



What is Crime Analysis?

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Introduction

Crime analysis is NOT CSI (Crime Scene Investigation)!
Crime analysts work with police departments to analyze crime data, discover trends, and help coordinate efforts. They use many tools, but it is more about crime data than CSI is (CSI is largely focused on forensics).

Crime Analysis Customers

Patrol Officers

- Resource Deployment
- Info about emerging trends or patterns

Detectives

- Investigative Support
- Charting relationships, persons, places, property, etc.
- Creation of timelines of criminal activity for use in an investigation or court proceeding

Supervisors and Commanders

- Aid in problem solving and problem identification within neighborhoods or areas
- Provide statistical data and analysis for special projects, requests, and politicians

Our Community

- Support the department as a whole, better policing
- Our common goal is serving our community

Data Source Examples

Crime (Records Management System)
Calls for Service (Call Aided Dispatch)

Vehicle (DMV, RMS)

Arrest

Field Interview Cards

Persons Data

Utility Records

Banks / ATM

License Plate Readers

Probation / Parole

Jail Data

Insurance Records

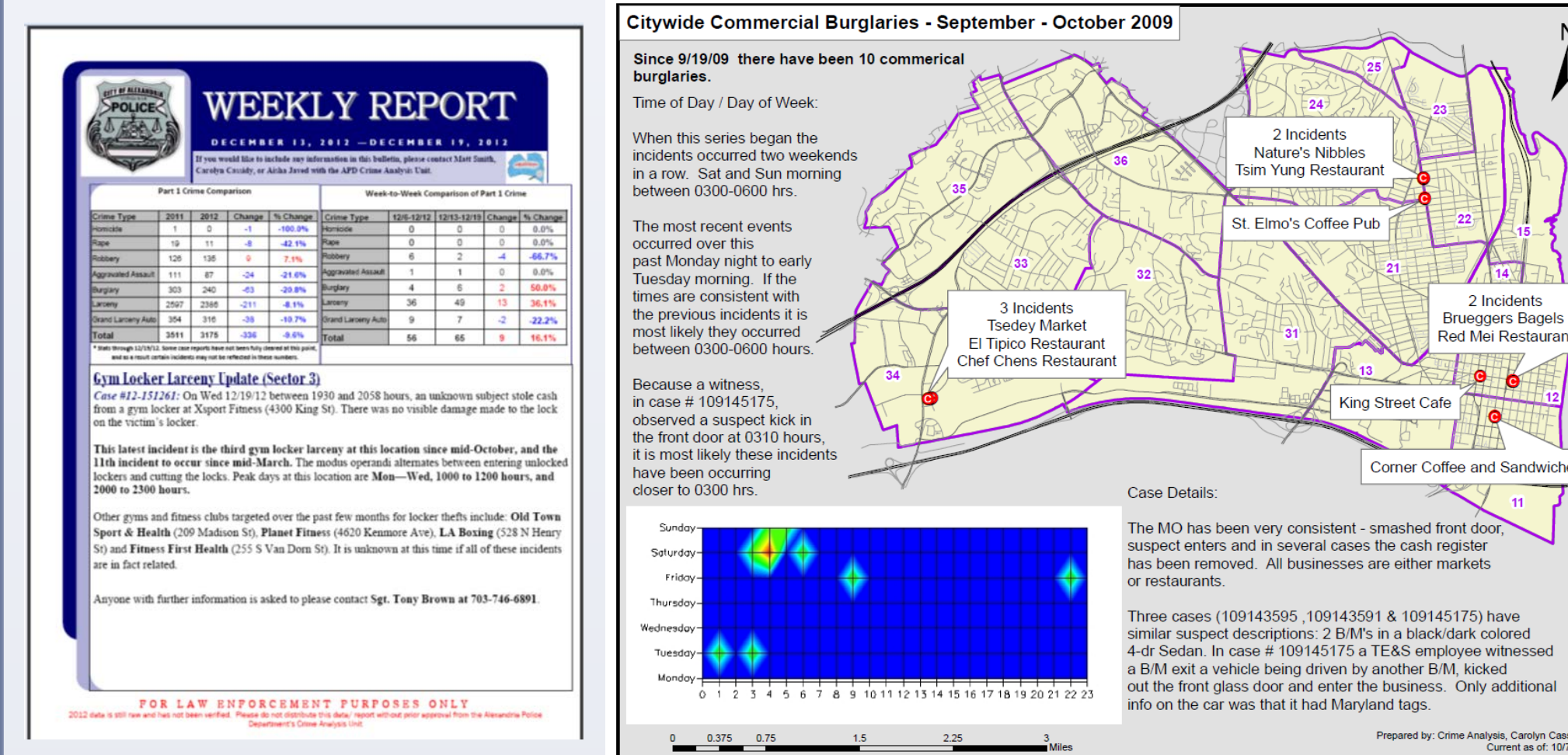
Phone (Call Detail Records)

UCR/NIBRS (National Incident-Based Reporting System)

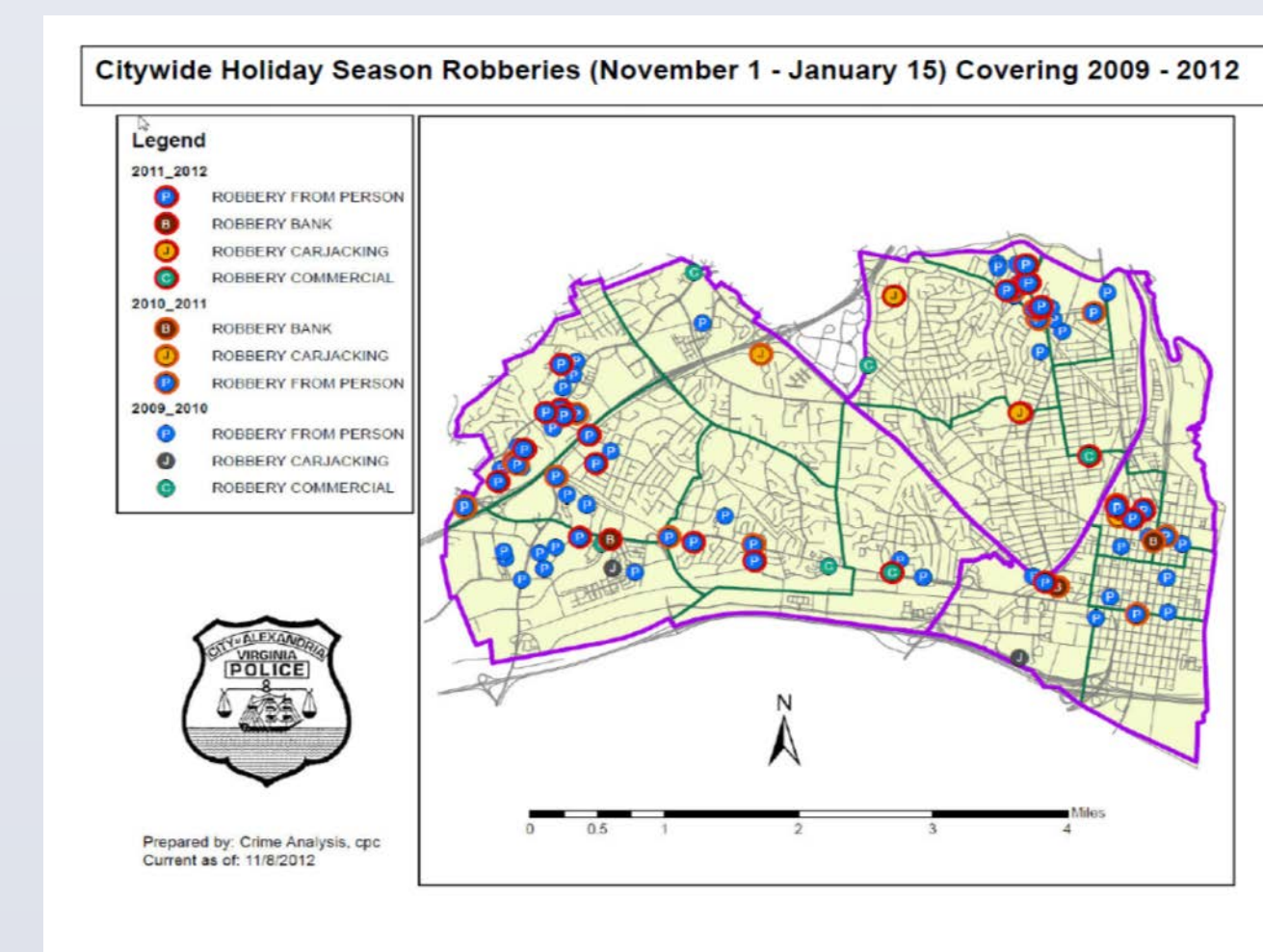
National Crime Victimization Survey (NCVS)

Types of Analysis

- Tactical Analysis
 - Provide info to assist operations (patrol, investigators)
 - Time data, suspect identification, linkages between cases



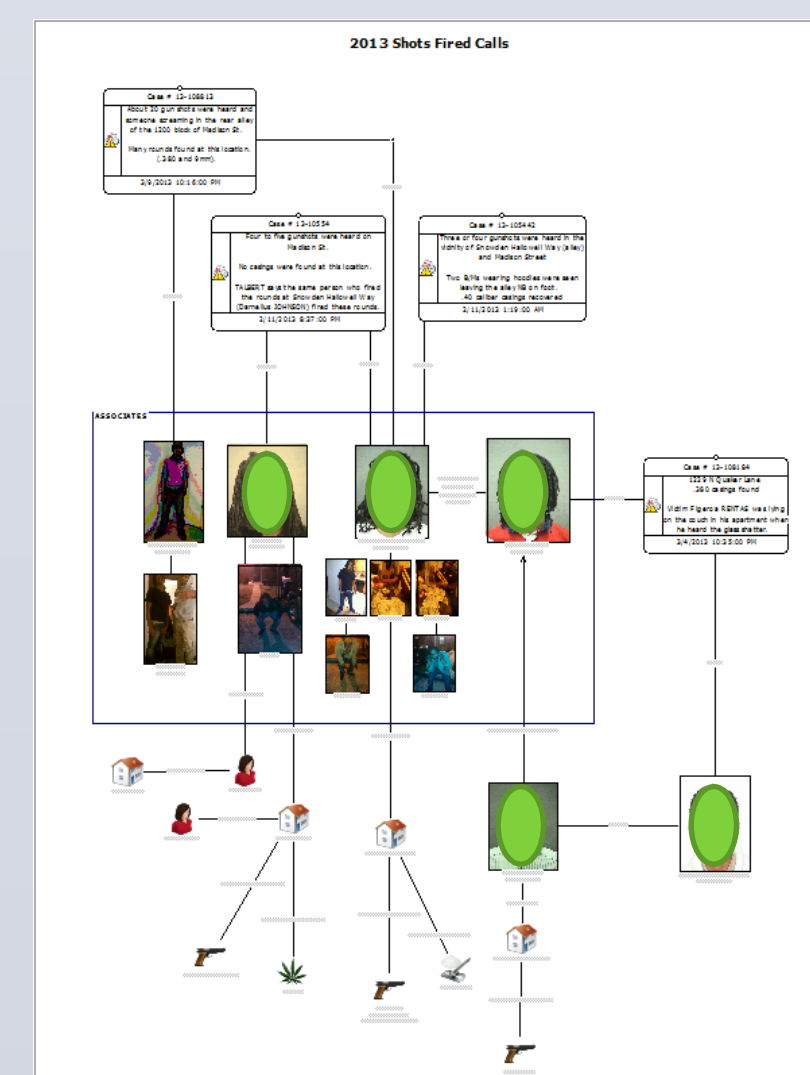
- Strategic Analysis
 - Long-range problems and analyses
 - Statistical summaries
 - Why long-term crime may exist in certain addresses or areas



- Administrative Analysis
 - Provide admin economic, geographic, or social info related to changes in crime
 - Long-term planning for community/police
 - Annual reports, goal-setting

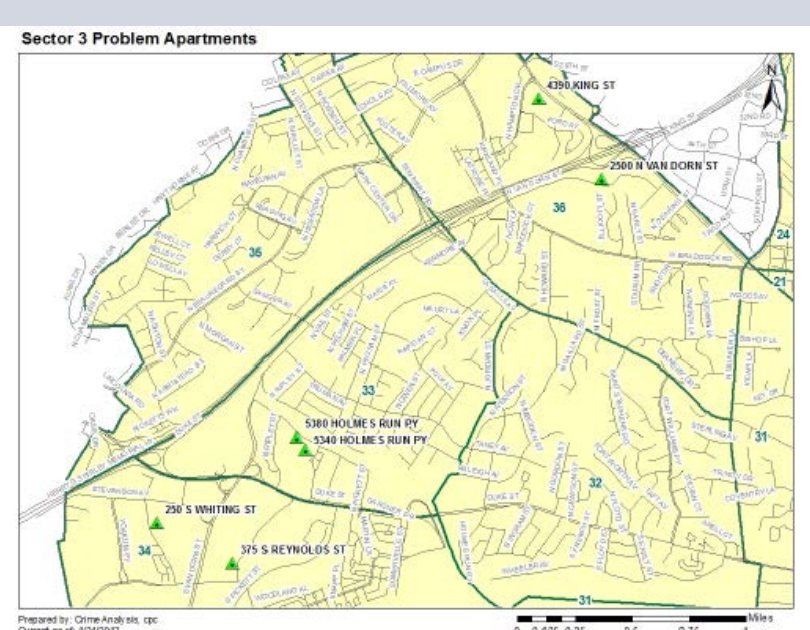
- Intelligence Analysis

- Finding links, associations, and relationships between people, places, property, and vehicles
- Contacts people have had with police
- Social network analysis



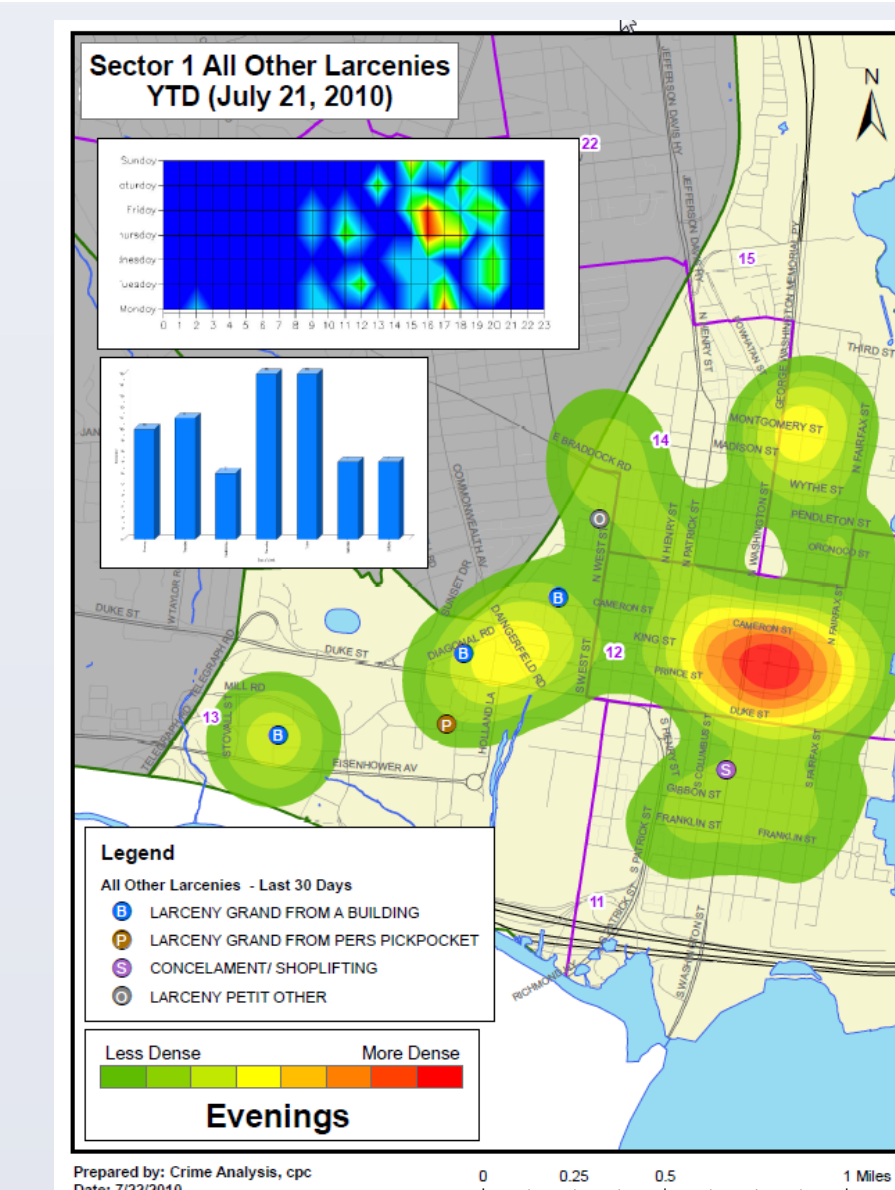
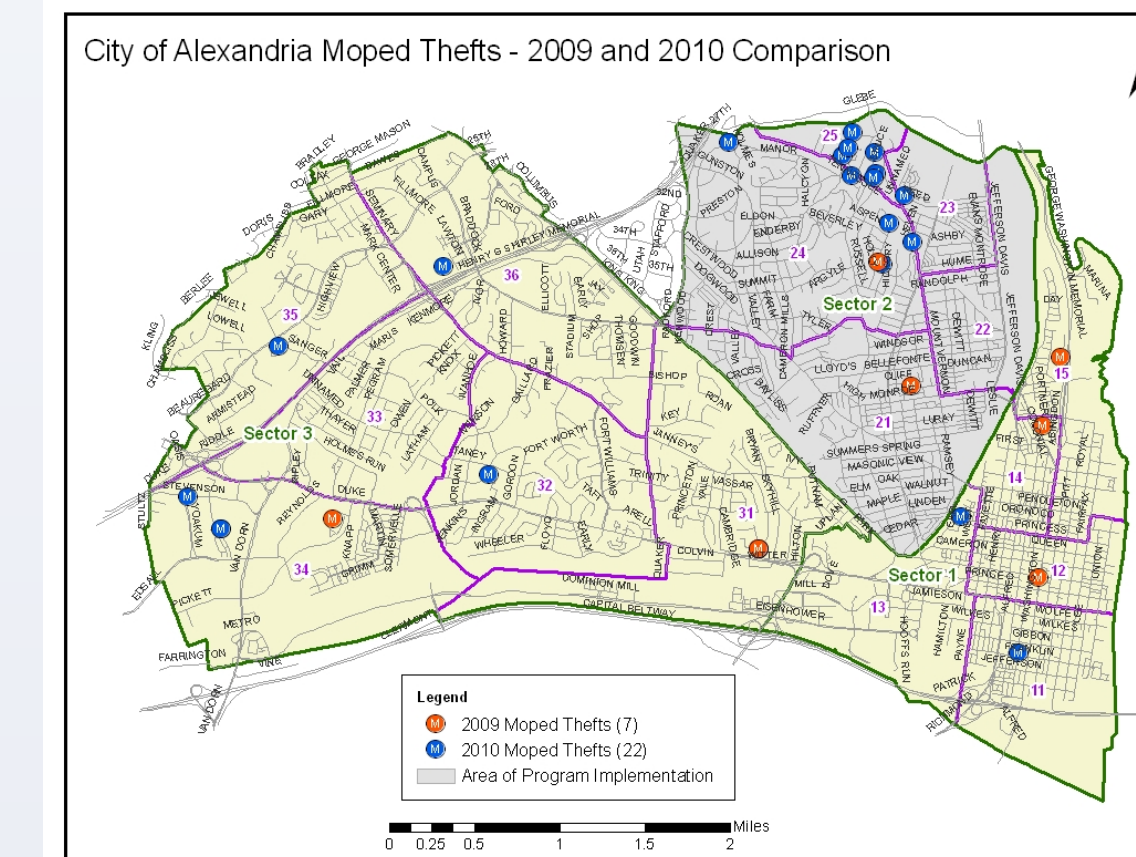
- Problem Analysis

- Why crime problems, disorder, and high calls for service exist at addresses or neighborhoods
- Problems can be immediate or long-term



Technologies

ESRI's ArcMap is the primary program used for creating maps



Penlink allows analysis and reporting of large amount of phone records, including mapping. Cell records obtained through court order/warrant.



Cell Tower Overlap



Professional Organizations

International Association of Crime Analysts (IACA)

- 2587 active members
- 49 countries
- Networking, job postings, info sharing, training



Crime Analysis Careers

Policing and criminal justice are becoming more and more concerned with data and keeping up with technology. Crime analyst play a major role in that transition. As such, it's a growing career field.

Jobs could include:

- Work in a local police department
- Federal law enforcement agency support
- Probation/parole GIS/GPS support
- Local municipalities – mapping, zoning, business development
- State and federal agencies – mapping for disaster preparedness and response, national trends

Crime Analysis Training

- Currently, little uniformity in the field for training on specific skills
- New York is beginning to implement training and certification exams for analysts
- IACA offers advanced certification test
- Several universities offer a crime analysis tract/major/minor
- Important to integrate criminal justice with statistics, computer science, geospatial technologies, and "big data" fields

Contact Information

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