

The Practical Implementation and transferability of 'walkability' as a concept; considerations for ALR

The Cleaner, Greener, Leaner Study

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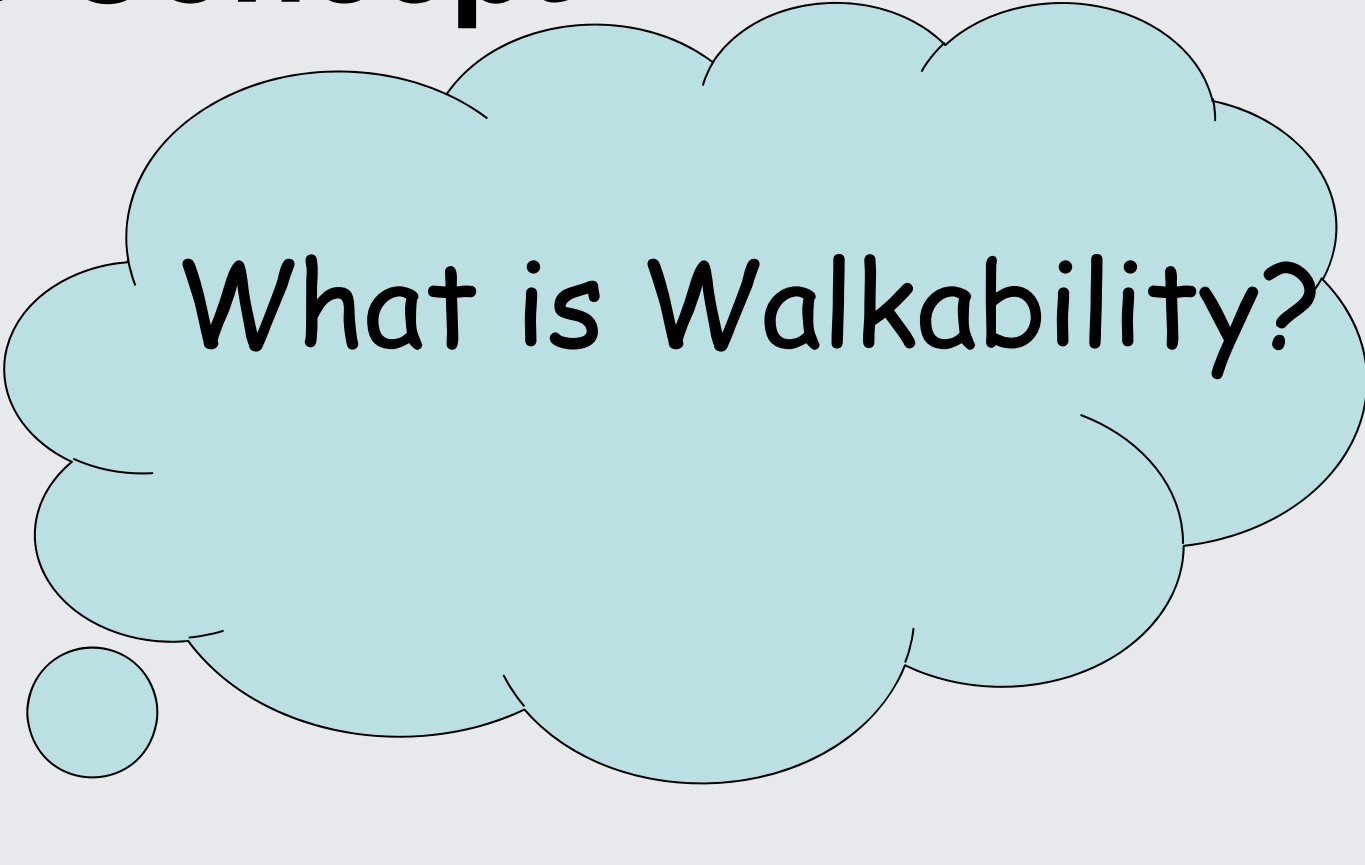
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University of Derby

Prof. James Wickham

Trinity College Dublin

The Concept



What is Walkability?

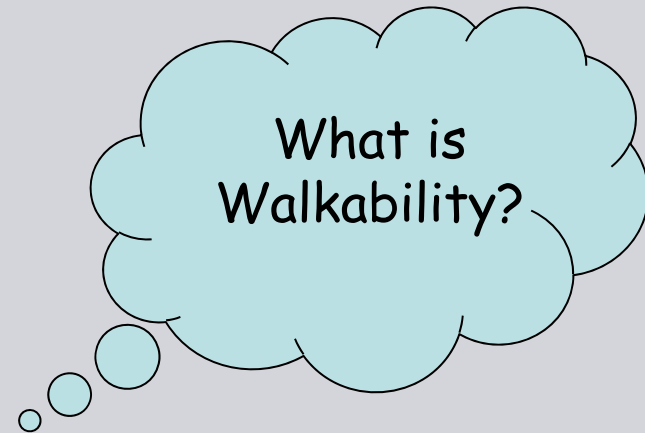


Movement



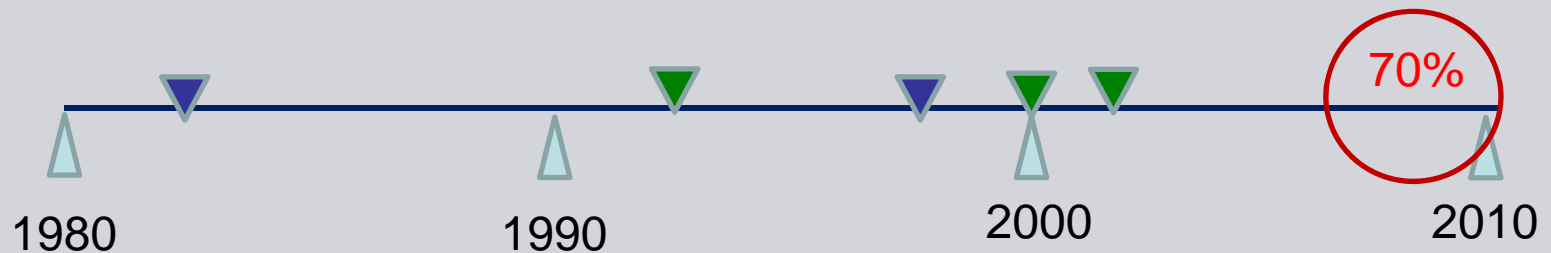
Literature Review

Origins & Definitions



'Walkable' and/or 'Walkability'

N=575

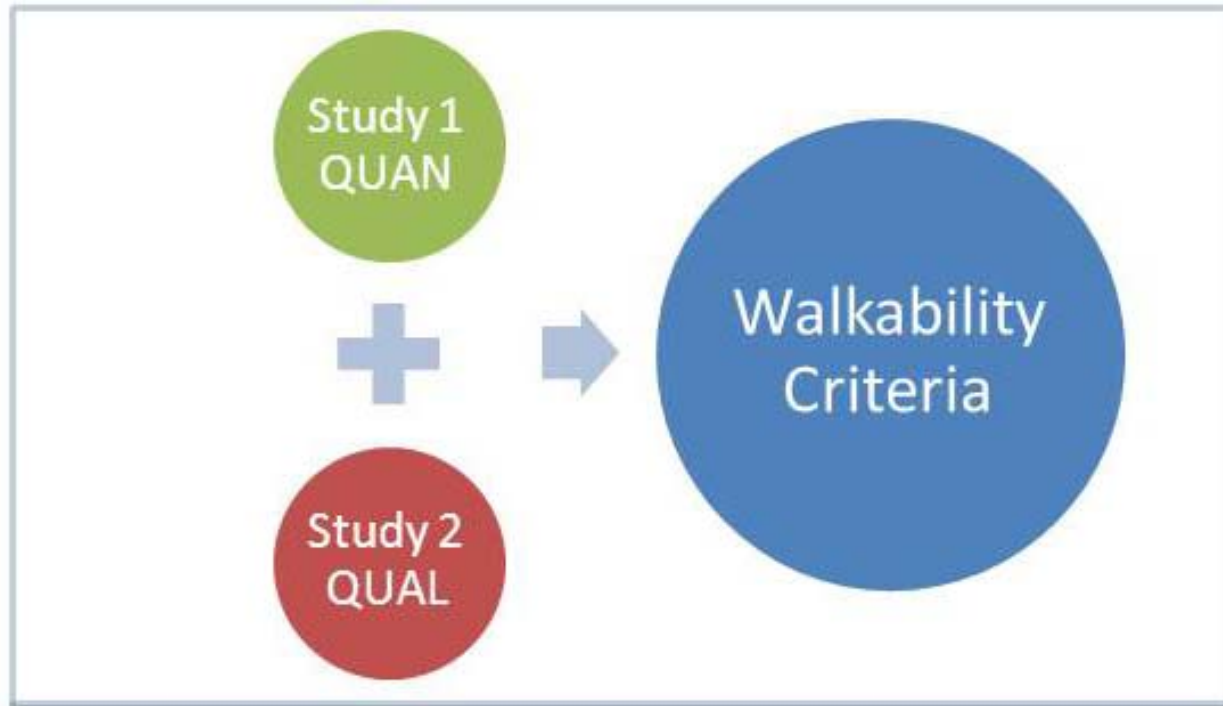
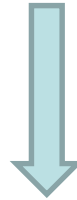


Place





Literature Review

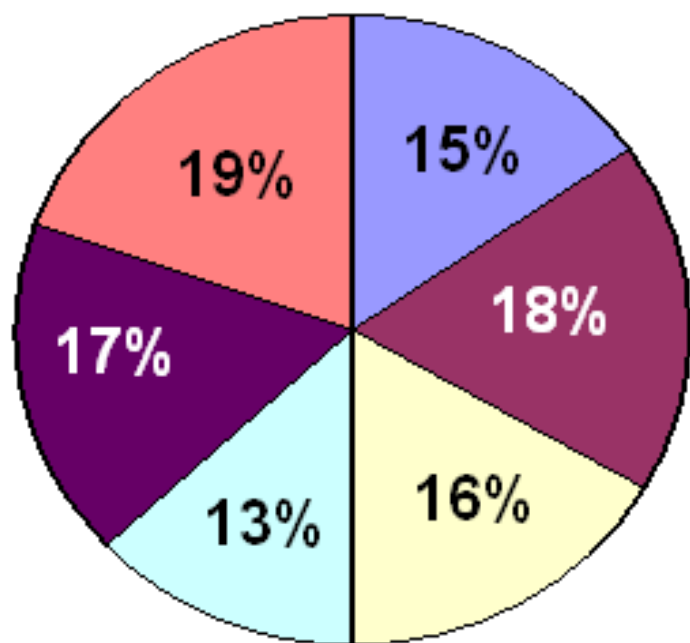


Who's Responsible?

Spatial Planners
Transport Planners
Urban Designers
Architects
Landscape Architects
Public Representatives
Engineers
Public Health Professionals
Advocates



Study 1
QUAN



- Spatial Planning
- Transport Planning
- Architecture and Design
- Public Health and Advocacy
- Public Representative
- Engineering

N= 216, Average Age: 39.7 years, 58% Male

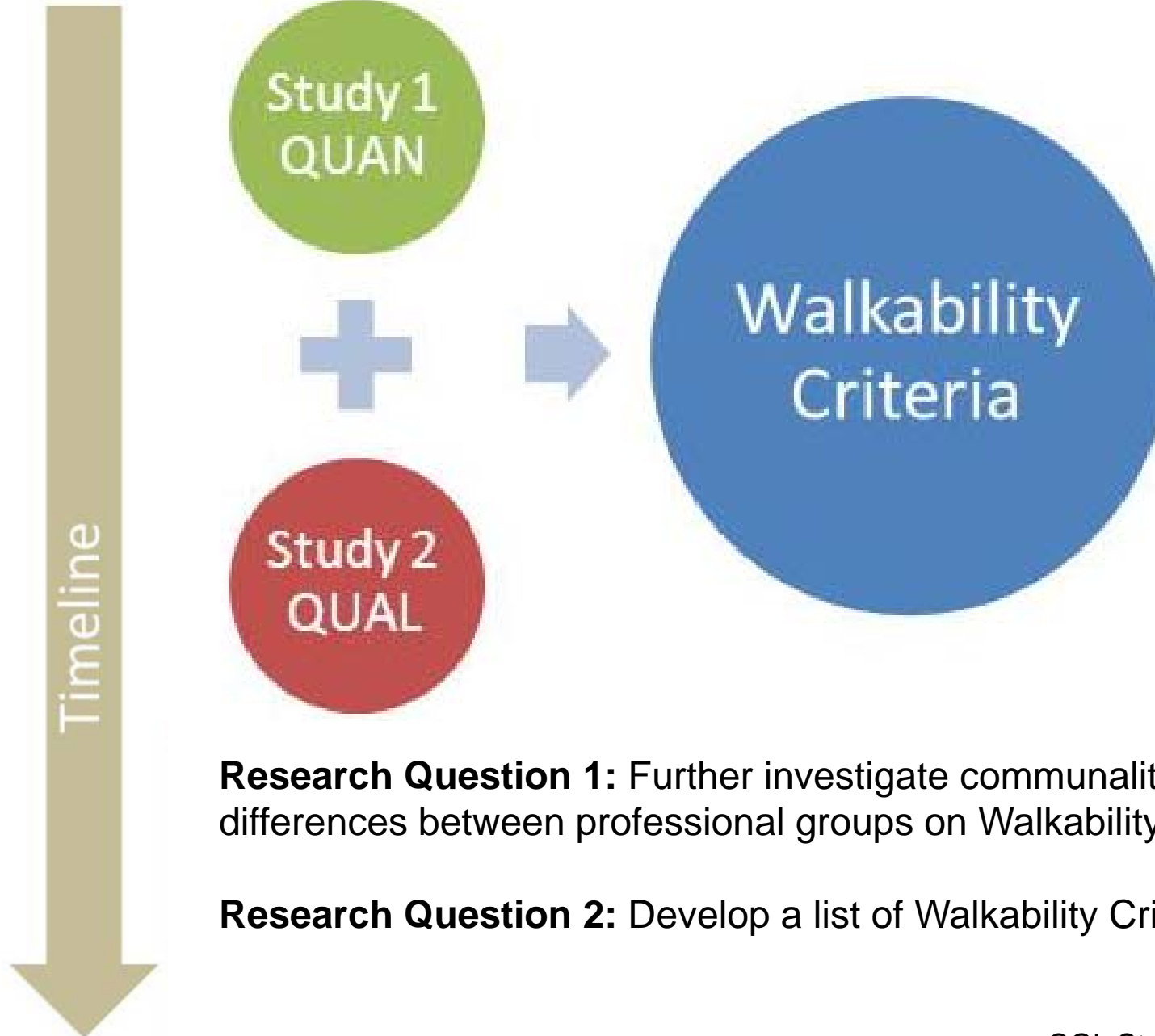
Web based delivery platform

Below is a list of factors that might be associated with walkability (pedestrian friendliness)

Please select a response that ranges from 1 - very good for walkability to 5 - very bad for walkability.

	1 - Very good for walkability	2 - Good for walkability	3 - Neither good nor bad for walkability	4 - Bad for walkability	5 - Very bad for walkability	Don't know
Well maintained footpaths	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Attractive gardens & trees along route	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Interesting architecture	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cul-de-sacs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Older area of the city	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Even slope/ gradient along the route (not hilly)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Little or no graffiti	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Poor air quality/ presence of air pollution	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pedestrian shortcuts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access to parks and other green spaces	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bad weather	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Wide roads with multiple lanes of traffic	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Schools, shops, transport stops, recreation facilities and other services within walking distance from people's homes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sheltered routes from wind and rain	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other people walking	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Inviting local shops	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Proximity to the sea, river or canal	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

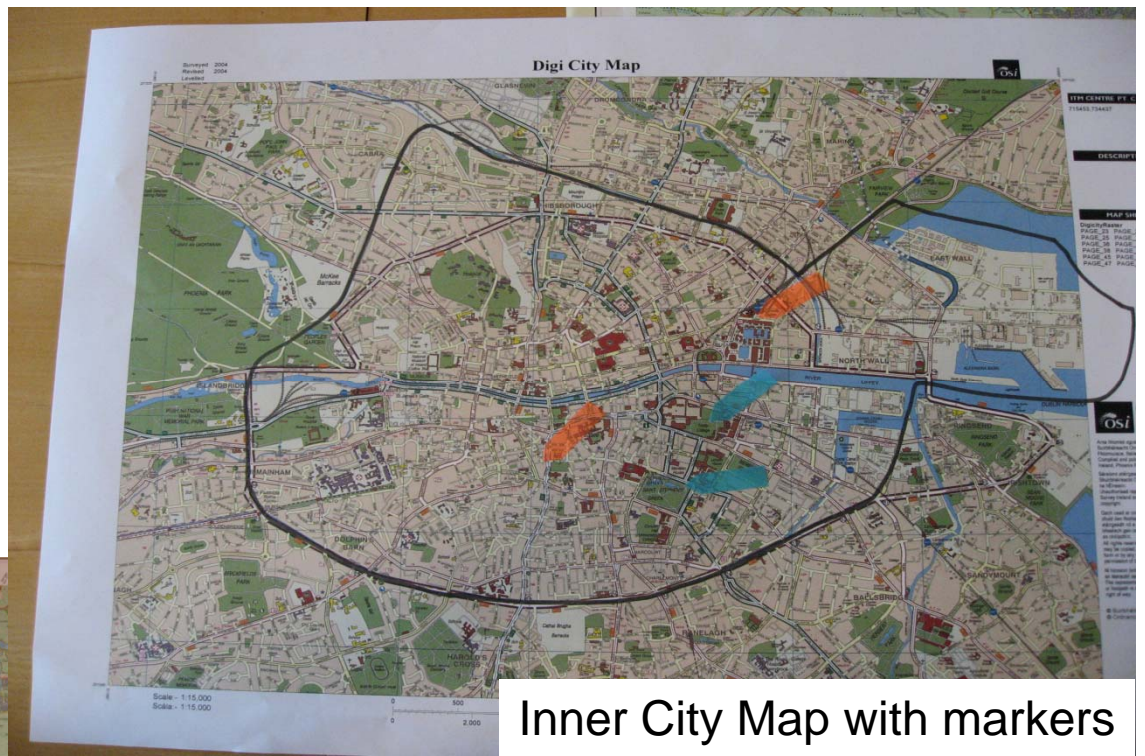




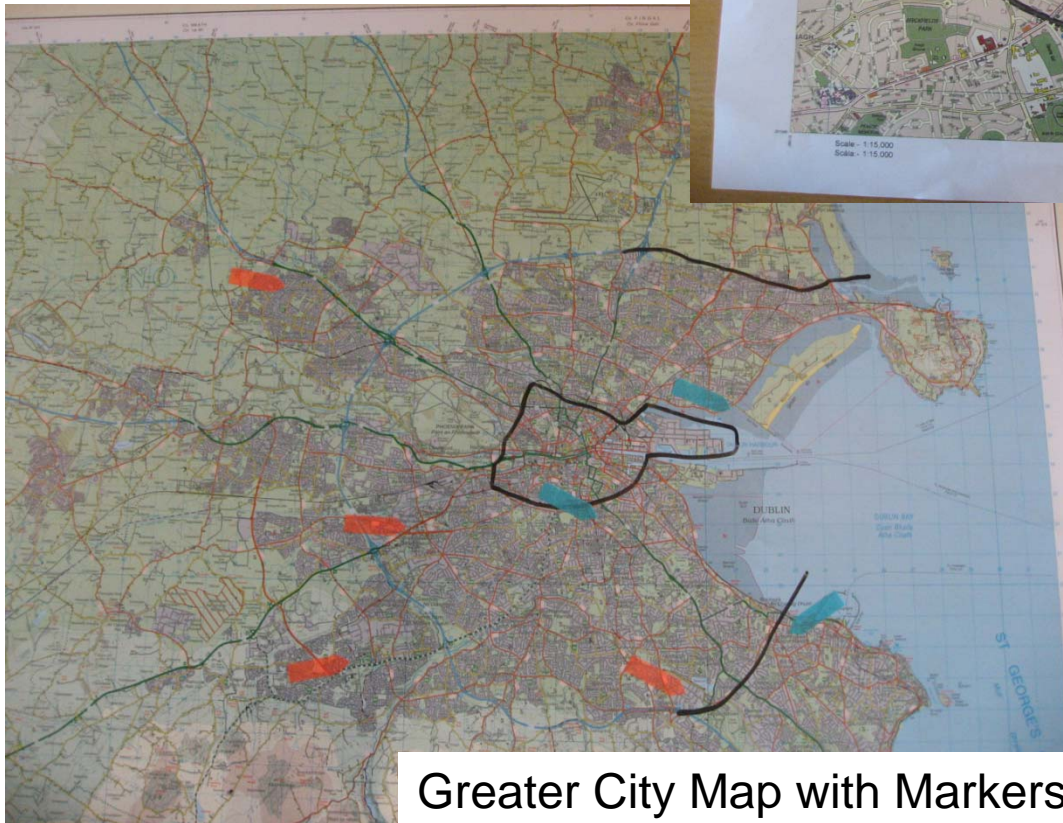
Research Question 1: Further investigate communalities and differences between professional groups on Walkability

Research Question 2: Develop a list of Walkability Criteria

Study 2
QUAL



Inner City Map with markers

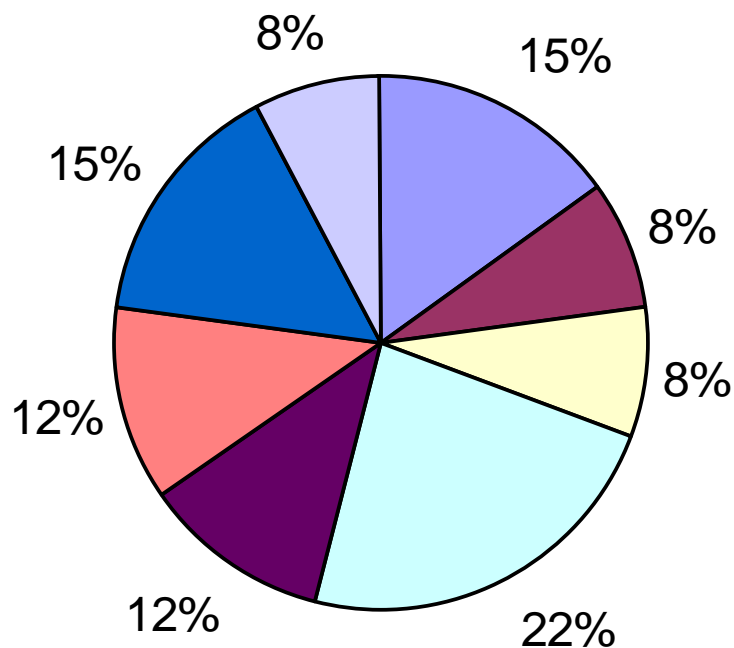


Greater City Map with Markers



Study 2
QUAL

Professional Disciplines of Participants



N= 26
5 Focus groups

Male/ Female
15/11

Mean Age
39.5yrs

Age Range
25 to 58yrs



Study 2
QUAL

Professional differences

'I understood the question as a place to go for a (recreational) walk'

[Public Representative],

'I was thinking livability more than walkability'

[Architect].

Context

‘Walkability means different things to different people and it also means different things to the same person under different circumstances’

[Spatial Planner]

‘If I am going to work I want to be sure of that direct route, if I am going for a walk on a Sunday afternoon I want to meander, I don’t necessarily want to get to somewhere’

[Spatial Planner]



Walkability
Criteria

Scale

human scale is a perception of relative size or distance to the human body (Ewing, et al. 2006, Gehl 2010).



Walkability
Criteria



Escapism



Walkability Criteria



Human Scale



Walkability Criteria



Cararchitecture

Criteria

	Criteria	Macro	Meso	Micro
Core Theme: <i>Scale</i>	1	x	x	x
Theme 1: <i>Village</i>	3			
Theme 2: <i>Permeability</i>	6			
Theme 3: <i>Streetscape</i>	4			



Walkability Criteria



The Village

Criteria

	Criteria	Macro	Meso	Micro
Core Theme: <i>Scale</i>	1	x	x	x
Theme 1: <i>Village</i>	3		X	
Theme 2: <i>Permeability</i>				
Theme 3: <i>Streetscape</i>				



Walkability
Criteria



Permeability

Ease of movement through an area





PDM
960
146

Pride comes from within

GUINNESS DRAUGHT

IT'S ALIVE INSIDE

250

Criteria

	Criteria	Macro	Meso	Micro
Core Theme: <i>Scale</i>	1	x	x	x
Theme 1: <i>Village</i>	3		X	
Theme 2: <i>Permeability</i>	6	x	X	x
Theme 3: <i>Streetscape</i>				



Walkability
Criteria



Streetscape







n Harbo

NO THROUGH ROAD

The Old Harbour

1877 P... ..

W... ..

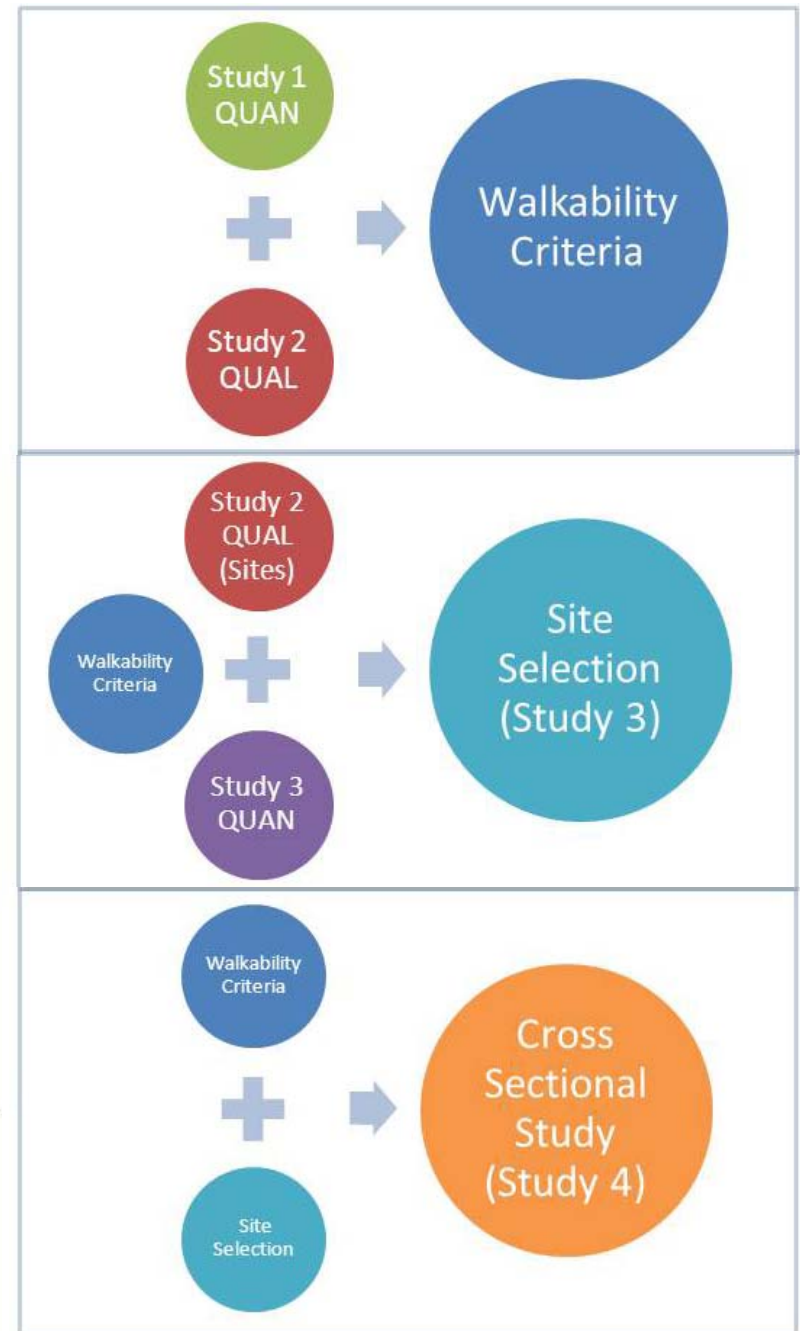
SALE

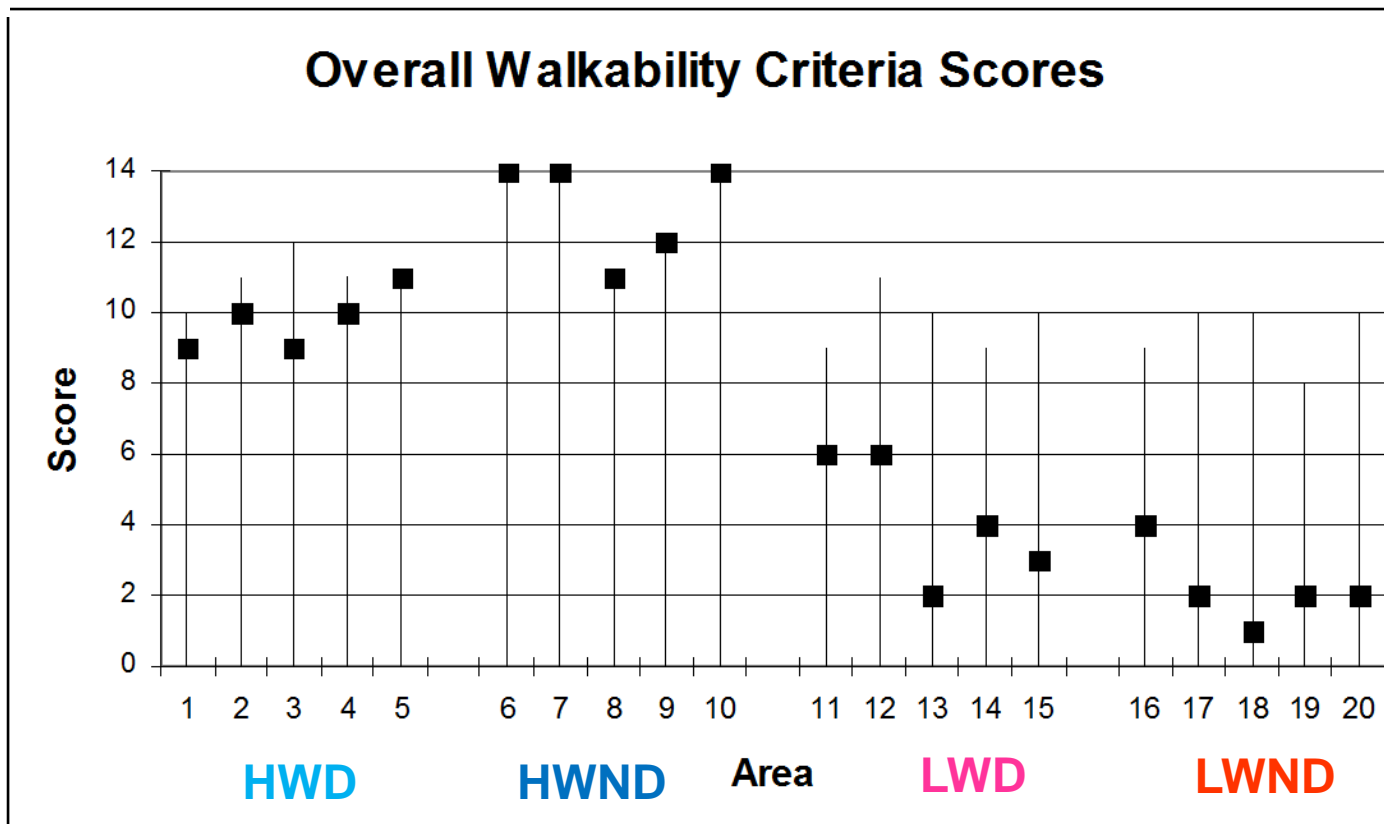


Criteria

	Criteria	Macro	Meso	Micro
Core Theme: <i>Scale</i>	1	x	x	x
Theme 1: <i>Village</i>	3		X	
Theme 2: <i>Permeability</i>	6	x	X	x
Theme 3: <i>Streetscape</i>	4		x	x

Literature Review





+1 Agree

-1 Disagree

0 Not applicable or neutral

HWND > LWD & LWND $**\rho < .01$

HWND > HWD $*\rho < .05$

HWD > LWD & LWND $**\rho < .01$



Relevance



LiveableCities



Complete Streets are Safe Streets



CITY OF CULTURE

PUBLIC PLACES
URBAN SPACES



NEW URBANISM

THIS PLACE MATTERS™

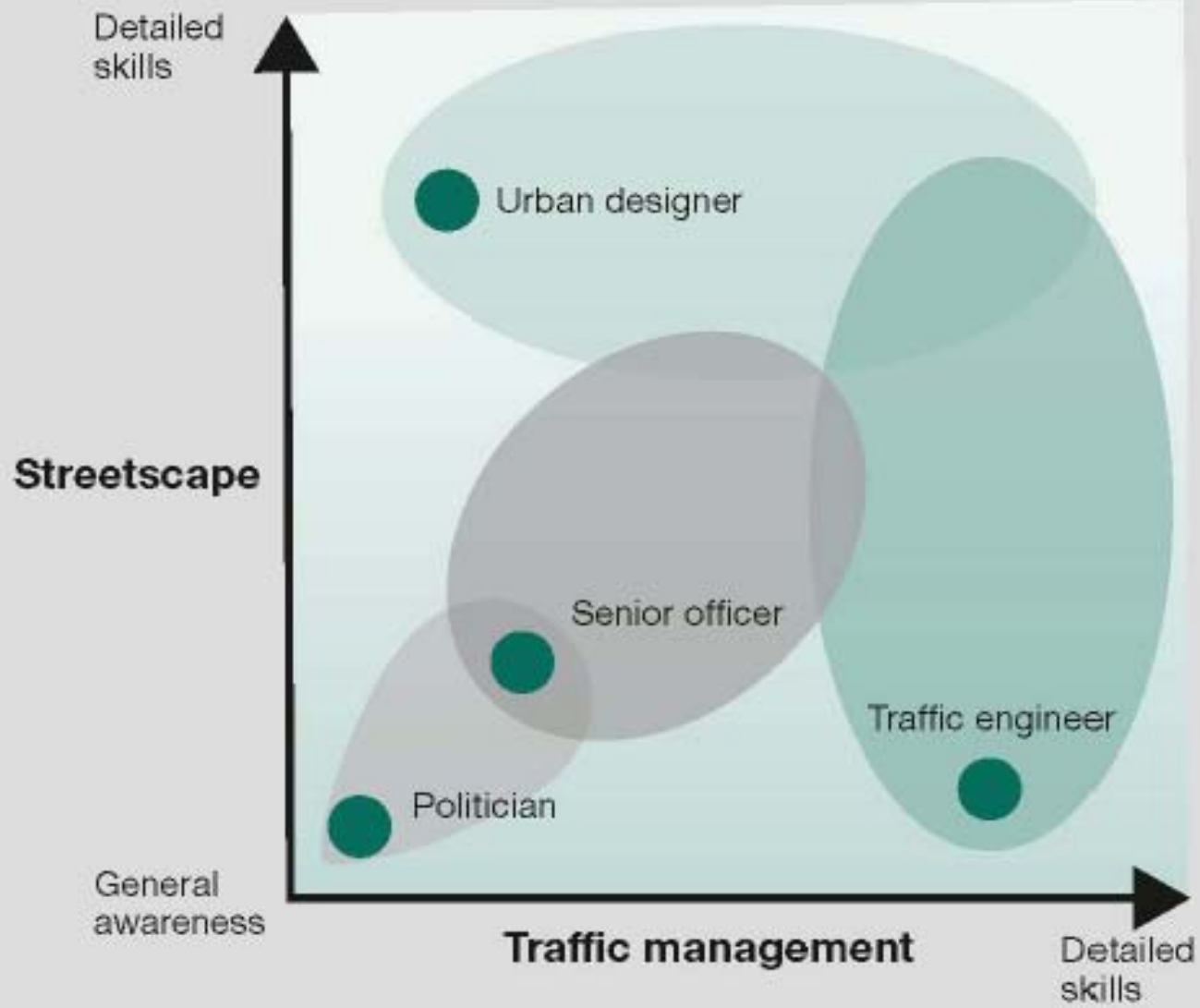
NATIONAL TRUST FOR HISTORIC PRESERVATION

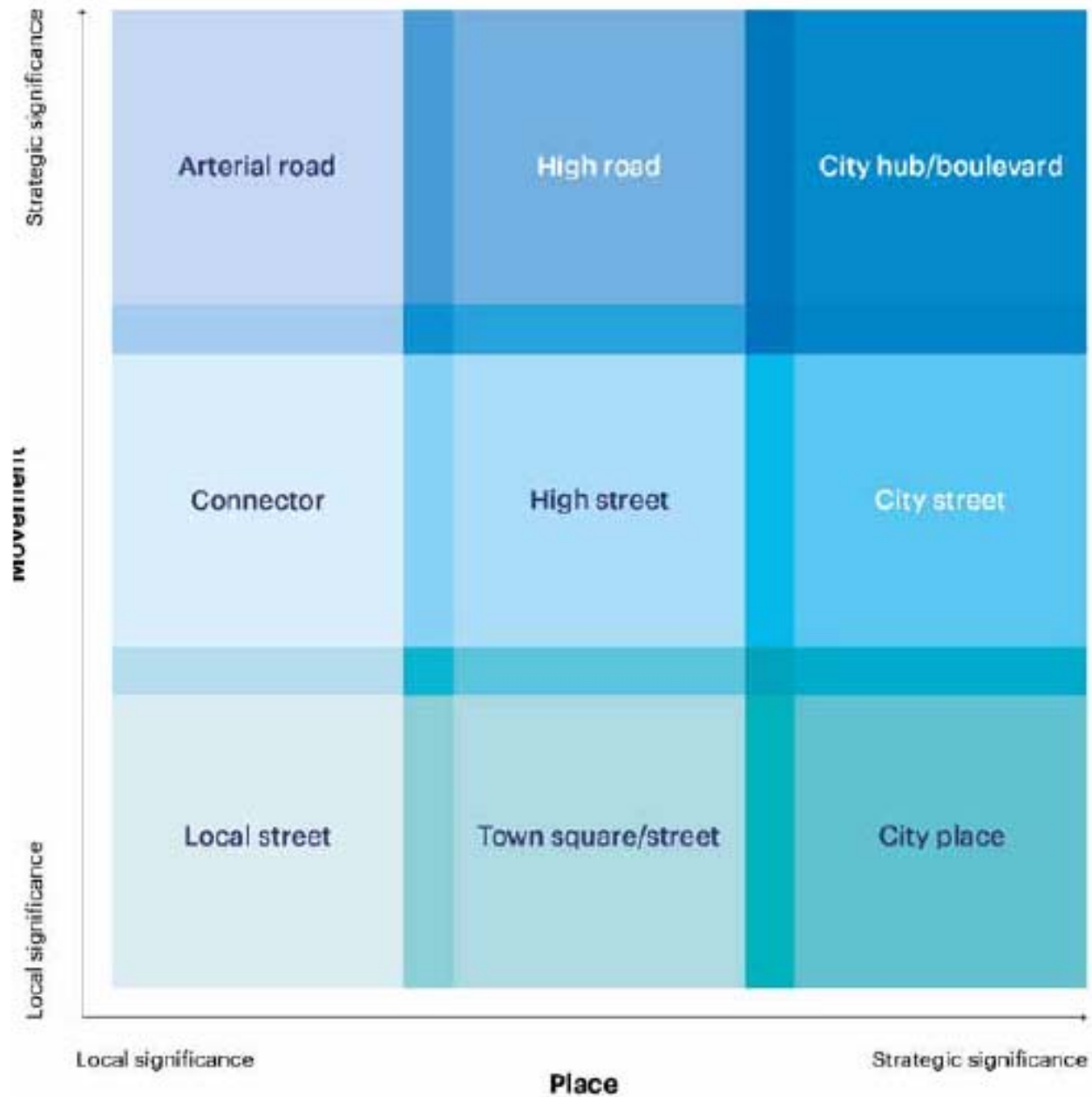
Child Friendly Cities



Smart Growth America
Making Neighborhoods Great Together

Urbanism Complete
Learnin *Healthy* Active
Citizenship *Place* Walkable Interactive
Economic Happy *City* Bike
+)(@ *Green* Resilient
ECON *Smart* able
Sustainable CULTURAL
Inspiring *Street* Inclusive
Placemaking Ageing - in-place Equitable
Better *Social*
Accessible





Conclusions

- Profession does influence view of walkability
- Movement and Place
- Scale
- Connectivity and Permeability
- Role of perceptions and context

Questions?



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