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Crime Prevention through Environmental Design (CPTED) and Secured by Design (SBD): What Works?

Professor Rachel Armitage
Director: Secure Societies Institute









Crime Prevention through Environmental Design (CPTED)

What is it?









A method of reducing crime through the design and manipulation of the built environment (planning stage)

Houses

Schools

Hospitals

Commercial

Railway stations









Here comes the theory...

- Opportunity theories (Rational Choice Theory, Routine Activity Theory and Crime Pattern Theory).
- Opportunities play a <u>role</u> in influencing crime.
 - For a crime to occur there has to be a suitable target, a likely offender and the absence of a capable guardian.
 - Offenders select targets based upon what they become aware
 of as they go about their daily activities and move between
 places.
 - Offenders seek to maximise the **benefits** and minimise the **risks** of offending.









CPTED aims to block those opportunities through the design of the environment so that:

- Offenders are less likely to 'pass by' your house as part of their day-to-day activities.
- If they do, the design and layout of your house and surrounding properties will influence their 'perceptions' of risk.
- If they are not deterred by the perceptions of the risk of being noticed/challenged, they will find physically overcoming the security too difficult.









Creating Defensible Space

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Use of design to create **symbolic barriers** that portray the message that an area is private.







Limiting through movement

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Less opportunities to **notice** the house.

Less access/escape routes.





Offenders are more likely to be **observed** (or feel like that are being observed) by neighbours and/or passers by.





Management and maintenance

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The area is well maintained giving the impression that **people care** and would challenge the offender if observed.



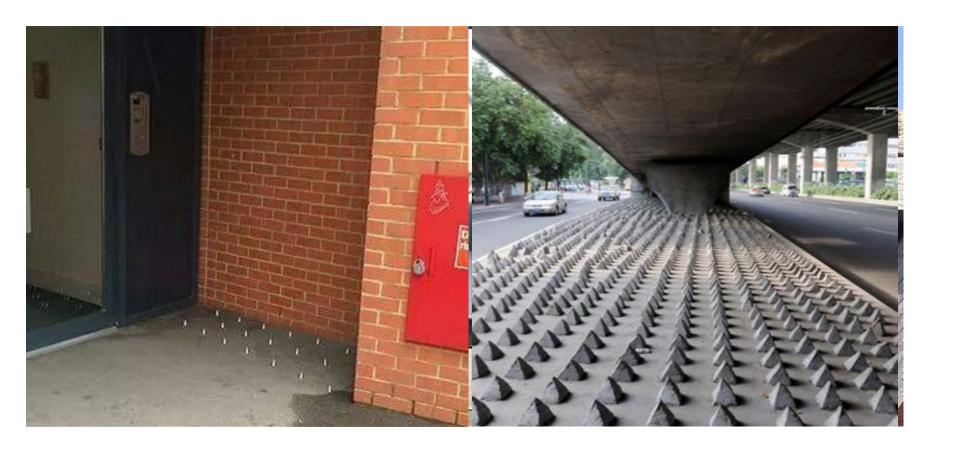




Standards of physical security

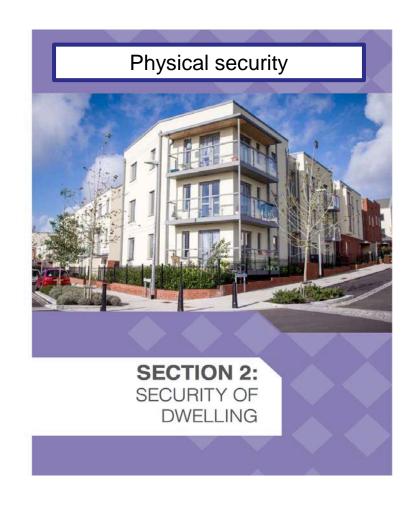


	The house is difficult to get into . Doing so would take time and would be likely to raise suspicion.	
_		



Secured by Design: Standards based on principles of CPTED Huddersfield





Implementing CPTED/SBD in the UK









How is CPTED delivered in England and University of HUDDERSFIELD



- Each police force has ALO/CPDA/DOCOs.
- Traditionally warranted police, but move towards civilian role (GMP).
- Police station/local authority planning dept.
- Review planning applications, advice on crime risk, deliver SBD, influence planning policy/strategy.
- Jan 2009 347
- Nov 2014 125

The Delivery of CPTED/SBD - What works?









What works (and doesn't) - delivery



It's an open plan office. It's hot seating. Half the time you'll go in you'll find somebody sitting in your seat and you haven't got the table space. I have to work at home. I have the

Architects' plans spread out on the lounge carpet. That's the only way I can do it.

Convincing others of the importance of CPTED **Convincing others of the importance of Huddensfield** **Convincing others of the importance of the im

It takes a long time for any benefits to become apparent.

_ It's not sexy. You don't go there on a blue light.

bec promotion between Inspector

- A and Chief Inspector so they are not

interested in it.

apparent

It's boring – it's not sexy!

CPTED/SBD – Individual elements of Design What works?

Police recorded crime



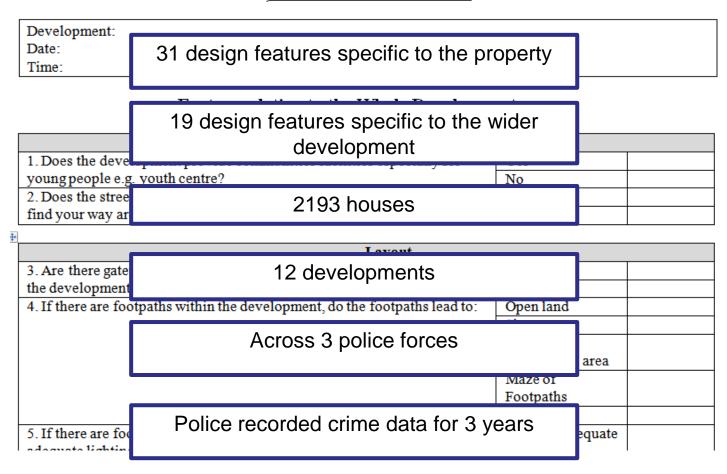






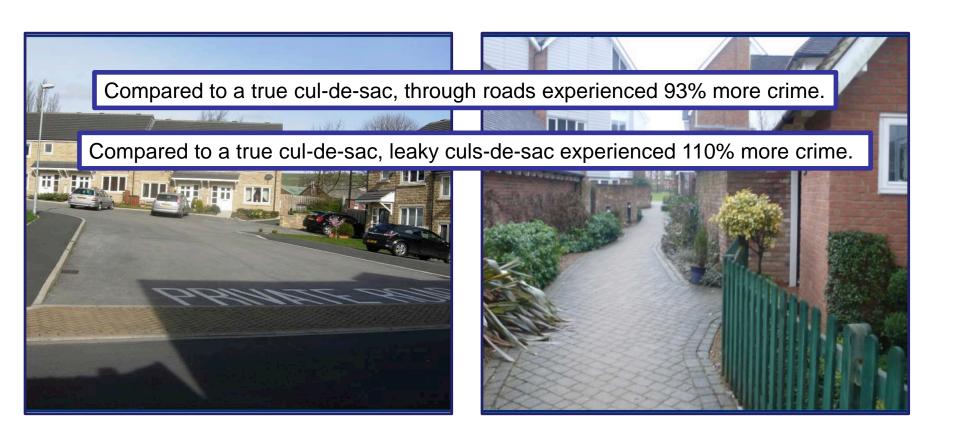
Which design features influence crime? Huddersfield

Design Features Checklist



Through movement





Road layout

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Surveillance

University of HUDDERSFIELD





European Journal on Criminal Policy and Research

March 2011, Volume 17, <u>Issue 1</u>, pp 29–54

It Looks Good, but What is it Like to Live There? Exploring the Impact of Innovative Housing Design on Crime

Authors Authors and affiliations

Rachel Armitage , Leanne Monchuk, Michelle Rogerson









CPTED/SBD – Individual elements of Design What works?

Offender decision making









What works...in the words of the offender? Huddersfield

- 22 adult prolific burglars currently serving a prison sentence (Whealston, Armley, Newhall).
- 16 photographs:

"From what you can see from the photo, can you describe what would <u>attract</u> you to this property when selecting a target for burglary"

"From what you can see from the photo, can you describe what would <u>deter</u> you (put you off) from selecting this property as a target for burglary"

The principles of CPTED

Surveillance









Secured by Design New Homes



"For the majority of housing developments, it will be desirable for dwelling frontages to be open to view, so walls, fences and hedges will need to be kept low"

"Planting should not impede the opportunity for natural surveillance".

"Dwellings should be <u>positioned facing each other</u> to allow <u>neighbours</u> <u>to easily view</u> their surroundings".











Surveillance – don't like clear visibility

This is a burglar's dream house!
The hedge is high and blocks the view from the road. The gate is so high, no-one can see you and the busy road masks any noise that I make.

Open fences would put me off.

This would be a perfect target.

Passers by can't see in so
they wouldn't notice you
breaking in. The high gate and
hedges block the view so noone can see what is going on
inside.

I'd feel more
exposed
if the walls and
fences
were lower.

Surveillance – don't like houses facing the street

I'd keep away – wouldn't want anything to do with that. They could be gawping out the windows – you only need one of them on that street

Surveillance – don't like the true cul-de-sac

I wouldn't target houses on a cul-de-sac because you feel trapped and it's difficult if someone challenges you.

They might say 'what are you doing?' and you say you are lost and then you have to walk back out the way you came in and they are looking at you.

If it's a cul-de-sac then it's usually one way in, one way out. You'd be stupid to do a cul-de-sac.

The principles of CPTED

Physical security









Secured by Design New Homes

University of HUDDERSFIELD

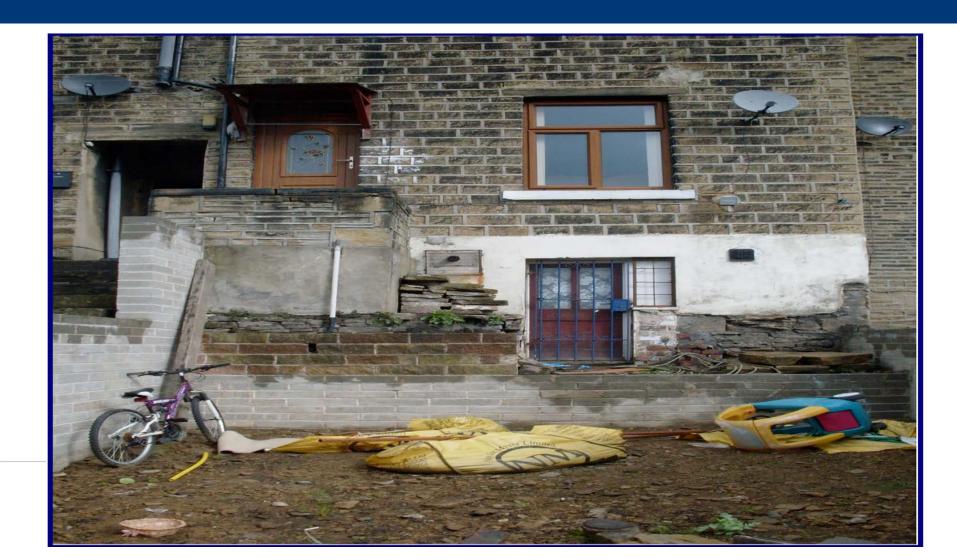
Physical security – Part 2 of SBD











Physical security – don't like good quality locks

Yes, I can tell by looking at the lock that it would be easy to snap.

Having mole grips is like having the key to the door!

The hinges are on the outside of that door for God's sake, it's a 3 minute job. It's a cheap arse door that one!

This lock can
easily be molegripped. You can
tell because it's
thin. The new ones
are chunkier.

If manufacturers know that we can mole grip a lock, why don't they change that lock to make it harder to break in?

I would snap the cylinder on the side door – it's a really poor design is that door.

Physical security – not deterred by burglar alarms

Good alarms like *** don't stop when you pull them off the wall.

The cheap ones do!

Physical security – attracted to excessive security

The security grille makes me think there's something worth taking.

The principles of CPTED

Through movement









Secured by Design New Homes

University of HUDDERSFIELD

"Whilst it is accepted that <u>through routes</u> will be included within development layouts, the designer must ensure that the security of the development is <u>not compromised by excessive</u> <u>permeability."</u>

"Footpaths linking culs-de- sac to one another can be particularly problematic, and in such cases the layout may need to be reconsidered."











Through movement - gives them legitimacy

Yes, this is perfect! Easy pickings. I would first walk up and down this footpath. No-one would give me a second glance. Even if I was a tramp walking up and down I wouldn't look out of place — it's a footpath, no-one can question you.

If I was in there and the police came I would be boxed in and wouldn't have an excuse for being in there. I couldn't say 'I'm just walking home Officer'

Through movement – allows them to evade police

The appeal of a footpath is that you know how you are getting in and how you escape

Having ginnels on an estate is great, cos you know the area better than the police, you'll easily lose them. You know the routes!

Those ginnels and footpaths are more or less an escape route.

Burglars like footpaths, it makes it easy as the police can't get there easily

Through movement - don't have to retrace their steps

On a cul-de-sac, you have to walk back out the way you came in.

If it's a cul-de-sac it's usually one way in, one way out.
You'd be stupid to do a cul-de-sac.

I wouldn't go further into the cul-de-sac. There is no reason to be on a cul-de-sac unless you live there. You aren't going anywhere so you are a stranger. If it's a through road you can just keep walking through.

The principles of CPTED

Defensible space









Secured by Design – New Homes

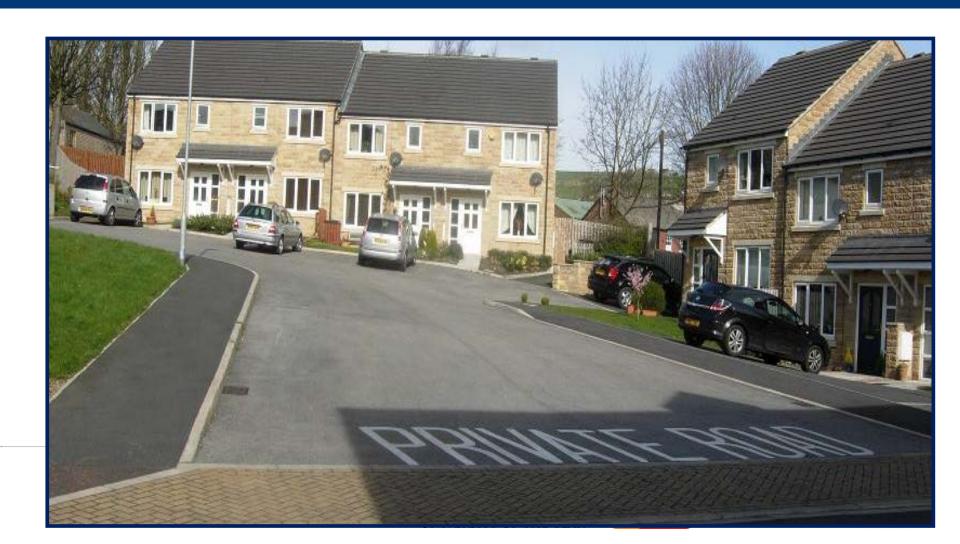
"Where it is desirable to limit access/use to residents and their legitimate visitors, features such as <u>rumble strips</u>, <u>change of road surface (by colour or texture)</u>, <u>pillars</u>, <u>brick piers or narrowing of the carriageway</u> may be used".











Defensible space – don't like feeling that everyone knows each pothser D

If a burglar had anything about them they'd know that all the people that live in those houses know each other and would be chatting to each other.

I wouldn't go up this street it's far too open.

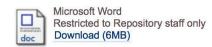
People living here will have a bee in their bonnet. This is a private road for private people. I would feel awkward here. It's all about the bluff and I couldn't pull it off here.

Everyone that lives there will be focused on the entrance and what goes on. They'll all know each other, keep an eye out for each other, give the key to the coal man – that sort of thing.



"Why my house?" – Exploring the influence of residential housing design on burglar decision making.

Armitage, Rachel and Joyce, Chris (2016) "Why my house?" – Exploring the influence of residential housing design on burglar decision making. In: Rebuilding Crime Prevention through Environmental Design (CPTED. Routledge, Oxford, UK. (In Press)







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Author Corner









Evaluating the effectiveness of SBD Does it work?

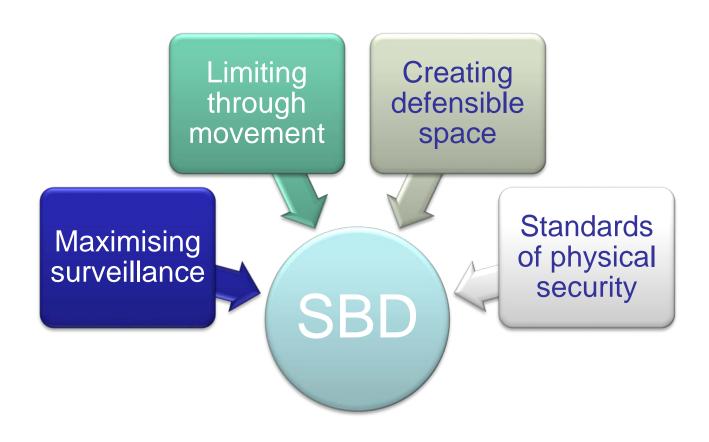




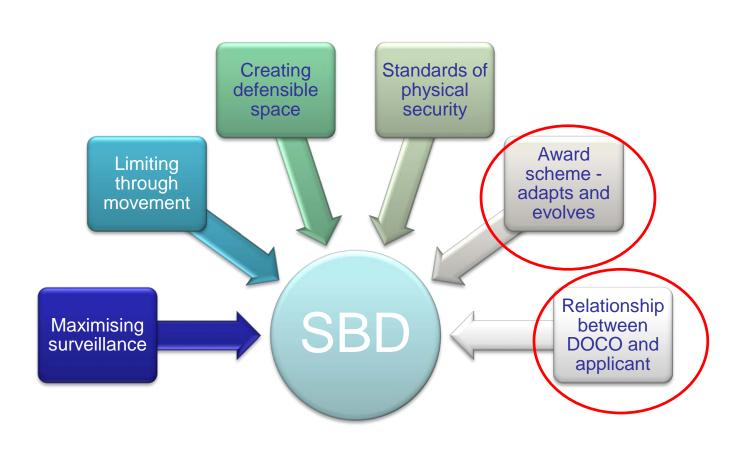




SBD is based on CPTED but... CPTED is not SBD



SBD is based on CPTED but... CPTED is not SBD

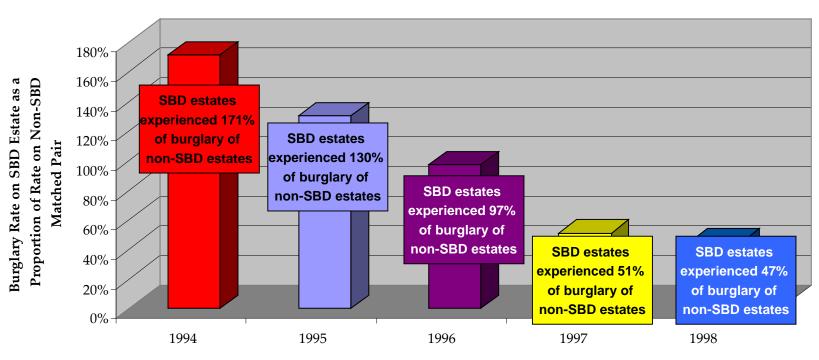


Evaluating Secured by Design (as a scheme)

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Evaluation	Key findings	Issue/problem
Armitage 2000	-55% reduction in crime (refurbs) -Burglary 71% higher NSBD -Total crime 34% higher NSBD -Self reported burglary 8.4% (NSBD), 2.9% (SBD)	Sample built 1994- 1998
Pascoe 1999	Burglary 31% higher NSBD	Sample built pre- 1999
Brown 1999	SBD 40% fewer burglaries/vehicle crime	Sample built pre- 1999
Teedon and Reid 2009	SBD total housebreaking fell 61% NSBD fell 21%	Just Part 2 (windows and doors)

SBD as an Evolving Standard



Year Estate was Built









Evaluation of Secured by Design in West Yorkshire

Armitage and Monchuk (2009)

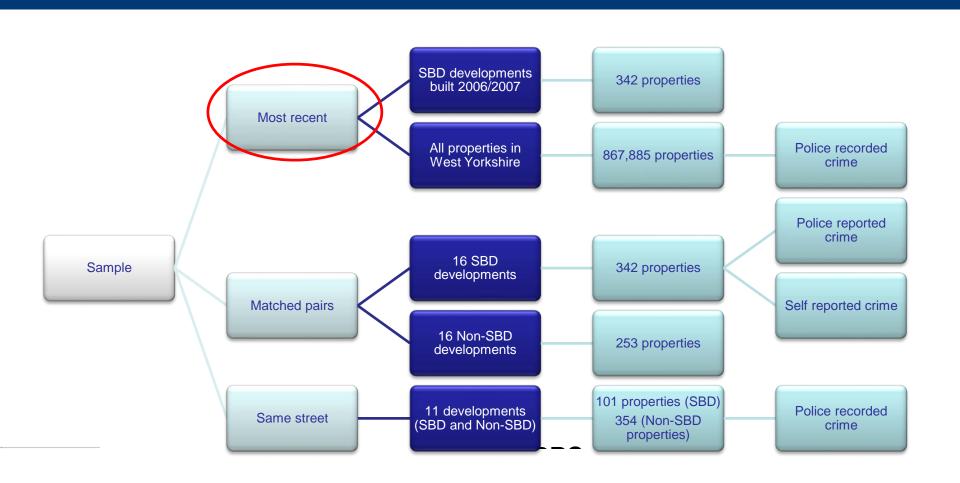








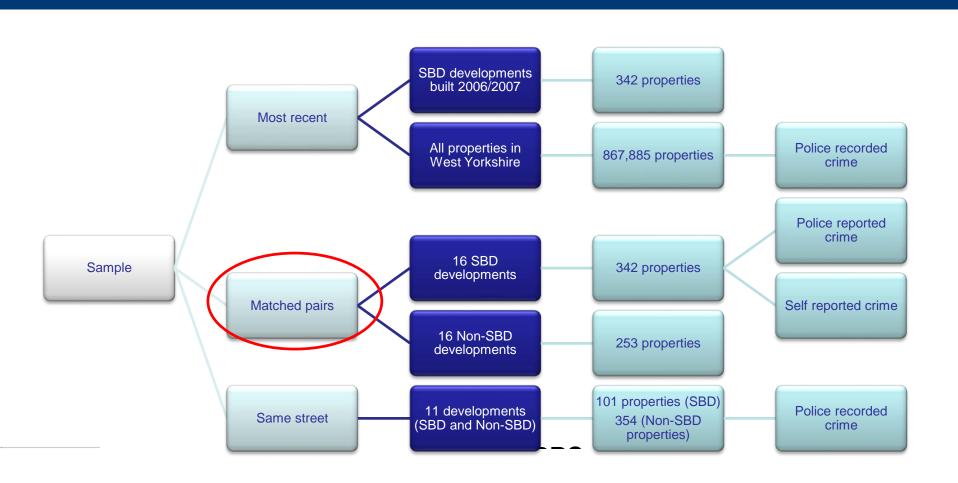
Secured by Design in West Yorkshire (2009) HUDDERSFIELD



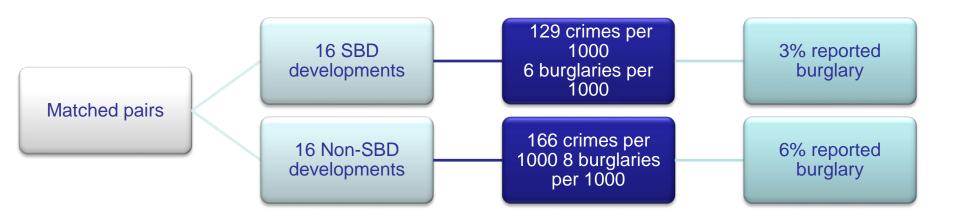
Secured by Design in West Yorkshire (2009) HUDDERSFIELD



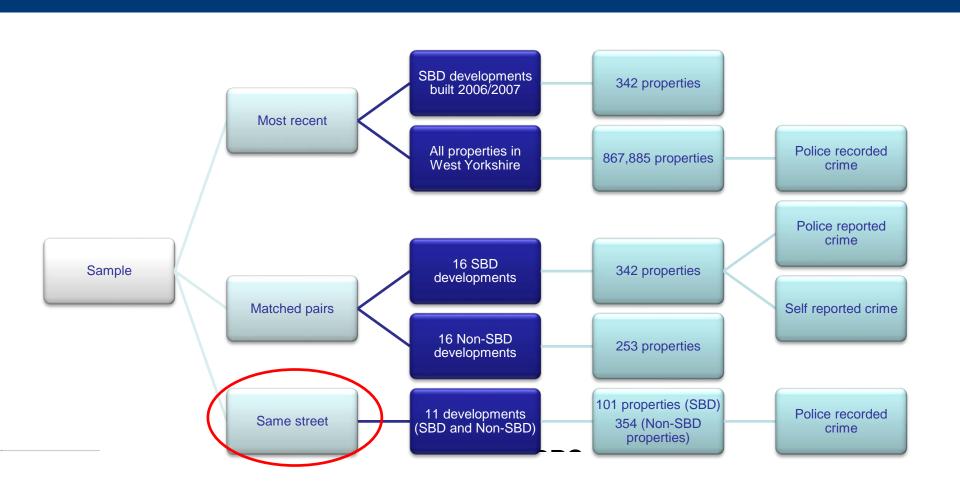
Secured by Design in West Yorkshire (2009) Huddensfield



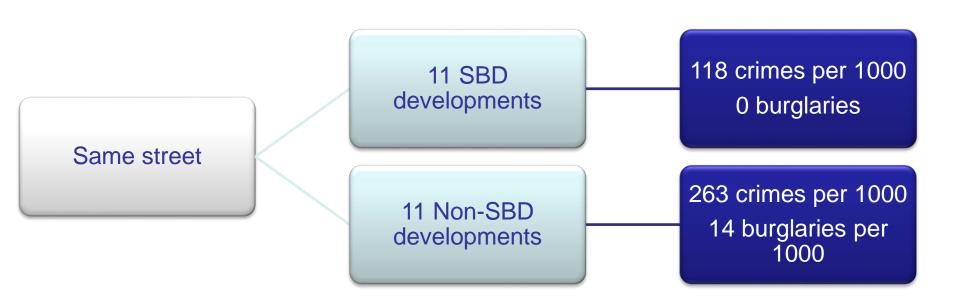
Secured by Design in West Yorkshire (2009) Huddensfield



Secured by Design in West Yorkshire (2009) HUDDERSFIELD



Secured by Design in West Yorkshire (2009) Huddensfield





Sear

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Security Journal

October 2011, Volume 24, <u>Issue 4</u>, pp 320–343

Sustaining the crime reduction impact of designing out crime: Re-evaluating the Secured by Design scheme 10 years on

Authors

Authors and affiliations

Rachel Armitage , Leanne Monchuk



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Inspiring tomorrow's professionals

What does it cost?

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Upper floor apartment

Ground floor apartment 2/3 bedroom detached house

4 bedroom detached house

£70

£240

£170

£200









Two ongoing projects



- Evaluation of SBD in Hertfordshire & Devon/Cornwall
 - Built between 2011 and 2014.
 - Crime and ASB
- What Works Review of SBD (led by UCL).
 - Systematic review of all evidence on SBD
 - Guided by EMMIE











Thank-you

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