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1999 to 2009: Re-evaluating Secured by Design (SBD) Housing in West Yorkshire

Leanne Monchuk and Dr. Rachel Armitage

This presentation...



- Presents the findings of a re-evaluation of SBD housing in West Yorkshire
- Conducted early 2009
- Funded by University of Huddersfield, ACPO CPI Ltd and West Yorkshire Police – entirely independent
- Based upon evaluation of SBD conducted in 1999 (Armitage, 2000)
- Other research conducted by the Applied Criminology Centre

Content of the presentation



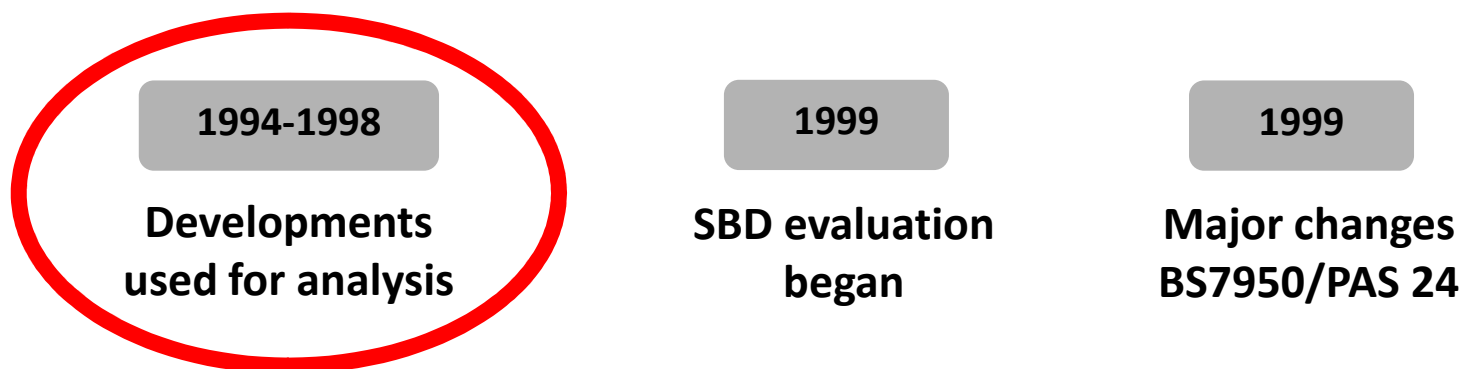
- Why re-evaluate?
- What we did
- What we found
- Conclusions
- Recommendations

Why re-evaluate?

- 3 reasons.....
 - 1) June 2008, Quaver Lane in Bradford become 10,000th SBD property to be built in West Yorkshire
 - 2) 2009 marked 10 year anniversary of original evaluation
 - 3) Need to update sample utilised in 1999 evaluation

Updating the Sample

- Original evaluation looked at 25 SBD and 25 non-SBD estates spread throughout West Yorkshire and began in **1999**



The 1999 sample of SBD properties used did not include these changes

Therefore....

the original sample **did not** represent an
accurate reflection of SBD in 2009

2009 Re-evaluation

What we did...

- Police recorded crime data
- **FOUR** levels of analysis:

1) SBD v the whole of West Yorkshire

2) Same street analysis

3) Matched pair analysis

4) Re-evaluating original sample

- Questionnaires sent to residents (self-recorded crime data)
- Visual audit

Police Recorded Crime Data

1) WHOLE OF WEST YORKSHIRE

| | |
|------------|--|
| SBD | Built April 2006- March 2007 <ul style="list-style-type: none">• 16 developments• 342 properties |
|------------|--|



| | |
|----------------|---|
| Non-SBD | West Yorkshire 867,885 properties |
|----------------|---|

2) SAME STREET

| |
|--|
| Built April 2006- March 2007 <ul style="list-style-type: none">• 11 developments• 101 properties |
|--|



| |
|---|
| • 11 developments • 354 properties |
|---|

3) MATCHED PAIRS

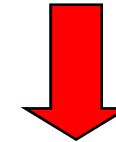
| |
|--|
| Built April 2006- March 2007 <ul style="list-style-type: none">• 16 developments• 342 properties |
|--|



| |
|---|
| • 16 developments • 253 properties |
|---|

4) RE-EVALUATING ORIGINAL SAMPLE

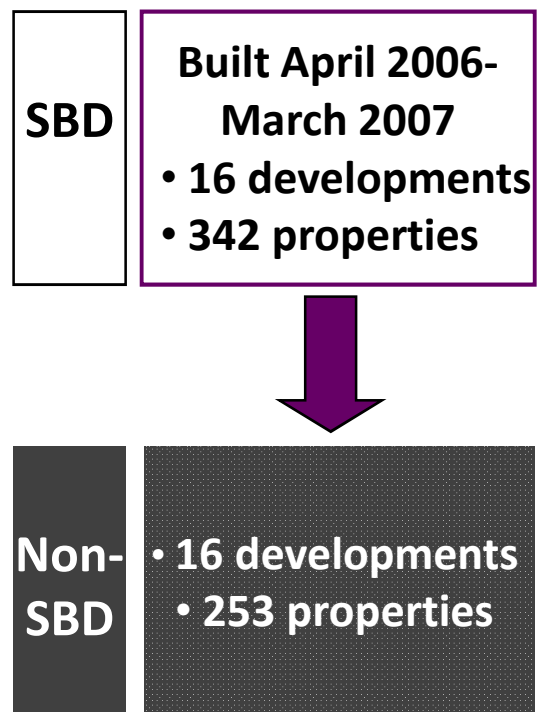
| |
|--|
| <ul style="list-style-type: none">• 2 developments• 36 properties |
|--|



| |
|---|
| • 2 developments • 42 properties |
|---|

Self-reported crime data

3) MATCHED PAIRS



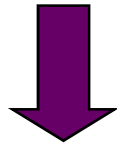
**11% response
rate**

Visual Audits

3) MATCHED PAIRS

SBD

- Built April 2006-
March 2007
- 16 developments
 - 342 properties



**Non-
SBD**

- 16 developments
- 253 properties



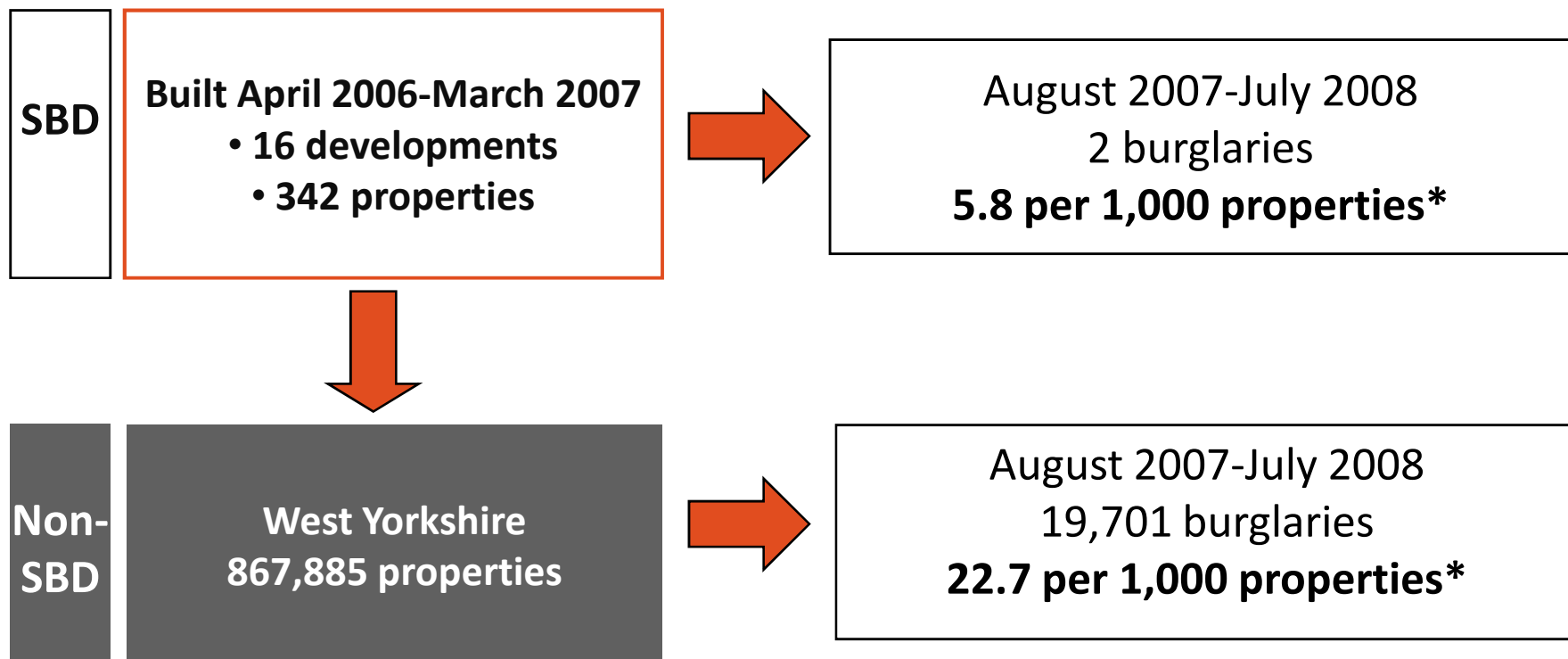
Visual Audit Schedule



Findings...

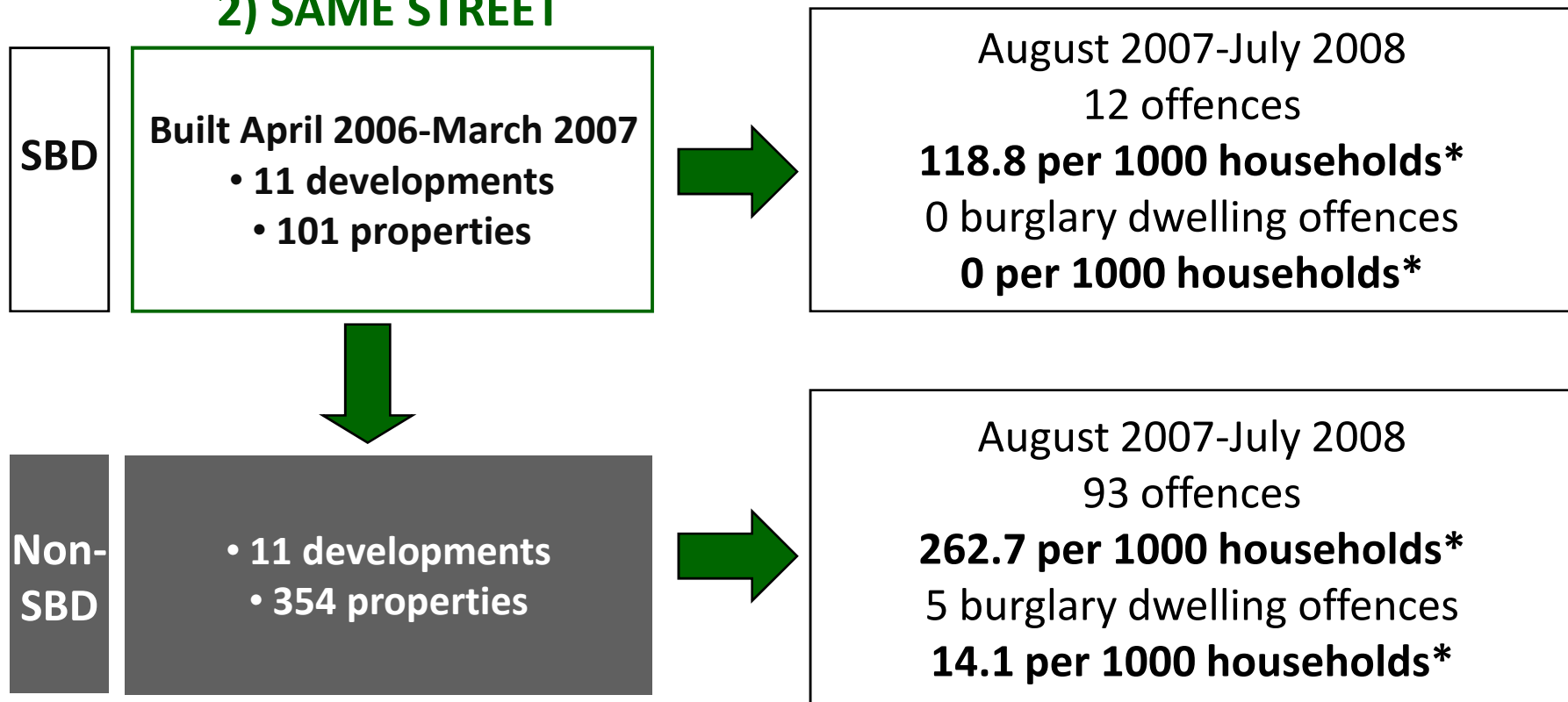
1) SBD v whole of West Yorkshire

1) WHOLE OF WEST YORKSHIRE



2) SBD against Same Street

2) SAME STREET

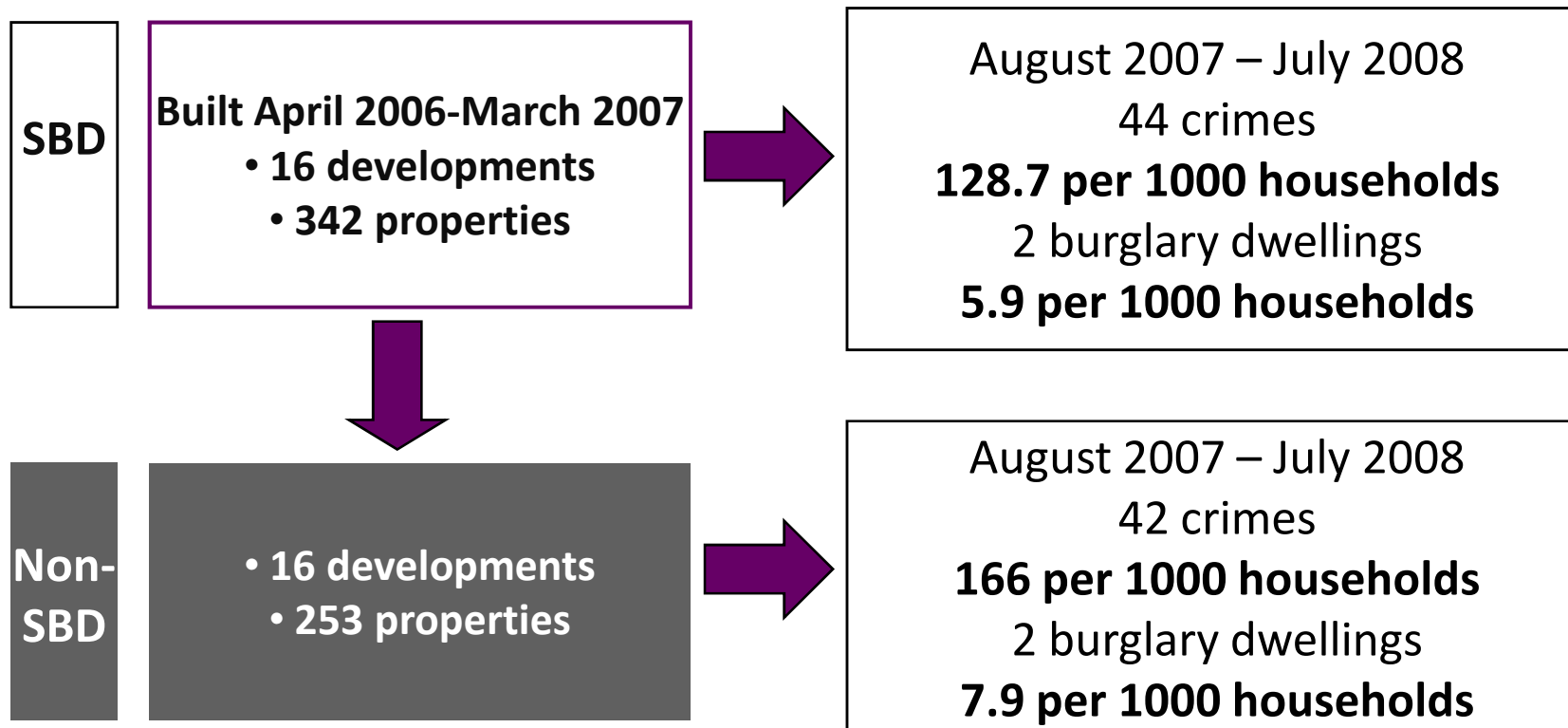


Crime Categories recorded within the 'Same Street' sample

| | Non SBD | | SBD | |
|-------------------------|-----------|--------------|-----------|--------------|
| Crime Type | No. | Rate | No. | Rate |
| Assault | 24 | 67.8 | 0 | 0.00 |
| Criminal Damage | 12 | 33.9 | 4 | 39.6 |
| Burglary Other | 7 | 19.8 | 2 | 19.8 |
| Burglary Dwelling | 5 | 14.1 | 0 | 0.00 |
| Theft from vehicle | 7 | 19.8 | 0 | 0.00 |
| Theft of vehicle + twoc | 3 | 8.5 | 0 | 0.00 |
| Other | 35 | 93.2 | 6 | 59.4 |
| TOTAL | 93 | 262.7 | 12 | 118.8 |

3) SBD and non-SBD Matched Pairs

3) MATCHED PAIRS



Crime Categories recorded within the 'Matched Pairs' sample

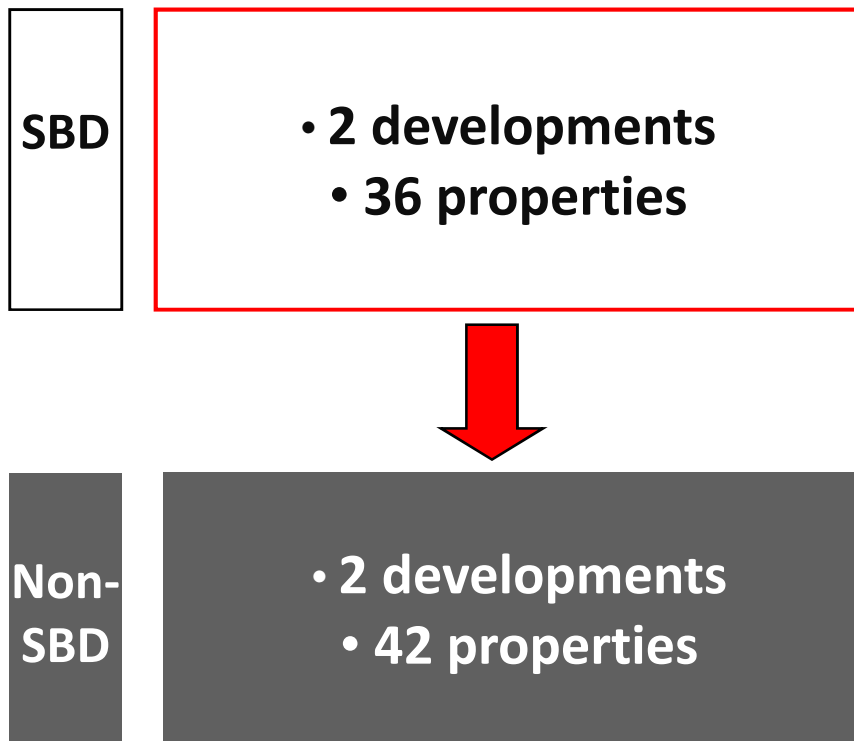
| | Non SBD | | SBD | |
|-------------------------|-----------|--------------|-----------|--------------|
| Crime Type | No | Rate | No | Rate |
| Assault | 7 | 27.7 | 17 | 49.7 |
| Criminal Damage | 12 | 47.5 | 8 | 23.4 |
| Burglary Other | 1 | 4.0 | 2 | 5.9 |
| Burglary Dwelling | 2 | 7.9 | 2 | 5.9 |
| Theft from vehicle | 1 | 4.0 | 2 | 5.9 |
| Theft of vehicle + twoc | 0 | 0 | 3 | 8.8 |
| Other | 19 | 75.1 | 9 | 26.3 |
| Total | 42 | 166.0 | 44 | 128.7 |

Self-Reported Crime Data

- Questionnaire responses low: **11%**
- SBD respondents experienced less crime than non-SBD

Re-evaluating Original 1999 Sample

4) RE-EVALUATING ORIGINAL SAMPLE



1999 – 2009: Matched Pair One

| | No. of properties | Number of Crimes 1999/2000 | Crime Rate per 1000 in 1999/2000 | Number of Crimes 2007/2008 | Crime Rate per 1000 in 2007/2008 |
|----------------|-------------------|----------------------------|----------------------------------|----------------------------|----------------------------------|
| SBD Street | 14 | 1 | 71.43 | 1 | 71.43 |
| Non-SBD Street | 14 | 1 | 71.43 | 8 | 571.43 |

SBD performs better than (or same as) non-SBD for both time periods

1999 – 2009: Matched Pair Two

| | No. of properties | Number of Crimes 1999/2000 | Crime Rate per 1000 in 1999/2000 | Number of Crimes 2007/2008 | Crime Rate in 2007/2008 |
|----------------|-------------------|----------------------------|----------------------------------|----------------------------|-------------------------|
| SBD Street | 22 | 1 | 45.45 | 3 | 136.36 |
| Non-SBD Street | 28 | 5 | 178.57 | 6 | 214.29 |

SBD performs better than non-SBD for both time periods

Visual Audits



Inspiring tomorrow's professionals

Conclusions

- Variety of methods and datasets to establish:
 - Whether SBD properties experience less crime than non-SBD properties
 - Whether residents living in SBD properties have lower levels of fear of crime than non-SBD counterparts
 - Whether SBD developments show less visual signs of disorder than non-SBD developments
 - Whether SBD has maintained its effectiveness as a crime reduction measure

Conclusions

1. SBD versus 'West Yorkshire'

- Burglary rates are lower within the SBD sample (5.8 per 1000 households compared to 22.7)
- All crime categories lower in SBD sample

2. SBD versus non-SBD 'Same Street'

- Burglary rates are lower within the SBD sample (0 burglaries per 1000 households compared to 14.1)
- All crime categories (with exception of criminal damage) lower in SBD sample

3. SBD versus non-SBD 'Matched Pairs'

- Burglary rates are lower within the SBD sample (5.9 burglaries per 1000 households compared to 7.9)
- Assault, vehicle crime and burglary other higher in SBD sample

Conclusions

4. 1999 versus 2009

- For both matched pairs SBD was performing either the same or better than non-SBD in both time periods of 1999/2000 and 2007/08
- Pair one sustained crime reduction, non-SBD saw crime increase; pair two – SBD saw crime increase at a greater rate than non-SBD
- **Self-Reported Crime**
 - For all crime categories, the proportion of SBD respondents experiencing the crime was lower in the SBD sample
- **Visual Audits**
 - SBD sample scored lower than non-SBD sample

Conclusions

- SBD has continued to reduce crime and the fear of crime and SBD estates show less signs of visual disorder
- The effectiveness of SBD developments built more recently has exceeded that shown in the original evaluation

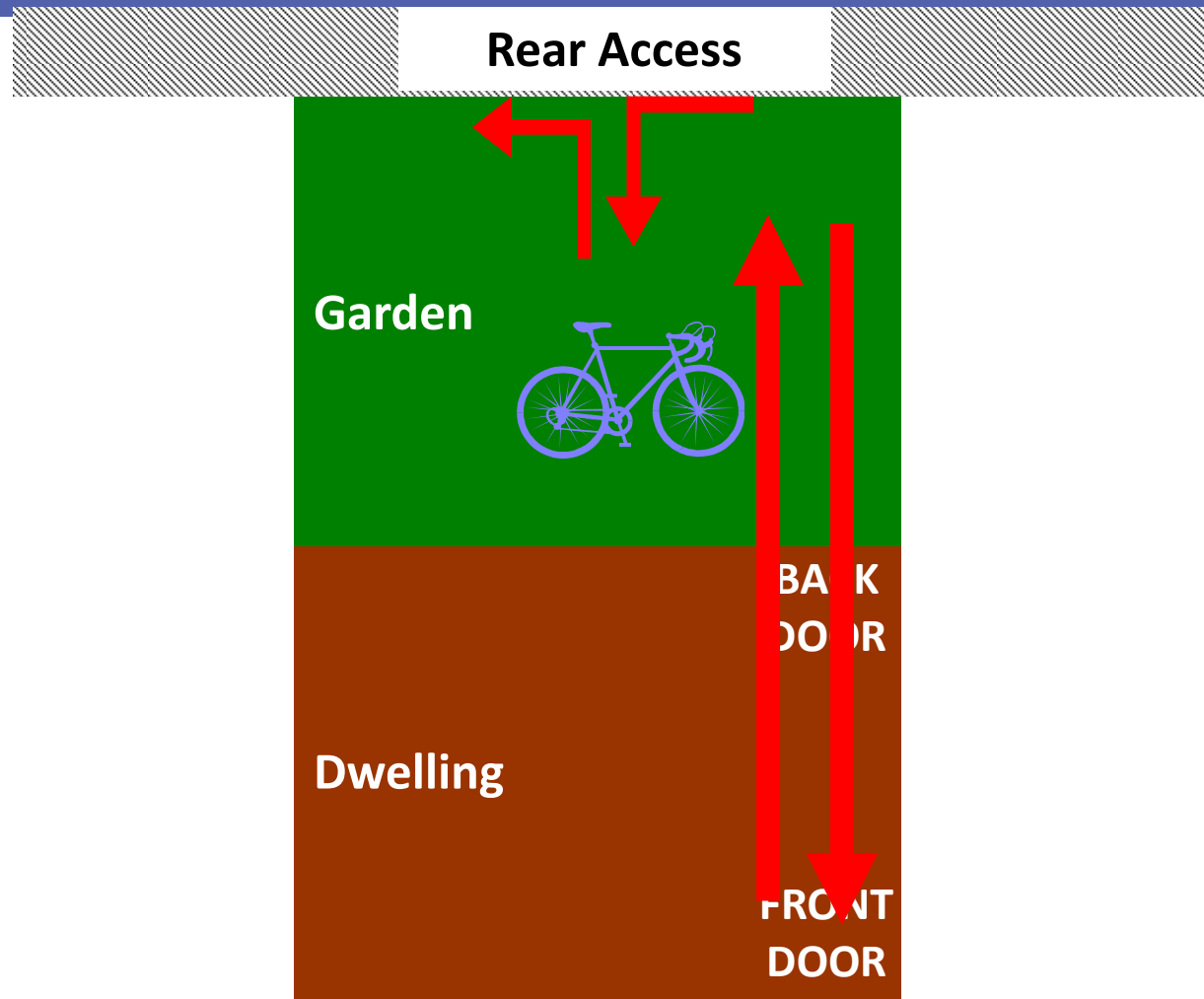
Other research...

Sustainability via Security: Aligning the Agendas



- Funded by ACPO SBD
- Aimed to identify existing or potential tensions between the aims of sustainable **and** secure housing design

Sustainability via Security



Other research...



Residential Design and Crime

- Funded by the Home Office and managed by CABE
- Aimed to clarify some of the confusion regarding particular design features and their impact upon crime.
- The extent to which developments considered to be good practice examples of design quality offer crime reduction benefits.

Thank-you for listening

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