

Police Corporate Data Model (CorDM)

Crime Pattern Analysis Business Area View

REFERENCE: Police CorDM Crime Pattern Analysis Business
Area View

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Product Control Page

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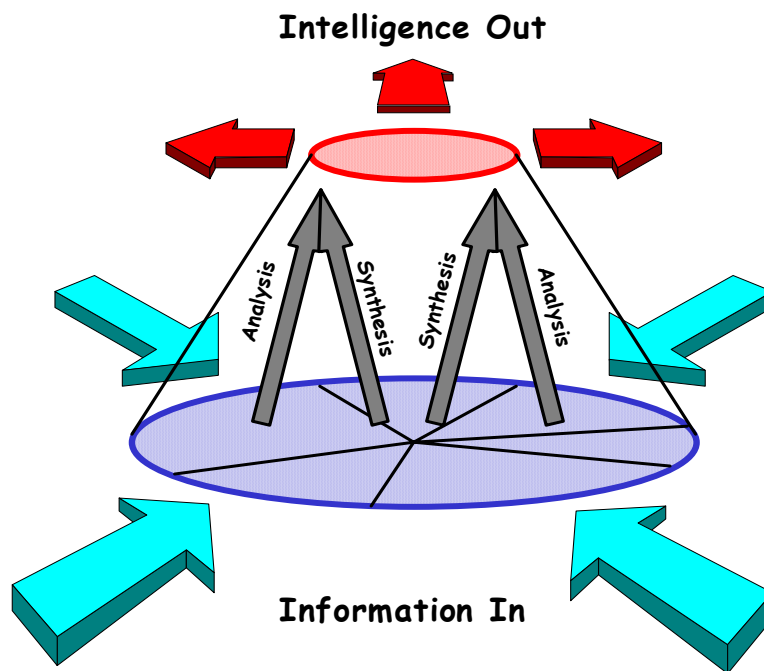
Issue Control:		
Version	Date	Description
Version 1.0	31-07-2003	Publication in CorDM version 1
Version 2.0	31-12-2003	Updated to Version 2 standard
Version 3.0	31-08-2004	Updated to Version 3 standard
Version 4.0	31-03-2005	Updated to Version 4 standard
Version 5.0	30-11-2005	Updated to Version 5 standard
Version 6.0	30-11-2006	Updated to new PITO template
Version 7.0	30-11-2007	Updated to Version 7 standard

1 PURPOSE

This paper documents the data models and object catalogue which have been developed for the Crime Pattern Analysis business area within the Police for the Corporate Data Model (CorDM).

2 BACKGROUND

Large amounts of information are gathered from the outside world that has to be managed and made sense of to generate intelligence. This is shown diagrammatically below:



The model has taken into account the principles contained within the National Intelligence Model (NIM) which is intended to guide and assist police forces in the management of intelligence.

Crime Pattern Analysis forms one of the analytical techniques and products within intelligence. It is a generic term for a number of related analytical disciplines such as crime or incident series identification, crime trend analysis, hot spot analysis and general profile analysis. It looks for the linkages between crimes and other forms of offending to reveal similarities and differences.

From this, deductions can be made and decisions arrived at as to addressing the current problem areas.

This area covers the actual structure of the Intelligence produced as a result of the analysis process.

3 DATA MODELLING NOTES

This data model shows the linkages which can be made between the business activities of crime, surveillance and stop & search with locations, physical objects (sample, conveyance) and people. Although a derived class hotspot, one of the major outputs from crime pattern analysis has been modelled as a persistent class.

The object of Crime Pattern Analysis is to identify 4 components:

- Crime series identification
- Crime trend identification
- Hotspot analysis
- General profile analysis

These linkages made between the data classes allow the police to plan operations to home in on people and areas that have shown up as requiring particular attention.

Motor Vehicles are, of course, subtypes of Physical Objects, however this has been shown separately because of its importance in crime intelligence.

