



CLEMIS

Crime Mapping and Analysis

PROBLEM:

Police agencies unable to predict hotspots and trends in crimes across jurisdictional boundaries.

SOLUTION:

Use available GIS tools to identify hotspots of crime and reallocate resources to those areas.

Our mission statement ...

To provide state of the art computer technology and related services to criminal justice and public safety agencies . . .

Crime Mapping demonstrates where crime is occurring so police agencies can reallocate resources to those locations.

Data is extracted from the CLEMIS Records Management System and placed on a map for crime analysis.

GIS applications based on level of expertise allowing both low-end users and high-end users to identify and analyze crime.

CLEMIS Crime Mapping and Analysis is the process of displaying incident data on a map, determining trends, hotspots, or crime sprees based on location and time. This process (formerly known as pin mapping) is now computerized making it more efficient, consequently, widely used among police agencies. These systems are known as Geographical Information Systems (GIS).

The advantage of Crime Mapping in a consortium such as CLEMIS is the sharing of data across jurisdictional boundaries. CLEMIS agencies inputting data into the CLEMIS records management system (RMS) have access to analyze neighboring community data as well as their own.

Currently, data is extracted from the RMS and geocoded to a street centerline file. Incidents are placed on a map and, using GIS tools, users query incidents based on criteria such as crime type, time of day, and specific dates and time ranges within defined areas.

After the process is completed, incidents meeting the criteria are placed on the map. Reports, charts, and maps are created for hard copy output or digital format for presentations.

Police agencies have access to additional spatial data such as censuses information, parcels, schools, parks, waterways, and more. The ability of bringing more data into a single environment helps in advanced analytical processes analyst could not achieve in the past.

CLEMIS has defined two levels of users and has expanded the crime mapping and analysis program to fit both groups. A simplistic application that runs in a browser environment will be completed in 2005 for the low-end user who wants a simple picture of what has happened in their community recently. The high-end analyst has access to a thick client application with advanced capabilities.