What humans need in public space

Daniel Sauter, Urban Mobility Research, Zurich, Switzerland



Cities for Mobility; Stuttgart, 20 June 2016 Workshop: Making the new mobility culture quickly visible Do we experience the world differently when we walk compared to ...

... let's say drive?

If so, how is it different?



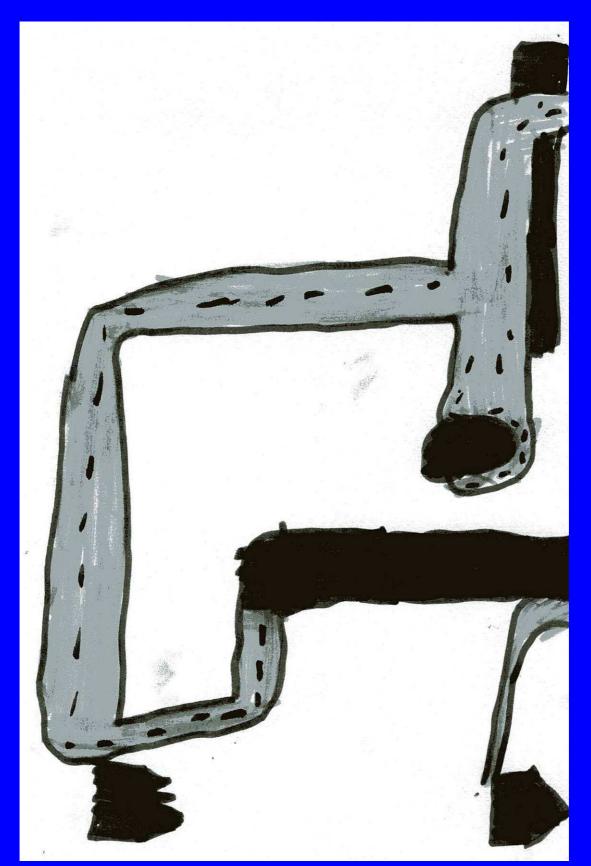
William (7) walks to school..

Source: Marco Huettenmoser, Muri AG; www.kindundumwelt.ch

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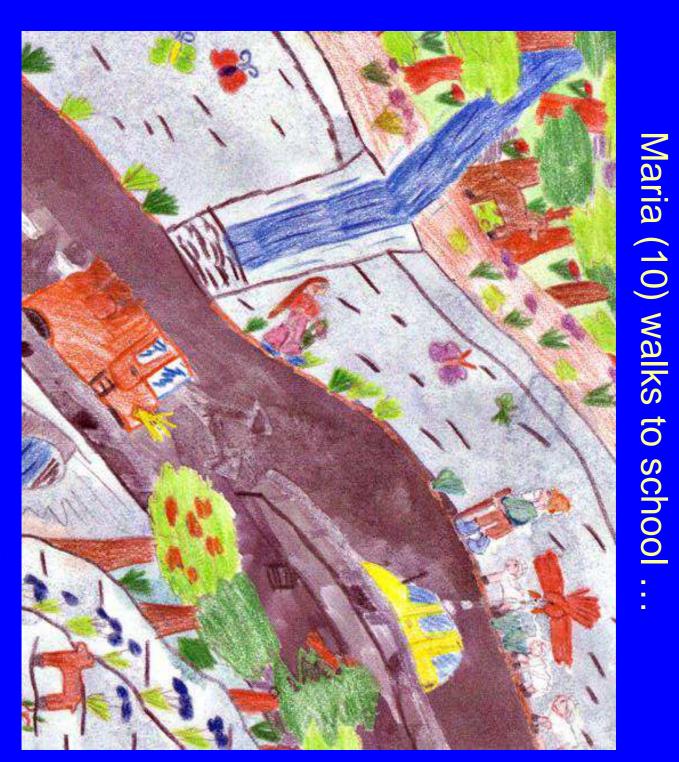
Sandra (7) is being driven to school ...

Source: Marco Huettenmoser, Muri AG; www.kindundumwelt.ch



Samuel (7) is being driven to school ...

Source: Marco Huettenmoser, Muri AG; www.kindundumwelt.ch



Source: Marco Huettenmoser, Muri AG; www.kindundumwelt.ch

Spaces and people - Needs and requirements

Spaces that allow for communicative & social aspects of walking and sojourning









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Spaces taking into account people's sensitivity for immediate environment and weather



Spaces allowing for easy transitions between walking and sojourning











Spaces allowing for multiplicity of motivations, purposes & activities













Spaces that are well linked to other modes









"Walking is the glue of the transport system"

Spaces that support flexible, small scale movements, but...











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Spaces where people are and feel safe and secure







Inclusive spaces: open to & usable for everyone









Spaces to play and be active









Spaces that allow for physical and mental well-being



"The walking network is the biggest fitness centre"

Spaces that create happiness and emotional wellbeing











"measuring the smiles"

"It's hard to create a space that will not attract people, what is remarkable, is how often this has been accomplished."

William H. Whyte

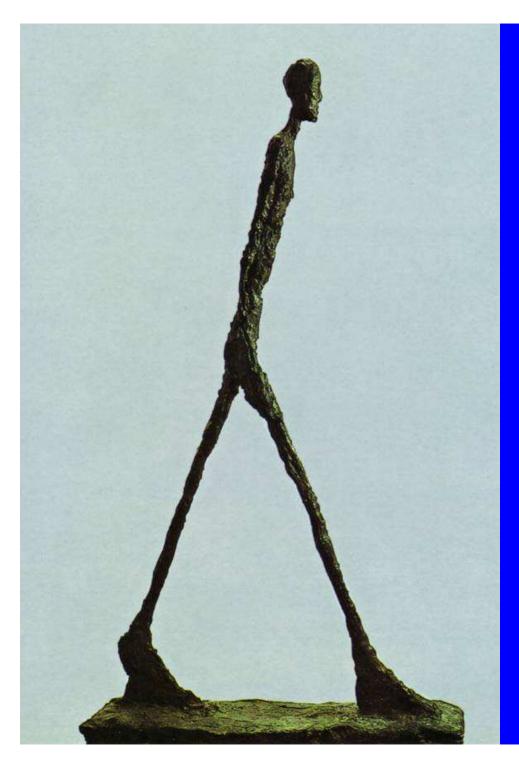
The Social Life of Small Urban Spaces

William H. Whyte 1988





Video excerpt, see long version: https://archive.org/details/SmallUrbanSpaces



Conclusion

Understanding people and their behaviour...

... are crucial ingredients in creating successful public spaces

Alberto Giacometti L'Homme qui marche II, 1960 Photo: Sabine Weiss

A question in between:

How much does it cost to improve public spaces?

Three theses on (low) cost

Thesis 1

Investments in walking are almost always low cost; particularly in comparison to other means of transport

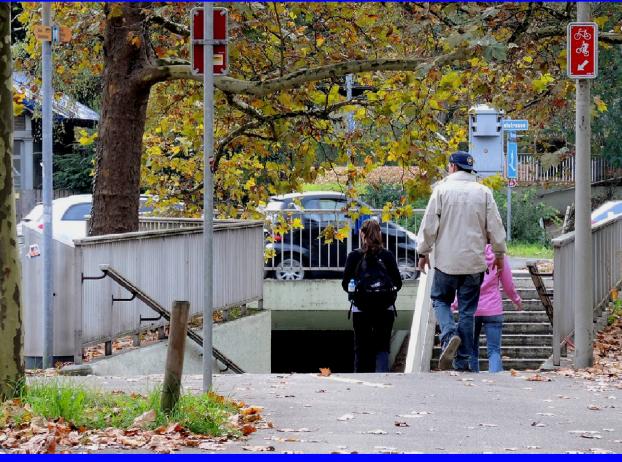




Thesis 2

What often makes walking (seemingly) expensive are the costs caused by of other means of transport; in particular the often "untouchable" settings for car traffic



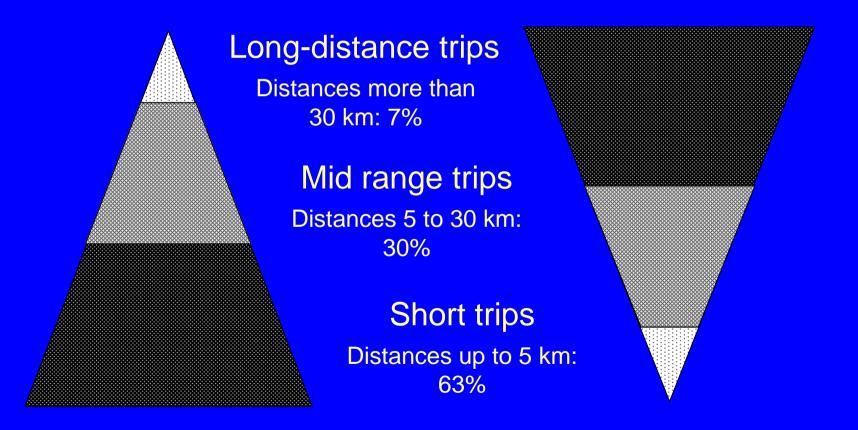


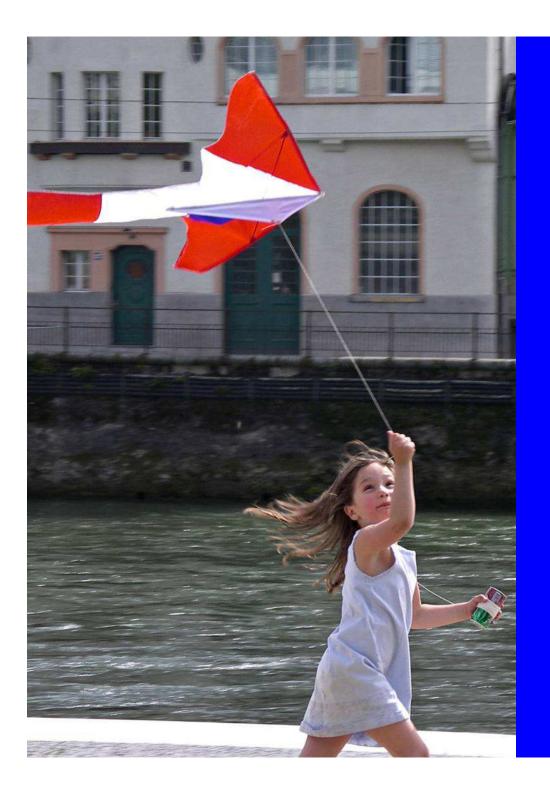
Thesis 3

Our everyday lives mostly consist of short trips but the political priorities focus on the opposite

Distribution of trip distances

Distribution of resources





Conclusion

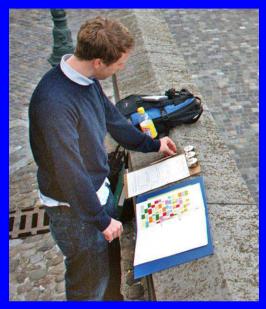
Sidestep the ideology that investments into public space are costly and genuinely caused by walkers, cyclists and public space users

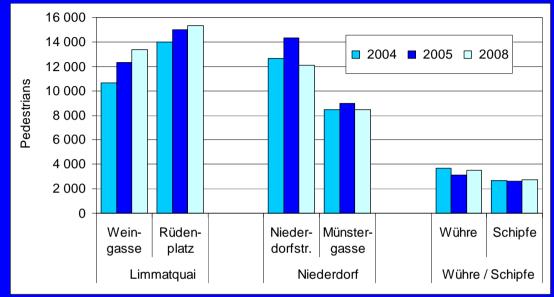
Low cost methods to measure public space qualities

A couple of examples

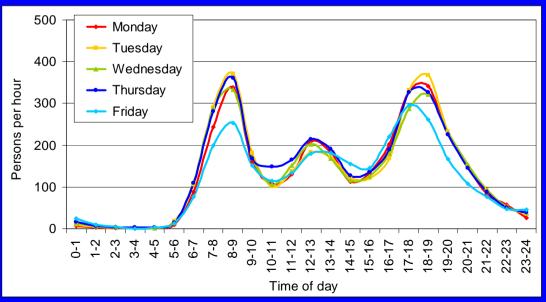
Only what's being counted counts...

Manual and automatic counts of pedestrians and cyclists



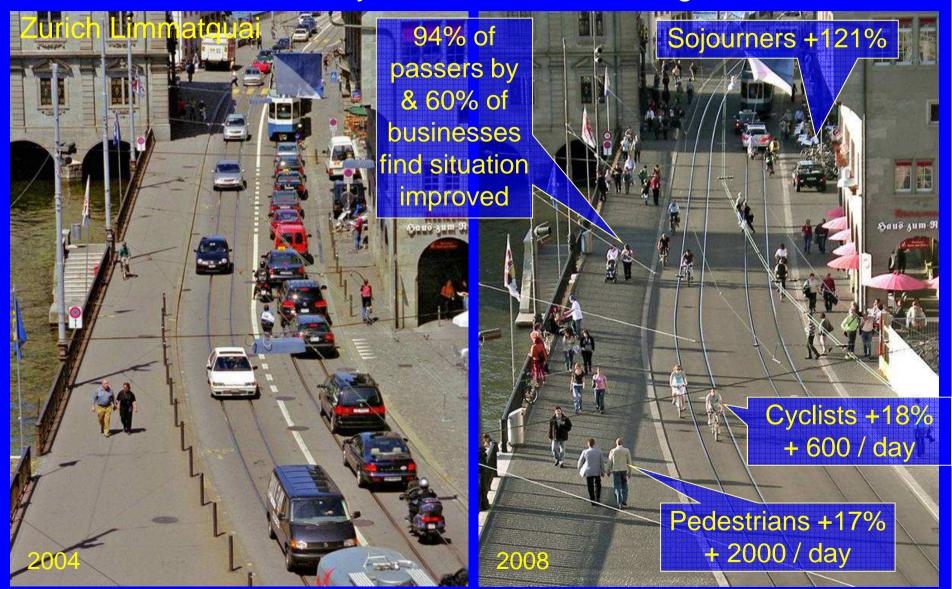






Sources: Studies Daniel Sauter for the city of Zurich

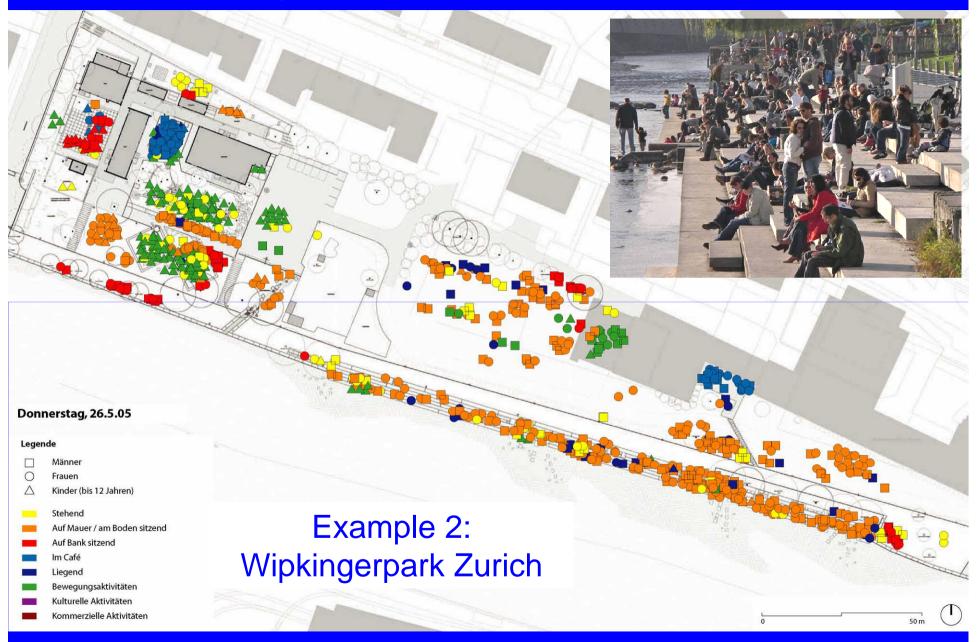
Example 1: Measuring the success: to free inner city from motorised through traffic



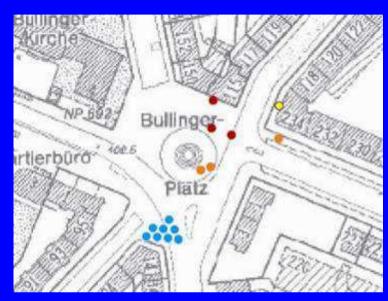
Source: City of Zurich; D. Sauter, 2008: Das Limmatquai vor und nach der Neugestaltung www.stadt-zuerich.ch; enter search words: "Limmatquai Aufenthaltsnutzung"

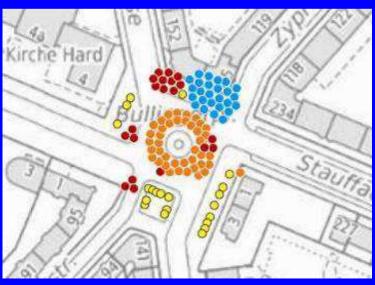
Daniel S

Observing sojourn activities in public spaces



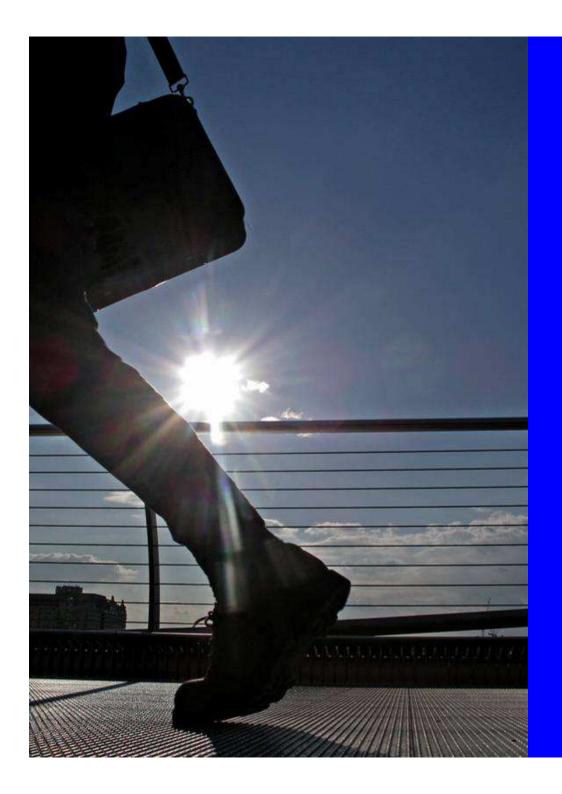
Example 3: Measuring the success: relieving city neighbourhoods from through traffic





Snap shot Bullinger Square 8pm: 2008 above, 2013 below

Pedestrians	+22%
Cyclists	+262%
Cyclists on sidewalk	-65%
Crossings by pedestrians	+19%
Children accompanied	-16%
People sojourning	+89%
People in street cafés	+158%
Places on public benches	+400%
Places in street cafés	+75%



Conclusion

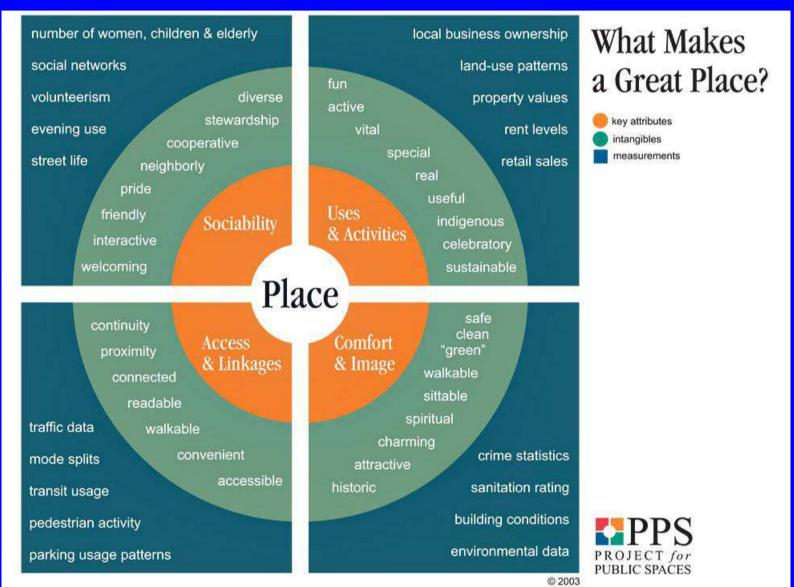
Only what's being counted counts

The benefits and successes of improvements to public spaces can be shown quickly with simple and low cost methods

Resources for a systematic approach

A few examples for further exploration

Assessing streets and place qualities Criteria to measure quality of public spaces by PPS



Protection

Protection against traffic and accidents – feeling safe

Protection for pedestrians
 Eliminating fear of traffic

Protection against crime and violence – feeling secure

- · Lively public realm
- · Eyes on the street
- Overlapping functions day and night
 - · Good lighting

Protection against unpleasant sensory experiences

- · Wind
- · Rain/snow
- · Cold/heat
- · Pollution
- · Dust, noise, glare

Opportunities to walk

- · Room for walking
- · Interesting facades
 - No obstacles
- Good surfaces
- · Accessibility for everyone

Opportunities to stand/stay

- Edge effect/attractive zones for standing/staying
- Supports for standing
 Facades with good details that invite staying

Opportunities to sit

- · Zones for sitting
- Utilizing advantages: view, sun, people
- Good places to sit
- Benches for resting

Opportunities to see

- Reasonable viewing distances
- · Unhindered views ·Interesting views
- -Lighting (when dark)

Opportunities to talk and listen

Low noise levels
 Street furniture that provides 'talkscapes'

Opportunities for play and exercise

- Physical activity, exercise
- Play and street entertainment

 By day and night
- In summer and winter

Scale

· Buildings and spaces designed to human scale

Opportunities to enjoy the positive aspects of climate

- Sun/shade - Heat/coolness
- · Shelter from wind/breeze

Positive sensory experience

Good design and detailing Good materials

· Fine views
· Trees, plants, water

Assessing streets and place qualities

The 12 Key Quality
Criteria to measure
public spaces
by Jan Gehl

Gehl et al. 2006
New City Life
www.gehlarchitects.com

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Community Street Audit / expert audit

Quality assessments by users and other stakeholders (residents, shop keepers etc) or by experts



Living Streets: www.livingstreets.org.uk

Fussverkehr Schweiz: www.fussverkehr.ch

Walk-Space, Austria: www.walk-space.at

Project for Public Spaces: www.pps.org

Walkability Checklist: www.walkinginfo.org

TRL: rate my street: www.ratemystreet.co.uk

Community Street Review NZ: www.levelofservice.com

Walkonomics: http://walkonomics.com

Pedestrian Environment Review System: www.trl.co.uk

Measuring Walking

Towards internationally standardised monitoring methods of walking and public space

Objective: "Establishing a set of international guidelines for the collection, analysis and dissemination of quantitative and qualitative techniques for measuring walking."

International Walking Data Standard: Treatment of Walking in Travel Surveys

Adopted at Walk21 in Vienna October 2015
Objective: to make travel survey data comparable

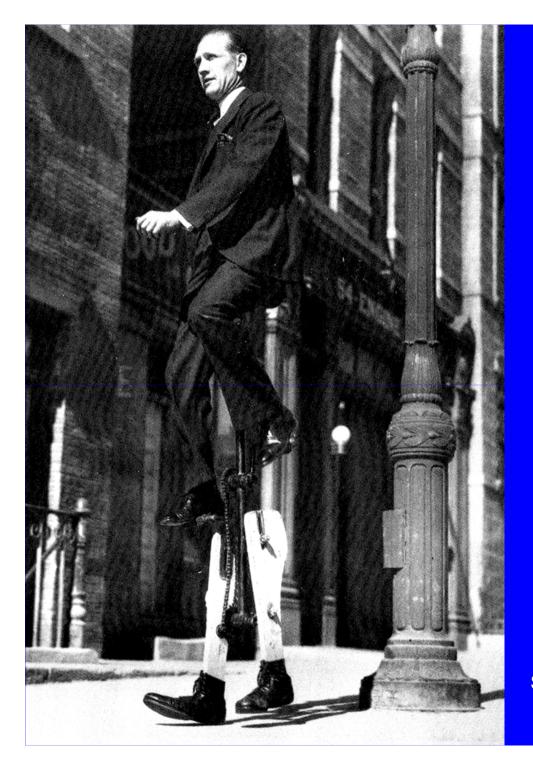
See www.measuring-walking.org (website currently being built)

Making Walking Count: A standardised city survey

Contact: www.walk21.com







Conclusion

There is an increasing number of tools and methods available...

... to measure public space qualities and show the positive impact of their improvements

Source: American Stock Photography 1988

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