



Long-Term Resilient and Sustainable Cities: A Scoping Paper

**A NESCC-Maynooth
University Webinar**

15th April 2021





An Chomhairle Náisiúnta Eacnamaíoch agus Shóisialta
National Economic & Social Council

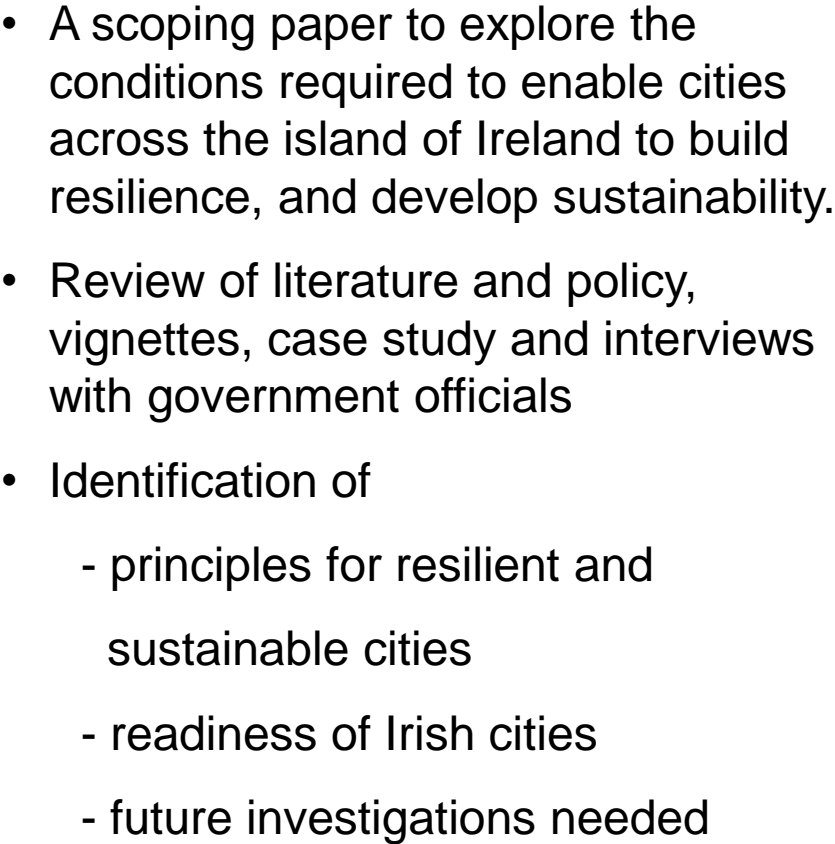


**Maynooth
University**
National University
of Ireland Maynooth



Authored by:

Ms. Caroline Creamer, MU/ICLRD
Dr. Niall Connolly, Innovation Value Institute, MU
Ms. Zaira Rivera Fernandez, Lero, MU



A Five-Part Presentation

- **Understanding ‘Resilience’**
- **Global Goals and Local Responses and Actions**
- **Resilience on the Island of Ireland – An Analysis**
- **Key Findings**
- **Further Investigations**

Understanding Resilience



Understanding Resilience

- A concept rooted in action – not just high level principles
- Not well defined - criticised for vagueness & malleability
- A ‘bridging concept’
- Speaks to ability of places to engage with hazards/stressors
- Engaging the quadruple helix



Fostering Resilience

Resilience is not a new concept...but it is evolving



1960s: Associated with systems change and achieving equilibrium



2000s: Shift to association with place and their 'bounce-back ability'




2010s: emphasis on 'bounce-forward' and Build Back Better

Defining ‘Resilience’

“Urban resilience refers to the ability of an urban system – and all its constituent socio-ecological and socio-technical networks across temporal and spatial scales – to maintain or rapidly return to desired functions in the face of a disturbance, to adapt to change, and to quickly transform systems that limit current or future adaptive capacity”

(Meerow et al, 2016)

Global Goals and Local Responses and Actions



Global Goals

FRAMEWORKS

- ICLEI Milestone Framework
- UN-Habitat City Resilience Profiling Tool
- Rockefeller & Arup
- World Bank
- U.S. EPA

PROGRAMMES

- UN SDGs
- Paris Agreement (COP 21)
- UN Sendai Framework for Disaster Risk Reduction
- UN's New Urban Agenda (Habitat III)
- European Green Deal

NETWORKS

- ICLEI Local Governments for Sustainability
- Resilient Cities Network (previously 100 RC)
- Global Covenant of Mayors
- C40 Cities
- 8 80 Cities

**PIONEERED BY THE
ROCKEFELLER FOUNDATION**

100

RESILIENT

CITIES



(@ Visit Belfast)



(@ The Guardian)



(@ Lonely Planet)

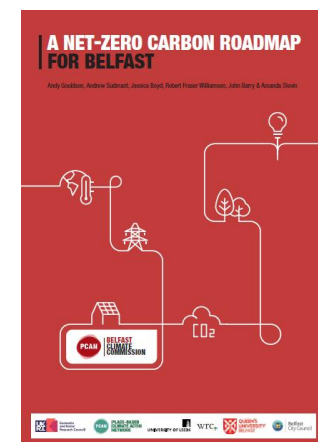
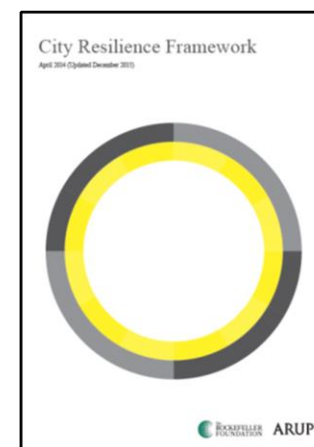
The Value of Collaboration

Collaboration key to delivering place-based impact

Importance of timing..

Engagement with higher education – research & longitudinal analysis

The evidence base – understanding the paradoxes





Placing an Emphasis on Implementation

A dedicated resource

Oversight Body:
Partnership Board

Number of sub-
boards established

Multi-agency -
getting key agencies
around the table with
role in building
resilience

Learnings from Local Responses

- Resilience is highly contextual
 - Need to be multi-faceted, with large stakeholder groupings
 - Solutions must take into account local considerations (geography, legacy infrastructures, local knowledge)
- Resilient Cities must have the ability to self-govern
 - Principle of Subsidiaritywhile also having 'authority'
 - Institutionalisation.....providing legitimacy and disrupting 'silo-thinking'
 - Appropriate governance structures
- Resilience must include social resilience
- Resilient Cities are 'Living Cities'
 - Resilient Strategies are 'Living' Documents

Resilience on the island of Ireland – An Analysis



Climate Resilience

A deepening – and
better integrated – policy
environment emerging

Planning for climate
change is non-linear

Approaches to mitigate
& adapt to climate
change will impact future
enterprise, jobs and
shape society

Key role of place –
compact growth,
sustainable mobility,
energy transition, food
security, retrofitting, etc.

Growing role for Local
Government - vital role
of place-based
approach.....and
ensuring no-one gets left
behind.

Environmental Resilience

- Focus on nature-based assets – parks, green spaces, open spaces
- Contribute to climate resilience but also better air quality, health, and quality of life
- National Agenda: Emphasis on decarbonisation zones
- Regional Agenda: Just Transition / bog restoration
- Local: green infrastructure



Derry City and Strabane District Council's
Owned Green & Blue Spaces
Natural Capital Account



A report by Vivid Economics for the Carnegie UK Trust
December 2019

“ a £5.5bn investment in urban green infrastructure would generate over £200bn of physical and mental health benefits” (Vivid Economics, 2020)

Socio-Economic Resilience

- Strongly linked to climate resilience, environmental quality, quality of services and creating better opportunities
- Post-COVID, growing emphasis on green recovery as pathway to better economy, better health and wellbeing and a just transition
- Diversification (with culture change) needs to be embraced
- Keep role of education – LLL and upskilling
- Right conditions requires integration between the liveability, community, natural capital, health and sustainability of place
- Opportunities for rural Ireland



Key Findings

The Principles for Resilient Cities

Open Data – key role in identifying and understanding shocks, stresses and strains – and their inter-connectedness

Openness and transparency – Who, What, Where, When and Why

Inclusivity of process – collaboration and strong local leadership

Principle of Subsidiarity

Create liveable cities

Effectiveness of Resilience to Environmental, Social and Economic Challenges



BEING INTEGRATED INTO
OTHER SUSTAINABILITY
AGENDAS



RECOGNISING THE
IMPORTANCE OF 'PLACE'
AND SPATIAL PLANNING



ACCEPTING ITS
LIMITATIONS AND
IDENTIFYING ANY
STRATEGY AS A 'LIVING
DOCUMENT



UNDERSTANDING ITS
RISKS, ITS
VULNERABILITIES



HAVING ACCESS TO
OPEN DATA AND
RELEVANT INFORMATION

Further Investigations



There is no one single model.....

Definition of a 'living city' in an island of Ireland context

Who are the actors?

The inter-relationships between local and central government

The inter-relationships between cities....considering scale

Models of governance

The variances – if any – between urban and rural resilience

Thank You

