HOBBITCON Nº 3
Deploying Palantir Gotham in New Orleans

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Innovation Delivery Team
Office of Mayor Mitch Landrieu
Murder in New Orleans

Murder is a critical and persistent issue in New Orleans

- National Murder Rate: 4.8 per 100,000
- Similar Sized Cities Murder Rate: 11.8 per 100,000
- 2012 New Orleans Murder Rate: 52.3 per 100,000

Culture of violence
Young kids victimized by beefs and gang retaliation
- 7 victims under 10 years old since 2010

Source: FBI Uniform Crime Reports; New Orleans did not submit 2005 data to the FBI due to Hurricane Katrina
Building Analytic Capacity

Lack of analytic capacity and resources in the Mayor’s Office and NOPD

Public safety data systems:

• Not integrated
• Changes have been inconsistent across agencies
• No system-wide retention or reconciliation policies
• Systems used as repositories of information rather than informing research and practice
Integrated Data Sources

Public Safety Sources

• NOPD
  o Calls for Service (CAD)
  o Electronic Police Reports (EPR)
  o Field Information Cards (FIC)
  o Case Management System (to come)
• Parole and Probation Records for Orleans Parish and surrounding Parishes
• Sheriff’s Office Arrest and Booking Records
• Group and Gang Database

Open Data Sources

• Schools, parks, libraries
• Liquor stores
• Map layers (police, fire, and council districts, historic districts, city parks, statistical areas)
• Streetlights
Using Data to Reduce Murder

Focus on People and Places
- Five neighborhoods with largest share of violent activity
- Victims and perpetrators are overwhelmingly young, African American, male, undereducated, and underemployed

Better Understand Modality
- 90% of murders are gun-involved
- 75% occur in a public space
- 78% are attributed to feud/retaliations, drugs, or an argument
- Groups and gangs are responsible for a large portion
Murders are geographically persistent over 3 years.
NOLA FOR LIFE

NOLA FOR LIFE: A Comprehensive Murder Reduction Strategy

- Multi-jurisdictional effort: city agencies, local, state and federal law enforcement, public safety agencies, community partners, service providers, researchers, universities, national experts

5 Pillars:
- Stop the Shooting
- Invest in Prevention
- Promote Jobs & Opportunity
- Improve the NOPD
- Get Involved & Rebuild Neighborhoods
Multi-Agency Gang Unit

Established in November 2012

- Uses racketeering (RICO) indictments to hold the most violent gangs accountable for the murders and shootings their members commit
- 8 gangs and 83 gang members indicted Nov 2012- Mar 2014
- A similar multi-agency gang unit is being replicated in Philadelphia and Peoria as a best practice

Multi-Agency Gang Unit Investigation Leads to the Most Sweeping Street Gang Indictment in the History of New Orleans

MAY 09, 2013
NEW ORLEANS, LA—Following an intensive and long term investigation by the Multi-Agency Gang (MAG) Unit, the Orleans Parish District Attorney's office obtained a sweeping fifty-one count racketeering indictment against fifteen defendants on Wednesday. In what is believed to be the broadest street gang indictment in the history of New Orleans, the DA's office indicted members of the 110'ers gang in a litany of violent crimes including ten murders – among these the murder of Brianna Allen. Additionally, the racketeering indictment lists four other murders as "overt acts" in furtherance of the gang's criminal enterprise.
Multi-Agency Gang Unit
A new way of working

110’ers: 15 people indicted

Frenchmen and Derbigny: 9 people indicted

Allen Family: 7 people indicted
Palantir Focuses Resources

Deploying limited resources where they will make the most impact

- CeaseFire Hospital Crisis Intervention Team – Target community outreach to hot spots
- Department of Public Works – Repair streetlight outages
- Fire Department – Increase presence around schools in violent areas
- Health Department – Identify schools with high-risk populations for prevention initiatives
- Innovation Delivery Team – Analyze murder victim wound locations
- Law Department – Enforce alcohol beverage outlet (ABO) violations
- Mayor’s Office – Locate neighborhood cleanup sites
- NOPD – Social network analysis, identify gang involvement in murders and shootings, and more
Challenges and Lessons

Challenges in the Public Sector

- Requires dedicated effort from project managers and public safety agencies
- Data identification, approval for integration, architectural issues
- Stakeholder and end user adoption

Lessons From a Project Manager

- Use your Palantir engineers!
- Palantir helps users imagine how they can use the tool and provides the common language between technology and practitioner or policy wonk
- On-site interest and adoption can be increased by replicating and expediting real world work flows
- Demonstrate demonstrate demonstrate
Combating Crime in NOLA with Palantir

Jeff Asher

Intelligence Analyst
Multi-Agency Gang Unit
New Orleans Police Department
Palantir as a Force Multiplier

Substantial applications of Palantir all along the tactical to strategic spectrum

Used to support:

• Criminal investigations
• Racketeering indictments
• Strategic homicide-reduction strategies

Employ multiple secure data sources:

• Jail calls & phone data
• Gang affiliations and violent activity
• Crime Lab Data
  • Ballistics Analysis
• Social Media
Criminal Investigations

Social network analysis in Palantir has become integral part of investigative process

- In 2013, New Orleans averaged 1.3 shootings per day (.45 homicides per day)

- Each day, social network analyses of victims and suspects in recent shootings and homicides are delivered to NOPD leadership, NOPD detectives, and interested Federal partners

- Ad hoc social network analysis charts provided to interested detectives to support and help solve specific investigations
Identifying Connections Through Social Network Analysis

- Indirect gang connection through Field Interview Card
- Jail calls to numbers in common with gang members
- Shared address with a gang member
Strategic Support

Palantir used to create sophisticated baseline analyses of NOLA’s gangs

• Firmly establishes gangs as “criminal enterprises” to assist in the indictment process

• Identify associates of gang members who were not classified in the gang audit, but who have a history of offending with known gang members

• Clearly establish gang territory and visually highlight possible feuds
Identifying Homicide Risk Through Social Network Analysis

• Research in Chicago shows up to 40% of homicide victims are criminally involved with someone who has been involved in a shooting

• Social network analysis of 2011-2013 fatal & non-fatal shooting victims in New Orleans creates a community of highest risk individuals

• We can identify 35-50% of shooting victims from a population of 3,800 citizens (1% of total city population)
  • Called the NOLA Model

• Identifying predictive murder victim characteristics will help reduce the size of the target population and maximize the efficiency of resource allocation
  • Predictive power will be the greatest among the high risk population with recent criminal histories
Identifying High Risk Victims Through Social Network Analysis

Social Network of a December 2013 Homicide Victim

…Repeat process thousands of times to identify high risk population

March 2013 Field Interview Card
## High Risk Population Breakdown

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<tbody>
<tr>
<td>Population</td>
<td>378,000*</td>
<td>3,941</td>
<td>2,496</td>
<td>2,094</td>
<td>374,059</td>
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<tr>
<td>% of NOLA Population</td>
<td>100%</td>
<td>1%</td>
<td>0.66%</td>
<td>0.5%</td>
<td>99%</td>
</tr>
<tr>
<td>2014 Fatal Shooting Victims</td>
<td>30</td>
<td>14</td>
<td>12</td>
<td>11</td>
<td>16</td>
</tr>
<tr>
<td>Fatal Shooting Rate Per 100,000</td>
<td>32</td>
<td>1,420</td>
<td>1,923</td>
<td>2,101</td>
<td>17</td>
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</table>
### Scoring 2014 Murders

**Incidents as of 4/01/2014**

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
<th>NOLA Model</th>
<th>Other</th>
<th>Percent Identified</th>
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</thead>
<tbody>
<tr>
<td><strong>Homicide Incident by Shooting</strong></td>
<td>27</td>
<td>16</td>
<td>11</td>
<td>59%</td>
</tr>
<tr>
<td><strong>Aggravated Battery by Shooting</strong></td>
<td>73</td>
<td>27</td>
<td>46</td>
<td>37%</td>
</tr>
<tr>
<td><strong>Aggravated Assault w/Gunfire</strong></td>
<td>14</td>
<td>6</td>
<td>8</td>
<td>43%</td>
</tr>
<tr>
<td><strong>Total Incidents</strong></td>
<td>114</td>
<td>49</td>
<td>65</td>
<td>43%</td>
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Mayor’s Office and NOLA FOR LIFE team are developing innovative strategies for putting the NOLA Model into action, and using it to inform our prevention, intervention, and rehabilitation approaches

• Engaging program partners
• Narrowing the list through three steps:
  o Selecting individuals with the highest predictors of violence (age, criminal history, gang affiliation)
  o Identifying individuals who are already engaged through other NOLA FOR LIFE programming
  o Identifying indicators that will suggest whether law enforcement intervention or social service prevention (or a combination) is more appropriate
Innovative Solutions

What We’ve Done So Far:
• 20% reduction in murders and 14% reduction in non-fatal shootings
• Lowest number of murders in nearly 30 years
• Murder rate has dropped to 42.3 per 100,000

Where We Want to Go Next:
• Create a dashboard that aggregates Street Gang Unit tactical activity
• Identify most violent gangs in real time
• Manage gang and other real-time intelligence
• Track homicide cases as they progress through case processing
• Identify returning citizens before release who are at highest risk for violence and connect them to reentry services
• NOLAlytics
Contact Info

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Jeff Asher