GIS Solves Crimes

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About IPN

- Systems integrator founded in 2004
- IPN is an SBA Certified 8(a) and Small Disadvantage Business
- Headquartered in the Washington DC area
- Specializes in GIS architecture & software integration
- Certified staff in multiple disciplines
  - GISP, ITIL, CISSP, PMP, etc.
- Continued contributions to the technology community
ATF/USBDC

• United States Bomb Data Center (USBDC)
  – The mission of the USBDC is to collect, analyze and disseminate information and intelligence products in order to assist U.S. federal agents, investigators from state, local, tribal and military departments, and international partners in preventing violent crime.

• USBDC is part of Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF)

• IPN worked closely with ATF subject matter experts to provide all Federal, State and local law-enforcement users with the capabilities to track and share both Bomb and Arson information.
Bomb Arson Tracking System (BATS)

• A free service from ATF to
  – Federal, State and local law-enforcement
• Congressionally mandated to be used by all Federal agencies that deal with Bombing and Arson incidents
• A web incident management application with GIS
• A Case management system with over 10,000 Federal, State and local law-enforcement users
• Communities based application allowing each Agency to administrates and setups sharing permissions with the rest of the communities.
GIS Needs Accurate Information

- The system needs to collect accurate data
- Make data entry easier, smarter, and intelligent
  - BATS provides device entry wizards
  - BATS uses pictures
  - BATS geo-codes all addresses/location
- Accurate information leads to better connections
Geo-Enable Objects & Images

• What would make sense to put on the map?
  • Incident Locations
  • Vehicles Locations
  • Subjects and their Address Locations
Searching with a Map

BATS GIS map integrates with services to find results with incident types, devices, people and vehicles.

State and Local agencies have access to Federal and national incident information.
Old School Data Sharing & Mapping

BATS Data Sharing & Mapping
Spreadsheet vs. Map

Incident proximity is hard to see

Enables investigators to visually find patterns and connecting the dots

Does the spreadsheet or Map provide more information at once?
Both have value, GIS enhances the usability of the data with visual representation.
Investigators can look for specific devices and find connections between unrelated incidents to increase chances of solving cold cases and to communication with other agencies to share information.

Similar devices signatures found in different incidents may have a connection.
Astronomical Coincidence

BATS GIS mapping can solve crimes and provides a new tool to arson and bombing investigators in quickly find the perpetuators.

What are the chances that the same person is involved in more than one incident? Example: same witness in two different arson incidents.
Proximity and heat map is used to find basic crime patterns. It's time for the geo-spatial data to provide information to you.
Conclusion

• BATS GIS allows investigators to visually find patterns and connect dots to solving and capturing serial arsonist and bombers.

• BATS enables Law enforcement communication and collaboration.

• GIS is an integral part of law enforcement case management systems and will speed up any investigation.
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