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Sustainability? A housing & community perspective

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Overview

- What is sustainability re: Irish (urban) housing & communities?
 - *Many dimensions,* but focus here:
 - Residential density
 - Built-forms
 - Public and active transport
 - Rationale for selection:
 - well-being, social inclusion, equity
 - but also have natural environment & climate change dimensions (not really discussed here)
- How is Ireland doing?

1. What is Sustainable housing/community in Irish context?

- a) Residential density
- Resisting urban sprawl
- Brown > green-field
 - NB: blue & green
- Mixed use
- Good public transport (time)
 - Renewable energy

Freiburg





b) Higher residential density & built-forms

- Why?
 - Land & energy efficiency
 - Supports mixed use & sustainability of services
 - Most journeys active / public transport

Bath, England



Figure 2.6: Relationship between density and urban form



b) Higher density built-forms ctd

- Life-time adaptable, flexible housing & communities
- Accessibility: all ages & stages







b) Higher density built-forms (ctd)

• Requires high quality housing

- Dwelling: light, noise etc
- But aspects of neighbourhood quality higher correlation with quality of life (Winston)
 - Crime, safety
 - Pollution (air, water, noise...)
 - Green/blue space (Scott et al)
 - leisure, food, local energy, waste, pond, river...

b) Higher density built-forms (ctd)

- Require affordability & social mix
 - Ensure viability of local services, trades & skills
 - Avoids social wave syndrome (Barton, 2000)
 - almost all initial residents @ same family stage
 - uneven demand for services
 - creches, schools...nursing homes

b) Higher density built-forms ctd

• Require social resources

-Community services & centres

- Meetings, parties
- Libraries
- Leisure resources
 - Children, teenagers, older people

-Community development, networks & social capital

c) Transport

- Good quality, frequent, accessible public transport reduces
 - car use
 - car dependence
 - social exclusion (move or eat?)
 - 'obesenogenic environments'

c) Transport ctd

- Facilitate walking & cycling (e.g. 'Home zones')
 - •Significantly reduce motorized vehicles
 - •force them to drive slower
 - •Alter streets
 - benches, play areas, green
 space
 - •Community quality of life, health benefits



2. How is Ireland doing?

- a) Urban sprawl & built form
 - Sprawl common trend EU but *Ireland extreme case (Budovic et al; Williams & Redmond)*
 - One-off housing, open countryside: *rising again, Ireland extreme case (Brady)*
 - Some 'returners' but some escaping urban problems (Scott et al, Winston)
 - Affordability
 - Poor quality of urban life
 - Ireland outlier in EU in favouring 'houses' (urban & rural)

% living in houses (detached/semi-detached), 2017, EU-SiLC



How is Ireland doing (ctd)?

2. Transport

- Car dependence & social exclusion
 - Urban (Wickham)
 - Dublin v other cities
 - GDA but also Dublin
 - Move or eat (Drew, Winston & Koeppe)
 - Rural
- Transport inequities & Dublin suburbs (Ahern et al)
 - Very long commuting times via public transport
 - Forced car ownership
 - Low- & middle-income groups

Share of buses & trains in total passenger transport (%)



Share of buses & trains in passenger transport (%), 2017



Means of Travel (to Work, School or College)

Census of Population 1991-2016



■ 1991 ■ 1996 ■ 2002 ■ 2006 ■ 2011 ■ 2016

Towards more sustainable urban communities

- 1. Increase supply via higher density, *high quality urban communities*
 - Multi-family housing (incl. apartments): *higher* space standards (Gallent at al; Winston)
 - Alternative tenures (e.g. co-ops): older people, separated/divorced
 - Densify suburbs: *space* for environmental, economic & social infrastructure (Bramley et al)
 - BedZed, London
 - NB: Good quality green & blue space (Scott et al)

Towards more sustainable communities

- 2. Transport
- Improve proximate, fast, & affordable public transport
- Reduce cars (taxation, speed ...)
- Cost Benefit Analysis: benefits of transport-oriented developments v dispersed settlements (Williams et al)

Final points: sustainable communities

- Not an end state, evolve over time, responsive to different contexts
- Requires holistic approach
 - Depts: Housing, planning, transport, energy, climate change
- Environment, economic, social trade-offs
 - Long-term thinking essential....costs will be brought down or save elsewhere (e.g. health)
- Long legacy of construction if get it wrong: costs of retrofitting, pushing people out

Final points ctd

- Explore alternative pathways
 - actors & their connections? goals & values prioritized?
 - different understanding & capacities to present pathways for change...
 - Implications for marginalised households & communities
 - equitable access to services & social resources
 - reducing transport poverty & inequities
 - Reducing leisure poverty/inequities [infrastructure (blue & green space), commuting time, ...]
 - Improve well-being (mental & physical), equity, social inclusion.