

Users' Guide to Mapping Software for Police Agencies

Fifth Edition

Crime Mapping Laboratory

POLICE FOUNDATION

Summer 2003

**Report to the Office of Community Oriented Policing Services
Cooperative Agreement #2002-CK-WX-0303**

The opinions, findings, and conclusions or recommendations expressed in this document are those of the authors and do not necessarily represent the official position or policies of the U.S. Department of Justice.

Table of Contents

Quick Reference of Products and Web Sites	3
Introduction.....	6
Methodology	7
General Review Elements.....	7
List of Products	10

Quick Reference of Products and Web Sites

Page	Product Name	Web Address
11	3D Analyst	www.esri.com
12	Analyst's Notebook	www.i2inc.com
13	Analyst's Workstation	www.i2inc.com
14	ArcData Online	www.data.esri.com
15	ArcExplorer	www.esri.com/arcexplorer
16	ArcGIS 8.x	www.esri.com/software/arcgis
17	ArcInfo	www.esri.com
18	ArcView 3.x	www.esri.com
19	ArcView Image Analysis	www.esri.com
20	ArcView Internet Map Server (IMS)	www.esri.com
21	Autobound	www.digitalcorp.com
22	AutoCAD	www.autodesk.com
23	Autolog	www.bairsoftware.com
24	Automated Spatial Interval Addressing (ASIA)	www.sdrmaps.com
25	Automated Tactical Analysis of Crime (ATAC)	www.i2inc.com
26	BeatBuilder	www.coronasolutions.com
27	CADmine	www.coronasolutions.com
28	CartoView	www.geowaremaps.com
29	Caserunner	www.i2inc.com
30	CASS	www.cisco-ps.com www.cisco-ps.com
31	Census CD+Maps	www.censuscd.com
32	Census Data	www.census.gov
33	Community 20/20	www.hud.gov
34	Community Policing Beat Book	www.ojp.usdoj.gov/nij/maps
35	Conic GIS	www.conic.com
36	Consequence Assessment Tool Set (CATS)	http://saic.com
37	Crime Analysis Extension	www.ojp.usdoj.gov/nij/maps
38	Crime Mapping	www.appliedmapping.com
39	CrimeInfo	www.charlesrivertech.com
40	CrimeLink	www.crimelink.com
41	CrimeMap	www.geospatialtech.com
42	CrimeNtel	www.ci-technologies.com
43	CrimeShow	www.ci.boston.ma.us/police
44	CRIMESolv	www.crimesolv.com
45	CrimeStat	www.ojp.usdoj.gov/nij/maps
46	CrimeStat 2	www.icpsr.umich.edu/NACJD/crimestat.html
47	CrimeView	www.theomegagroup.com/index.htm
48	CrimeView Community	www.theomegagroup.com/index.htm
49	CrimeWatch	www.pсадallas.com
50	DataDetective	www.smr.nl
51	Digital Informant	www.dynamaps.com
52	Dispatch Mapping	www.geo-comm.com
53	Drug Trak	www.iptm.org/software.htm

Page	Product Name	Web Address
54	Dynamap/2000	www.geographic.com
55	Dynamic Community Policing System (DCOPS)	www.ac-sys.com
56	E911 Dispatcher	www.planetonegis.com
57	e9atlas	www.microdatagis.com
58	e9GIS	www.microdatagis.com
59	e9matcher	www.microdatagis.com
60	ER Mapper	www.informationgraphics.com
61	EZStreets & Boundaries	www.esadata.com
62	Feature Manipulation Engine (FME)	www.safe.com/product.htm
63	GADCMaP	www.gadc.kennesaw.edu
64	GeoBalance	www.coronasolutions.com
65	GeoData	www.usgs.gov
66	GeoGenie	www.bairsoftware.com
67	GeoRecall	www.4di.net
68	Geotrac Crime Analysis Mapping (GeoCAM)	www.geotrac.com
69	GIS Data Depot	http://data.geocomm.com
70	GIS Document Manager	www.gis-services.com
71	GIS/Mapping/GPS-AVL	www.pamet.net
72	iBase 3	www.i2inc.com
73	IDRISI	www.clarklabs.org
74	Infotrak LRMS	www.pintrakinternational.com
75	JCSI Maps	www.pipeline.com/~jcsi-maps/drgs
76	L.A.T.S. (Legal ARMS Tracking System)	www.arms-soft.com
77	Law 2001	www.trilliumlaw.com
78	Link Chart	www.i2inc.com
79	LPDCrime	http://police.cityoflansingmi.com
80	Map Master GIS	www.informationgraphics.com
81	Map Reality using Global Positioning System (MR GPS)	www.dmsc.olm.net/pages/MrGPS.html
82	MapBlast!	www.mapblast.com
83	MapData	www.mapdata.net
84	MapInfo	www.mapinfo.com
85	MapMagic	www.pdprog.com/im/map_magic.html
86	MapMarker Plus	www.mapinfo.com
87	MapObjects	www.esri.com
88	MapObjects Internet Map Server (IMS)	www.esri.com
89	Mapping Application Client Server (MACS)	www.federal.sterling.com
90	MapPoint	www.microsoft.com/office/mappoint/default.htm
91	MapQuest	www.mapquest.com
92	Maptitude	www.caliper.com
93	MapXtreme	www.mapinfo.com
94	Matchmaker/2000	www.geographic.com
95	Max Responder - Emergency Readiness & Response	www.maxresponder.com

Page	Product Name	Web Address
96	MaxResponder - Crywolf False Alarm Solution	www.maxresponder.com
97	Megan's Law Notification	www.gis-services.com
98	Megan's Mapper	www.banton.com
99	Memex Crime Workbench	www.memex.com
100	Memex Information Engine	www.memex.com
101	Memex Information Workbench	www.memex.com
102	Microsoft Streets & Trips 2001	www.microsoft.com
103	Monarch	www.datawatch.com
104	MrSID	www.lizardtech.com
105	Oracle Data Mining Suite (Oracle Darwin)	www.oracle.com
106	OrionMagic	www.orionsci.com
107	Pcensus	www.tetrad.com
108	Precision Data	www.claritas.com
109	Regional Crime Analysis GIS (RCAGIS)	www.usdoj.gov/criminal/gis
110	Regional Crime Analysis Program - Small Dept. Edition	http://vijis.sys.virginia.edu/home.htm
111	Rematch	www.oxnardpd.org
112	Rigel	www.ecricanada.com
113	S+ SpatialStats	www.mathsoft.com
114	School COP	www.schoolcopsoftware.com
115	Sex Offender Notification and Registration (SONAR)	www.pascackdata.com
116	Spatial Analyst	www.esri.com
117	Spatial and Temporal Analysis of Crime (STAC)	www.icjia.org
118	Spatial Crime Analysis System (SCAS)	www.usdoj.gov/criminal/gis/scashome.htm
119	S-Plus for ArcView GIS	www.mathsoft.com
120	Staff Wizard	www.coronasolutions.com
121	Street Atlas	www.delorme.com
122	Street Level Activity Mapping (SLAM)	www.baltometro.org/slam.html
123	StreetMap	www.esri.com
124	Streets	www.wessex.com
125	Terrain Tools	www.softree.com
126	TerraServer	www.terraserver.com
127	Thomas Guide Digital Edition	www.thomas.com
128	TIGER Files	www.census.gov/geo/www/tiger
129	TimeScan	www.bairsoftware.com
130	Tracking Analyst	www.esri.com
131	Trend Tracker	www.bairsoftware.com
132	Vertical Mapper	www.mapinfo.com
133	Vision Geo	www.vision911.com/
134	VMS 200 Video Mapping System	www.redhensystems.com
135	Watson Mapping	www.harlequin.com/products/hints/watson
136	Web-Data Visualization System	www.induscorp.com

Introduction

The Office of Community Oriented Policing Services (COPS) has encouraged the use of computer mapping through its grants programs and has demonstrated a strong interest in fostering problem solving as well as more concentrated approaches to allocation of police resources. In support of this mandate, COPS has provided funds to the Police Foundation's Crime Mapping Laboratory to provide a wide range of support and information, including assisting local police agencies in implementing computer mapping technologies and encouraging mapping applications and information systems in the development of community-oriented policing and problem solving in COPS sites.

In furtherance of the Police Foundation's mandate to advance mapping applications and information systems for community policing and problem solving, this report provides a review of a wide range of mapping software and geographic information systems, focusing on their functionality and ease of use by members of police departments. This report is the fourth update to the *Users' Guide to Mapping Software for Police Agencies*, originally published by the Crime Mapping Laboratory in February 2000.

Products reviewed in this report encompass a wide range of categories or subject areas, and perform a variety of functions, including: 1) data acquisition and data management, 2) geocoding, 3) crime mapping and analysis, 4) Internet mapping, 5) redistricting, 6) emergency management, and 7) others, including products from each of the following specialized areas: geospatial imaging, geographic profiling, cartography, routing software, vehicle tracking, drawing/design, and GIS applications development. The review includes information related to: manufacturer, relevant area of application, contact information, the GIS and operating platforms necessary for the product, and a brief product description. In addition, it should be noted that inclusion of crime analysis and crime mapping software resources does not imply an

endorsement or recommendation for any particular product by the Police Foundation or the COPS Office.

Methodology

In order to provide a general review of a broad range of software products that police departments may be using or may be considering for adoption, or that departments may not otherwise be exposed to, the Crime Mapping Laboratory cast a wide net. We adopted a multi-part strategy that allowed us to identify a large number of relevant products. Beginning with products currently used in the Police Foundation Crime Mapping Laboratory, staff members also identified additional software products through their knowledge, training, and experience, including those gained in preparation of the *Crime Analysis and Crime Mapping Information Clearinghouse*, as well as through participation in national mapping conferences (Mapping and Analysis for Public Safety (MAPS) annual conferences and the annual ESRI conference), and through direct contact with police department personnel, product vendors, technical assistance personnel, and company sales staff.

General Review Elements

For the general software review that follows, we created a format to include descriptive material according to the following elements: product name, manufacturer, category, address, phone, fax, email address, website, GIS platforms, operating platforms, and description. The products are arranged alphabetically by the product name. Each of these elements is explained further, as follows:

Product Name: The name of the product as it is marketed.

Manufacturer: The name of the company that manufactures the software.

Category: We divided the products into nine subject areas that best describe the practical application of the software. In some cases, we list more than one category for a product. The nine areas are as follows:

- *Data Acquisition/Data Management* – These are products that assist with data acquisition, integration, linking, and/or data conversion.
- *Geocoding* – Geocoding products assist users with the process of matching police address data to parcels, streets, or geographic areas.
- *Crime Mapping/Crime Analysis* – These products allow a wide range of crime analysis through mapping activities including point pattern mapping and analysis, querying for spatial and temporal analysis, density grids, or simple and complex spatial statistics.
- *Internet Mapping* – These products allow visualization, manipulation, and production of data and maps for viewing on the Internet.
- *Redistricting* – Redistricting products incorporate a variety of data to determine police patrol beat or district boundaries to optimize the efficient use of departmental resources.
- *Emergency Management* – These products are used primarily for emergency management and response, but those eligible for this review include significant mapping capabilities.
- *Other* – We have also reviewed products that fall in a unique category. They are included because they are specialized and more complex software. The categories include: geospatial imaging, geographic profiling, cartography, routing software, vehicle tracking, drawing/design, and GIS applications development.

Contact: This entry includes the name of the company and, where a law enforcement contact or a specific contact person could be identified, the individual's name is also provided.

Address: The address of the manufacturer or contact.

Phone: The phone number of the manufacturer or contact.

Fax: The fax number of the manufacturer or contact.

Email Address: The email address of the manufacturer or contact.

Web Site: The manufacturer's Internet site where information about the products and company itself are located.

GIS Platforms: Many of the software products in this evaluation are extensions or modules that require a basic software package from which to run. Some extensions can run on only one type of software and others can run on many types. The platform(s) necessary to run the software are listed in this field as appropriate. For those products that do not need additional software to run, “stand-alone” is listed in the field.

Operating Platforms: The computer operating system necessary for the product to operate, e.g. Windows 95/98, Windows NT, UNIX, or DOS. System requirements are not specified in this report.

Description: A brief description, in simple bullet format, of the main features and highlights of the software product.

List of Products