GIS in Law Enforcement

Norman Police Department

Maintaining and enhancing the quality of life in the City of Norman by protecting life, liberty, property, and keeping the peace.

Integrity * Accountability * Mutual Respect * Service Attitude * Partnerships

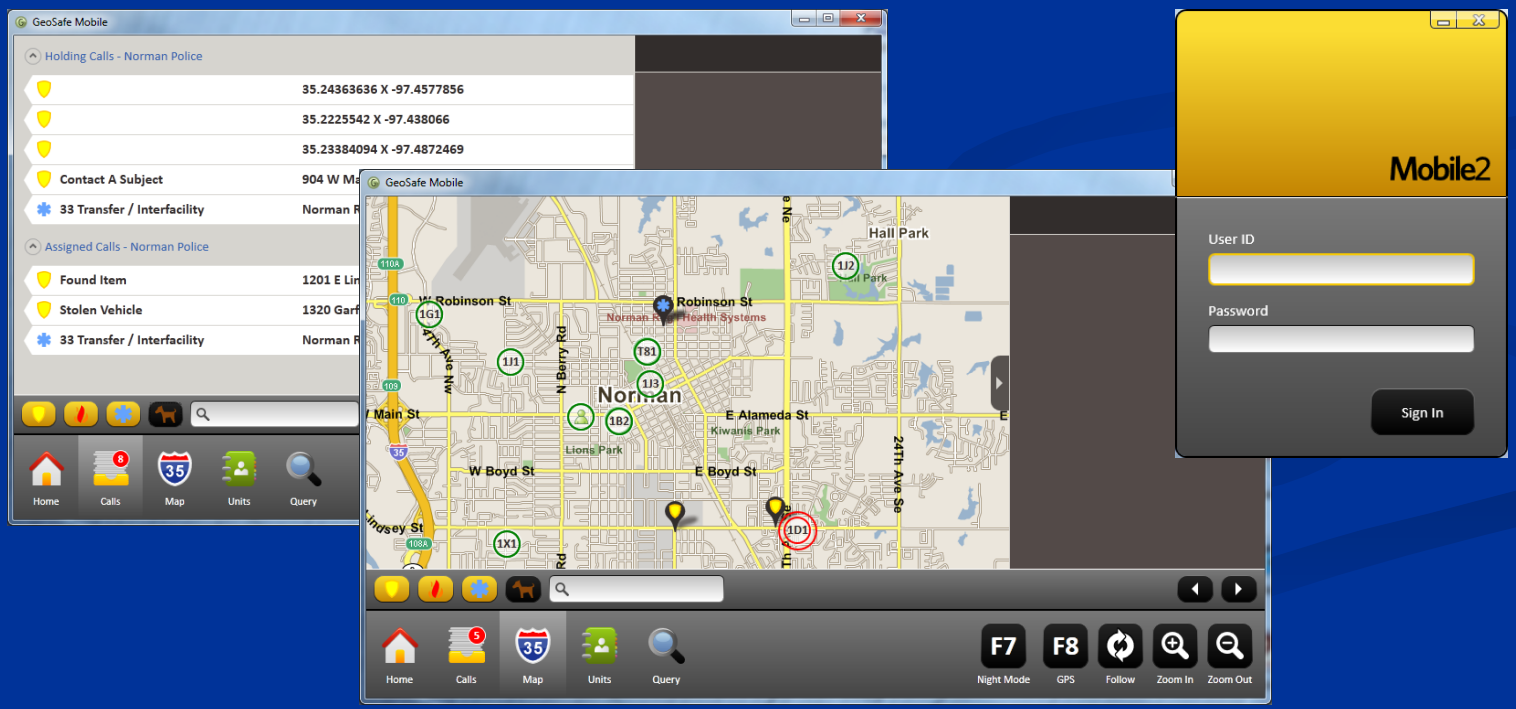
Data Flow Process

- Data Creation
- Database / Record Management System
- Data Processing
- Current/Future Projects

Data Creation

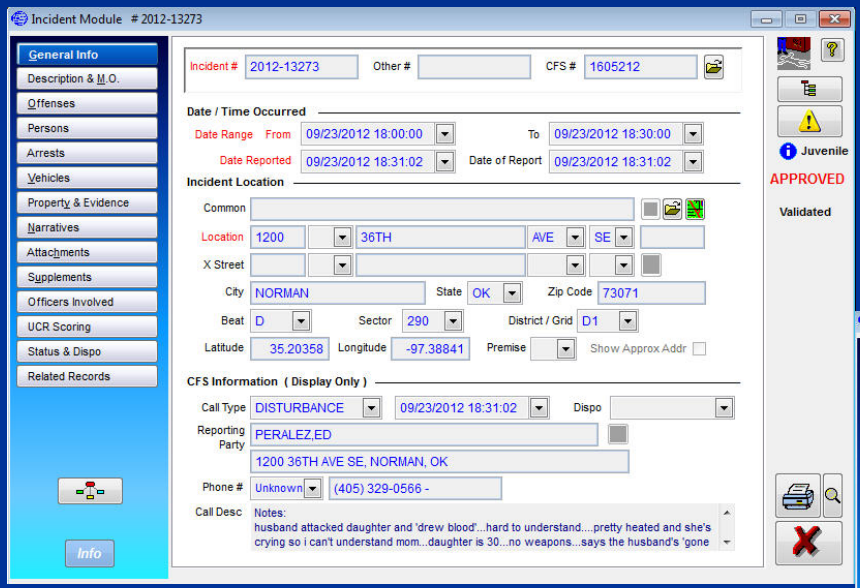
- 911 Call Center
- Officer Vehicle based Computers

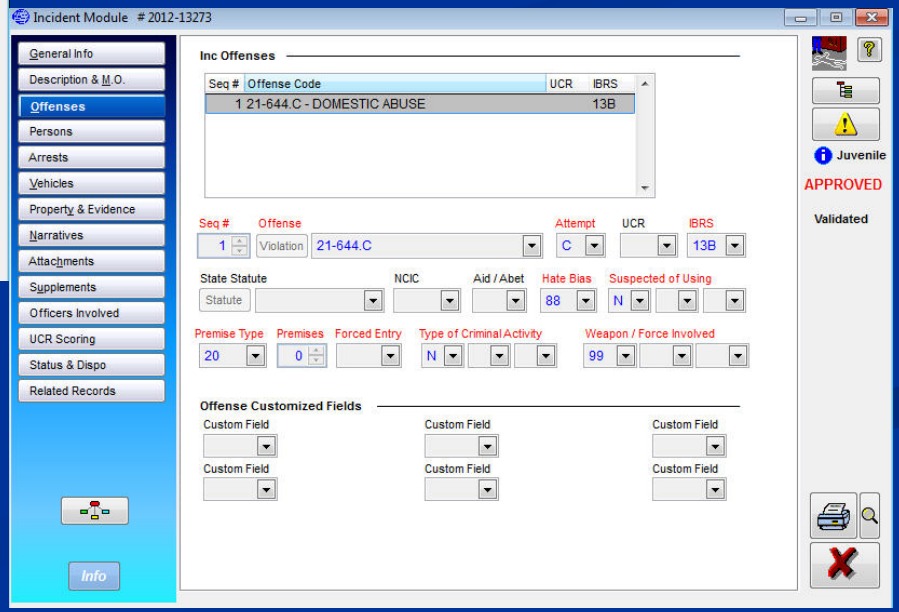
GeoSafe Mobile Application



Record Management System

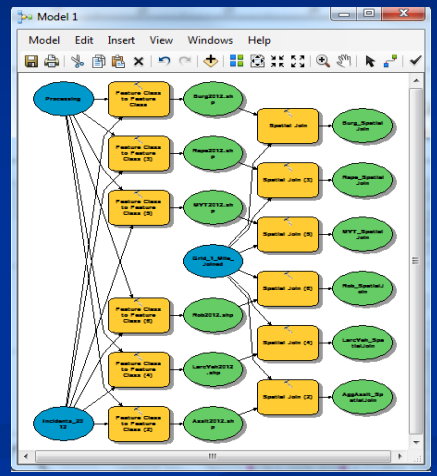
- Record Management System



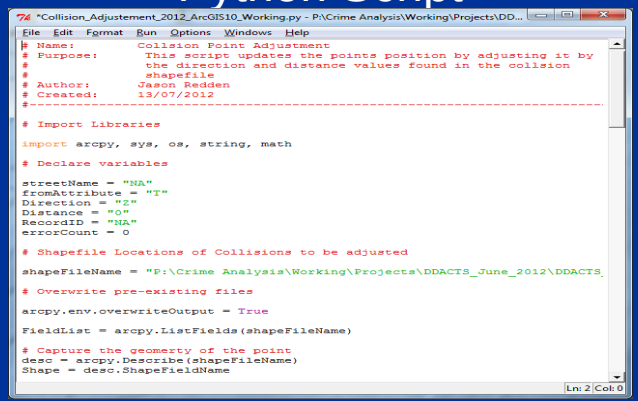


Processing/Models

- Model Builder process models
  - Sex Offender
  - Data filtering & trend analysis
- Custom python scripts
  - Traffic incident corrections



Python Script



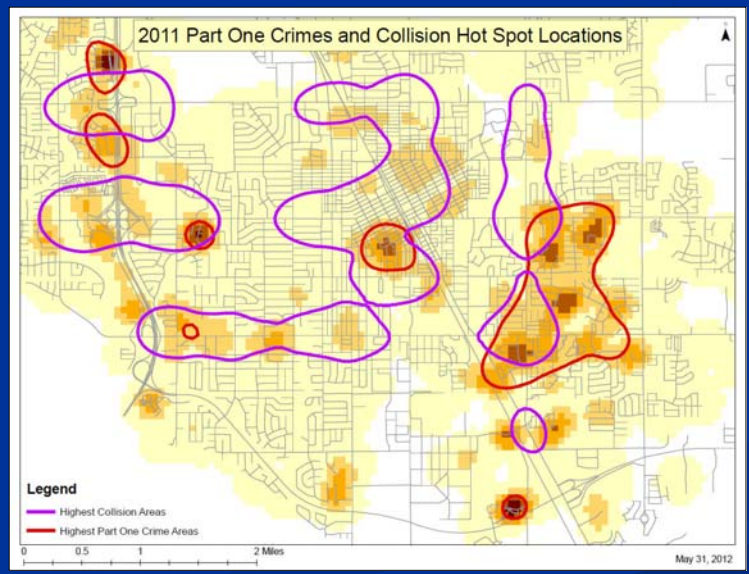
Original Data

Adjusted Data

Current Projects

- Data-Driven Approach to Crime & Traffic Safety

DDACTS is an operational model that uses the analysis of location-based crime, traffic, activity and enforcement data to support effective and efficient deployment of resources.



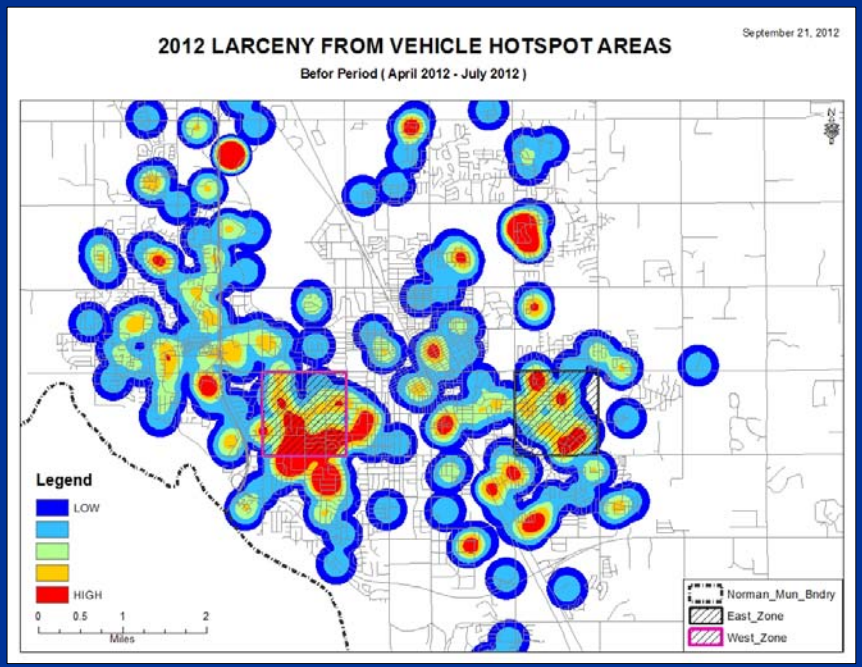
DDACTS Approach

Category	Crime	Accidents
What	Type of crime	Type of crash
Who	Victim Offender	Drivers Pedestrians
When	Time of offense	Time of crash
Where	Location Location type	Location Location type
How	*Modus operandi*	Crash factors

Larceny from Vehicles (DDACTS)

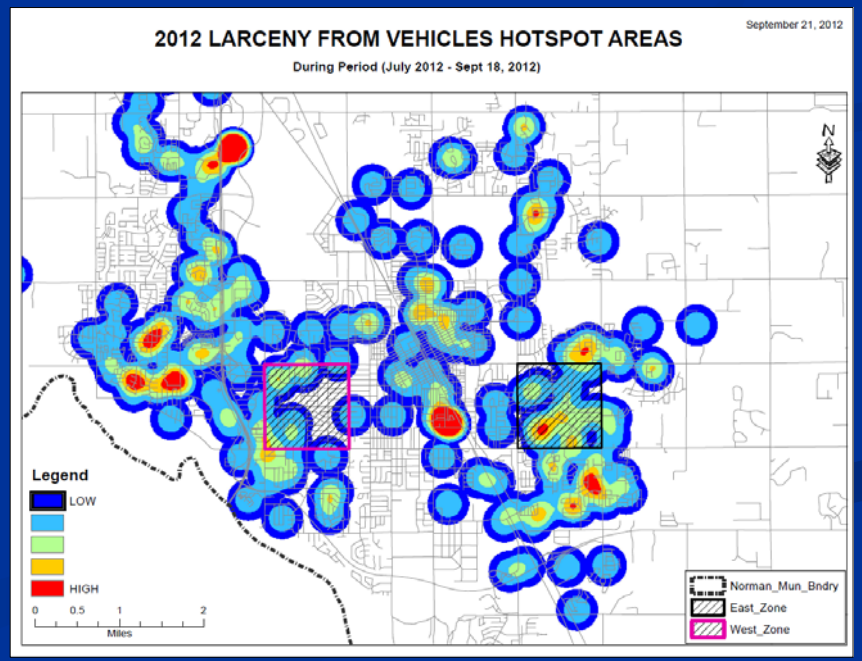
BEFORE

April 2012 – June 2012



DURING/CURRENT

July 2012 - Present



Future Projects

- Crime Free multi-housing program
  - Apartment crime pattern analysis project

Identify locations in Apartment complexes that generate crime and evaluate the causation with the intent to prevent crime and increase public safety and quality of life.

Questions

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