

# What Works Cities

Bloomberg  
Philanthropies

SUMMIT ON  
TRANSFORMING  
**DATA**  
≡ INTO ≡  
**ACTION**

# 5

# Code Enforcement



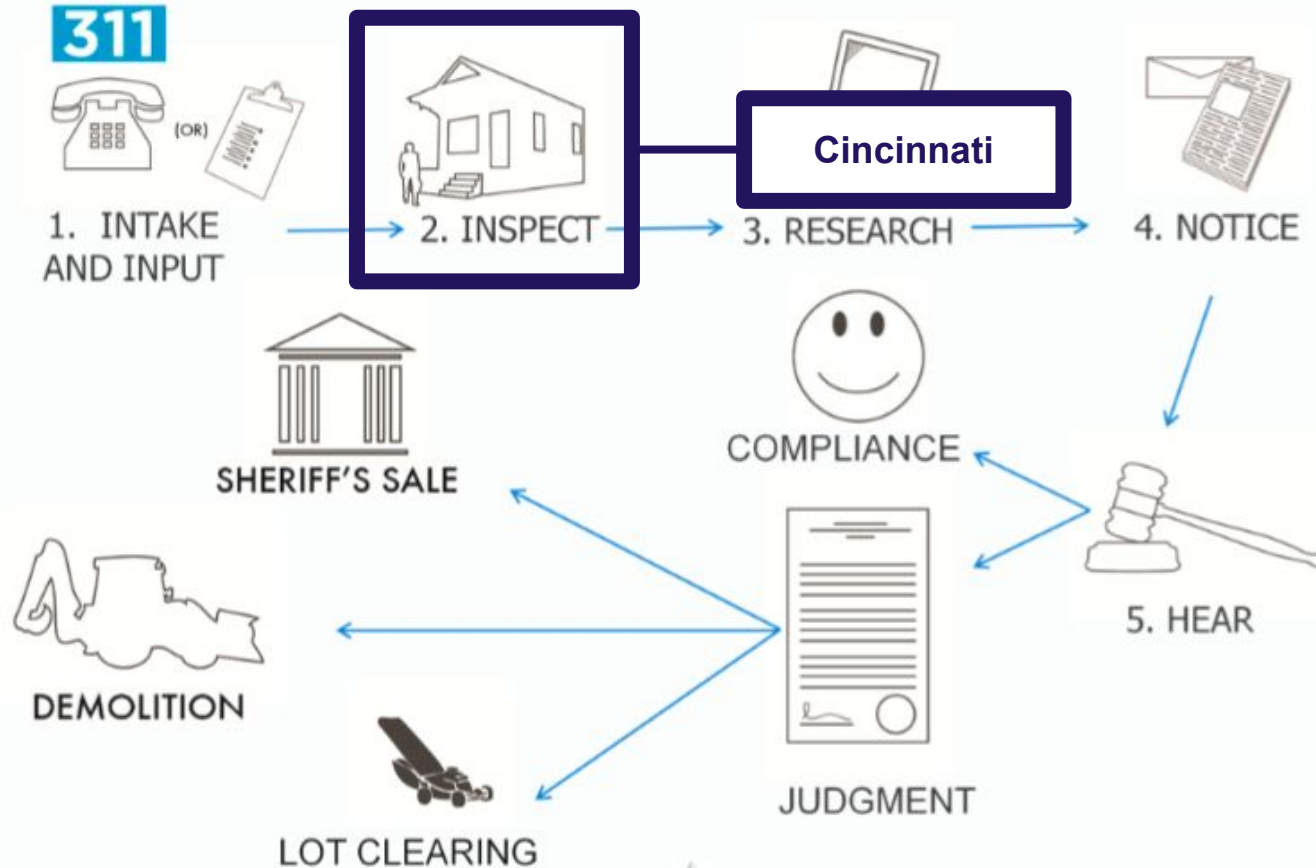
**GovEx**



# Overview of the Blight Reduction Process



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# The Role of Data

## Cincinnati

- Tax assessment records
  - Parcel-level
- Water shutoffs
  - Parcel-level
- Crime records
- Fire records
- Census Data

## New Orleans

- Market Value Analysis (TRF)
- Neighborhood Characteristics
- Building Condition
  - Parcel-level



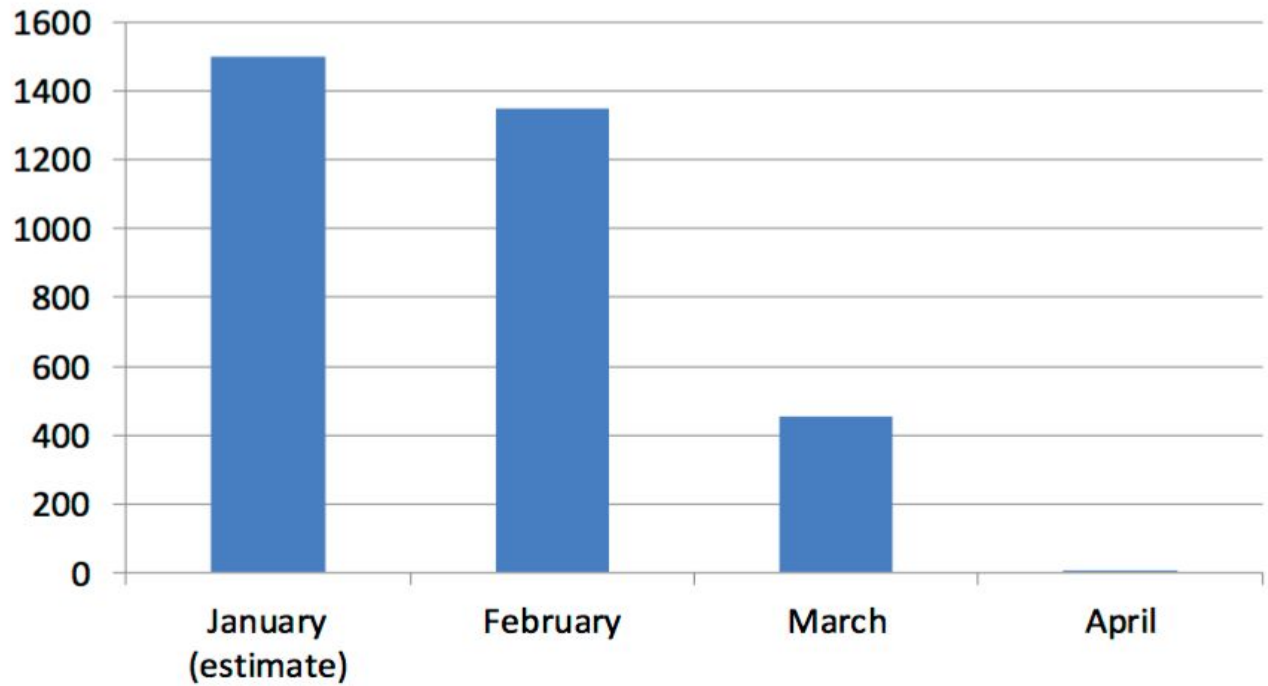
## City of Cincinnati: Blight Identification Dashboard



How the DSSG fellows tracked blight.



### Number of Open Cases Awaiting Abatement Reviews



# The Role of People

CITY

Leadership

Analytics  
Staff



Data  
Science  
Experts

CONSULTANTS

Front-Line Experts

Image Source: <https://backchannel.com/>, "Bluegrass, Blight, and the Future of Cities: How a fiddler and an astrophysicist introduced predictive analytics to Cincinnati"

# The Role of Technology

Collecting/Storing Data



davenportgroup

Analyzing Data



python™

Sharing Methods & Results



davenportgroup

**GitHub**

# Summary of Key Insights and Replication Considerations

- Cities are likely to have rich data sources that can help to identify and address blight, including code enforcement data, tax assessments, calls for service, crime data, and neighborhood characteristics can all be mined for insights.
- Include front-line inspectors and decision-makers early to learn about biases in the data and important considerations for how decisions are made - what can and cannot be captured by the data.
- Staff must be comfortable using the output of tools and models in their work for them to make a difference.
- The output of both projects are tools to help inspectors and managers, and augment rather than replace existing processes.

# To learn more about these projects



enigma

<http://dssg.uchicago.edu>

<http://www.nola.gov/performance-and-accountability/nolalytics/>

**Your next  
station is**

**6**



**GovEx**

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# The Methodology

Discuss with Front-Line Experts



Created by Jessica Lock  
from Noun Project

Collect the Data



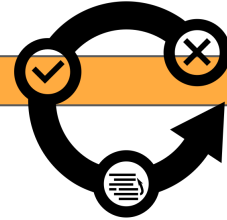
Created by Dmitry Baranovsky  
from Noun Project

Develop Model



Created by Rffor  
from Noun Project

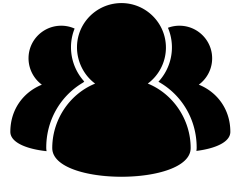
Test Against Historic  
Data



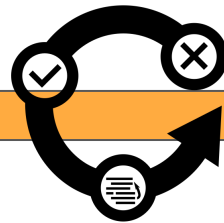
Created by Richard Slater  
from Noun Project



Analyze the  
Results



Implement &  
Monitor Results



Created by Richard Slater  
from Noun Project

Field Test



Created by Jessica Lock  
from Noun Project

Refine with Front-Line  
Experts