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Citation: Johnson, Derek (2008) Contra crime mapping : spatial and temporal mapping of predicted future crime locations, creating pro-active enforcement and reduction opportunities. In: The Stockholm Criminology Symposium, 16-18 June 2008, Stockholm, Sweden.

URL:

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#### Spatial & temporal mapping of future criminal risk as a catalyst for enforcement & reduction activity **MAPPING THE FUTURE?**

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Jan/Feb 2005 analysis identifies near repeat phenomena.

Feb/March reduction intervention devised

April – reduction intervention begins in pilot areas of town

January 2006 – evaluation shows overall reducing levels of burglary crime across the town - additional 6% reduction in intervention areas

Near repeat phenomena no longer apparent (i.e. not statistically significant)



# **Further thinking**

Near repeat offences still taking place

Serial offenders responsible?

Common offenders?

Identify & describe personal space-time patterns?

Predict future burglary locations?



#### Representations





X

## Short distances





X



## **Offender analysis**





## **Offender analysis - time**



mean	6.25
median	4.50
total days	40.00
min interval	1.00
max	
interval	21.00
std	6.30
pskew	0.83
Quartile 1	3.00



#### Some research conclusions

Serial offenders display 'near repeat' behaviour

Serial offenders are consistent over time, particularly with regard to what they consider to be 'close' in distance

Time and distance parameters can be calculated for ongoing 'real time' crime series



# Mapping product?

Event	1	2	3	4	5	6	7	8	9	10	11
1		X									
2			X								
3				X							
4					X						
5						X					
6							X				
7								X			
8									X		
9										X	
10											X
11											



# Mapping product?





## References

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