MAPINFO CRIME PROFILER V2.0 DATA SHEET

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INVESTIGATIVE TOOL FOR REAL-TIME ANALYSIS OF CRIME DATA, HELPING LAW ENFORCEMENT AGENCIES IDENTIFY PATTERNS AND TRENDS AND DEPLOY RESOURCES MORE EFFECTIVELY

Solution Overview

MapInfo Crime Profiler is a sophisticated crime mapping and analysis solution from Pitney Bowes Software. Crime Profiler has been designed to help organisations find the best tactics and strategies for dealing with crime and incidents of all types. By providing deeper layers of criminal intelligence it enables law enforcement agencies to manage and more effectively deploy police resources and address key policing challenges within volume crime such as burglary, car theft and antisocial behaviour, and serious organised crime such as fraud, drug trafficking and metal theft.

Already used by organisations such as the Metropolitan Police, British Transport Police, Transport for London and the London Ambulance Service, Crime Profilers intelligent data analysis and visualisation capabilities enable analysts to process, manipulate and view data in ways that would have previously required multiple software packages and complex workflows. The software is suitable for use as a single license or for rollout across the enterprise.

Benefit

Police forces nationwide currently use crime mapping and analysis tools to process large amounts of data and identify meaningful patterns and trends. However, these tools tend to be geared towards the static representation of crime data and can overlook the dynamic and transient nature of real-world criminal activity. MapInfo Crime Profiler's sophisticated animation and aoristic analysis capabilities take account of these complications, while the software can also use statistical probability to predict when a crime is most likely to have taken place according to the available information.

For example, it is rarely possible to ascertain the exact time or location that a crime took place within the incident report – a victim of burglary can only provide the time they left the house and the time the crime was discovered, while a victim of pickpocketing can only give an approximation of where the incident is likely to have taken place. However, by taking into account the reported time and geographical pattern of clusters of similar incidents it is possible to make informed predictions as to the most likely scenario. Analysts can therefore access deeper layers of criminal intelligence and ensure investigations are carried out using the most comprehensive and accurate information.

EXPECTED ROI

- Assists law enforcement in managing and deploying people and resources to where they will prove most effective.
- Streamlines and simplifies complex workflows, providing analysts with all the tools needed to deliver actionable insights to those on the frontline.
- Facilitates better sharing of intelligence between partner agencies involved in tracking and investigating serious organised crime.

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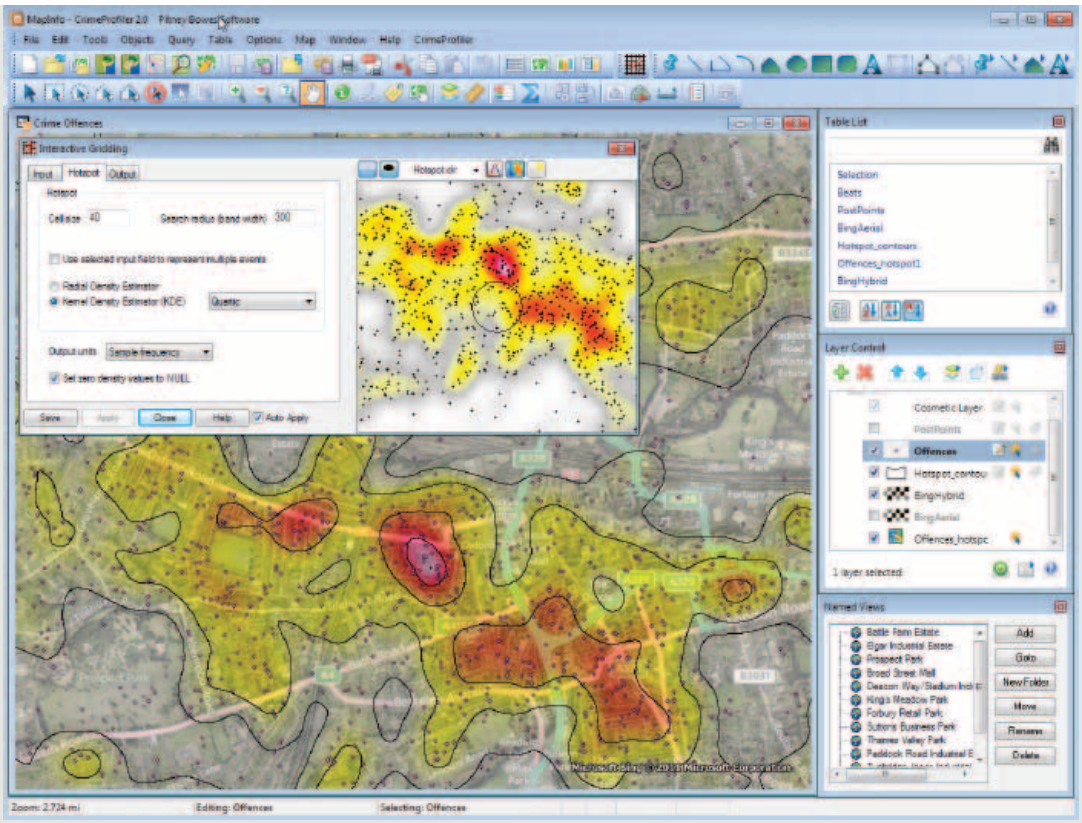
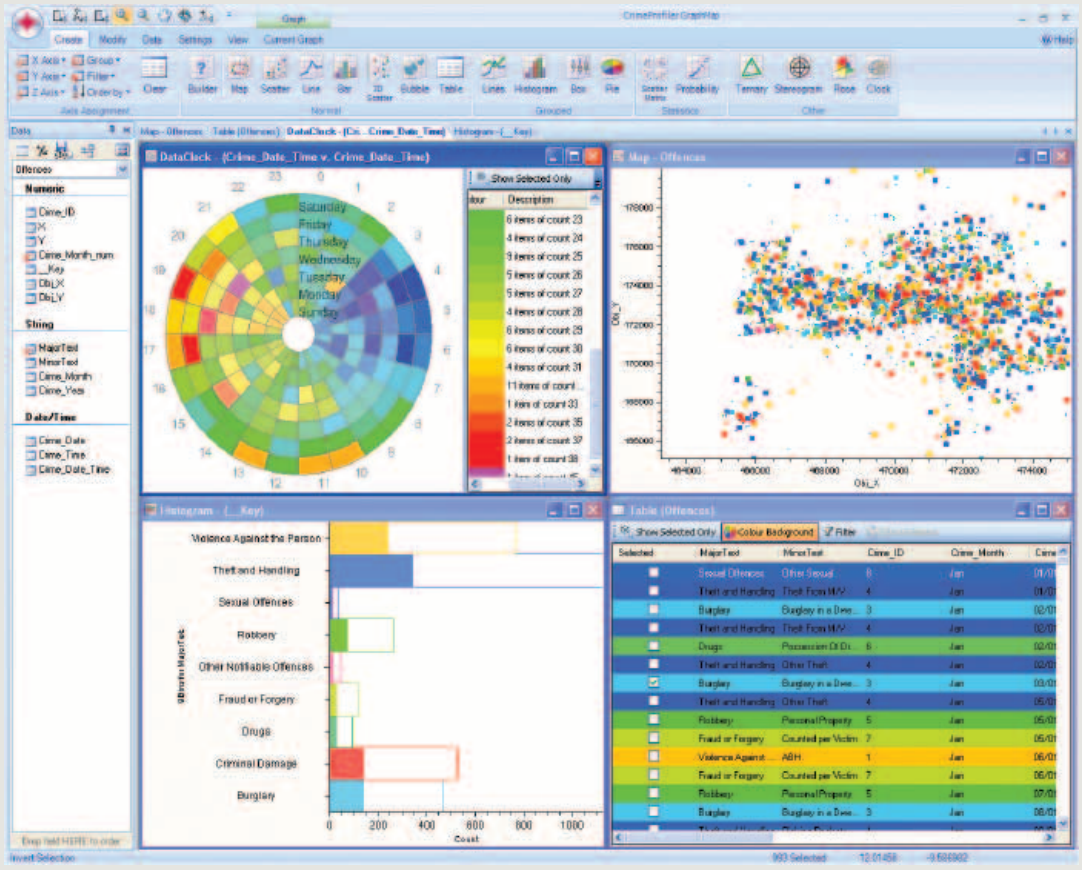


Hotspot maps are created with an interactive gridding tool. This allows the analyst to learn and understand the impact of different settings in an intuitive way.

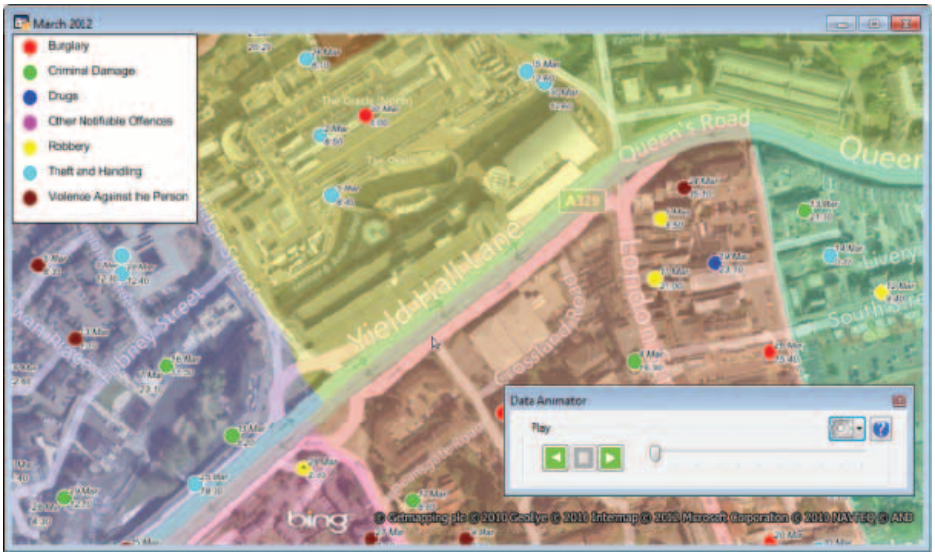


In addition to Hotspot Mapping, Crime Profiler provides integrated graphing, charting and analytics.

As a dedicated extension to MapInfo Professional, customised for law enforcement, Crime Profiler offers capabilities for applying common operations in investigative or research-based analysis. It can create intuitive spatial models of crime data, whether from raw point locations, regions or hotspot maps. It also provides many productivity tools to streamline and simplify complex tasks such as importing and manipulating data, and presenting the results in easy to follow hotspot maps, graphs and charts.

For volume crimes such as burglaries, robberies and vehicle theft, users can quickly build intuitive maps of crime hotspots. Analysts can use their own pre-determined data ranges to assign values to different crimes or can exploit the software's natural break functionality to automatically allocate appropriate data ranges and remove any user bias. The crime hotspots can also be displayed using a variety of mathematical formulas in order to assist detectives in identifying significant trends and apprehending perpetrators.

These hotspots can then be run as an animated sequence over time to gain a deeper understanding of how criminal activity is evolving and to aid forward planning in terms of exactly where and when law enforcement resources should be deployed to have the greatest impact. For instance, a static representation of violent crime incidents in a particular location may indicate the need for a constant high police presence in the area. Yet the addition of a temporal analysis could reveal almost all of the incidents take place each Friday between 8 and 11pm. Alternatively an investigation of metal theft on the rail network might reveal incidents regularly correspond to sections of track within areas of planned maintenance activity. This means that law enforcement agencies can get on the front-foot and begin to pro-actively predict and police where the next attempted theft is likely to take place.



This map shows crime incidents overlaid on patrol areas or beat boundaries. Crime Profiler also includes the ability to create animated displays of crime and hotspot maps across time.

"We are using MapInfo Crime Profiler to map and analyse those hotspots where cable theft is most prevalent. The mapping tools pull together a number of datasets to help us identify, for example, the nearest scrap dealers so we can direct intelligence checks as soon as a crime occurs and dealers' books can be immediately inspected by police officers to identify likely perpetrators"

Charlotte Crabtree,
Principal Analyst,
British Transport Police

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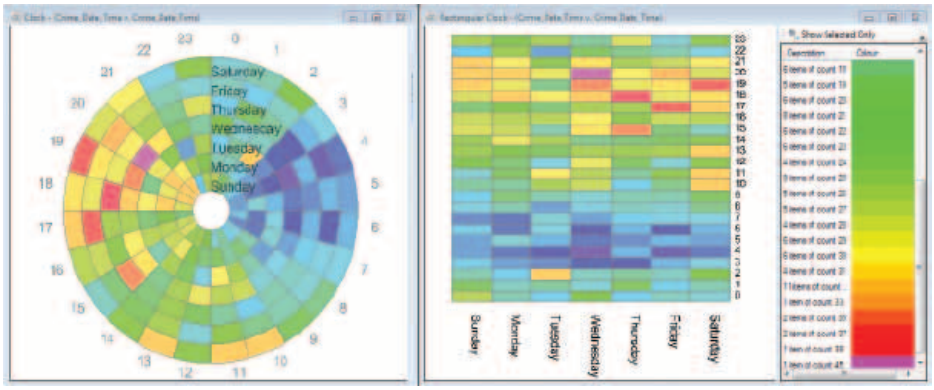
Crime Profiler's interoperability enables organisations involved in long term or on-going investigations into serious organised crime to forge links and share intelligence with partner agencies more effectively. It can be used, for example, to identify where the largest population of known sexual offenders is, to track paedophile activity or to bring together drugs market intelligence across a geographically dispersed area. As criminals areas of operation don't conform to the established zones or 'beats' as the police force is organised, it can be difficult for those on the ground to understand where different police resources should be concentrated. However, crime analysts can begin to pick up on patterns and relationships in the data and feed these back to those on the front-line to streamline the investigative progress.

Major public events also bring their own specific challenges around surrounding safeguarding citizens and identifying the most appropriate management and deployment of a limited pool of people and assets. Therefore the tool also sits at the heart of many organisations' contingency planning for such occasions.



Crime Profiler offers two different forms of clock graphs to display counts of incidents across time.

"Historically, combining vast amounts of data has been very time-consuming, but the increasing automation of much of this process has allowed our analysts to spend a far greater proportion of their time working with data to solve problems and ultimately deliver on the ground benefits to the public"

Trevor Adams, Head of the GIS Services team at the Metropolitan Police

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