

Less Crime, by Design

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**A receptacle
for grime?**



**Or a tool
for crime?**

Thinking Thief

Maiden Castle



Clipping of Coins



Hammered

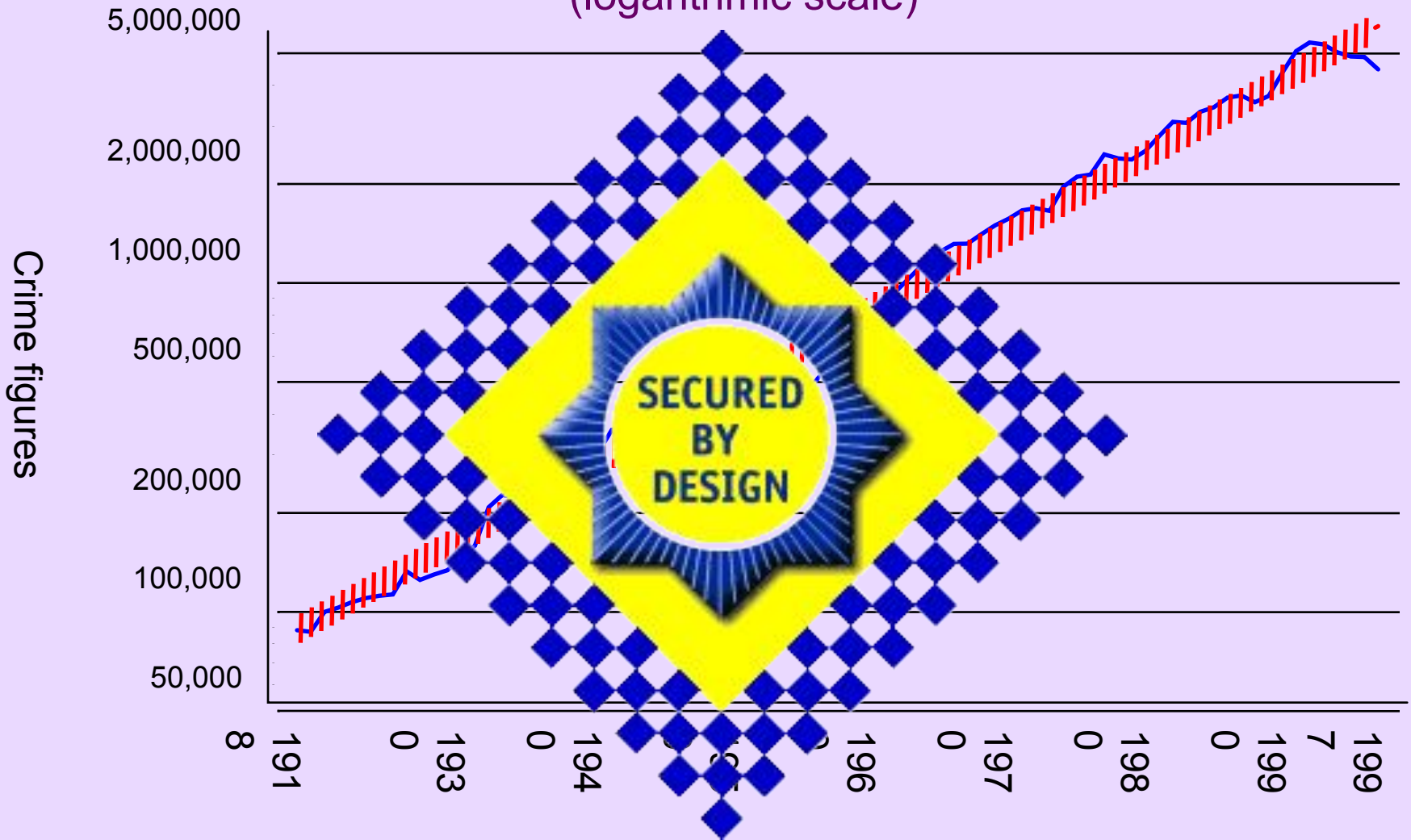


Milled



Recorded Crime, 1918 - 1997

(logarithmic scale)



Crime Reduction Programme - Design Against Crime

**Foresight Crime
Prevention Panel**

**Capacity to anticipate
new crimes, new
preventive methods**

**Design Council surveys of
education and business**

**Awareness, know-how and
motivation to 'think thief'**

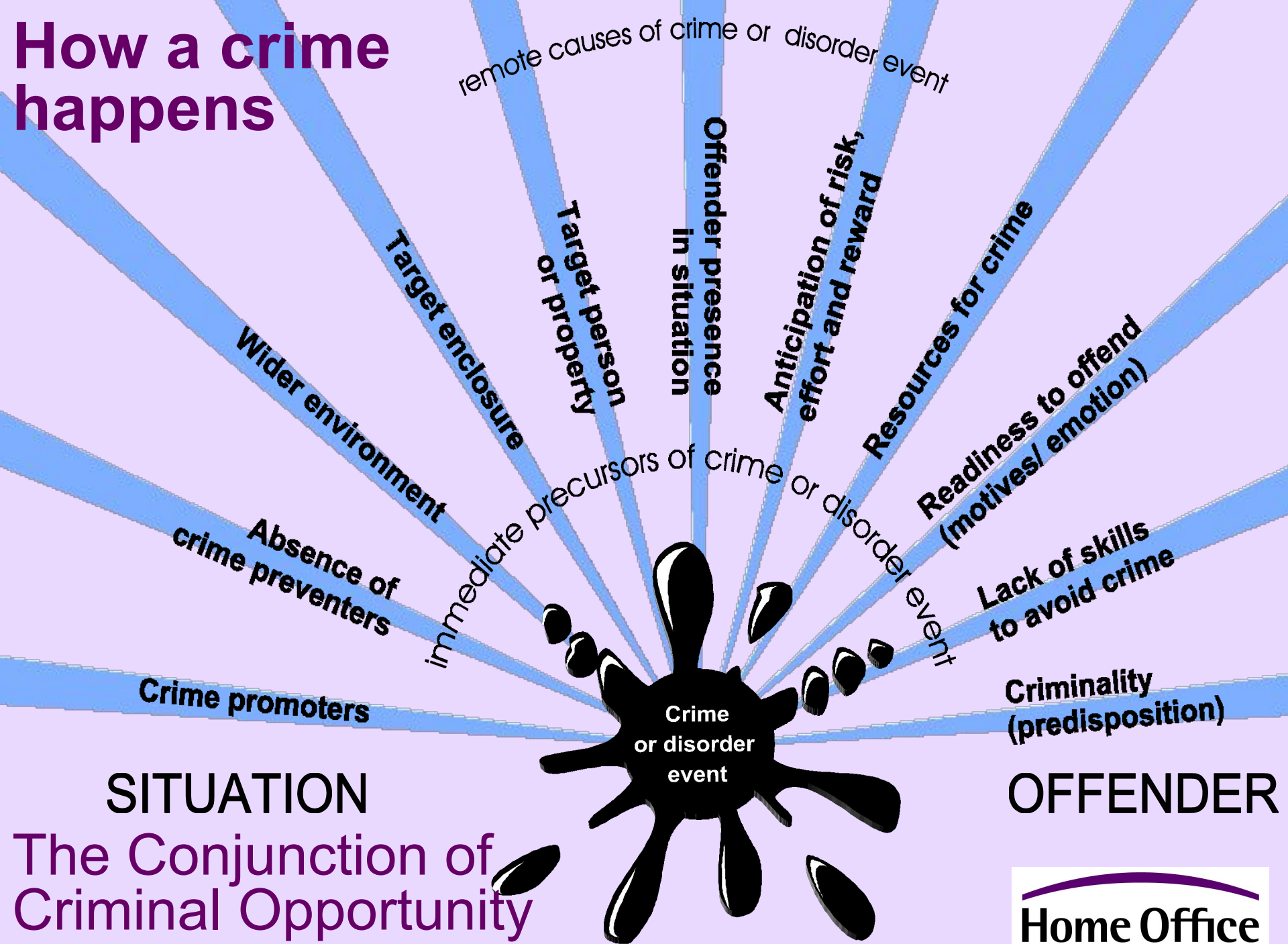
**Virtual Reality design
for lighting**

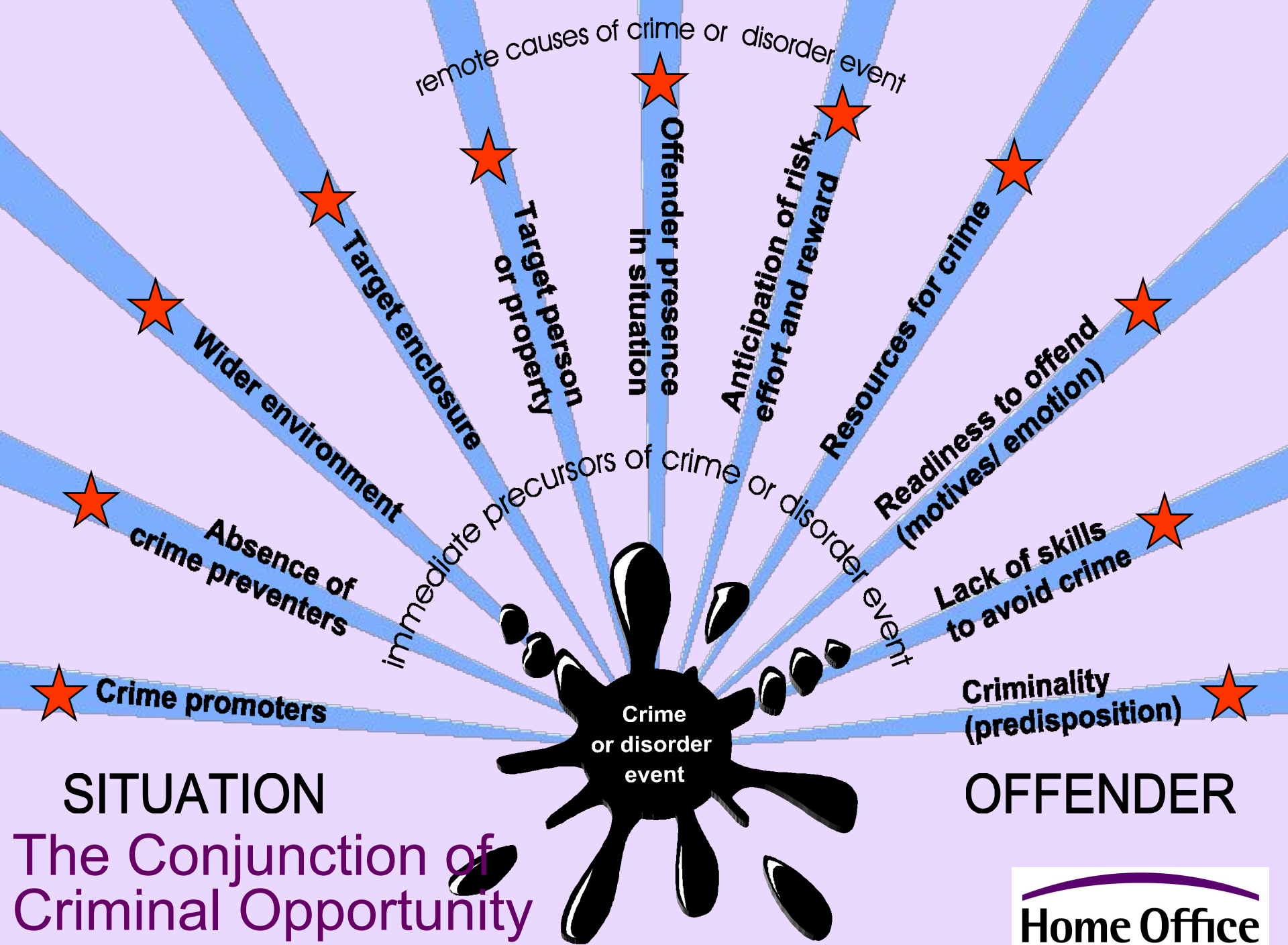
**Aid to improve
design process**

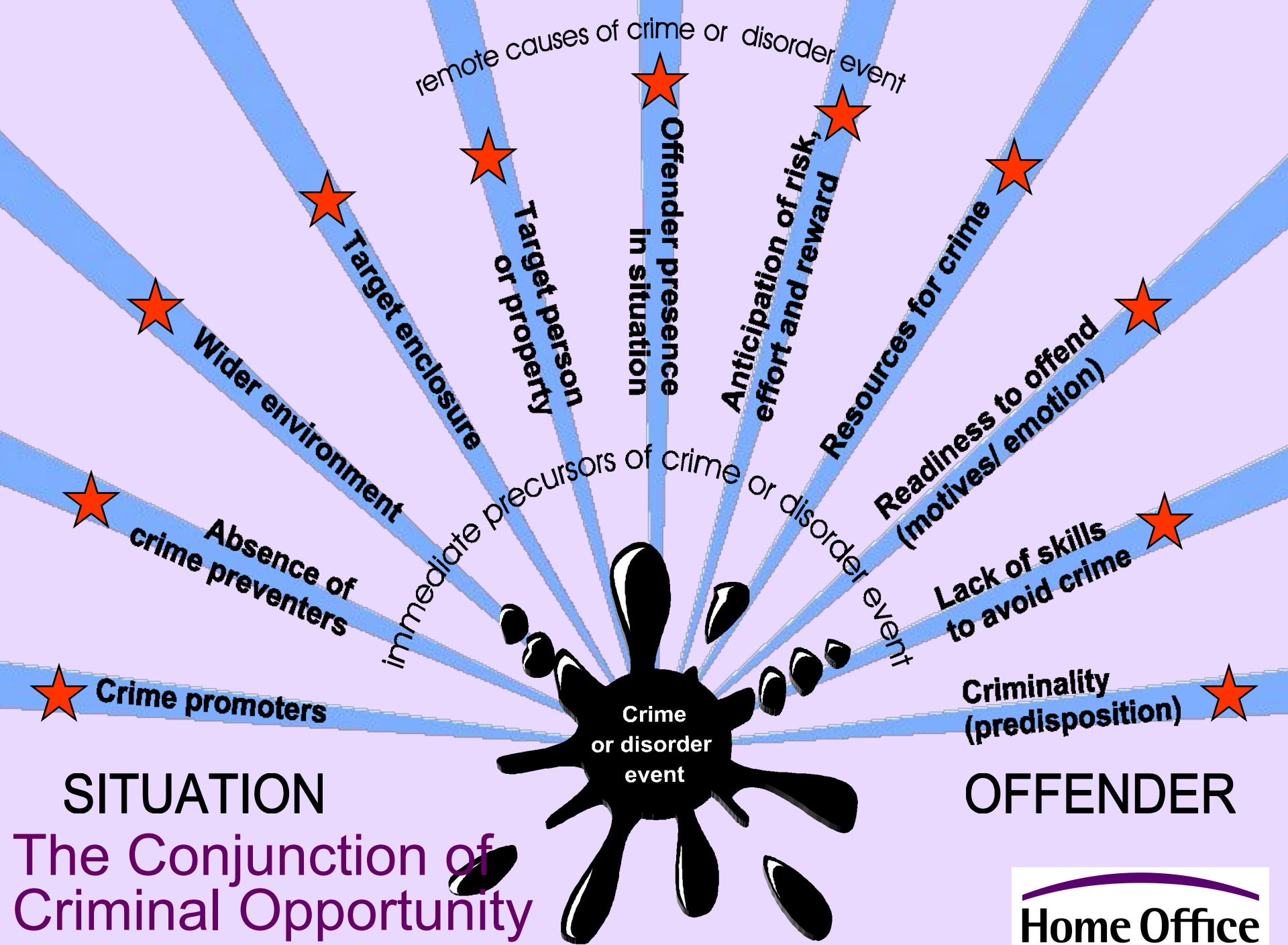
**RSA Student Design
Awards**

**Raise awareness of
design tutors/students**

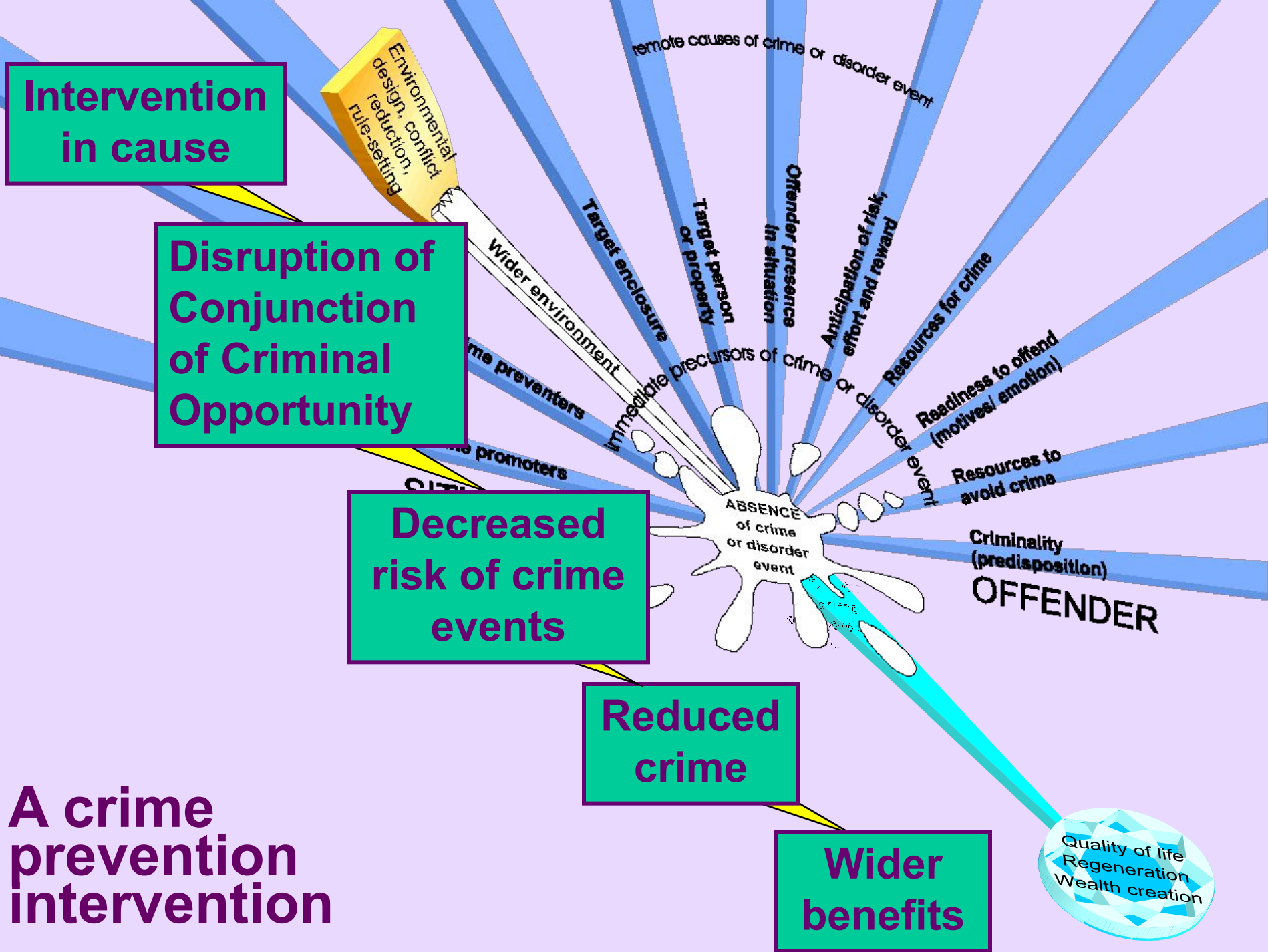
How a crime happens

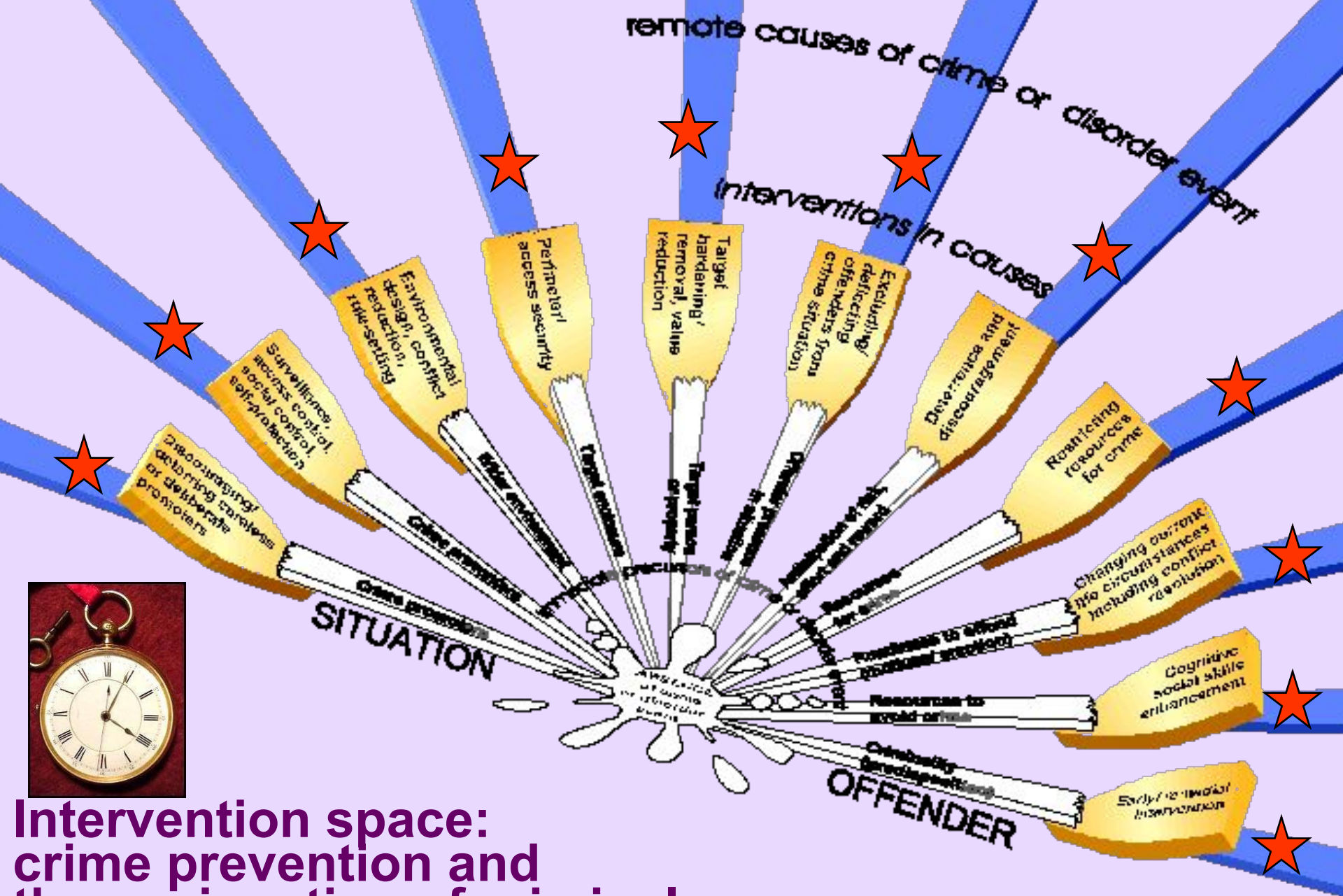




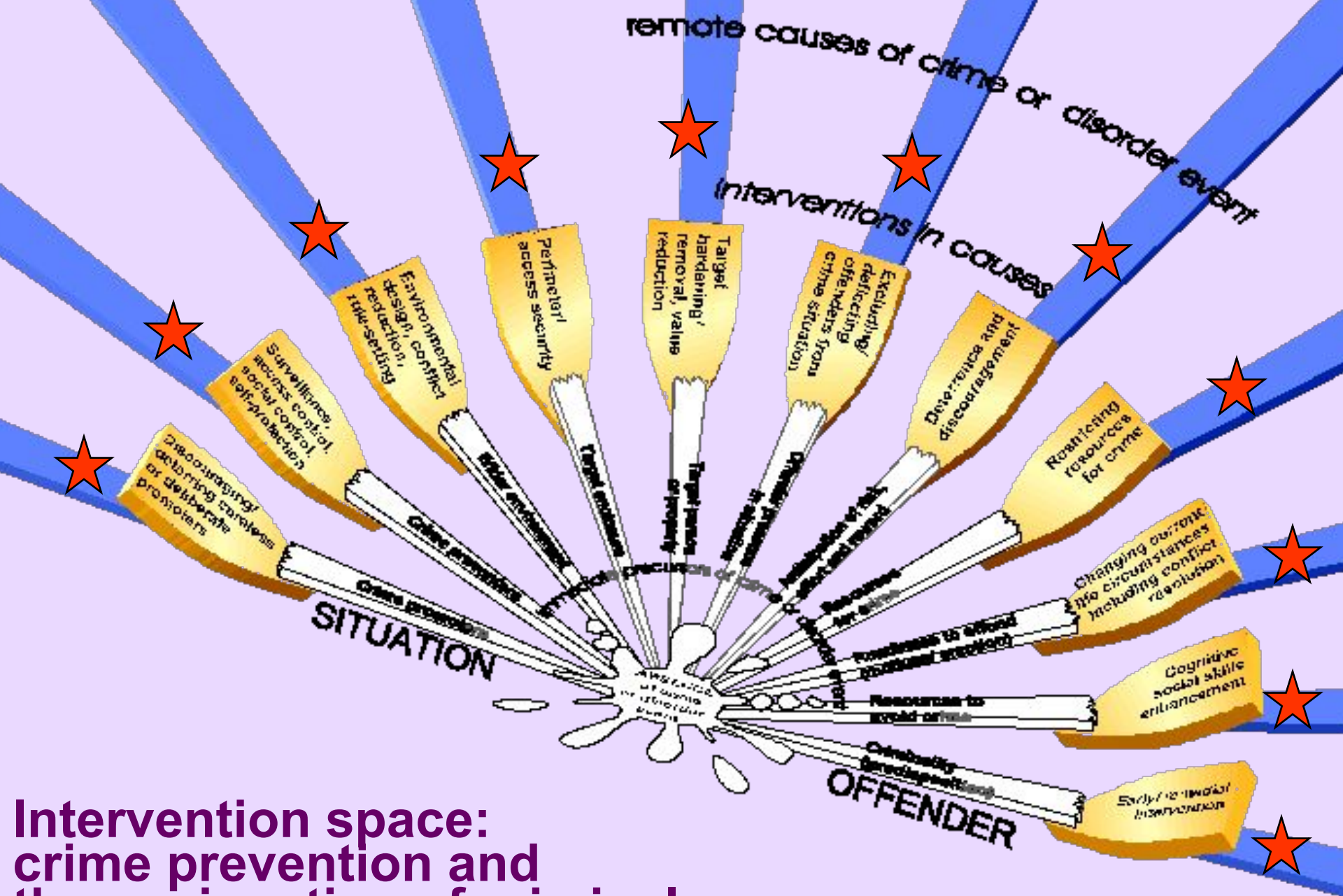


A crime prevention intervention





Intervention space:
crime prevention and
the conjunction of criminal
opportunity



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crime prevention and
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Situational Crime Prevention

- **Takes criminality as given**
- **Analyses circumstances surrounding specific crimes and focuses on immediate causes**
- **Aims to**
 - **make it harder/ more risky/ less attractive to offend**
 - **restrict offenders' resources**
 - **avoid prompting and provoking crime**

Design against Crime

- Part of situational prevention
- Focus on *products*
 - Goods
 - Buildings and environments
 - Services
 - Procedures
 - IT systems
- Making them resistant to:
 - Misappropriation, or theft
 - Mistreatment, or damage
 - Mishandling stolen property, fraud, forgery
 - Misuse as resources for crime

The 4 Misses - bad and good design

- **Misappropriation, or theft**
- **Mistreatment, or damage**
- **Mishandling - stolen property, fraud, forgery**
- **Misuse as resources for crime**

The Challenge of Designing against Crime: 1. Caught unaware

- Product designed naïve to crime
- Crime harvest
- Retrofit solutions





A Crime Harvest and Retrofit Solution

The Challenge of Designing against Crime: 2. Troublesome Tradeoffs

Can we design secure products without jeopardising their main purpose and:


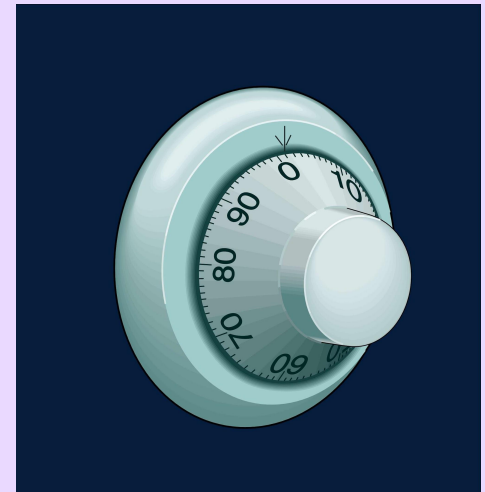
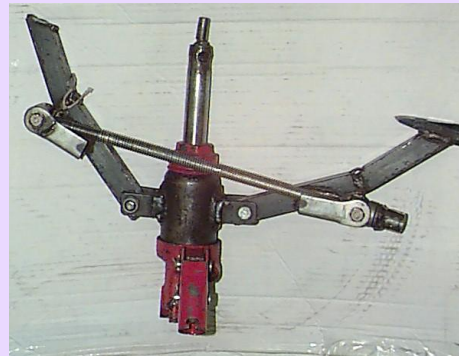
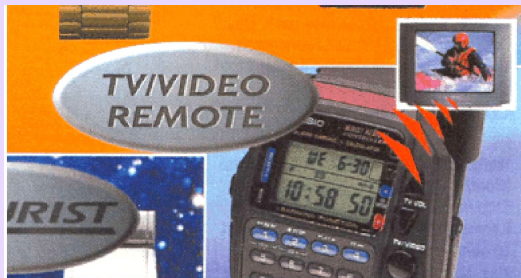
- Convenience
- Aesthetics - fortress society
- Legal and ethical
- Social inclusion
- Sustainable environment
- Safety
- Cost



The Challenge of Designing against Crime:

3. Offenders fight back

- Counter-exploitation
- Tactical countermoves
 - in situ
 - come back better tooled
- Strategic counter-design
 - reverse engineering



Open to release

Close handles to pull out dents

Repair car dents quickly and easily!

For minor dents on your bodywork the Dent Puller is the answer with vastly improved suction compared to others on the market. Simply place the cup over the dent, click the handles shut for automatic suction and gently pull out the dent. Open the handles to release the vacuum and remove without damaging the paintwork. No need to pay expensive panel beaters' bills! Can also be used to carry safely sheets of glass, metal, mirrors, etc.

Car Dent Puller Deluxe **£12.99** MX0220



The Challenge of Designing against Crime:

4. Obsolescence

- Changing social conditions
- New tools for crime



One socket that does the work of a whole set

A DIY sensation from America, the Gator Grip Universal Socket replaces all your socket sets, both metric and imperial – as well as doing many of the jobs where you would normally use pliers or spanners. The unique internal arrangement of 54 steel pins grips any shape instantly, adjusting automatically for hex nuts, square nuts and wing nuts, even broken and rusted nuts so long as they still have at least one reasonably flat side.

Designed to fit every nut and bolt from 7mm to 19mm ($\frac{1}{4}$ " to $\frac{3}{4}$ "), Gator Grip is precision-made from alloy steel and comes with a drop-forged ratchet handle (its standard $\frac{1}{2}$ " steel drive also fits your existing socket set handles and extension pieces).

Gator Grip £24.99 MX0190

42

Delivery is extra – please see order form.

The Challenge of Designing against Crime: 5. Arms race

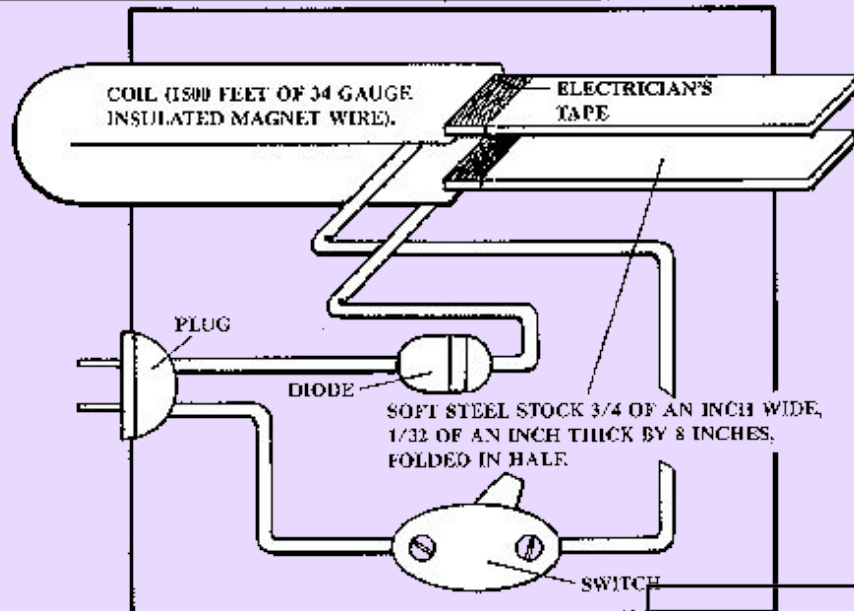


Figure 30. The magnetic pick is easy to construct.

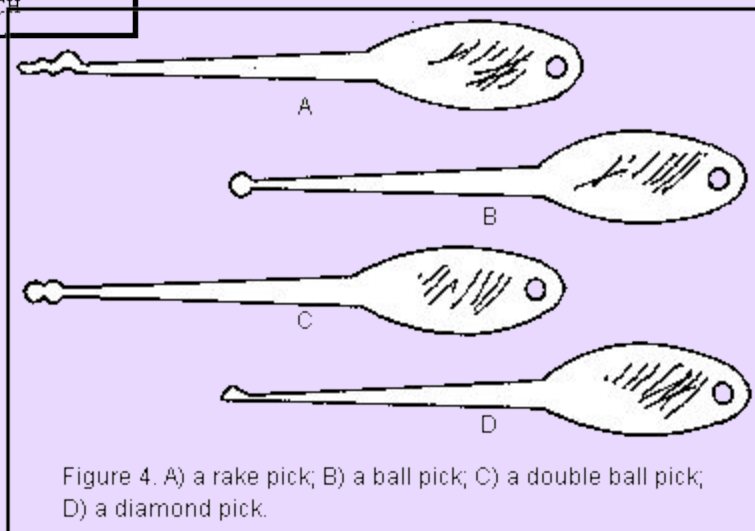
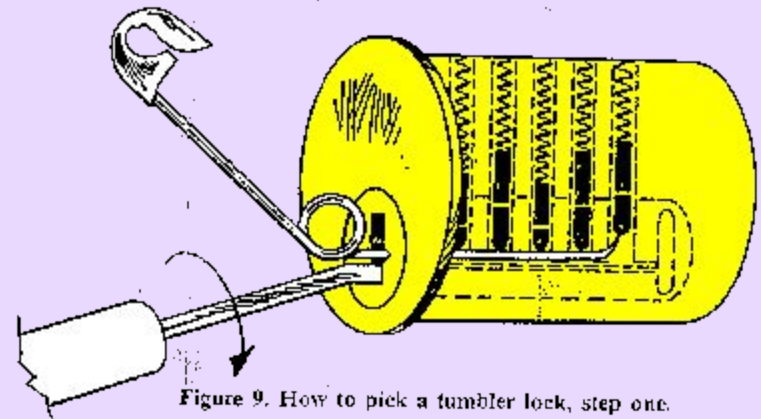


Figure 4. A) a rake pick; B) a ball pick; C) a double ball pick; D) a diamond pick.

Learning from other struggles

- **Military**
- **Predator-prey**
- **Pest-farmer**
- **Bacteria-antibiotic**
- **Immune system**

Lessons:

- **Engineering - tradeoffs, designs, materials**
- **Generic new strategies**
- **Running and avoiding arms races**

Learning from other struggles

1. Engineering



Learning from other struggles

1. Engineering



Learning from other struggles

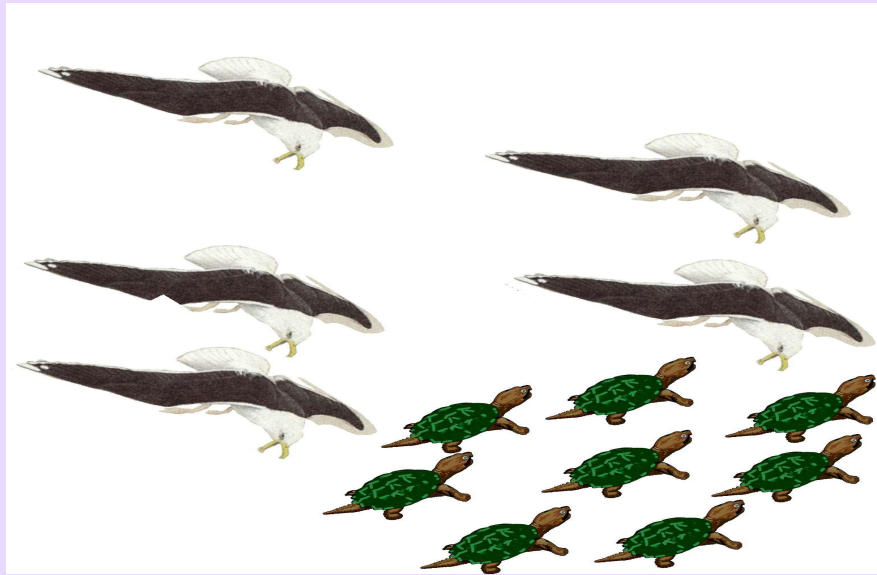
2. New principles?





Learning from other struggles

2. New principles?



Learning from other struggles

3. The arms race itself

- **Avoiding the arms race**
- **Running the arms race - gearing up against crime**
 - **Catch up - Crime Reduction Programme**
 - **Emergent crimes - 'learning paths'**
 - **Anticipate crime/crime prevention - Foresight**
- **Techniques, frameworks and principles**
 - **Hot products**
 - **Crime impact statements**
 - **Variety**
 - **Future proofing**
 - **Pipelines**

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Grand Strategy - Keeping ahead in the Red Queen's Game

- **Preventive measures as wasting assets - is it all futile?**
- **Maintaining a dynamic imbalance**

Constraints on Design against Crime

- **Constraints - design world**
 - conflicts with other design priorities
 - doesn't appeal or seem relevant
 - lack of information, knowledge, training
 - lack of case studies/ coverage on design courses
- **Constraints - design decision makers**
 - limited accountability - costs and incentives
 - lack of consumer pressure
 - lack of information
 - lack of coordination/ collaboration

Debatable issues

- **Balance of interests - individual v collective, public v commercial**
- **Incentives?**
- **Sanctions - polluter pays?**

Student Design Awards

