

RESEARCH OUTPUTS

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Towards the development of a spatial information model for crime analysis in South Africa

*Business Against Crime Summit,
Schaarburg. Unpublished conf. Paper
2001*

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INTRODUCTION

- **The challenge**
 - **Developing the foundation**
 - **The supply and demand approach to information**
- **The solution**
 - **Mapping police station boundaries**
- **The future**
 - **Integrating CAS Blocks**
 - **Multivariate analysis**
 - **Forecasting crime patterns**
 - **Policy implications**

DEVELOPMENT OF A SPATIAL MODEL

- **Defining the information needs of the SAPS**
- **Methods of capturing police station boundaries**
- **Integrating crime statistics**
- **Quality control of the police station boundaries**
- **Dissemination of information**
- **Further development of the spatial information model**

INFORMATION IN THE MODEL

- **Crime theories**
 - **Routine-activity**
 - **Mental maps**
 - **Rational-choice**
 - **Opportunity theory**
- **An integrated theoretical model**
 - **The motivated offender-victim nexus**
 - **Role of the criminal justice system**
 - **Information on motivated offender**
 - **Information on victim/targets**
 - **Victimization statistics**
 - **Information on criminal justice system**
 - **Important issues**

GONGELUSION

- Developed the foundation for the spatial information model
- Defined the information needs of the model
- Developed an integrated spatial information model
- Undertake multivariate analysis and forecasting
- Policy implications
- Need for a culture of spatial information use in the South African police
- “Geography is central to crime analysis”
- “We’re running out of time”

SPATIAL INFORMATION MODEL FOR CRIME ANALYSIS

