Mapping the Future of Law Enforcement

ESRI® GIS Software

ESRI

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On any given day, more than one million people around the world use ESRI's geographic information system (GIS) technology to improve the way they conduct business. Founded in 1969, ESRI's GIS solutions are an integral component in nearly every type of government service.

One of the most important responsibilities of government is providing safety and security for citizens and communities. Law enforcement agencies labor diligently to match resources with an ever-increasing volume of service calls.

Today's police agencies work not only in the traditional sense "to protect and serve" but also in nontraditional duties such as homeland security. The ability to quickly and efficiently collect and process data from multiple agencies and sources is crucial due to the mission critical nature of law enforcement. Technology plays an important role in helping the law enforcement community meet these commitments, and GIS leverages the geographic component inherent in virtually all data to create an optimized technology solution.

GIS provides an optimized environment for capturing, integrating, and visualizing information. The software's mapping and reporting tools provide better crime analysis for proactively preventing crime and deploying resources in the event of an emergency. It also gathers data from existing databases, such as computer-aided dispatch (CAD) and records management systems, giving multiple departments and users a common framework for sharing information and enhancing the communication process.

ESRI® GIS software solutions and ESRI's strong group of business partners help government entities meet the challenges facing law enforcement today and in the future. Police, fire, public works, building and safety, water, engineering, utilities, and other disciplines have long recognized the value of ESRI GIS software for analysis, planning, and decision support. Some benefits of using GIS in law enforcement include

- Saving time and money
- Improved and timely decision support
- Improved tactical/response capabilities
- Improved resource location and allocation
- Improved planning capabilities
- Real-time management of field data
- Improved analytical capabilities

Managing a Community's Law Enforcement Efforts

Law enforcement agencies face a multitude of challenges protecting life and property and keeping the peace in their communities. Virtually every task has a geographic component. These tasks require both strategic and tactical planning in rapidly changing social, economic, and political environments. While law enforcement agencies collect vast amounts of data, only a portion of this information can be absorbed from spreadsheets and database files. GIS provides an integrated method to display and analyze all types of data, allowing law enforcement agencies to better leverage information for crime prevention.

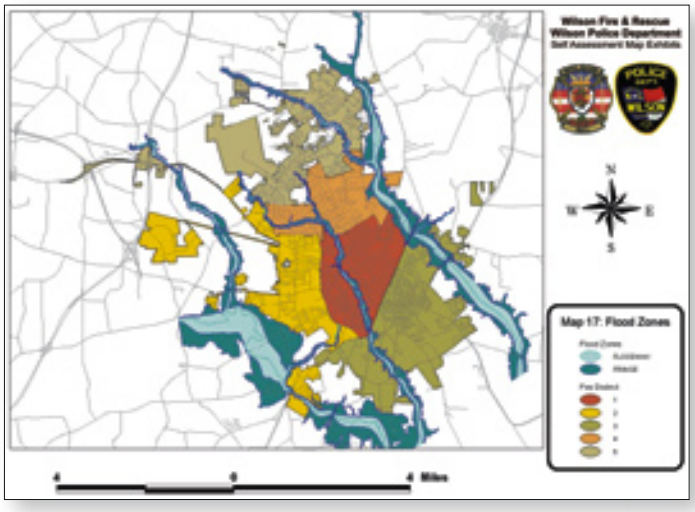
All emergencies, whether caused by nature or people, begin locally and elevate to county, regional, state, or national levels depending on the severity, complexity, size, and nature of the event. During these events, law enforcement managers need the right information at the right time to deploy resources, implement plans (tactical, emergency, evacuation, etc.), establish medical or other aid, and manage events as they unfold.

GIS is the next step in the evolution of information technology. It is a core data management and analysis tool embraced by professionals in all areas of law enforcement for conducting day-to-day operations as well as for planning, analysis, and decision support.

"GIS allows departments to present complicated crime and disorder problems in a manner easily understood by the citizens they serve. By using GIS, communities can work to reduce the factors that put young people at risk for substance abuse, delinquency, and violence. One of community policing's great promises can then be fulfilled—true collaboration between the police and their communities resulting in the control of crime before it occurs."

James R. Bueermann, Chief of Police, Redlands, California

Benefiting From the GIS Enterprise



Wilson, North Carolina, Flood Zone Map Produced by Wilson Police and Wilson Fire & Rescue Service

GIS has expanded from a niche technology used by specialists to an enterprise technology platform used throughout an organization. Although law enforcement is one of the chief beneficiaries in an enterprise GIS, local, state, and federal government agencies use GIS in virtually every department including public works, planning, public health, building and safety, and many more. Enterprise GIS provides valuable information on property ownership; accessible streets and highways; hazardous material locations; fire preplans; zoning information; and a vast amount of other information valuable to first responders, law enforcement administrators, and general community safety.

"Wilson Police and Fire are using GIS to share and combine data to identify common 'hot spots,' where a high volume of emergency incidents are being experienced, as well as for developing an overall community safety strategy."

John Powell, Police Chief, Wilson, North Carolina

"One of the greatest benefits in developing an enterprise database was the partnering of all departments in the city and identifying the critical points in our community to develop long-term prevention and mitigation plans."

Don Oliver, Fire Chief, Wilson, North Carolina

GIS for Law Enforcement—In Action

Tuesday, November 12, 2002—President George W. Bush, along with Homeland Security Advisor Tom Ridge, left, and District of Columbia Mayor Anthony Williams, far left, listen to Police Chief Charles Ramsey explain the district's Metropolitan Police Department Synchronized Operations Center. The ESRI GIS technology illustrated was proven to be a vital component in critical situational awareness and analysis in the D.C. sniper case and other events.

White House photo by Paul Morse

Pierce County Sheriff's Department developed an online sex offender registry.

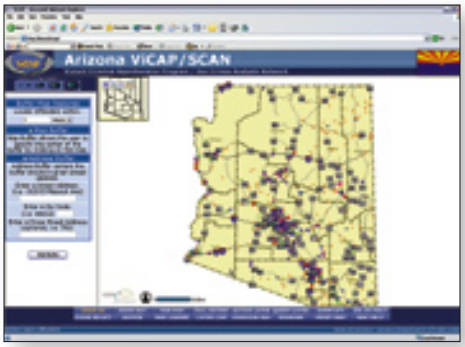
Pierce County Sheriff's Department

In accordance with Washington state laws, Pierce County wanted to supply citizens with information on registered sex offenders residing in their county.

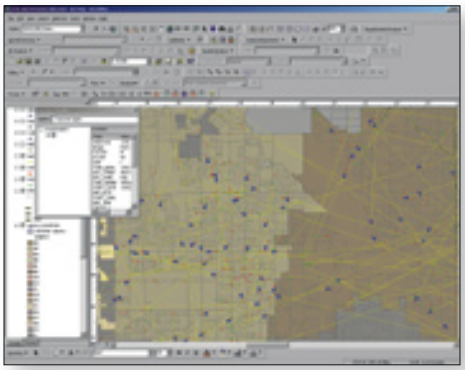
Pierce County now offers a greater level of citizen service in a cost-effective manner. The registered sex offenders Web site receives 5,000 visitors per month. Since each visitor would represent an estimated five minutes of staff time, without the Web site the county would need an additional 12 people to handle these requests.

GIS Applications

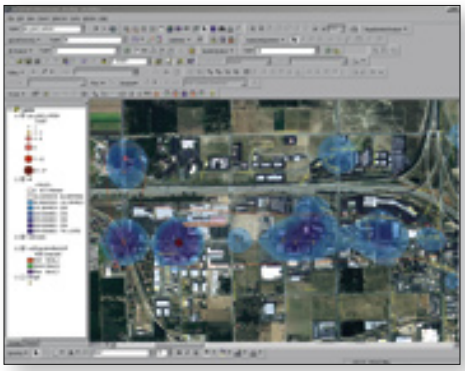
GIS is used by law enforcement agencies in hundreds of applications throughout the world. ESRI and ESRI business partners provide GIS solutions for every need for thousands of law enforcement agencies throughout the United States and the world.



Arizona DPS links its database to the FBI's Violent Crime Apprehension Program (ViCAP), allowing law enforcement officials to access crime analysis information involving all types of violent crimes.



This regional crime analysis application portrays auto thefts across multiple jurisdictions.



Hot Spot Analysis of Auto Thefts Along Interstate 10 in Redlands, California

Crime and Investigative Analysis

Crime mapping provides a valuable spatial element to crime analysis. GIS takes the traditional statistical information used in crime analysis and places it on a map, showing specific crime patterns and relationships. And, like crime mapping, associating nonemergency service calls and noncriminal incidents on a map assists managers and supervisors in placing manpower in areas where they are most needed and at the ideal time. GIS enables agencies to do predictive modeling or forecasting to manage field assignments and investigative efforts. GIS analysis of traffic data assists in the identification of selective enforcement locations; for instance, spatial analysis helps examine locations of citation issuance against accident locations, types of citations issued, accidents involving impaired drivers, and a multitude of other issues.

Accountability

Many agencies have engaged in a process to increase accountability among management, supervisory, and line personnel. GIS is central to this effort. This process has a variety of forms and names including COMSTAT, CAM, ACUDAT, COMSTAC, FASTRAC, and many others. This process of GIS-based geoaccounting focuses on determining if the agency, area, or beat crime/incident information is accurate and timely; if the response was focused, coordinated, and rapid; what tactics were employed and what their level of effectiveness was; and, finally, if there is continuing follow-up by command staff to determine whether activities were carried out throughout the organization and, specifically, by field personnel.

Community Policing

GIS enables agencies to employ traditional community policing methods (scan, analyze, respond, and assess) to identify and respond to nontraditional issues such as the potential relationship between neighborhood blight or school dropout rates and juvenile-related offenses. The combination of traditional crime data with other data sets in a GIS (e.g., unemployment, teen pregnancy, educational achievement, single-parent households) can have a powerful effect in focusing local resources to address community problems. In addition, GIS can be used to integrate demographic, housing, business, and other data for profiling neighborhoods; site community policing offices and recreation or senior citizen centers in proximity to service populations; evaluate the location and proximity of liquor licensees and adult entertainment businesses; and perform a multitude of related tasks and analyses.

Public Information

Internet/Intranet capabilities enable an agency to serve information to substations or other regional agencies as well as to the public. Crime analysis information can easily be shared within an agency or multiple agencies using an Intranet application. Similarly, agencies can share information with their communities via the Internet to inform as well as enlist help and support.

Criminal Intelligence

GIS is an extremely effective tool in intelligence-led policing for such community-based efforts as the fight against drugs and gangs. It is also valuable to intelligence units in providing a spatial component to their intelligence information. This information can display where criminal suspects were in the same area at the same time or provide a greater understanding of an issue when combined with link analysis and other crime analysis tools.

Management Analysis

Police managers are constantly wrestling with the dilemma of meeting ever-increasing demands for services with stable or decreasing resources. GIS provides the tools and analysis capability to quickly address issues that speak directly to service delivery such as improved response time and performance, more effectively managed resources, improved productivity, and good workload distribution. For example, managers can routinely examine their workload geographically as well as temporally so they can quickly redistrict police service areas or beats for maximum effectiveness.

Emergency/Event Management

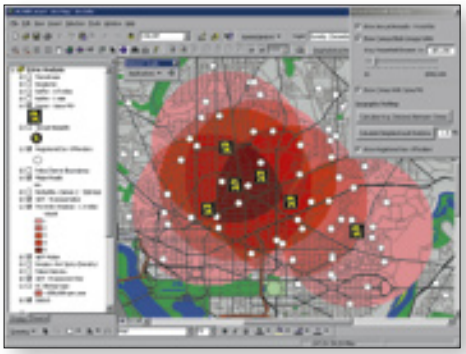
GIS is instrumental in assisting with many different strategic and tactical problems such as warrant services, SWAT incidents, domestic terrorism, search and rescue operations, disasters, court presentations, and others. During an event or disaster, GIS is a valuable medium for quickly sharing information and improving the decision making process (situational awareness). ESRI GIS is used for major sporting events, presidential conventions, civil disturbances, earthquakes, hurricanes, toxic spills, and a myriad of other problems. GIS is used not only to respond to an emergency event but in planning, mitigation, preparedness, and postevent recovery.

Mobile/In-Vehicle Mapping

Both police and communications personnel have long believed that the best response to a call is an informed response. GIS provides the capability to put valuable, potentially lifesaving information in the hands of first responders while en route to a call. GIS provides the opportunity for officers, supervisors, and managers to understand where each one is in relation to the crime scene, perimeter, or other potential hazards. GIS gives responding officers local maps, school or business floor plans, locations of high-risk sex offenders, and many other types of critical information at their fingertips on mobile data computers in their vehicles.

Resource Tracking and Management

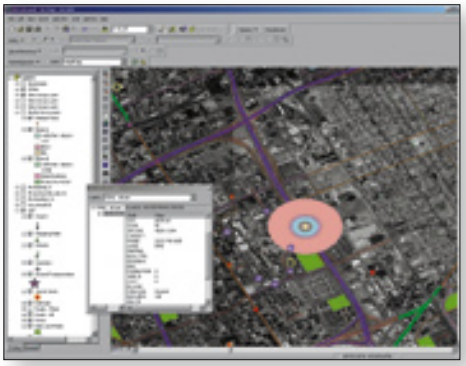
GIS provides law enforcement officers with the capability of automated vehicle location (AVL) for all patrol vehicles, aircraft, and watercraft. This information is crucial in determining the closest officer to a call, in day-to-day tactical considerations such as creating a perimeter to apprehend a subject and, most important, for officer safety. Vital information, such as the vehicle's current location, whether specialized weapons have been released from their electronic locks, and whether the vehicle is stopped or moving, can be monitored by communications personnel. In addition, fixed assets can be mapped and identified with GIS to provide a better geographic orientation to all department personnel.



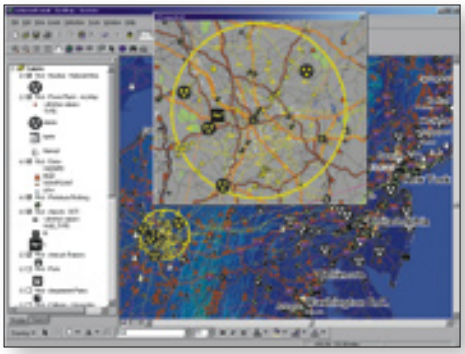
Proximity Analysis of Sexual Crimes With Known Sex Offender Locations

"GIS in law enforcement is not just about creating attractive layouts for the annual report or slides for the budget presentation—it's about helping agencies in their core mission of maintaining public safety. Geographic crime analysis enhances the efforts of our officers on the street and helps them do a better job."

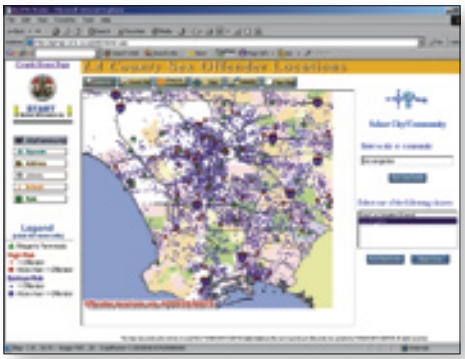
Tom Casady, Chief of Police
Lincoln Police Department, Nebraska



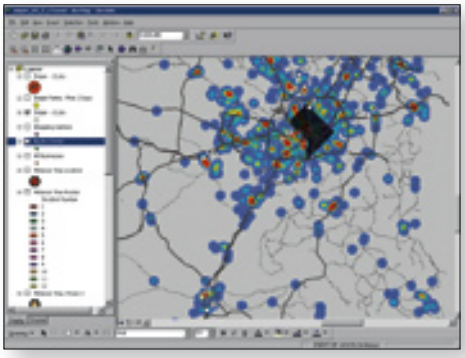
Blast Analysis From Potential Explosive Device Along an Interstate Highway



Critical Infrastructure Identification and Risk Assessment for Homeland Security



ArcIMS Software-Based Application Built for Los Angeles County to Identify Known Sex Offender Locations



Geographical Analysis of Serial Crime Events in a Metropolitan Area

Homeland Security

GIS can be used to develop a community's homeland security response plan by identifying the location of schools, medical centers, staging areas, and evacuation routes. Before an emergency, GIS can identify critical infrastructure (e.g., water treatment plants, communications networks) and choke points (transportation, utilities, and others) in the community as well as assist an agency in developing mitigation strategies. During an emergency, GIS can be used to route response vehicles and evacuations, locate and track resources, model events, determine rescue priorities, and perform many other tasks.

911/Communications

911 and computer-aided dispatch systems are responsible for receiving, locating, and dispatching appropriate law enforcement personnel to an emergency call. Although ESRI does not specifically build 911 or CAD-related applications, ESRI business partners specializing in computer-aided dispatch and 911 applications use ESRI GIS to provide the geocoding, editing, display, and mapping elements for their applications.

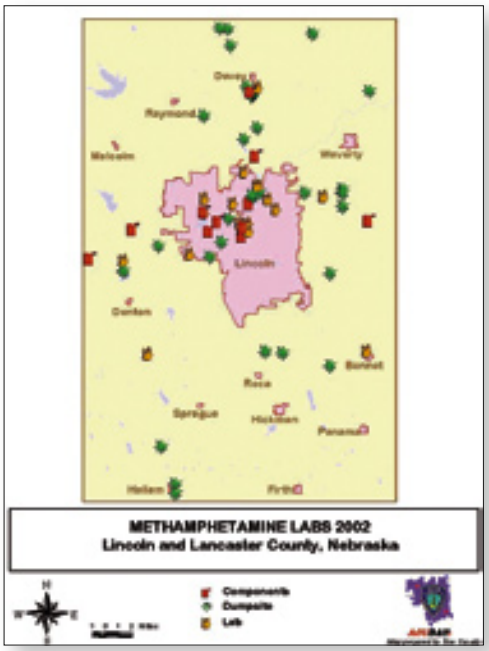
Specialized Applications

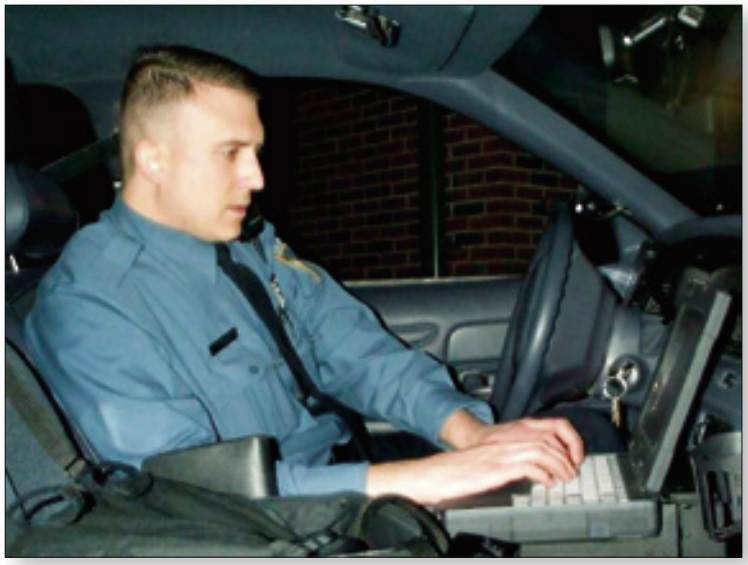
There are a number of specialized GIS applications employed by law enforcement agencies throughout the United States and the world available through ESRI and its business partners. These include

- Geographic profiling—Geographic profiling uses the locations of a connected series of crimes to determine the most probable area of offender residence.
- Gunshot location identification—GIS can be used to immediately determine the exact location of a gunshot in an urban setting.
- Roadblock/Perimeter response—GIS can be used to set perimeters and roadblocks at intervals based on time since event and travel.
- Emergency notification—This is a mapping interface that allows users to geographically select areas needing notification; then E911 or regular telephone data can be used to contact each household/business in that area with a recorded message.
- Severe weather notification.
- Case preparation, crime scene investigation, and documentation.

"Police departments collect huge amounts of geographic data in the ordinary course of business. Computer-aided dispatch systems and police records management systems are filled with records of crimes, incidents, dispatches, suspects, arrests, and intelligence information—all of which contain places and addresses. Reports, lists, tables, and cross tabulations litter the desks of supervisors, managers, and investigators. But GIS brings this data alive in a way that can't be matched by a thick stack of green-striped paper. It enlists the power of an incredibly versatile and powerful instrument that is peculiarly effective in interpreting complex information—the human eye. GIS provides an intuitive visual interface that makes obvious the patterns that would otherwise be lost in the sheer volume of events and dispatches."

Tom Casady, Chief of Police, Lincoln Police Department, Nebraska





Law enforcement officers in Lincoln and Lancaster County, Nebraska, identified methamphetamine labs.

Information Is Power—Power Up Your GIS!

ESRI GIS solutions offer the ability to incorporate a wealth of data sources from inside and outside an organization.

- Do-It-Yourself
  - Digitizing
  - Key Entry
  - GPS
  - COGO
  - Scanning
  - CAD Data
- Private Sources
  - Third Party (ArcData℠)
  - Internet Conversion Vendors
  - Data Conversion Vendors
- Geography Network
- Government Sources
  - Federal Agencies
  - State Agencies
  - Councils of Government
  - State Clearinghouses
  - Local Government Agencies

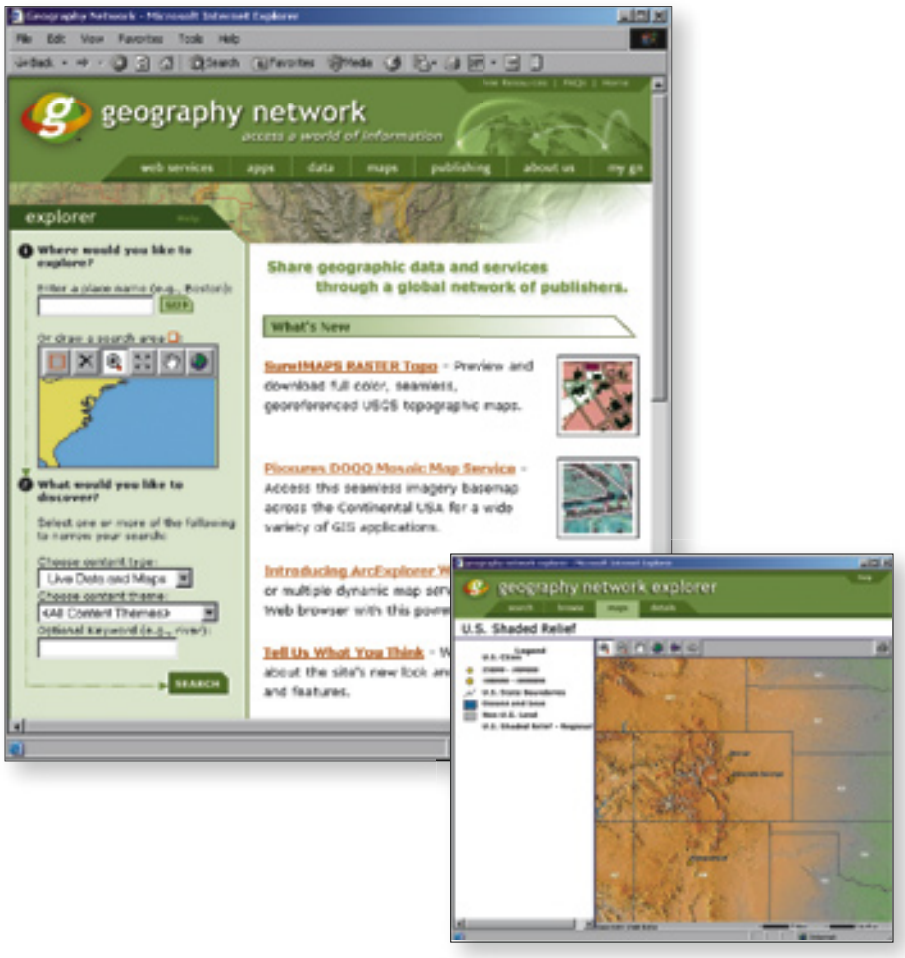
ESRI GIS solutions offer the ability to incorporate a wealth of data sources from inside and outside an organization.

Data is available from federal and state agencies, state clearinghouses, councils of government, and local government agencies. Much of this data can be obtained at low or no cost or through data sharing agreements with other jurisdictions.

Another often overlooked information source is the legacy data created by an organization over the years. These existing data sets can be joined with others for use outside the specific department in which they were created. For example, by combining parcel data from planning with business license records from the finance department, revenue auditing can be more effectively conducted.

The Geography Network

The Geography Network℠ is a global community of government and commercial data providers that are committed to making geographic content easily accessible. This Internet portal allows people to publish, share, and use geographic data and services on the Web. It is available to private, public, and commercial users; data publishers; service providers; and developers around the world. Content may be provided in the form of data, maps, or more advanced services and solutions. Those interested in economic development data can access the Geography Network to find data about streets, demographics, boundaries, points of interest, and business listings.



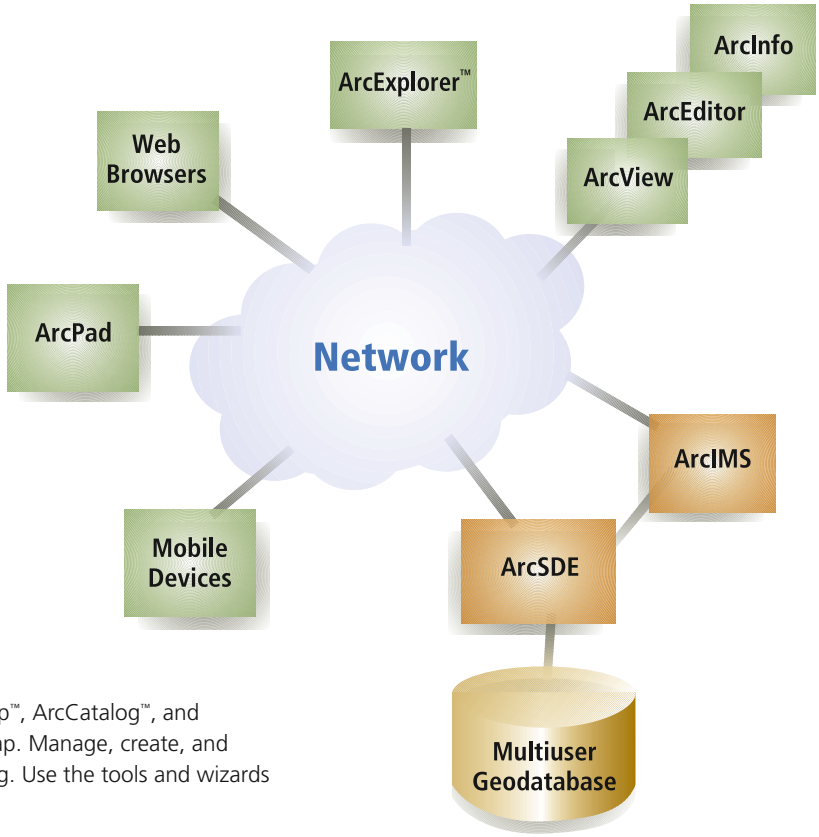
The ESRI Family of GIS Solutions

ESRI has solutions that can be deployed on the desktop, on the Web, or across the enterprise.

ESRI has solutions that can be deployed on the desktop, on the Web, or across the enterprise. ESRI products work in an integrated and flexible manner. They provide the right software for an organization's needs today and can be scaled to meet future needs.

ArcGIS

ArcGIS®, a family of software comprising a complete GIS, is built on industry standards. Out of the box, it provides rich functionality, and the applications in ArcGIS—ArcView®, ArcEditor™, ArcInfo™—can be configured to match an organization's needs. Built out of modern object-based components, these software programs share the same core applications, user interface, and operating concepts. ArcGIS is used for the creation, management, integration, analysis, display, and dissemination of spatial data. Strong visualization, editing, and analysis, along with advanced data management, distinguish the ArcGIS software family as the leading GIS software.



ArcView

ArcView is designed with an easy-to-use, Windows®-like user interface and includes Visual Basic® for Applications (VBA) to allow for customization. ArcView consists of three desktop applications: ArcMap™, ArcCatalog™, and ArcToolbox™. Display, query, and analyze data in ArcMap. Manage, create, and organize geographic and tabular data using ArcCatalog. Use the tools and wizards in ArcToolbox to convert data to other formats.

ArcEditor

ArcEditor is a state-of-the-art GIS data visualization, query, and creation solution. Designed for the Windows desktop, ArcEditor can create and edit all ESRI-supported vector data formats including shapefiles, coverages, personal geodatabases, and multiuser geodatabases.

ArcInfo

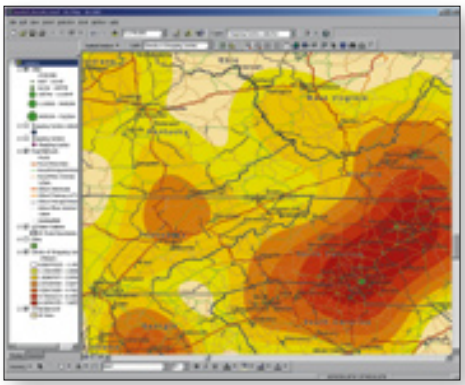
ArcInfo is the complete GIS data creation, update, query, mapping, and analysis system. ArcInfo includes the most comprehensive collection of GIS tools available. As part of the ArcGIS software family, ArcInfo encompasses all the functionality of ArcView and ArcEditor and adds the advanced geoprocessing and data conversion capabilities that make it the de facto standard for GIS.

ArcSDE

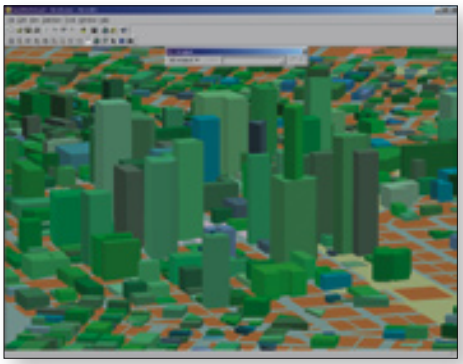
ArcSDE® is the GIS gateway for managing spatial data in a database management system. ArcSDE allows users to manage geographic information in commercial databases, such as IBM® DB2® Universal Database, Informix®, Microsoft® SQL Server™, and Oracle®, as well as serve ESRI's file-based data.

ArcGIS Extensions

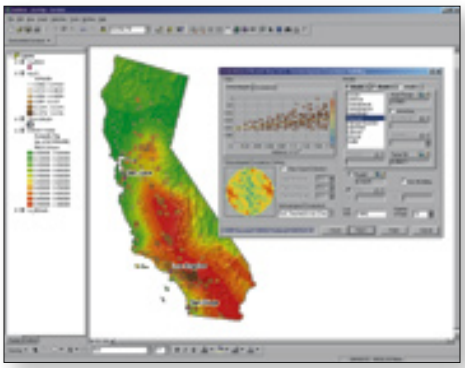
These optional extensions dramatically extend functional capabilities of ArcGIS.



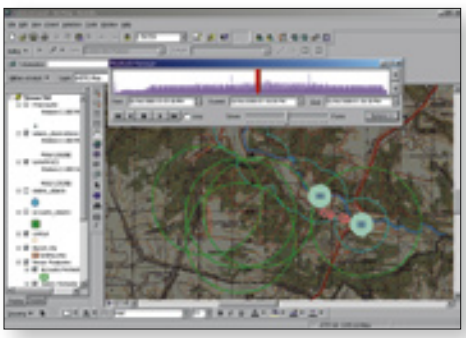
ArcGIS Spatial Analyst



ArcGIS 3D Analyst



ArcGIS Geostatistical Analyst



ArcGIS Tracking Analyst

ArcGIS Spatial Analyst

Take advantage of the broad range of powerful spatial modeling and analysis features available with ArcGIS Spatial Analyst. Create, query, map, and analyze cell-based raster data; perform integrated raster/vector analysis; derive new information from existing data; query information across multiple data layers; and fully integrate cell-based raster data with traditional vector data sources.

ArcGIS 3D Analyst

Use the advanced tools provided by ArcGIS 3D Analyst™ for three-dimensional visualization, analysis, animation, and surface generation. Unique features of ArcGIS 3D Analyst include support for triangulated irregular networks (TINs) and simple three-dimensional vector geometry as well as interactive perspective viewing.

ArcGIS Geostatistical Analyst

This powerful suite of tools for spatial data exploration and optimal surface generation uses sophisticated statistical methods. With ArcGIS Geostatistical Analyst, users can create a surface from limited data measurements in situations in which extensive data collection is impractical or impossible.

ArcGIS StreetMap USA

This ArcGIS extension provides nationwide address matching and street map display for the entire United States. ArcGIS StreetMap™ USA layers automatically manage, label, and draw features such as local landmarks, streets, parks, water bodies, and others. ArcGIS StreetMap USA can find addresses in the United States by interactively matching a single address or by batch matching from a file of addresses.

ArcPress for ArcGIS

ArcPress™ for ArcGIS provides a PostScript-based raster image processor (RIP) for quickly printing high-quality maps and exporting map files. ArcPress for ArcGIS translates maps into industry-standard export formats or a printer's native language.

MrSID Encoder for ArcGIS

This extension efficiently uses large georeferenced images in ArcGIS. The MrSID® Encoder for ArcGIS extension can encode large image files into smaller-sized high-quality MrSID files and is ideal for use with maps, satellite images, and aerial photographs.

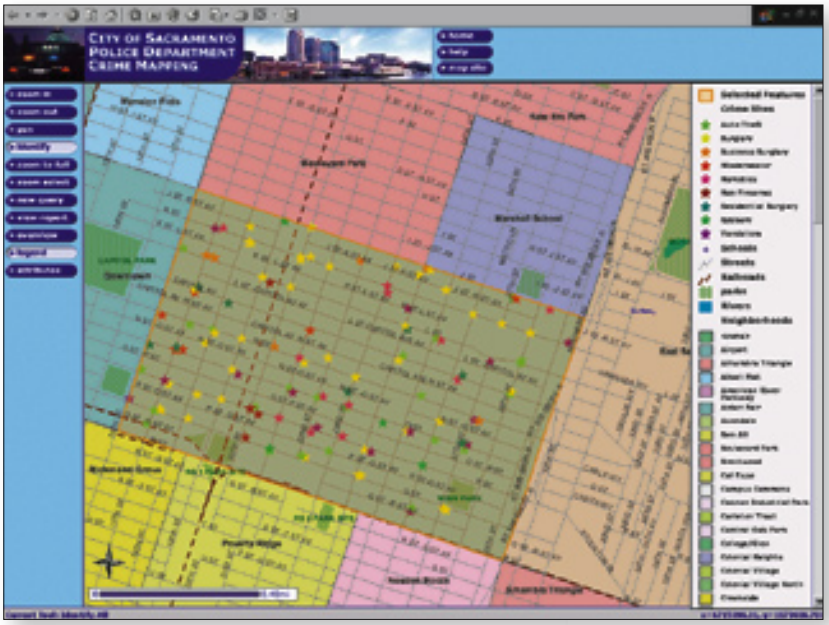
ArcGIS Tracking Analyst

ArcGIS Tracking Analyst is an ArcGIS extension that provides capabilities for the visualization and analysis of time-related data by defining "temporal events" that consist of the following information: time—the date and time of the event, position—the geographic location of the event, and attributes—object specific characteristics and properties. The extension allows users to view and analyze existing temporal data, which can be set up with future time windows (for mission planning) or past time windows (for historical data analysis).

Internet and Mobile GIS

ArcIMS

ArcIMS® software is the foundation for distributing GIS data and applications on the Internet. By providing a common platform for sharing GIS resources, ArcIMS can integrate information within and between agencies. ArcIMS can serve geographic information to a variety of clients, integrate services with ESRI's ArcGIS Desktop products, provide secure access to map services, and create a central repository for publishing and browsing metadata. ArcIMS extensions allow publication of ArcGIS documents and supply routing and point-to-point driving directions. ArcIMS supports Windows, UNIX®, and Linux® platforms.



ArcIMS

ArcPad

ArcPad® software, a mobile GIS technology, makes data collection in the field easy and efficient. Using a handheld device, GIS data copied from a desktop computer or obtained from the Internet via wireless connection can be accessed virtually anywhere. Custom forms tailored to data collection activities make staff more productive and improve accuracy. Global positioning system receivers can be added for direct capture of locational data.

ArcPad

RouteMAP IMS

RouteMAP™ IMS lets clients add mapping and routing capabilities to Web sites easily. RouteMAP IMS software resides on the server, allowing the user to change, edit, and serve an unlimited number of maps and routes and retain total control of the content and user interface. It can be customized and comes with data sets for the United States, Canada, and Europe and includes Dun & Bradstreet business listings for the United States.

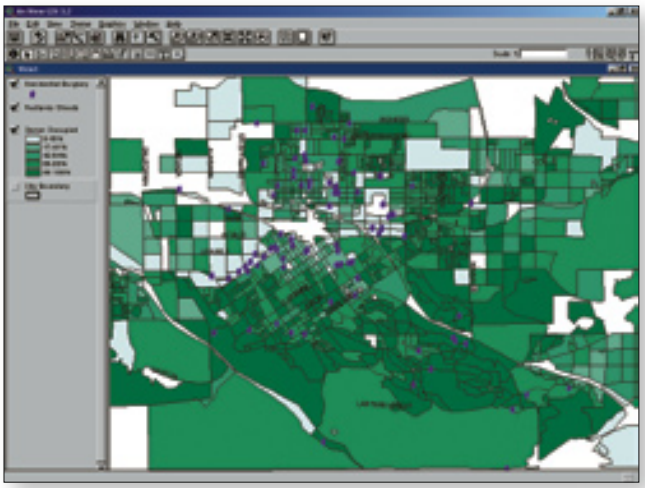
ArcWeb Services

ArcWeb℠ Services are ESRI's family of hosted GIS Web services. They offer users a way to provide GIS content and capabilities in applications without having to host the data or develop the necessary tools. The result is significant savings of time, expense, and computer resources.

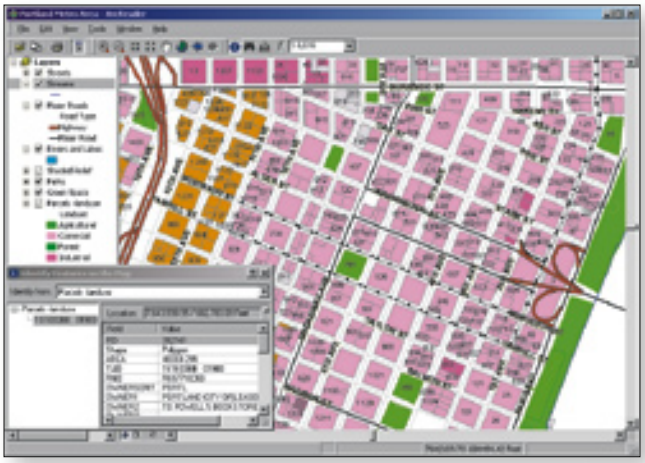
ArcWeb USA

ArcWeb USA provides an easy and cost-effective way to access up-to-date nationwide data and services without the overhead of maintaining and warehousing data. ArcWeb USA is a comprehensive collection of Web services from ESRI providing access to a variety of imagery, street data, demographic information, topographic data, and more. ArcWeb USA also includes nationwide geocoding and routing capabilities, gazetteer functions, and reporting tools. ArcWeb USA integrates directly into the ArcGIS Desktop through the ArcWeb toolbar.

GIS Solutions



ArcView 3.x



ArcReader

Full-Service Support

ESRI fully supports clients throughout the process of acquiring and implementing a GIS from an initial needs assessment to system design and development. Services offered include implementation planning, system acquisition and integration, database design and automation, applications programming, education and training, and technical support.

ArcView

ArcView is the most popular desktop GIS and mapping software, with more than 500,000 copies in use worldwide. With ArcView users can create intelligent, dynamic maps utilizing data from virtually any source and across the most popular computing platforms. ArcView includes tools and data that can be used immediately to perform state-of-the-art analysis on key issues. It lets users work with maps, database tables, and business charts all in a single application. Also, ArcView can be customized to fit a user's needs with Avenue™ scripting language included in the product.

ArcView Network Analyst

The ArcView Network Analyst extension enables users to solve a variety of problems using geographic networks (e.g., streets, highways, rivers, pipelines, electric lines) such as finding the most efficient travel route, generating travel directions, finding the closest facility, or defining service areas based on travel time.

ArcView Business Analyst

ArcView Business Analyst can make a government instantly productive. Agencies can use this powerful desktop solution to develop community profiles for long-range planning. An easy-to-use wizard interface guides the user through complex analyses. ArcView Business Analyst comes with data from Uniform Data Systems; Geographic Data Technologies, Inc.; and Experian as well as a nationwide street network. Analysis procedures are built into the software so the user can focus on results rather than the details of the underlying technology. ArcView Network Analyst for routing and drive-time analysis is included with ArcView Business Analyst.

ArcLogistics Route

ArcLogistics™ Route is a stand-alone application for vehicle routing and scheduling. It optimizes routes and schedules and outputs maps, directions, and reports. Routes are built based on actual network drive times instead of straight-line distances.

ArcReader

ArcReader™ is a lightweight, free map viewer for ArcGIS that provides GIS users with a method to publish and share electronic maps locally, over local networks, and via the Internet. ArcReader makes it easy to view, explore, and print interactive maps. Read-only maps protect data from unauthorized modification.

ESRI

Bringing GIS to the World

ESRI has been the world leader in the GIS software industry for more than 30 years. As the leader in GIS technology, ESRI offers innovative solutions that will help users create, visualize, analyze, and present information more clearly and make better decisions.

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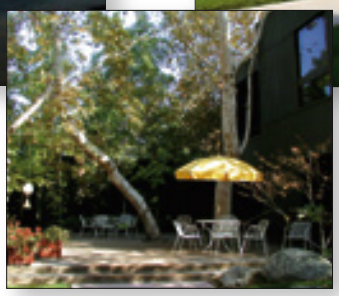

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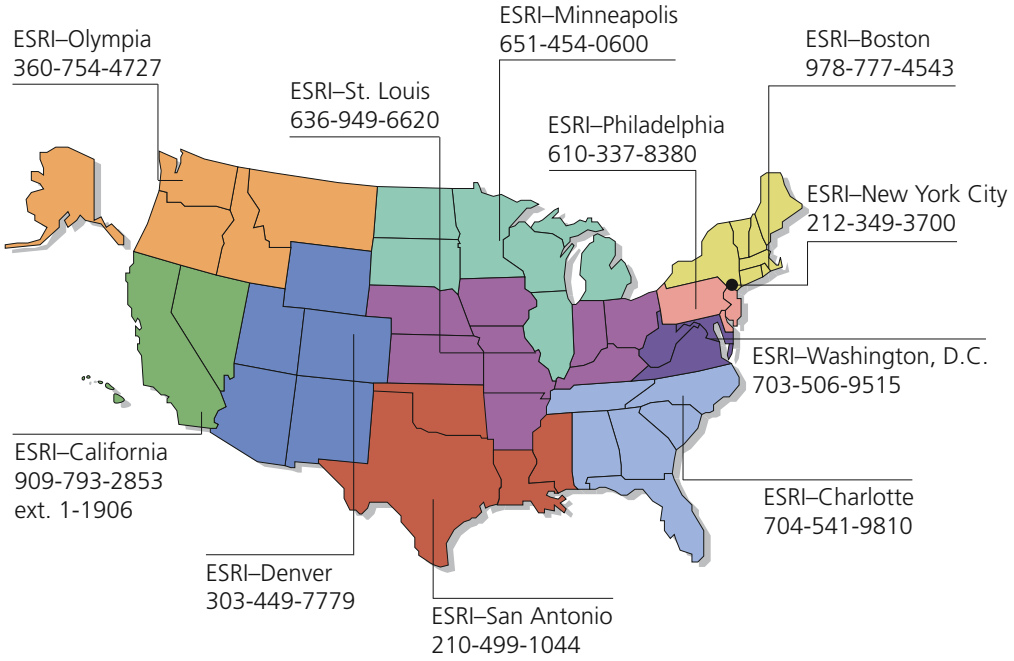

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