

IACP TECHNOLOGY CLEARINGHOUSE



Law Enforcement Technology Program Survey

Projects:

- [Collision Analysis Unit Crash Data Project](#)
 - [PGPD Geographical Information System](#)
 - [Integrated Ballistic Identification System \(IBIS\)](#)
 - [Mobile Data Computer Technology Project](#)
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Agency Name: [Prince George's County Police Department](#)

Technology Program Name: Collision Analysis Unit Crash Data Project

Contact: Sgt. Dave Dennison

Address: 6700 Riverdale Road, Riverdale, MD 20784

Primary Telephone: 301-731-4422

Alternate Telephone: N/A

Fax Number: 301-731-7818

E-mail Address: N/A

Home Page Address: <http://www.co.pg.md.us/pgpolice.htm>

Agency Size: Total Sworn: 1400, Total Civilian: 300

Agency Type: County Police

Technology Program Status: Special Unit Program

Mobile Hardware Type and Quantity: Portable and Desktop Units

Printer: N/A

How is data transmitted from the Field to the Station? Download from Collection Device

How is data transmitted from the Station to State and Data Collection Authorities? N/A

Funding: Funded through a Highway Safety Grant

Hardware Manufacturers: Sokia - Sokia Total Station

Software Manufacturers: DataCom Software - Autosketch, and SDR Mapping and Design

Important Technology Lessons Learned: N/A

Program Narrative Overview: The Special Operations Division - Collision Analysis Reconstruction Unit, is responsible for the investigation and reconstruction all fatal, and serious motor vehicle accidents in the County. The Unit employs technology known as the Total Station technology to collect data at the scene of a collision for later use in scale diagrams. The system consists of a surveyors electronic theodolite attached to an electronic "data collector", which takes the location information of the object mapped from the theodolite and stores it in electronic form in Random Access Memory. The data collector is then taken from the field back to the office. The information is then uploaded to a stand-alone desktop computer, using interface software provided by the Sokia Corp. The data is then plotted graphically on the computer screen using a program call SDR Mapping and Design by Datacom Software. This graphic representation can then be imported into practically any Computer Aided Design (CAD) program for further work. Autosketch is the program used by the unit.

Agency Name: [Prince George's County Police Department](#)

Technology Program Name: PGPD Geographical Information System

Contact: Program Coordinator Carol Keeney

Address: 4923 43rd Avenue, Hyattsville, MD 20743

Primary Telephone: 301-985-3665

Alternate Telephone: N/A

Fax Number: 301-985-3676

E-mail Address: N/A

Home Page Address: <http://www.co.pg.md.us/pgpolice.htm>

Agency Size: Total Sworn: 1400, Total Civilian: 300

Agency Type: County Police

Technology Program Status: Special Unit Program

Mobile Hardware Type and Quantity: Other- Desktop- 1

Printer: N/A

How is data transmitted from the Field to the Station? N/A

How is data transmitted from the Station to State and Data Collection Authorities? N/A

Funding: PGPD GIS is funded through the police department's annual operating budget

Hardware Manufacturers: IBM - Pentium Computer System; Hewlett Packard - Laser Jet Printer

Software Manufacturers: Arcview - Provides GIS Maps and related data; [MapInfo](#) - Provides GIS Maps and related data

Important Technology Lessons Learned: N/A

Program Narrative Overview: The PGPD Geographical Information System (GIS), is a new piece of technology that has been added to the Informational Services Division. The purpose of this technology is to be able to provide investigative personnel, Commanders, and Public Safety Communications personnel, with detailed maps, and database information that can be converted into a format which graphically displays areas where crime is occurring. This data along with other factors can then be used to assist in the reallocation of resources in order to solve crime

problems.

Agency Name: [Prince George's County Police Department](#)

Technology Program Name: Integrated Ballistic Identification System (IBIS)

Contact: Alan Jackson

Address: 7600 Barlowe Road, Palmer Park, MD 20785

Primary Telephone: 301-772-4613

Alternate Telephone: N/A

Fax Number: 301-772-4631

E-mail Address: N/A

Home Page Address: <http://www.co.pg.md.us/pgpolice.htm>

Agency Size: Total Sworn: 1400, Total Civilian: 300

Agency Type: County Police

Technology Program Status: Special Unit Program

Mobile Hardware Type and Quantity: N/A

Printer: N/A

How is data transmitted from the Field to the Station? N/A

How is data transmitted from the Station to State and Data Collection Authorities? N/A

Funding: Jointly funded by the Prince George's and Montgomery County governments.

Hardware Manufacturers: [NEC](#) - Signature Analysis Station, and Data Acquisition Station

Software Manufacturers: [Oracle](#) - IBIS SAS Software

Important Technology Lessons Learned: N/A

Program Narrative Overview: In March 1997, the Department joined forces with the Montgomery County Department of Police, and the Bureau of Alcohol, Tobacco and Firearms in forming the Integrated Ballistic Identification System (IBIS). This system allows the Firearms Examination Unit to process and store images of crime scene evidence for future examination; a task that was previously impossible to perform. The IBIS system has successfully linked 16 crime scenes where firearms have been used. By electronically linking firearm crime scene evidence among eleven forensic laboratories in Maryland and Northern Virginia, FEU can now determine if the same firearm was used in multiple crimes. This determination can also be made on a national basis if necessary.

Agency Name: [Prince George's County Police Department](#)

Technology Program Name: Mobile Data Computer Program

Contact: Lt. Jeff Youmans, Cmdr., Mobile Technology Section

Address: 4923 43rd Avenue, Hyattsville, MD 20781

Primary Telephone: 301-985-5970

Alternate Telephone: 301-985-3661

Fax Number: 301-985-5393

E-mail Address: JJYoumans@co.pg.md.us

Home Page Address: <http://www.co.pg.md.us/pgpolice.htm>

Agency Size: Total Sworn: 1,400. Total Civilian: 300.

Agency Type: County Police

Technology Program Status: Deployed and in operation

Mobile Hardware Type and Quantity: Three-piece modular mobile unit (Datalux Tracer 2000) - 850 in cars, 41 Dell desktops, 19 portable Panasonic CF-27s.

Printer: Lexmark laser (for use with desktops only -- no printers in mobile environment).

How is data transmitted from the Field to the Station? Wireless via Verizon CDPD

How is data transmitted from the Station to State and Data Collection Authorities?

Wireless via Verizon CDPD

Funding: US Department of Justice - Community Oriented Policing Services COPS MORE '96 and COPS MORE '98 Grants.

Hardware Manufacturers: Primary: [Datalux](#) (Tracer 2000), [Sierra Wireless](#) MP200GPS modems.

Software Manufacturers: [Public Safety Technologies](#), supplies core MDC software (RADCOM) and CAD interface software and other interfaces, Microsoft Windows 98SE. [MetaMAP](#), supplies MetaVUE - mobile satellite-linked mapping with GPS functionality. [Impact Solutions](#), supplies Xpediter - mobile field reporting software.

Important Technology Lessons Learned: The project is in operation with 850 mobile units in use. Implementation of new applications including field reporting and mobile mapping is underway in both training and deployment modes. One of our most important lessons was to ensure end users were kept involved in as many decisions as possible, particularly as related to ergonomics in the cars. The other critical element of our success to date is the use of a system integrator (ARINC, Annapolis, MD, 410-266-4000) without whom this program could not have succeeded.

Program Narrative Overview: Funded by more than \$10 million in COPS MORE grants, the Department is deploying among the largest and most complex MDC programs of its kind. Officers are using 850 MDCs in the field to run tag, person and property queries, receive calls via the CAD and send and receive instant text messages from dispatchers and other officers. Officers typically receive 3 to 15 returns off each tag query, usually within seven seconds or less. All transmissions are wireless using Verizon's CDPD network. (Verizon has said it will continue to support CDPD for the next 4-5 years). Forty-one LAN-connected desktop models are placed throughout the department for use in district stations, investigative sections and others. These desktops contain the mobile software and can perform all the functions of the mobile units (except GPS), in addition to having laser printers attached. Implementation of additional applications including field reporting and mobile, GPS-enabled mapping is in progress as well. Due to the size of the agency, deployment is done by districts to ensure applications are running as designed and that users are properly trained. All training is done in-house by officers assigned to the Mobile Technology Section. Officer satisfaction with the system is very high.