

# Blight & Violent Crime Urban Data Pioneers



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## Team Members:

Capt. Richard Alexander, TPD

Cathy Criswell, City Auditor

Dan Ford, IT

Janet Kohls, Fire

Penny Macias, OPSI

Chase Mohler, WIN - PM

Matt Parsell, IT - GIS

Patricia Wolf, WIN

Charles Wulff, TPD

# Project History



**Project Overview:** Examine the relationship between Blight & Violent Crime and the possible data driven solutions.

## **Definitions for purposes of this project:**

Blight: Any Structure or lot which is:  
Uninhabitable, or  
Unsafe or negatively affects health, or  
Abandoned, or  
Presents an imminent danger to people or  
A location where repeated illegal activities occur;  
And violates state or local property codes

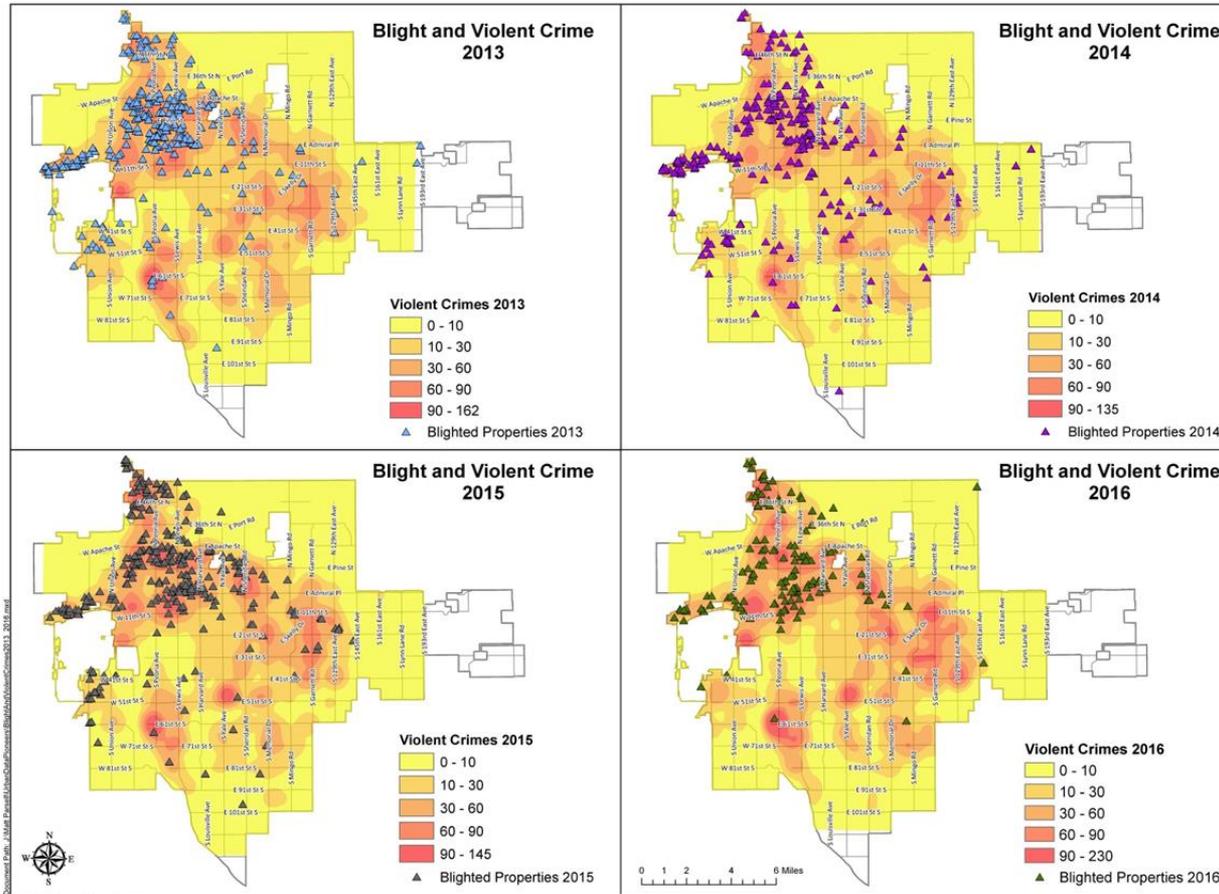
Violent Crime: under FBI uniform crime reporting, violent crime includes (1) murder & non-negligent homicide, (2) forcible rape, (3) robbery, and (4) aggravated assault.

# Questions the data could answer



- Is there a way to visualize the relationship between blight and/or abandoned properties and violent crime? **Yes**
- Is there a way to test the hypothesis that “Blight leads to violent crime” with the data that we can access? **Building a robust inventory of blight data to test the hypothesis.**
- If correct, is there additional data that if accessed would allow us to predict blight and in turn prevent violent crime? **Unknown**
- Can we predict blight and inform strategies for reducing the likelihood that a property will become so deteriorated that the only option is demolition? **Continuing/Improving – WIN**
- Can we predict blight and share information more timely with community partners to come up with innovative solutions to avoid blight? **Continuing/Improving – WIN**

# Blight & Violent Crime 2013-2016



# Data Collection Tool



## Development Team – Online Geo Form

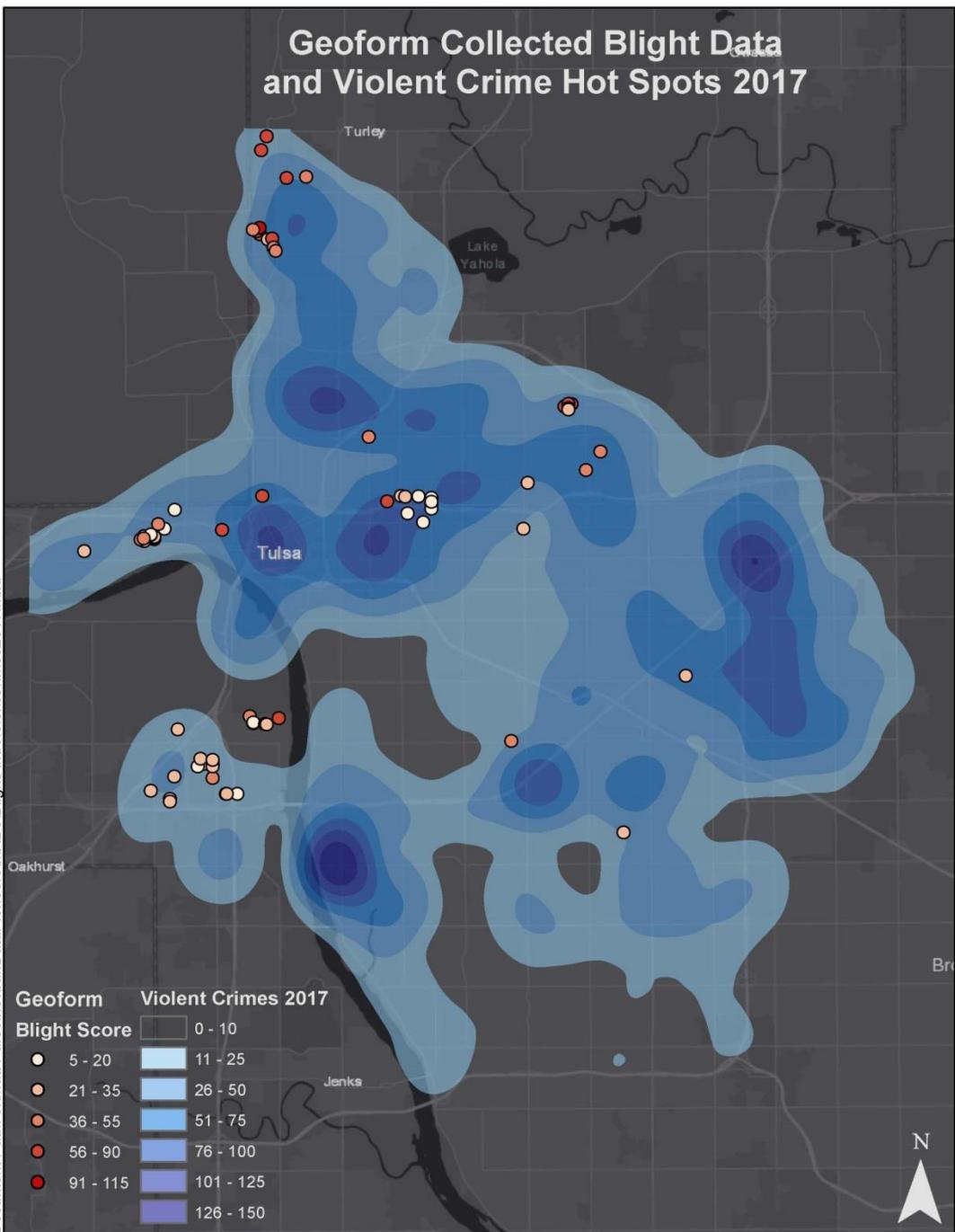
1. Question Formulation - Dwain Midget, Brant Pitchford, and Chase Mohler (WIN Staff)
2. Creation, Capabilities, and Reporting of online geo form - Matt Parsell, IT
3. Design & Consultation – UDP Team

<http://maps.cityoftulsa.org/blight/>

# Geoform Collected Blight Data and Violent Crime Hot Spots 2017



Document Path: J:\Matt Parsell\UrbanData\Pioneers\MXD\BlightAndViolentCrimes2017.mxd



# Data Analysis



- Who collected the data? **TPD and Love Your Block (LYB) participants**
- What is the quality of the data collected? **86%**
- How do you know the quality of the data collected? **A random selection of the data was inspected by a qualified WIN staff member for quality.**
- The quality of the data will fluctuate as more data is received and inspected at random.

# What's Next?



- Continued data collection from a wider variety of internal departments.
- Continued review and analysis of crowdsourcing options and tools
- Continued support of BlightStat initiatives and data driven solutions.
- Analysis of demolition data from 2017 and subsequent visualizations