Real-Time Data Display

Data Capture

Interactive Playback

Analysis

Trigger Actions or Events

ESRI

ArcView® Tracking Analyst
The Solution for Time, Motion, and Change

ArcView Tracking Analyst

The Solution for Time, Motion, and Change

ArcView® Tracking Analyst, an extension for ArcView GIS software, makes it possible for you to explore, visualize, and analyze information relative to time. You can reveal time-related trends or phenomena, allowing you to see where and when an event occurred. You can "replay history" and observe how any time period (hour, day, week, month, etc.) is associated with the occurrence or location of various events.

Vehicle Tracking and Traffic Monitoring

ArcView Tracking Analyst enables you to monitor the location and movement of objects in real time. Objects that can transmit their geographic location via global positioning system (GPS) or similar technologies can be dynamically tracked on an ArcView GIS map. You can also trigger an action based on the real-time location of an object relative to other geographic features such as alerting a dispatcher when a vehicle moves out of its service area.

In addition, with ArcView Tracking Analyst you can monitor phenomena detected by stationary sensors such as traffic congestion, air quality, temperature, wind velocity, water levels, and so on. Actions can be triggered based on a status change of a stationary sensor such as notifying personnel when water levels reach a flood stage.
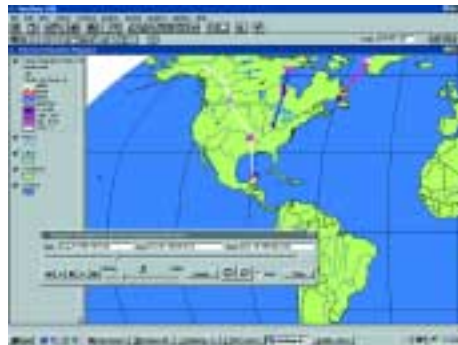

Wildlife Tracking and Monitoring

Applications

ArcView Tracking Analyst supports a diverse range of application areas. Any application that requires the analysis or processing of time-related information can benefit from its analytic features. Some examples are

- Law Enforcement—Tracking suspects or patrol vehicles, reconstructing crime events, crime pattern analysis
- Military and Intelligence—Asset and unit tracking and analysis of patterns of movement
- Personnel Tracking—Tracking the location and status of mobile teams and repair crews
- Scientific Studies—Tracking and monitoring tagged wildlife
- Traffic Control—Traffic flow analysis and real-time monitoring of traffic flow
- Vehicle Tracking—Real-time location and status of vehicles, trains, trucks, ships, and airplanes
- Weather—Tracking storms and monitoring changing conditions at weather stations
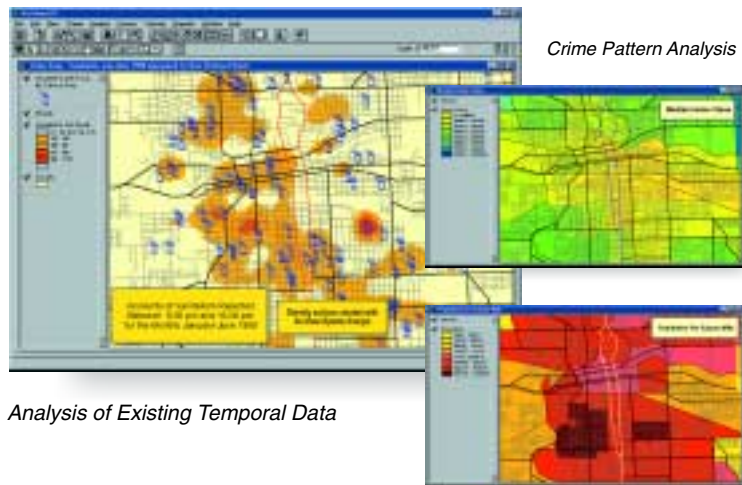
Crime Pattern Analysis

Analysis of Existing Temporal Data

Dynamic Integration with GPS Technology

ArcView Tracking Analyst, fully integrated with GPS technology, accepts direct input from portable GPS receivers. Real-time GPS movements and status changes are monitored, displayed, and recorded within the ArcView GIS environment. The total integration of ArcView Tracking Analyst and GPS technology provides an easy and convenient way to monitor locations and process information about moving and stationary objects.

Features

ArcView Tracking Analyst has many powerful features that go beyond static data analysis. ArcView Tracking Analyst can

- Interactively play back previously recorded data.
- Dynamically change color/symbolization based on the status or other characteristics of an object.
- Track the location of objects in real time.
- Color code the representation of time, distance, direction, and speed along the traveled path of an object.
- Trigger actions based on the location, status change, or other characteristics of an object.
- Monitor the status of objects in real time.
- Capture the location or status of objects for playback and analysis.
- Display data from multiple simultaneous input sources such as GPS and radio transmitters.
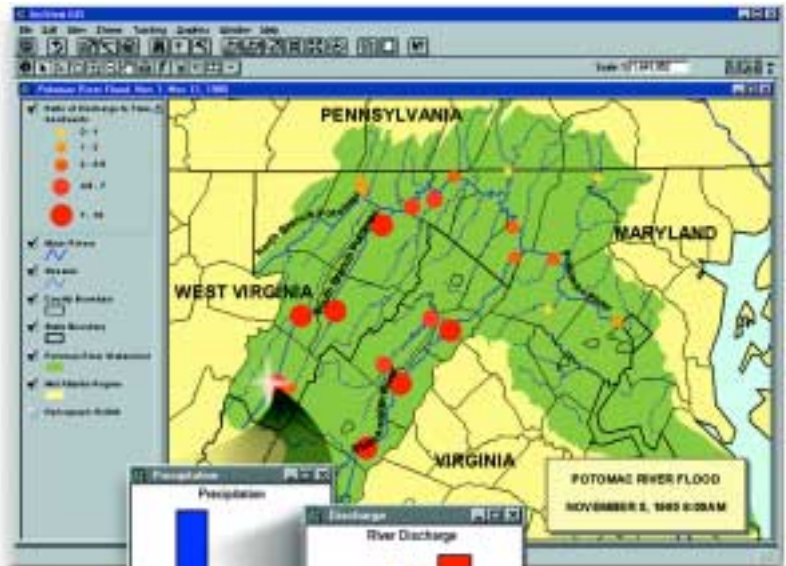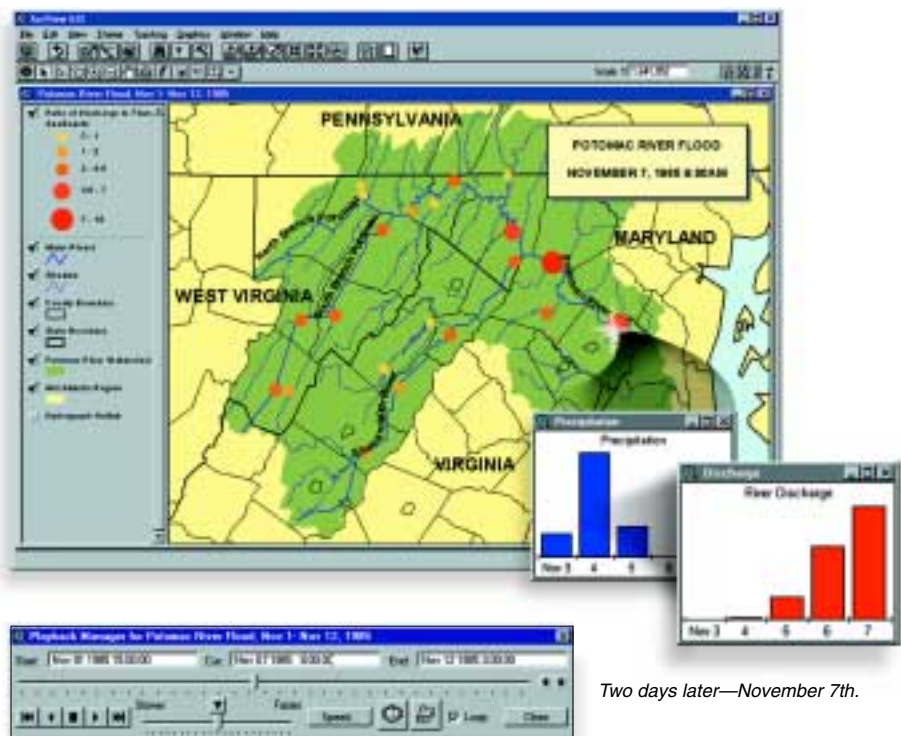

November 5th.

Flood Analysis—Time Series

Data Sources

- Any data with time- and location-related information
- Direct input from GPS units (many formats such as NMEA)
- Input from remote locations
- User-defined data
- User-defined models

Supported Platforms

ArcView Tracking Analyst is available for Windows® 95/98, Windows NT® 4.0, and Solaris® 2.5 or higher. ArcView GIS 3.1 or higher is required.

ArcView Tracking Analyst is a joint development effort of ESRI, the world leader in geographic information system (GIS) technology, and Litton/TASC, Inc., a world leader in advanced information technology.

Two days later—November 7th.

ESRI

For more than 30 years ESRI has been helping people manage and analyze geographic information. ESRI offers a framework for implementing GIS in any organization with a seamless link from personal GIS on the desktop to enterprisewide GIS client/server and data management systems. ESRI® GIS solutions are flexible and can be customized to meet the needs of our users. ESRI is a full-service GIS company, ready to help you begin, grow, and build success with GIS.

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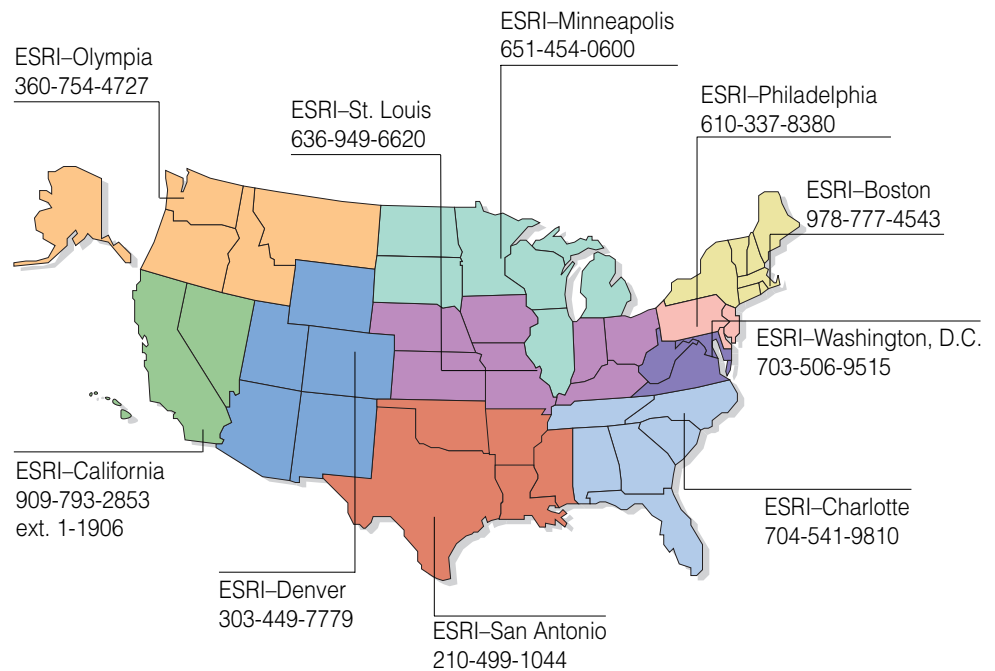92373-8100, USA
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