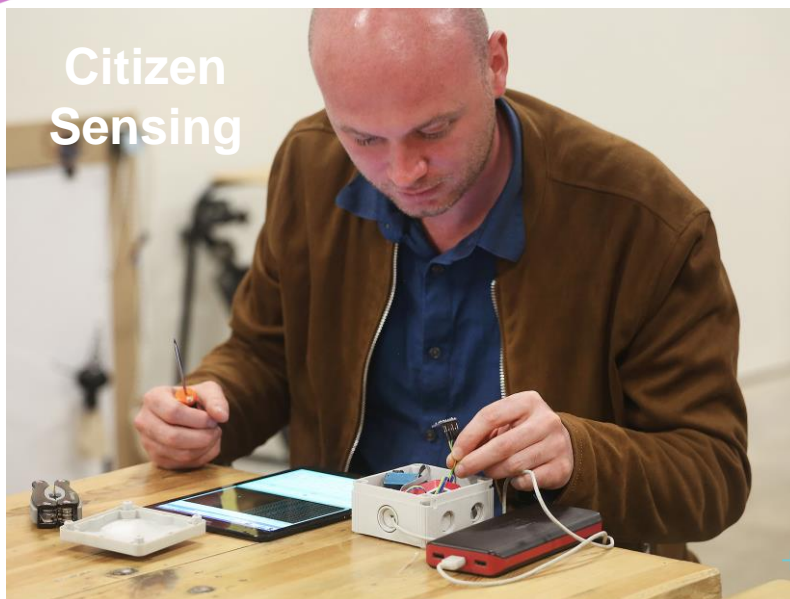Imagining Future Limerick

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Citizen Sensing

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**Culture Night Best Bits
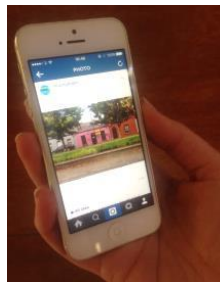Open Innovation Lab**

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Digital Platforms and Tools

Website   **Mobile App**   **Social Media**

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Open Source/ Open Data Modelling

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Open Calls/ Open Challenges

Safecility

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Open Calls/ Urban Prototypes

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Participant Feedback

Promote pride and enthusiasm for Limerick as a great, colourful and vibrant city!

Ownership of shared space

Solutions for georgian buildings that are realistic, affordable but also future proof

Collaborative positive green living

Widespread disuse and lack of maintenance

Responsibility for the streets

"Wirescapes" = Street clutter

More roof gardens!

New traffic management

Too many decaying buildings

Policy support

Comments and Suggestions from our Survey

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Why Open Government?

Transparency
Participation
Collaboration
Economic Development

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EU Lighthouse Smart City

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The project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No. 824260.

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Comhairle Cathrach
& Contae **Luimnigh**
Limerick City
& County Council

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LIMERICK CONTACT
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