

COLIN BUCHANAN

Sojourn Activities in Public Space

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Background



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Background



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Purposes



Strategic

- City monitoring

Project-specific

- Measuring change
- Pedestrian space planning

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Strategic monitoring

THREE GOALS

More urban life for all

By 2015, 80% of Copenhageners will be satisfied with opportunities they have for taking part in the life of the city.

More people to walk more

By 2015, we will have increased the amount of pedestrian traffic by 20% compared to today.

More people to stay longer

By 2015 Copenhageners will be spending 20% more time in urban space than they do today.



Exploring change



Pedestrian space planning



Method

- Definition of sojourning pedestrians
- Observation methods
- Recording of observations
- Aggregation

Sojourning pedestrians?



- Static?
- Spending time / dwelling?
- Voluntary or forced?

Observation methods



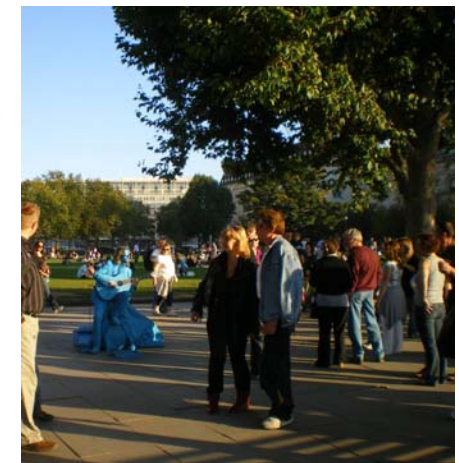
- Time sample
- Snapshot (Burano-method)

Recording of observations



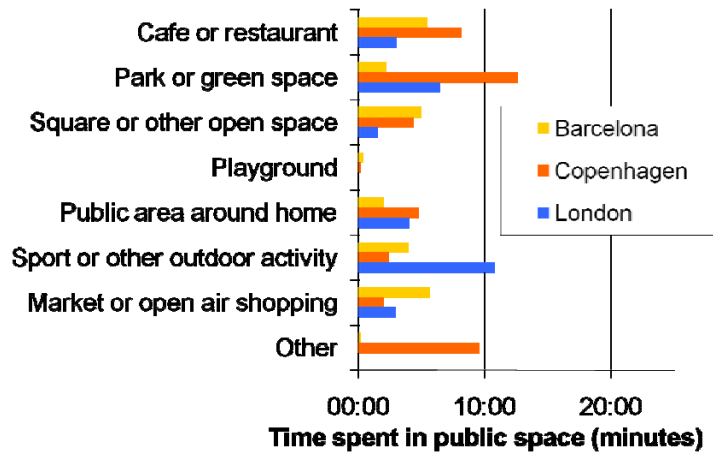
Aggregation

- How many observations required?
- Total estimate?
- Different periods of the day?
- Seasonal variation?



Or... just ask.

Making walking Count surveys 2009/10 – respondents aged 60+



But...

1. Standards and comparability

Can we draw comparisons across studies?

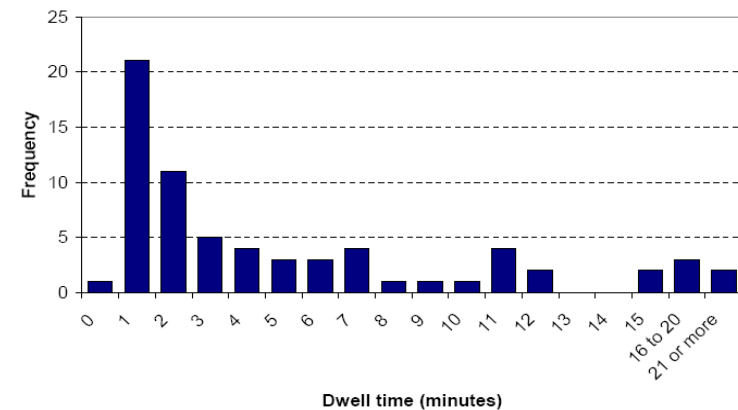
2. Robustness

Do the methods stand up to scrutiny?

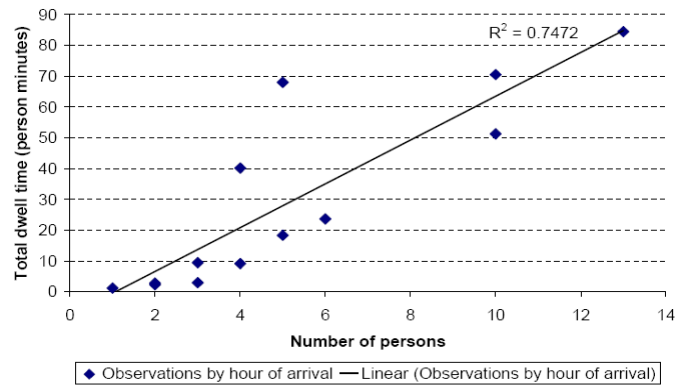
Example: Wilcox Road



Frequency of dwell times



Relationship between dwell time and snapshot observations



Variation - snapshots

Method	mean	SE	SE/mean
7 (2-hourly, 7-22)	3.10	0.227	7%
12 (hourly, 7-19)	5.77	0.313	5%
15 (hourly, 7-22)	5.87	0.302	5%
30 (2 per hour, 7-22)	11.70	0.435	4%
45 (3 per hour, 7-22)	17.57	0.500	3%

Variation – intervals

Method	mean	SE	SE/mean
7x15min (2-hourly, 7-22)	7.50	0.359	5%
12x15min (hourly, 7-19)	15.15	0.646	4%
15x15min (hourly, 7-22)	16.13	0.447	3%
15x30min (hourly, 7-22)	27.10	0.655	2%

Variation between weekdays

Method	mean	SE	SE/mean	95%-iles
Hourly 15mins (1 day)	83	10.96	13%	61 – 105
Rotating 15mins (1 day)	83	8.06	10%	67 – 99
Rotating 15mins (2 days)	83	5.93	7%	71 - 95