



Case Study

GeoShield™

Advanced Intelligence Led Policing in Ogden

Story of Ogden Police Department leveraged with the Power of GeoShield to develop a solution enhancing data integration and analytics capabilities.

The City of Ogden, Utah, with a population of approximately 85,000 people, is located at the base of the Wasatch Mountains with incredible views of the Great Salt Lake to the west. Through the years, the city has served as a major railway center and continues to handle a great deal of rail traffic today. Ogden is the home of Weber State University.

The Ogden Police Department (OPD) has the responsibility for protecting life and property through the enforcement of federal, state, and local laws. This includes responding to active calls for service; some of an emergency nature and others for information, traffic

Initial Success

The Ogden Police Department consists of 144 sworn officers serving the community's 85,000 residents. The OPD crime analysis unit first began using the full capabilities of Esri desktop GIS software for its daily work nearly a decade ago. Analysts could compare incident information—such as burglaries, robberies, assaults, auto theft, gang activity, and other crime—with other information, such as the

control, or citizen requests for any public safety-related matter.

Most of the department's efforts and manpower were focused on the suppression, detection, and investigation of crime. Traditionally, this activity comes after discovering or being notified of a possible criminal situation. The department understood the importance of attempting reduce crime and criminal opportunity through Intelligence Led Policing and the use of technology.

location of parolees, sex offenders, known criminals, and gang members. This provided an initial data picture that supported the predictive analysis or geographic profiling processes.

The means used to drive these initial efforts involved a manual extraction of data from systems such as the Records Management System (RMS) and Computer Aided Dispatch (CAD). This was a very time and labor intensive process.



It was also dependent on the presence and capabilities of just a handful of people. The OPD crime analysis unit analyzed the data and supplied

monthly statistical reports to command staff and lieutenants. The information was used to develop crime reduction plans and respond to issues of concern.

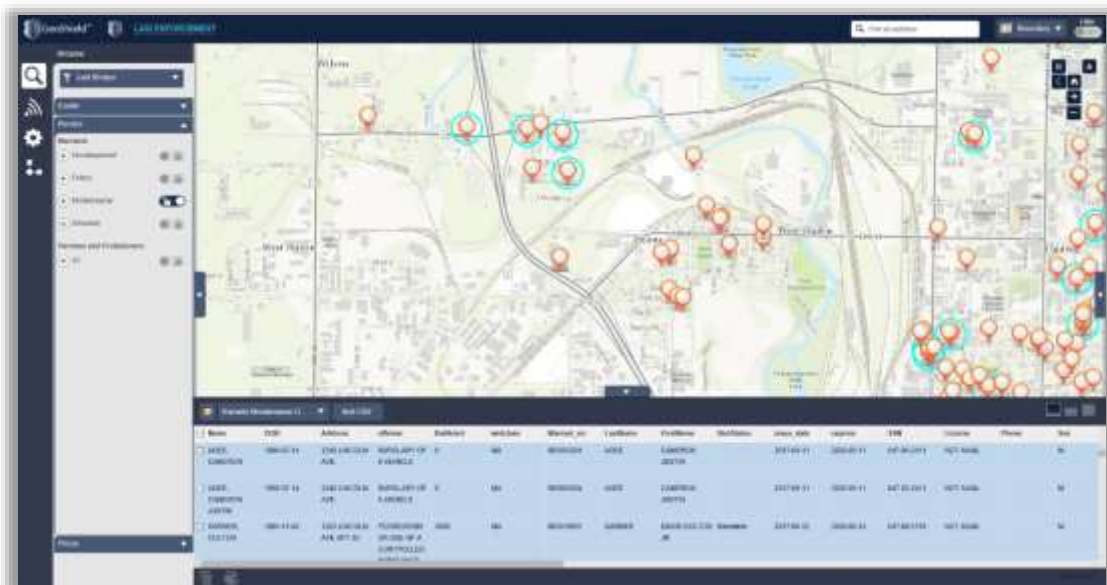


Figure: GeoShield Law Enforcement delivers location information on active arrest warrants. This intelligence is used by police to increase officer and citizen safety, plan apprehension strategies, and coordinate enforcement efforts.

A New Level of Success: The Real-Time Crime Center

OPD reached its next technology milestone by opening the RTCC in July 2011. The RTCC began using state-of-the-art tools to integrate disparate data sources. The center houses multiple records: local warrants, criminal history, jail data, property information, arrest affidavits, and more. These records are used by analysts, administrators, investigators, and officers in the field.

Initially, the RTCC featured a deployment of the Microsoft Fusion Core Solution (FCS) GeoShield 1.0. OPD was the first law enforcement department of its size to deploy this platform. FCS was developed as a result of collaboration between Microsoft and Esri. The powerful data management and collaboration tool Microsoft SharePoint is also fully integrated with the analysis tools found in ArcGIS software.



Ogden RTCC Maturity & GeoShield 3.0

The need for increased speed, ease of use, and flexibility led to the upgrade to GeoShield 2.0. The latest upgrade to GeoShield 3.0 in November 2016 brought OPD to an even higher level of Intelligence Led Policing capabilities.

GeoShield 3.0 has opened the door for an even more robust integration environment with the implementation of additional data sources. The RTCC will be adding third-party data mining tools, license plate reading systems, integrating with more than 200 city-operated surveillance cameras, and social media.

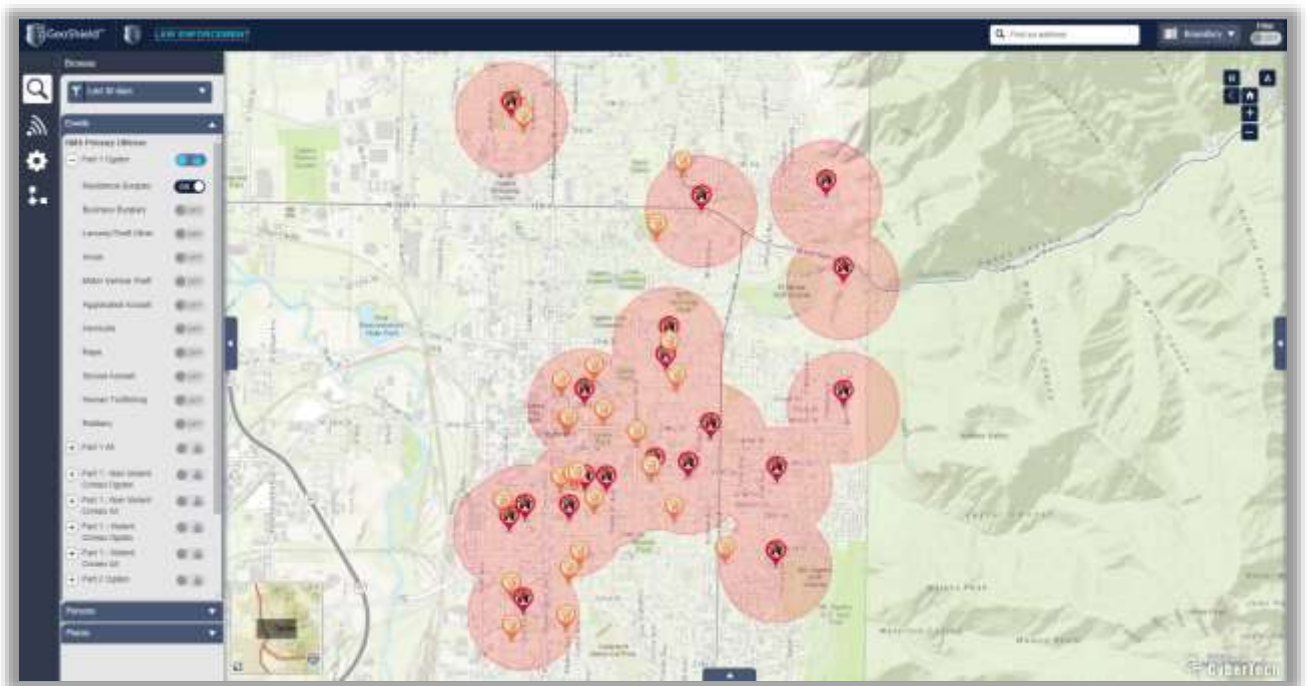


Figure: GeoShield's data integration and analytics capabilities enable the user to quickly identify crime trends and match those to possible offenders. Known burglary suspects are shown inside a half-mile buffer of forced-entry residential burglaries.

GeoShield 3.0 has accelerated the data collection process by integrating disparate data sources into a single UI. The data is available to the user in a feature rich spatial environment with advanced analytics capabilities. Dynamic crime mapping, heat mapping, and clustering are all part of this enhanced environment. Users quickly and easily develop actionable intelligence which is shared in real-time across the entire organization. OPD can perform advanced analysis and digitally map the results. These

functions have allowed police staff to effectively deter crime and make arrests. Bringing those functions into the RTCC has helped extend these benefits to new levels and more people. The daily use of GeoShield 3.0 in the Ogden RTCC has been a force multiplier for their Intelligence Led Policing activities. The result is an increase in citizen and officer safety, an improved quality of life in the community, and a reduction in crime for the City of Ogden.





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A decorative graphic in the bottom right corner consisting of several overlapping, semi-transparent blue triangles and polygons, creating a modern, abstract design.