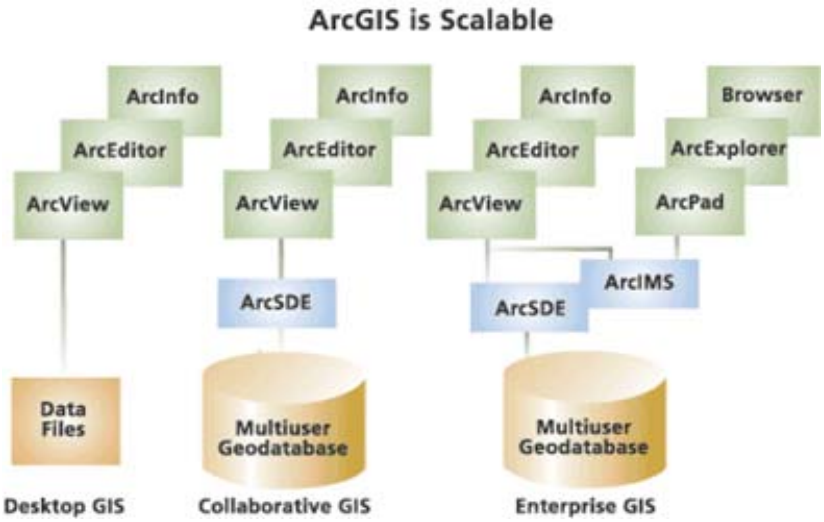
ArcWhatever: A Short Explanation of Some ESRI Products

ArcGIS is a complete, single, integrated system for geographic data creation, management, integration, and analysis. ArcGIS is scalable since it can be deployed on an individual desktop or across a globally distributed network of people.

ArcGIS Desktop refers to a suite of four integrated core applications: **ArcReader**, **ArcView**, **ArcEditor** and **ArcInfo**.

- The ArcGIS Desktop products (ArcView, ArcEditor, and ArcInfo) are Internet-enabled and can seamlessly integrate data from any ArcIMS server for analysis with local data.
- Organizations deploy the software and extensions of ArcGIS, ArcView, ArcEditor, ArcInfo, ArcSDE, and ArcIMS in a configuration appropriate for their needs.
- Shasta County currently has a number of ArcView and ArcInfo licenses available to employees for GIS uses.



Complete GIS

ArcReader is a free, easy-to-use product that allows anyone to view, explore, and print published map files.

ArcView includes all the functionality of ArcReader and provides data visualization, query, analysis, and integration capabilities along with the ability to create and edit simple geographic features.

ArcEditor is the complete GIS desktop system for editing and managing geographic data. **ArcEditor** is a member of the ArcGIS family of GIS products and includes all the functionality of ArcView in addition to comprehensive GIS edit tools.

ArcInfo is the most complete and extisible GIS available. It includes all the functionality of Arcview and ArcEditor and add advanced geoprocessing and data conversion capabilities. Professional GIS users use **ArcInfo** for all aspects of data building, modeling, analysis, and map display for screen and output.

ArcSDE is a server software product used to access massively large multiuser geographic databases stored in relational database management systems (RDBMSs). It is an integrated part of ArcGIS and a core element of any enterprise GIS solution.

ArcIMS is the solution for delivering dynamic maps and GIS data and services via the Web.

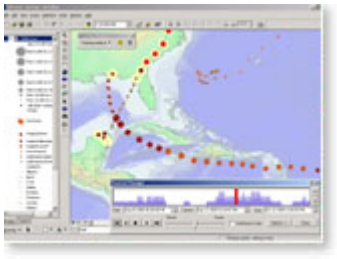
ArcPad software is mobile mapping and geographic information system (GIS) technology.

ArcGIS Extensions:

ArcGIS 3D Analyst Extension
ArcGIS Geostatistical Analyst Extension
ArcGIS Spatial Analyst Extension
ArcGIS Business Analyst
ArcGIS Miliraty Analyst Extension
ArcGIS Maplex Extension
ArcGIS Survey Analyst Extension
ArcGIS Tracking Analyst Extension
ArcScan for ArcGIS Extension
ArcGIS StreetMap USA
ArcGIS Publisher Extension
ArcPress for ArcGIS
ArcGIS ArcScan
ArcGIS Data Interoperability

ArcGIS Tracking Analyst provides tools for playback and analysis of time series data. Tracking Analyst helps visualize complex time series and spatial patterns and interactions while integrating with all other GIS data within the ArcGIS system.

With ArcGIS Tracking Analyst you can



- Play back historical data.
- Use rule-based drawing.
- See temporal patterns in data.
- Integrate temporal data within your GIS.
- Leverage existing GIS data to create time series visualizations.
- Build charts for analyzing change in historical or real-time data.

ArcGIS Tracking Analyst extends the ArcGIS Desktop with time series and real-time visualization of change.

ArcExplorer is a lightweight GIS data viewer developed by ESRI. This freely available software offers an easy way to perform a variety of basic GIS functions, including display, query, and data retrieval applications. It can be used on its own with local data sets or as a client to Internet data and map servers.

With ArcExplorer you can:

- Freely distribute the ArcExplorer installation and your data CDs so recipients can view your data effectively.

- Display and query a variety of standard data sources including:
  - ESRI shapefiles
  - ArcInfo coverages
  - ArcSDE layers
  - Images
  - ArcIMS Services (i.e., Geography Network sources)

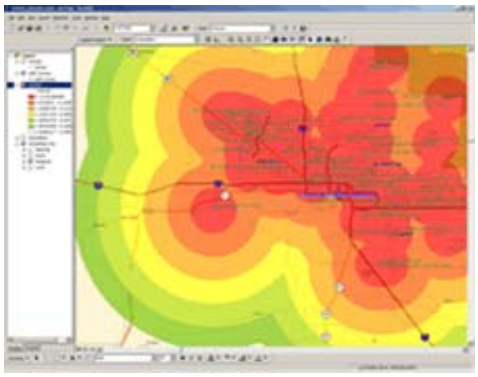
- Pan and zoom through multiple map layers and identify, locate, and query geographic and attribute data.
- Symbolize your data based on attributes contained in your data layers to create thematic maps.
- Perform basic spatial analysis tasks on the geographic data, such as selecting and buffering features.
- Dynamically, view your data in different coordinate systems (with ArcExplorer-Java Edition for Education).

For free download, go to http://www.esri.com/software/arcexplorer/download.html

ArcGIS Spatial Analyst

ArcGIS Spatial Analyst provides a broad range of powerful spatial modeling and analysis features. With it you can:

- 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.
- Fully integrate cell-based raster data with traditional vector data sources.



ArcGIS Spatial Analyst is integrated into the ArcGIS Desktop interactive mapping environment.

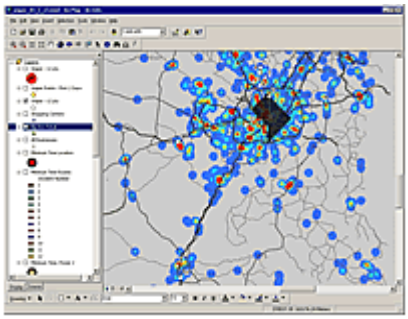
This allows you to perform spatial analytical tasks such as:

- Surface analysis
- Terrain analysis
- Map algebra

Crime and Investigative Analysis

Crime mapping provides a valuable spatial element to crime analysis.

GIS maps traditional statistical information used in crime analysis, revealing crime patterns and relationships. By looking at nonemergency service calls and noncriminal incidents on a map, you can make better decisions on how and where to place resources.

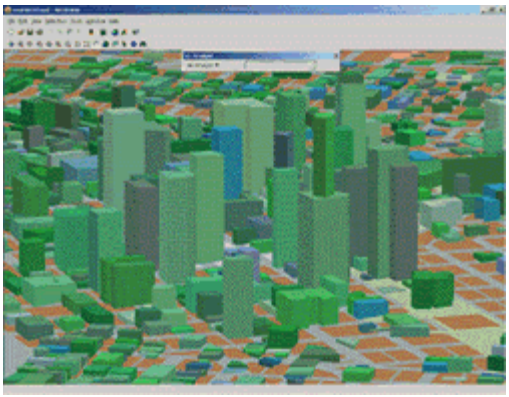


Geographical analysis of serial crime events in a metropolitan area.

You can use GIS for predictive modeling to manage field assignments and investigative efforts. GIS analysis of traffic data assists in the identification of selective enforcement locations.

For example, **ArcGIS Spatial Analyst** helps you examine locations of citation issuance against accident locations, types of citations issued, accidents involving impaired drivers, and other issues.

ArcGIS 3D Analyst



ArcGIS 3D Analyst enables users to effectively visualize and analyze surface data. Using 3D Analyst, you can view a surface from multiple viewpoints, query a surface, determine what is visible from a chosen location on a surface, and create a realistic perspective image draping raster and vector data over a surface.

The core of the 3D Analyst extension is the ArcScene application. ArcScene provides the interface for viewing multiple layers of three-dimensional data and for creating and analyzing surfaces.

ArcGIS 3D Analyst provides a suite of methods for interactive perspective viewing and advanced tools for three-dimensional modeling and analysis applications.

ArcGIS 3D Analyst is integrated into the ArcGIS Desktop to allow you to create dynamic and interactive maps that will elevate your geographic visualization and analysis.

ArcPad StreetMap

ArcPad StreetMap provides U.S. street data, geocoding, and routing for mobile technology users.

The ArcPad StreetMap extension provides high-quality U.S. street mapping, geocoding, and routing capabilities to GIS users in the field. ArcPad users will immediately benefit from a street-level database integrated with their existing field data.

What Can You Do With ArcPad StreetMap?

- Integrate high-quality data with your existing ArcPad map documents.
- Use detailed street and landmark vector data with predefined symbology.
- Perform advanced address matching.
- Identify an address with a tap of the map.
- Generate a route.
- Navigate your route easily with driving directions.
- Create stops, barriers, and pushpins on your route.

Select, extract, and transfer a specified area of your data for use on your handheld device.

No Cost Add-Ons

- Tablet PC Support for ArcGIS (included with ArcGIS 9)
- ArcMap GPS Support (included with ArcGIS 9)
- ArcSketch (download)
- Districting for ArcGIS (download)
- Geodatabase Toolset (GDBT) (download)

2006 ESRI Homeland Security GIS Summit

GIS Solutions for Communication and Collaboration

Government officials, elected leaders, utility professionals, and business executives are invited to the second annual ESRI Homeland Security GIS Summit, **October 23-26, 2006**, in Denver, Colorado.

The Big Picture

This conference is for those in local, regional, state, and federal government, utilities, and private-sector organizations who establish priorities and set directions for their organizations and work to improve systems for public protection and business continuity.

GIS Framework

The role of GIS as a standards-based, interoperable technology for managing and disseminating geospatial and non-geospatial data will provide a context for current efforts in managing cities, utilities infrastructure, risk management, transportation networks, and more. Technical sessions and panel discussions will examine operational GIS and geospatial infrastructure in support of

- Collaboration
- Command and Control
- Critical Infrastructure Protection
- Preparedness
- Surveillance and Situational Awareness

Concurrent Event

The ESRI Health GIS Summit will be take place in Denver, concurrent with the Homeland Security GIS conference. While a separate conference, you can take advantage of opportunities to connect with those from agencies or departments who share interests in collaborative methods.

Questions

If you have any questions, contact James Cox at jcox@esri.com or call 909-793-2853, ext. 1-2678.