



# GEO-ENABLING GOVERNMENT BUSINESS PRACTICES

DEPARTMENT OF JUSTICE

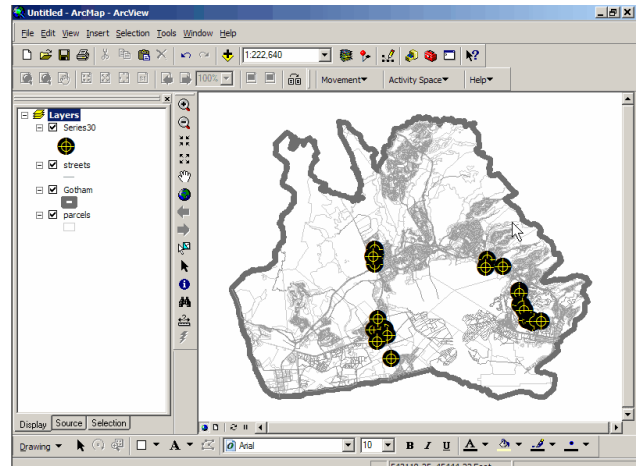
MAPPING AND ANALYSIS FOR PUBLIC SAFETY PROGRAM



**Background:** Combining geographic data with police report data and then displaying the information on a map is an effective way to analyze where, how and why crime occurs.

**Value Statement:** The Department of Justice (DOJ) National Institute of Justice (NIJ) has implemented a Mapping and Analysis for Public Safety (MAPS) Program to support research that helps agencies use GIS to enhance public safety. The MAPS Program strives to offer solutions to crime and public safety problems through a combination of research, practice, technology and policy while applying GIS and statistical analysis to allocate law enforcement resources.

<http://www.ojp.usdoj.gov/nij/maps/>



## What Functions Does MAPS Provide?

- The MAPS program provides software, sponsors and conducts research, hosts conferences, develops publications, and offers training.
- Some of the software developed through MAPS Program includes:
  - **CrimeStat III** (<http://www.icpsr.umich.edu/CRIMESTAT/>): Provides suite of analysis tools for crime incident locations and various spatial statistics such as spatial description, distance analysis, hot spot analysis, interpolation, space-time analysis, and journey to crime estimation.
  - **Near Repeat Calculator** ([www.temple.edu/cj/misc/nr/](http://www.temple.edu/cj/misc/nr/)): A software program that analyzes crime incident data and will calculate a likelihood that another incident will occur nearby within a certain time.
  - **Crime Analysis Spatial Extension** (<http://www.crimeanalysts.net/case.htm>): A geo-profiling suite of tools that allow analysts to predict where an offender may strike next based on where the offender lives.
  - **Facility Cop** (<http://www.ojp.usdoj.gov/nij/maps/facilitycop.htm>): Provides mapping, analyses, and records of incidents within and around buildings to generate reports.
- Some of publications from the MAPS Program includes:
  - **Crime Mapping Principles and Practice** (<http://www.ojp.usdoj.gov/nij/pubs-sum/178919.htm>): A book that provides an introduction to and an overview of crime mapping.
  - **Geography and Public Safety Bulletin** (<http://www.ojp.usdoj.gov/nij/maps/bulletin.htm>): A quarterly publication dedicated to covering topics related to how geography relates to matters of public safety.

## What has MAPS Achieved?

- The MAPS program has awarded more than 60 grants over the last ten years specifically for geographical analysis in criminological and policing research. These grants have resulted in over 100 reports related to mapping and analysis published or sponsored by NIJ.
- By leveraging geospatial technologies, state and local Law Enforcement have been able to more easily visualize and understand resources and deploy better patrolling routes and times. Through funding from the MAPS Program, one grantee won the 2010 Stockholm Prize in Criminology.

## How Can You Leverage the MAPS Program?

- Make use of software made available by the MAPS Program
- Contact the MAPS Program for guidance on implementing spatial analysis and geographic technologies to meet a mission goal.
- Read the many publications from the MAPS Program on the use of spatial analysis for understanding crime.

## For Additional Information, Please Contact:

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