Who encourages us to cycle? A novel approach to researching social influence in UK cycling

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BSA: 6th April 2011
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The PhD Research Project & iConnect

- Topic: exploratory study to understand gender differences and social influence in cycling

- 3 yr f/t EPSRC (Engineering & Physical Sciences Research Council) funded project (Dec ’08 – Nov ‘11)

- Cross-disciplinary team & fields:
  Health: Dr Jane Powell (DoS), Dr Paul Pilkington
  Transport: Prof. Graham Parkhurst

- Part of iConnect consortium (www.icconnect.ac.uk) which aims to evaluate the Sustrans' Connect2 programme (www.sustransconnect2.org.uk)
Literature Review 1: Cycling & Gender

- Inequitable distribution of cycling in UK; 30% of trips by women (age & ethnicity)
- Low levels of cycling (UK, USA) = low inclusivity
- High levels of cycling (N. Europe) = cycling for all
- Greater safety concerns (traffic/personal)
- Cycling perceived as a ‘dangerous’ and/or ‘sporty’ activity – requiring special/protective clothing.
- Concerns over personal appearance, esp. younger age groups; in London 25’s & under who cycle: 2% girls 11% boys
- Wider social norms about culturally ‘acceptable’ activities for girls and boys (& men and women)
Literature Review 2: Social Influence

- White et al.'s 2009 study of recycling found that the ‘visibility’ of a behaviour which was being encouraged was important. Wider visibility also important also for female cyclists? Champions/role models.

- Health field - many recent behavioural change programmes i.e. PEACH at University of Bristol (smoking, drug and alcohol abuse, diet, exercise)

- Are there gender differences in how social/peer pressure operates?

- Gatersleben - affective factors relating to car use were gender differentiated, likely to be similar for cycle usage also (Gatersleben, 2007).
Aims

- To investigate gender differences in cycling in the UK and determine the key reasons for the lack of participation in cycling by women.

- To understand the relationships between culture, environment, infrastructure and gender.

- To discover whether social influence is a significant factor in persuading more people (and especially more women) to cycle.
Research Design: why & how?

- Exploratory study: Gap in literature around qualitative perspective on gender, cycling & social influence

- Taking account of other current research work: currently several large-scale projects exploring aspects of walking & cycling

- **Phase 1**: Exploratory pilot study (May – Sept 2010, Bristol)

- **Phase 2**: In-depth interviews with cyclists (novice - exp) ‘egos’ (SNA (social network analysis) approach & social mapping) Current & childhood cycling patterns, social influence effects, cycling with children, multi-modality, barriers & enablers & gender (Oct ‘10 – Mar ‘11, Cardiff)

- **Phase 3**: Social reference focus groups with ‘alters’; family, friend/peer & colleague networks (cyclist & non) (image prompts) Perceptions of the ego’s cycling behaviour, degree of influence. (Oct ‘10 – Mar ‘11, Cardiff)
Data collection/generation process
Research locations

Exploratory study data collection phase, Bristol: April – Sept ’10
8 interviews & 2 focus groups

Main data collection phase, Cardiff: Oct ’10 – Mar ’11
34 interviews & 5 focus groups
Methodology: recruitment strategy

- Purposive sampling: via bike shops & places of work & study
- Paper flyers distributed
- Emails via ‘gatekeepers’
- Initial contact from participant:
  - Info sheet (in advance)
  - Consent form
  - Mini Questionnaire
  - Incentives & info pack
- Interview - themed semi-structured questions
- Ask if willing to take part in second stage – contacts asked for & invited to Focus Group
Research participants by age & gender (I & FG)

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More difficult to recruit younger (18 – 25) participants.
Results 1: Social influence themes 1 – direct social ties

- John, 34: “One of the immediate stimuli, was one of the bosses in work said, ‘Oh, I’ve cycled in today John’ and I was thinking, wait a minute, a fifty year old cycling in, I should be cycling in…”

- Toby, 42: “So I’ve had a couple of university friends who simultaneously got into cycling as a sport over the last 5 years. And through them we’ve cycled a lot recreationally...so definitely they have been influential.”

- Molly, 61: “Again, through my daughter. She had all this sort of information... that in some ways made it very difficult for me to say no.”

- Lucy, 26: “My housemates definitely encouraged me…”
Results 2: Social influence themes 2 – wider identification

- Ellen, 55: “So, I went up and collected it and bought it there and then because I very much felt I wanted to be identified with that sort of a, you know, road warrior kind of thing.”

- Molly, 61: “Yes; my daughter, who is a very keen cyclist and who is very green, and I tried to be green too, so she knows it’s... So yes, she persuaded me to start cycling.”

- Tristan, 37: “Bike Radar and things like that... kind of sustains you because people share experiences. And that’s been really important because it makes you feel part of a wider community of cyclists.”
Results 3: Social influence themes 3 – tipping points

- Kay, 51: “I think it was a combination of meeting someone who was into cycling, the idea of then travelling by bicycle and the thing, you know I am 30, it’s time to do a bit of exercise.”

- Tristan, 37: “...but I just didn’t do any exercise, you know, beer and cigarettes and student life, so. And that lasted for ten years really, so. It’s only when you start approaching your late twenties that you suddenly think, hang on, this can’t go on forever. (laughs) So you start thinking about getting back on the bike. So that’s I guess the process.”

- John, 34: “A fitness thing as well, cos I was getting older and feeling fatter.”
Initial results 4: Social maps
Lucy Minty, 26yr f, June 2010

- Discouraging
  - TANYA (friend)
- Encouraging
  - DAD (family)
  - MUM
  - SALLY (old housemate)
  - ANNA (old housemate)
  - ALEX (boyfriend, helps w/ repair)

Work environment
- Place to put bike - free breakfast
- UWE - cycle hub

LUCY

Emma (friend, old housemate)
HANNAH (friend)
Initial results 5: Social maps
John Chancer, 34yr m, May 2010

- cycle podcasts
- cycle blogs
- cycling clubs
- retro bike
- cycling fashion
- websites
- literature
- film
- children
- colleagues (cyclists, int.)
- anti-Natal
- colleagues (2)
- non cyclists
- int.
Emerging findings

- People don’t have any/many discouraging or negative influences – why?

1. May selectively remember (cognitive dissonance)
2. Spend more time on positive things which reinforce our existing behaviour (Kelly – personal construct theory)
3. Only those who have a pre-disposing social circle of influence / social norms do cycle

“I like to persuade myself that my approach to cycling is relatively individual and rational” Neil Webster, 6/12/10, Cardiff
Methodology: pro’s & con’s of approach

- Volume and diversity of data; transcripts, diary notes, social maps – but how best to show such data?

- Flexible/novel design & interview structure enables adaptation & improvement throughout

- Difficulties of moving to FG stage/gaining social contacts

- Reluctance may be due to: Not wanting to be discussed, Not wishing to ‘inconvenience’ others – psychological risk? Hassle/time/practical difficulties (have captured some of the reasons given)

- Potential ways to increase: using a more pro-active approach on flyers/emails, having smaller groups/paired interviews, asking for contacts at the stage of social mapping
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**Example contact sheet - Interviewee 7: Ellen Fowler**

*University of the West of England*

*Centre for Transport & Society*
Summary / Conclusions

- Gender and social influence do seem to be significant factors in cycling, difficult to detect & define. Need to examine the overlaps of gender & gender and cycling.

- Chosen methodology can make a contribution to knowledge in this area but data access is challenging.

- Further investigation into cyclists social sphere/social mapping needed.

- Social influence mechanisms may have a gender dimension (women influencing women/FG).
Thank you for listening

- Any questions?

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References

References