

#### Design Against Crime as Socially Responsive Design "Theory and Practice"

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#### Presentation to Incoming Phd Students, October 2009

Design Against Crime Research Centre







The Grippa research programme, mainly funded by AHRC, is a collaboration between the Design Against Crime Research Centre, Central Saint Martins College of Art & Design, University of the Arts London, and the UCL Jill Dando Institute of Security and Crime Science. Papers and other materials from the programme are at <a href="https://www.grippaclip.com">www.grippaclip.com</a> and wider practical and research material on preventing bag theft at <a href="https://www.inthebag.org.uk">www.inthebag.org.uk</a>

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### 1. Introducing DACRC







### 1. Introducing DACRC: Aims

- To reduce the incidence and adverse consequences of crime through design of products, services, communications and environments that are 'fit for purpose' and contextually appropriate.
- To equip design practitioners with the cognitive and practical tools and resources to design out crime.
- To prove and promote the social and commercial benefits of designing out crime to manufacturing and service industries, as well at to local and national government, and society at large.
- To address environmental complicity with crime in the built environment and to improve well being.

#### 2. DAC Philosophy

'Things' as well as people cause problems.

DAC draws upon design thinking (is the problem really "the" problem?);

also on the theory of Situational Crime Prevention (SCP) which considers 'opportunitie(sinked to objects / environments and services as well as users and abusers) to be the 'root causes' of crime.

Design out criminal opportunities and you can design out crime.

But, how and why you do this is the crux.

#### 2. DAC Philosophy

We target crime problems that stand as a barrier to the progress of social and ethical agendas.

National / Regional / Local - "Context is everything".

Our current focus has been on bag theft (mobile property theft) that detracts from enjoyment of public spaces/public transport, and bike theft that detracts from cycle use.

Our socially responsive design focus is currently looking at furniture, graffiti and shoplifting.

#### 3. DAC Drivers

- Economic
- Ecological
- Emotional
- Environmental



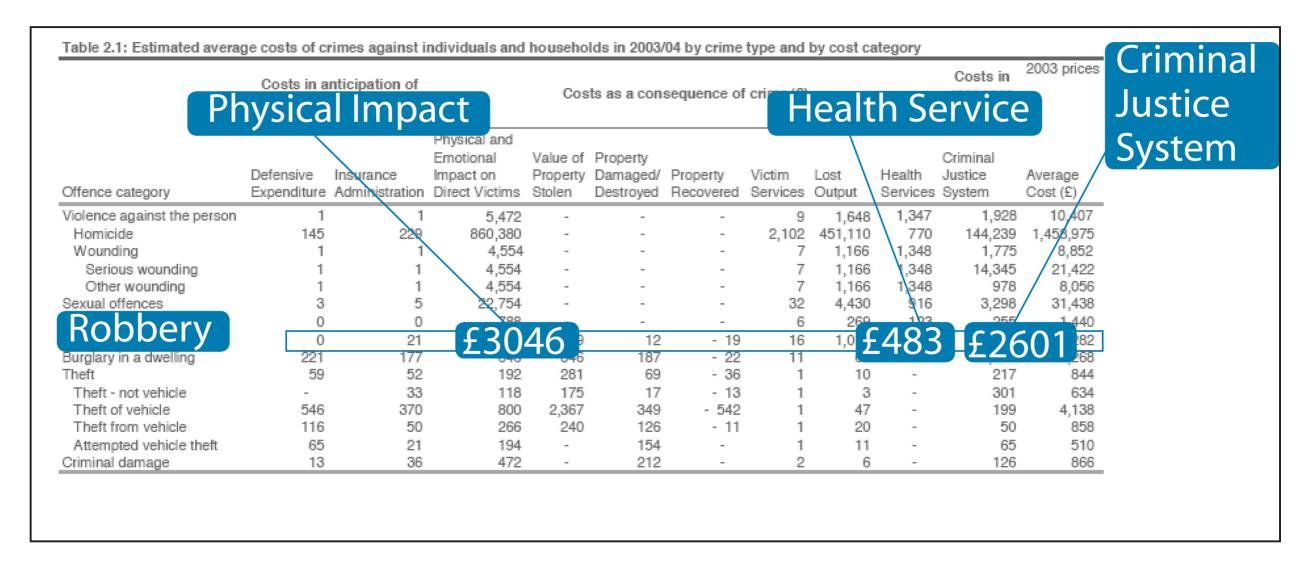






#### 3. DAC Drivers: Economic

Money spent on policing crime and dealing with the consequences of crime and vandalism could be better spent on essential infrastructure (health, education, transport and culture).



http://homeoffice.gov.uk/rds/pdfs05/rdsolr3005.pdf

### 3. DAC Drivers: Ecological

Theft and insurance replacement / upgrade drives consumption and contributes to premature obsolescence.





#### 3. DAC Drivers: Emotional

Fear produces fortress architecture.



#### 3. DAC Drivers: Emotional

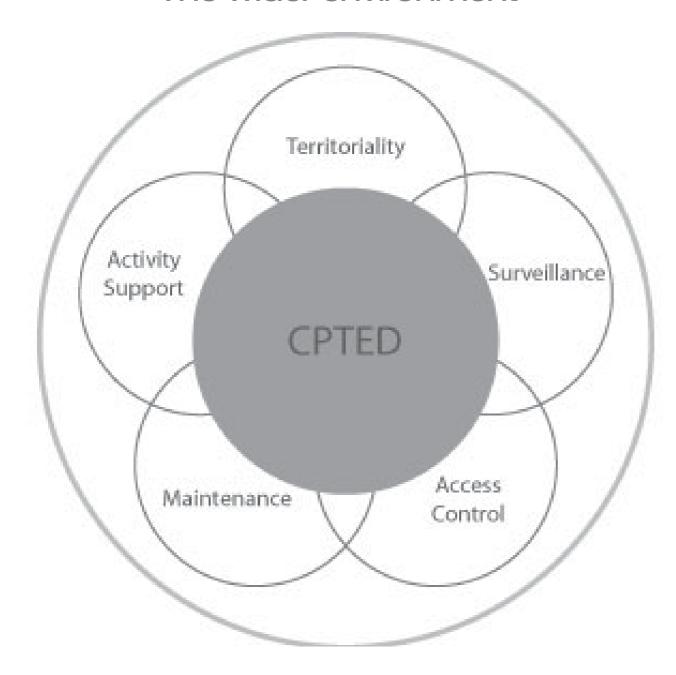
Crime militates against well being. Prof. Layard (LSE) argues if we don't feel safe we are unlikely to feel happy despite economic prosperity.





#### 3. DAC Drivers: Environmental

The wider environment



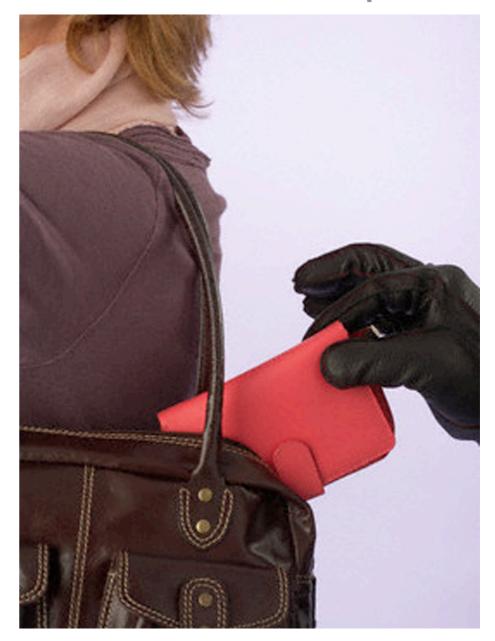
DACRC takes user-centred design model (IDEO 1991) and extends it to cover mis-use and abuse.

We look at

the user experience



and the abuser experience

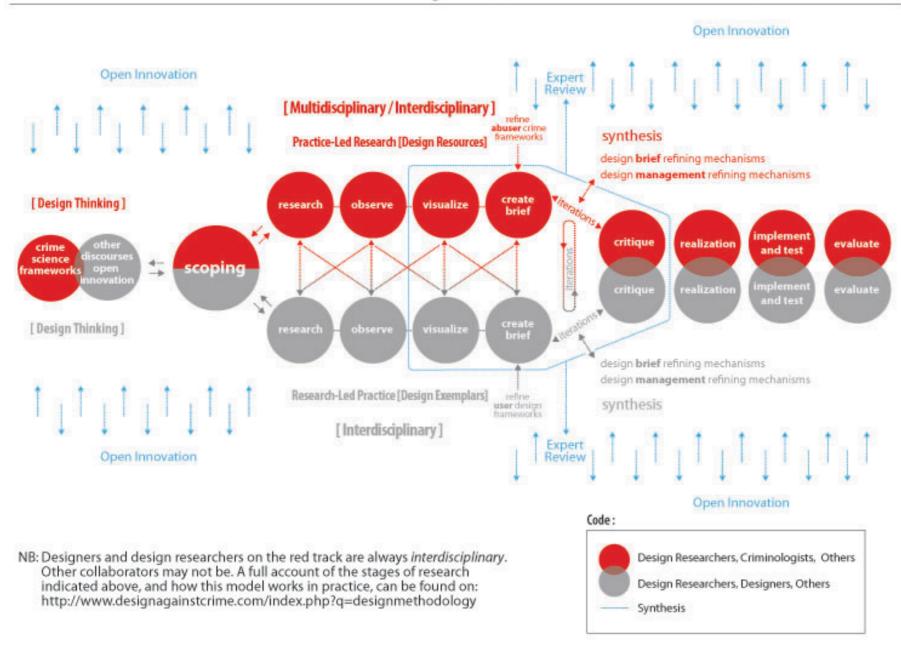


We bring together researchers, designers, architects, planners, criminologists, engineers, manufacturers, anthropologists, the police and others whose lives our designs impact upon. They help develop design questions and review design proposals/design tools to ensure they are effective and appropriate.

Our working process has 2 strands. Each strand has 7 stages.

Design Against Crime Evolved Twin Track Model of the Iterative Design Process

[Gamman & Thorpe 2007, revised 2009 for Bikeoff]



Our model can be summarised as:

- Scope and Consult
- Research and Create
- Create and Consult
- Create and Test

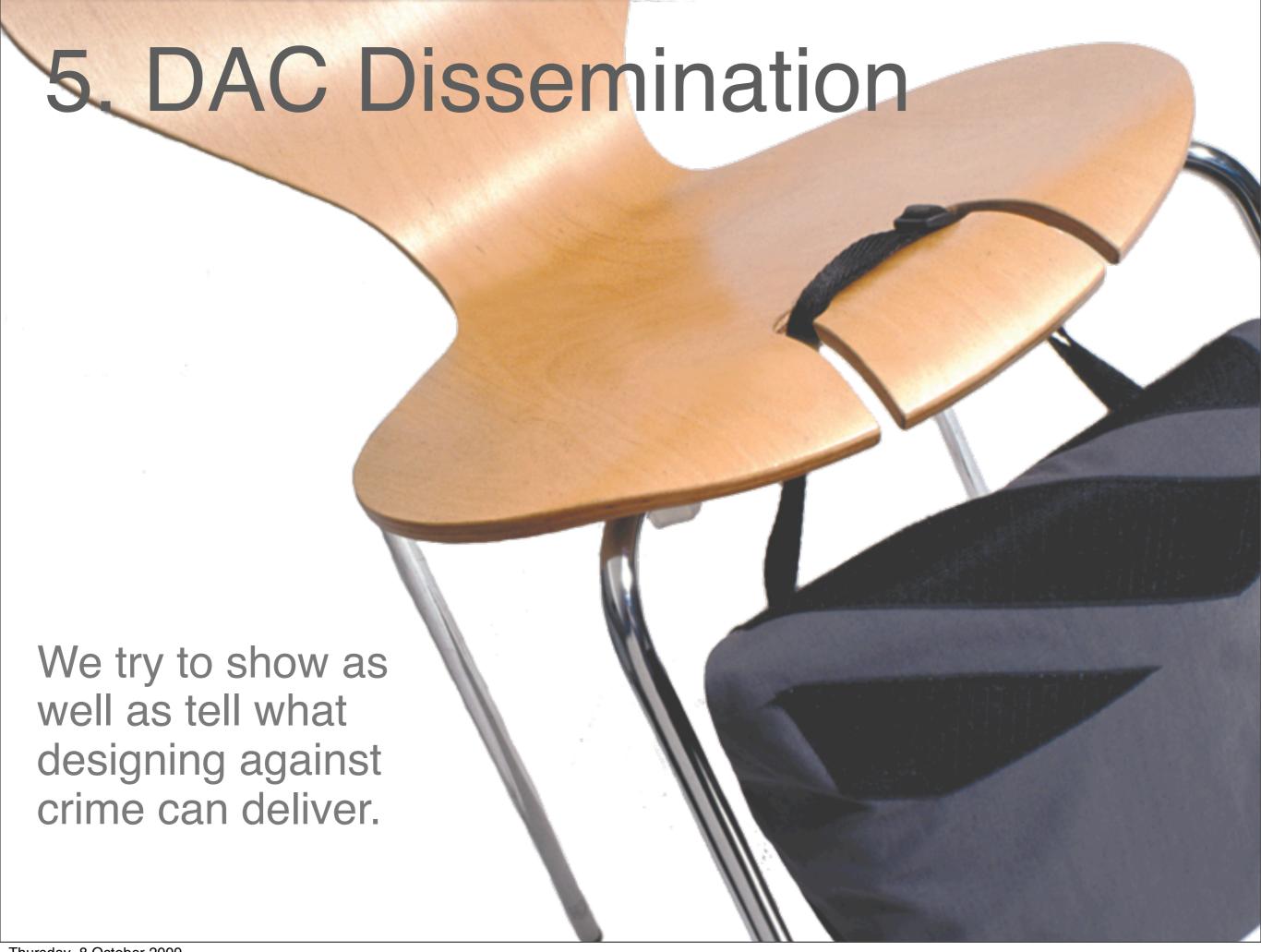
We iterate at every stage drawing on expert advice of stakeholders to seek to ensure the efficacy of our outputs.

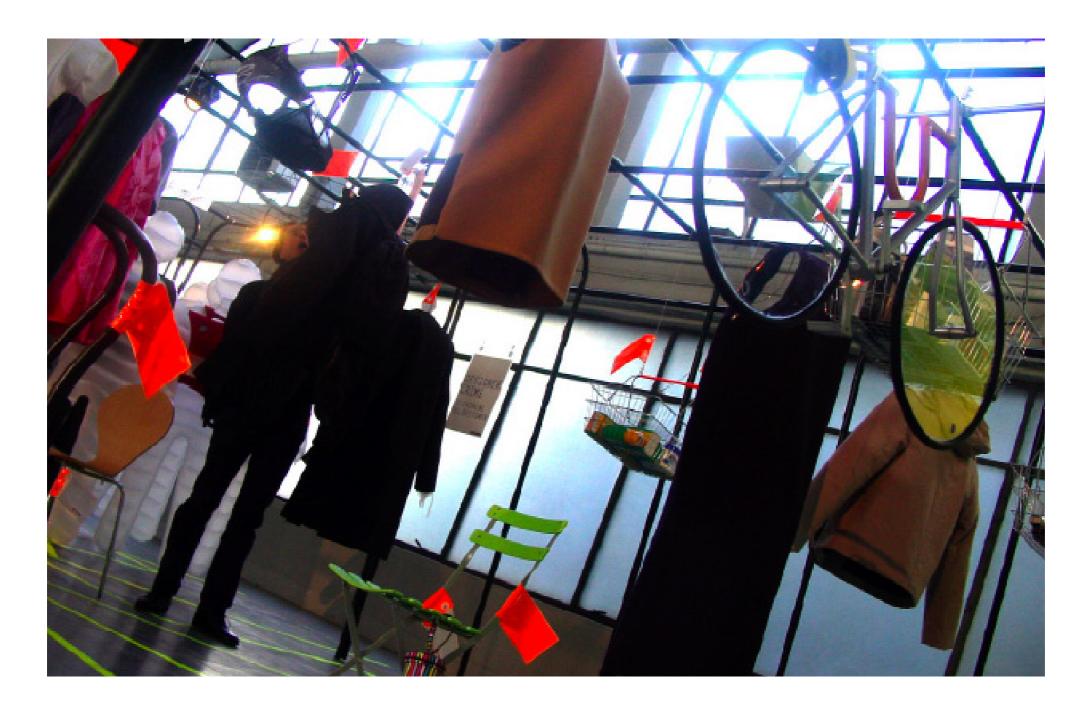
Tested 'design resources' that are freely disseminated to stakeholders within design education and design practice with the aim of "equipping design practitioners with the cognitive and practical tools and resources to design out crime".

Tested 'design exemplars' that address industry and 'the market', providing the case for DAC as a tool for socially responsive innovation and "promoting the social and commercial benefits of designing against crime to manufacturing and service industries". These exemplars are applied to afford social impact and create social change.

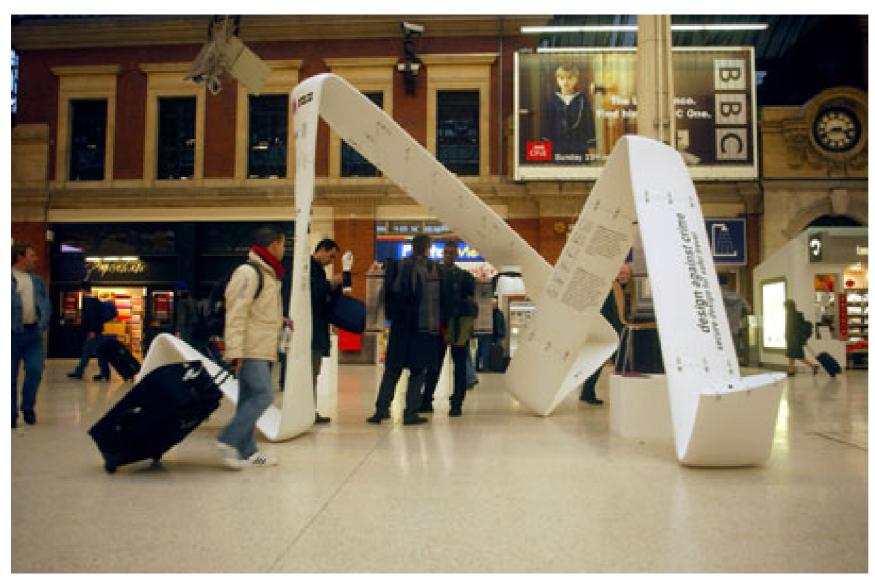














The DACRC Research and Design Methodology delivers 7 stages of focus:

- 1. Scoping
- 2. Research
- 3. Observe
- 4. Visualisation and Expert Review
- 5. Realisation
- 6. Implement and Test
- 7. Evaluate

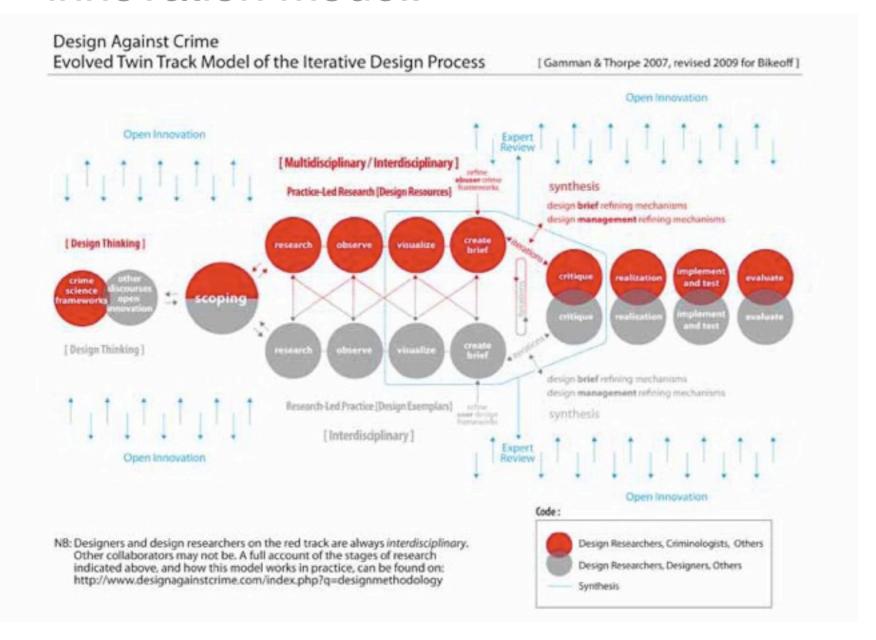
These are all outlined in detail on <a href="http://www.designagainstcrime.com/index.php?q=designmethodology#DacMethodology#Da

These stages help us structure and deliver:

- (i) Design-led research (Co-design briefs linked to expert review)
- (ii) Research-led practice (Leading to testing and evaluation of design outputs)

DACRC adopts a 'twin track' approach which enables us to take an 'emergent' and 'Open Innovation' approach.

Emergent process - described by 'open' research innovation model.



We have surveyed other exemplar social design companies :

Engine - Service Design
LivelWork - Service Design
Participle - Service Design
Think Public - Service Design
IDEO - Product / Service Design
Helen Hamlyn Centre — Product / Service Design
Design Against Crime Research Centre — Product / Service Design

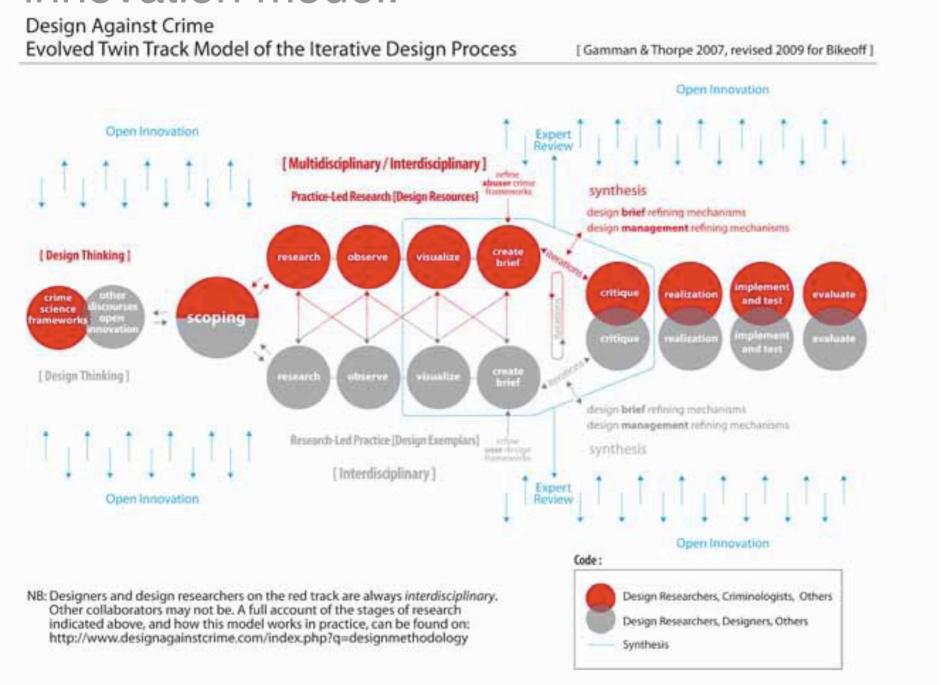
We find they say they go through a similar process, but call their stages by different names.

| DAC<br>Research Centre   | Helen Hamlyn<br>Research Centre                   | Engine<br>Service Design        | Think Public<br>Service Design  | Live   work<br>Service Design  | Participle<br>Design Consultancy                                    | Ideo<br>Design Consultancy  | Young<br>Foundation  | Sorrell<br>Foundation  |
|--|---|---------------------------------|---|--|---|---|--|--|
| nesearch centre  | nestardi centre                                   | Allect Sengi                    | January Cong.   | Jenac Jeng   | ocago constant  | ocaga comand  | - Touristan  | 100.00   |
| Scope  | Discover<br>(perceived needs into real<br>needs)  | Orientate                       | Diagnose  | Strategy and themes  | Scoping   | 1. INSPIRATION  | Ideas  | Planning and preparation   |
| Research   |   | Discover                        | Discover  | Insight  | Research  | Observation   | Innovation   | Challenge  |
| Observe  |   |                                 |   |  |   |   | Development  |  |
| Visualise  |   |                                 |   |  |   |   | Engagement   |  |
| Brief development  | Translate<br>(understanding into<br>requirements) |                                 |   | Focus  | idea Generation   |   |  | The Brief  |
| Critique   |   |                                 |   |  |   |   |  |  |
| Realisation  | Create<br>(concepts)                              | Generate                        | Co-Design   | Refine   | Prototyping   | 2. ITERATION  | Action   | Conversation   |
|  | Develop<br>(leads to solutions)                   | Synthesise and Model            | Develop and Test  | Define   |   | Prototyping   |  |  |
| Implement and test   |   | Specify                         | Deliver and Enterprise  | Deliver  | Delivery  | Building  |  | Concept  |
|  |   |                                 |   |  |   | 3. STORYTELLING   |  |  |
| Evaluate   | Constant evaluation<br>throughout process         | Measure (with empathy)          | Measure   |  |   |   |  |  |
|  |   | Transfer and transformation     |   |  |   |   |  | Celebrating Achievement  |
| http://www.designagainstcr<br>ime.com/index.php?q=desi<br>gnmethodology          |   | service design/our process/     | http://thinkpublic.com/news/2<br>009/05/05/thinkpublic-sodial-<br>innovation-and-design-film/ | http://www.livework.co.uk/<br>what-we-do/service-<br>innovation        |   | approach/   | / http://www.youngfoundati<br>on.org.uk/our-<br>work/research-action-and-<br>development | n.com/pdf/YDP_magazine   |
| http://www.designagainstcr<br>ime.com/files/u4/dac_met<br>hodology_09_1024_0.gif |   |                                 |   | http://www.livework.co.uk/<br>what-we-do/service-design-<br>capability |   | http://www.ideo.com/images/<br>uploads/work/case-<br>studies/pdfs/IDEO_RF_Guide.p<br>df | •  |  |
| track* diagram.  | on their website we cannot                        | visualised on their website and | process but the different   | section. Unable to find a  | add some stages to the process<br>if we talk to them. They are very | Approach or Design Thinking.<br>The process is not linear and                           |  | Young Design Programm<br>design process: Page 18 of<br>PDF document. |

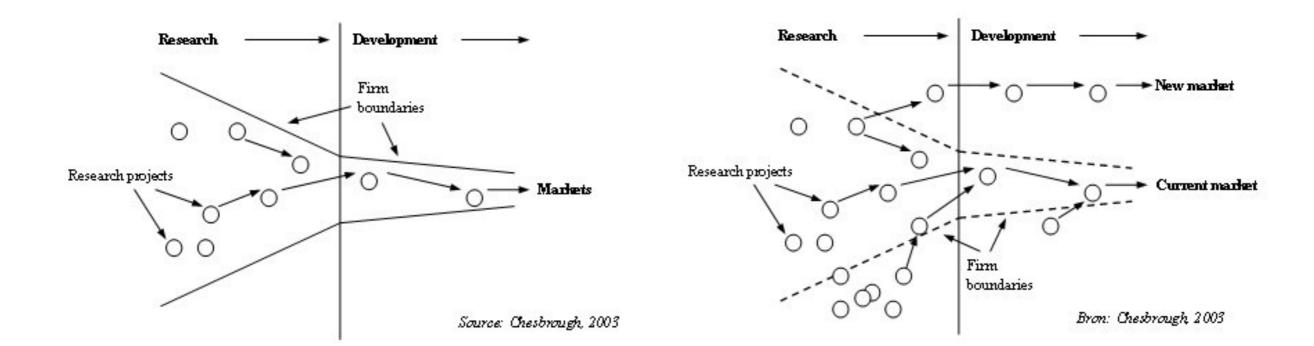
Common stages in the social design processes



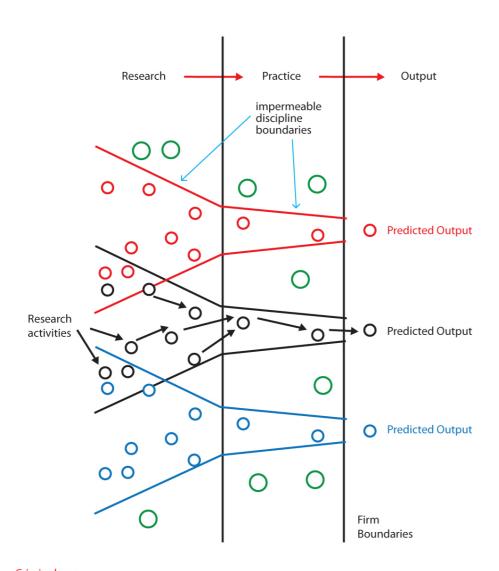
Emergent process - described by 'open' research innovation model.



Chesbrough 2003, 'open' and 'closed' innovation

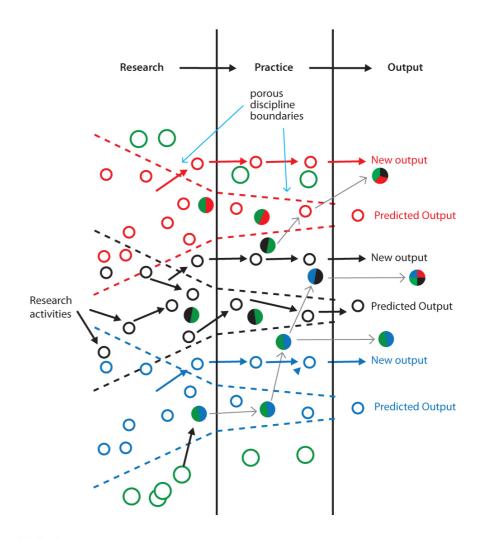


**Closed Research Innovation** 



- Criminology
- External Stakeholders
- Crime prevention
- Design

**Open Research Innovation (emergent)** 



- Criminology
- External Stakeholders
- Crime prevention
- Design

#### 7. Conclusion

What can DAC / Bikeoff2 methodology contribute to innovation?

- Delivery within 'stakeholder landscape' engages multiple disciplines and multiple stakeholders in tackling complex scenarios via inclusion of diverse knowledge and practice.
- 'Visualisation' facilitates synthesis of multidisciplinary knowledge (interdisciplinary outcomes).
- Ensures research questions stay close to stakeholder needs (demand pull over supply push).
- Research that is collaboratively realised with stakeholders is easily and readily applied by them = exploitation of research = innovation.

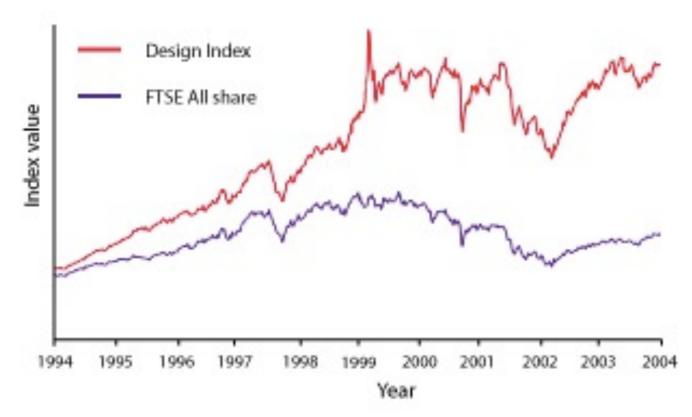
#### 7. Conclusion

#### Addresses common causes of innovation failure (O'Sullivan, 2002);

- Poor goal definition: Iterative, open approach re-defines and focuses goals
- Poor alignment of actions to goals: Iterative practice and evaluation aligns actions and goals
- Poor participation in teams: Dutyholders have a responsibility to participate, Stakeholders (Lead-users/Advocates) agitate and demand participation open model lets them make their own teams.
- Poor monitoring of results: Iterative critique and evaluation in built and open.
- Poor communication and access to information: Open model facilitates communication by 'visualisation' and iterative seminars, exhibitions and events.

# 8. Why should design thinking, process and methods be applied to social issues?

Design-aware companies outperformed the FTSE All share by over 200% in both bull and bear markets over a 10 year period.

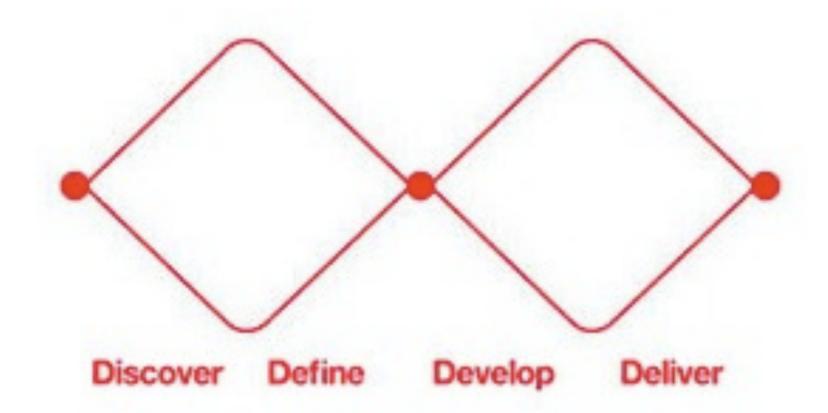


Design Council (2005) Design Index: The impact of design on stock market performance.

If design can do this for the private sector what can it do for the third sector?

#### 9. Design Research Stages

Design Council Double Diamond, 2005. 11 leading design companies, 4 common stages.



How will these stages - from our DACRC process model - help you structure the work of your PhD?

### Thank you.

Professor Lorraine Gamman Adam Thorpe

www.designagainstcrime.com

