ArcView®
for Community Safety

One of the primary responsibilities of any government is providing for the safety and security of its citizens, communities, and assets—the places we call home.

ArcView® geographic information system software is a powerful tool that helps governments and business entities to meet the challenges of keeping our communities safe and our homeland secure.
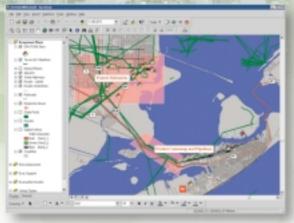
Top: Identifies citywide risk assessment and planning for homeland security
Bottom: Choke-point spatial analysis identifies critical refineries and pipelines in the Texas City area that must be protected

Providing Community Safety with ArcView

Community safety begins by understanding where emergency events could occur, where community vulnerabilities exist, and where citizen safety is at risk. Geographic information system (GIS) software can assist in analyzing and illustrating where citizens and infrastructure are vulnerable. GIS can quickly identify and display where hazards exist, and where accidents, crime, and emergency incident trends are occurring. GIS can model various mitigation plans to assist in the determination of cost-effective actions that reduce or eliminate vulnerabilities and increase safety.

Many governmental agencies have long recognized the value of ArcView software for analysis and planning. They understand how traditional tasks can be performed more efficiently and how previously impractical or seemingly impossible tasks can be managed. Now, ArcView is being used as a critical tool in planning and analysis for public safety and homeland security.

- Where are the community evacuation shelters, and are they adequate?
- What are the evacuation routes given for emergency events in different locations?
- Where are the hospitals, and what is their capacity for mass casualty events?
- Where are the critical infrastructure control points (water valves, electrical shutoffs, etc.)?
- Where are the open areas suitable for emergency equipment staging and incident management command posts?
- Where are the response resources, and are they in the best locations?
- What physical changes, security measures, or policies should be implemented to reduce risk?

These are only a few of the questions that can be derived using ArcView. Community safety and security involves analyzing the locations and vulnerabilities of the community. There is no better or more powerful tool than GIS for this critical task.

ESRI Solutions

ESRI's range of products and integrated technologies is the proven standard for public safety departments within federal, local, and state government. We also work with a strong group of business partners specializing in developing GIS-based solutions for the public safety industry. ESRI's GIS software products, professional services, and business partners can play a vital role in homeland security. GIS is already used in disaster response and can be readily adapted to new homeland security initiatives. And because ESRI® software is standards-based and integrated, it provides an open enterprise solution for GIS needs in organizations of all sizes, from local to national. See www.esri.com/software/ for more information on ESRI software.

ArcView

ArcView is the world's most popular desktop GIS and mapping software, with more than 500,000 copies in use worldwide. ArcView provides geographic data visualization, query, analysis, and integration capabilities along with the ability to create and edit geographic data.

Enterprise Solutions

Fire, police, public works, public health, building and safety, water, engineering, utilities, and other disciplines have long recognized the value of ESRI GIS software for analysis and planning. They have discovered how

Right: Spatial identification of dams near refineries, power plants, and nuclear facilities

traditional tasks can be performed more efficiently and how previously impractical or seemingly impossible tasks can be managed. Benefits of using GIS in homeland security include:

- Rapid response capabilities
- Locating resources
- Improving planning capabilities
- Developing training scenarios
- Improving accuracy
- Providing timely decision support
- Developing contingency plans
- Real-time management of field data

For more than 30 years ESRI has been helping people manage and analyze geographic information. ESRI offers a framework for implementing GIS technology 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.

To view additional ESRI GIS software solutions for Homeland Security, visit our Web site at

www.esri.com/homelandsecurity.

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