

Cure Violence

Tools for Telling the Story of Gun Violence
May 2016

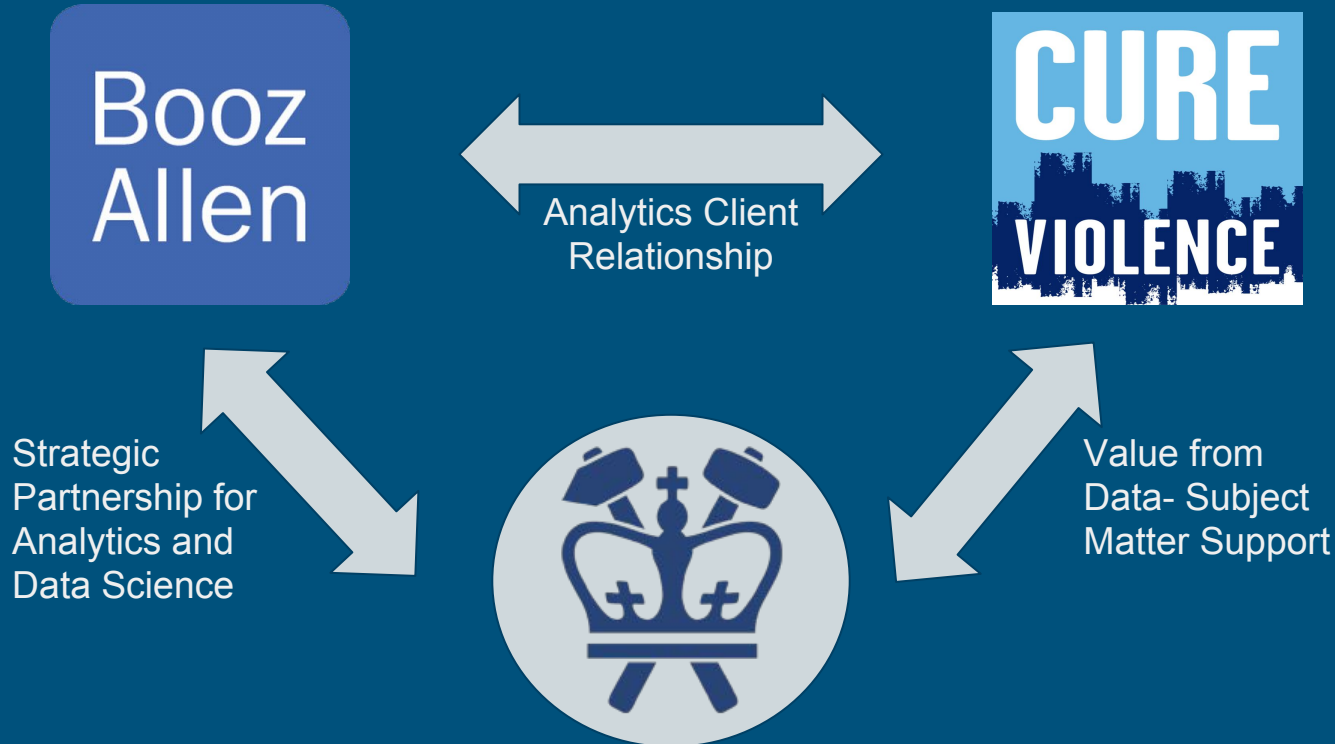
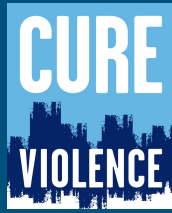
In partnership with Booz Allen Hamilton and Columbia University

What is Cure Violence?

Treating violence as a contagious health issue

Cure Violence stops the spread of violence in communities by using the methods and strategies associated with disease control – detecting and interrupting conflicts, identifying and treating the highest risk individuals, and changing social norms – resulting reductions in violence of 40% to 70%.

Project Organization



Project Milestones Review

1. Cost-benefit analysis

- a. How many Incidents were avoided, multiplied by the cost saving scalar
- b. Extracted data from reports
- c. Extracted model from the Mother Jones analysis

2. Visualization of Crime Reports

- a. Filter based on type of violence
- b. Allows for decisions on where to go next
- c. TODO: Incorporate Cost Benefit Analysis
- d. TODO: Ability to “drop in” mediators to view their effects in real time

Data Sources

OpenData Socrata data

- Socrata Clients:

- Baltimore
- New York
- Chicago
- Seattle
- San Francisco
- New Orleans



- Input data format: **CrimeDatetime | Category | Description | Lat | Long**

Public Reports

- Johns Hopkins University: Baltimore, 2012
- UI Chicago: Chicago, 2009
- Northwestern University: Chicago, 2014
- Mother Jones: What Does Gun Violence Really Cost?

Site Summary: Baltimore

- Data from the Baltimore Police Department for homicides and nonfatal shootings from January 1, 2003 to December 31, 2010
- Surveys of program participants from 2007 - 2010
- Average of 30 - 40 participants taking and tracking surveys
- Over 300 incidents mediated over 4 years

“Three of the four program sites experienced large, statistically significant, program related reductions in homicides or nonfatal shootings without having a counter-balancing significant increase in one of these outcome measures.”

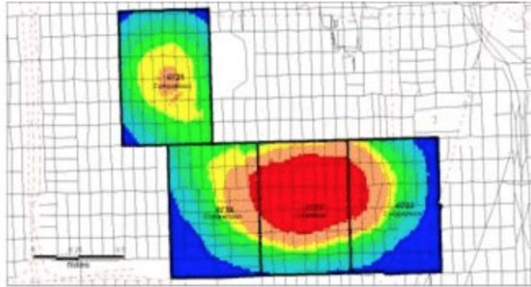
Site Summary: Chicago

- Raw crime counts show a 31% reduction in homicide, a 7% reduction in total violent crime, and a 19% reduction in shootings in the targeted districts.
- These effects are significantly greater than the effects expected given the declining trends in crime in the city as a whole.
- Reduced levels of total violent crime, shootings, and homicides remained constant
- The effects of the intervention were immediate
- It is not likely that effects were due to increased police activity

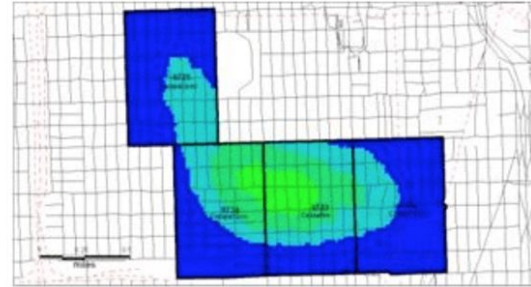
Gun Casualty Category			Cost per Victim	No of Victims	Cost per Category						
Homicide	Police and Legal	\$4,500	}	\$441,300	×	10,500	=	\$4,633,650,000	}	Homicide and Assault	\$8,114,650,000
	Mental-health Treatment	\$11,600									
	Medical care and Transport	\$11,200									
	Prison	\$414,000									
Assault	Police and Legal	\$2,000	}	\$59,000	×	59,000	=	\$3,481,000,000	}	Suicide and Attempted Suicide	\$570,000,000
	Mental-health Treatment	NA									
	Medical care and Transport	\$52,000									
	Prison	\$5,000									
Suicide	Police and Legal	\$2,000	}	\$15,000	×	20,500	=	\$307,500,000	}	Suicide and Attempted Suicide	\$570,000,000
	Mental-health Treatment	\$11,500									
	Medical care and Transport	\$1,500									
	Prison	NA									
Attempted Suicide	Police and Legal	\$2,000	}	\$75,000	×	3,500	=	\$262,500,000	}	Suicide and Attempted Suicide	\$570,000,000
	Mental-health Treatment	NA									
	Medical care and Transport	\$73,000									
	Prison	NA									

Shootings per Square Mile

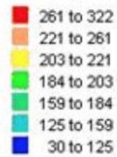
Before CeaseFire



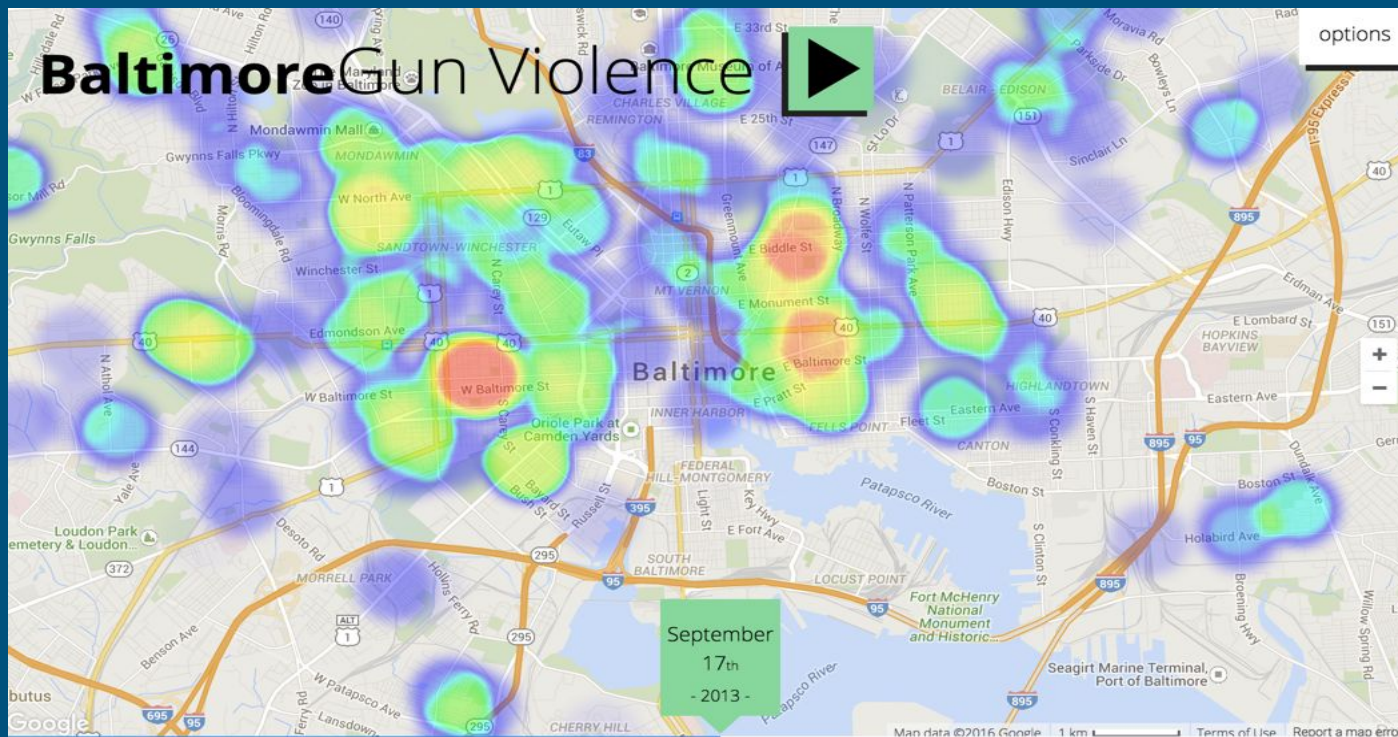
After CeaseFire



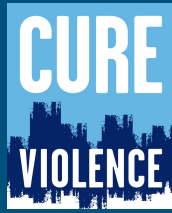
Shootings Per Square Mile



Interactive Heatmap of Gun Violence: Baltimore Demo



Suggested Steps for Advancing Value from Data for CV



Goal: Further advance the value from data to impact core functions

1. Tie in even more data sets: demographics, quality of life, internet usage, etc to build a growth model that can be applied across cities
2. Leverage Web MVP
 1. Add additional data (layering / pockets)
 2. Create functionality for prioritization of local areas
 3. Expand geographies filter
3. Embed a easy to use customer view within Website. Consider optimizing website with something interactive that customers can play with, and make it extensible to other cities
4. Incorporate data from internal data sets be synced with a web presence: show areas of mediator presence and events to highlight impact



Thank You



Questions?

