



CUSTOMER  
2014 SUMMIT

# NEXT WAVE OF GEOSPATIAL AND MAPPING INNOVATION

Presented by Erika Smith, VP Ecosystem and Strategic Alliances, Socrata | October 22<sup>nd</sup>, 2014

# Agenda

## Overview

1	Session Overview and Speaker Introductions
2	Brett Flodine, GIS Manager, City of Hartford, CT
3	Jordan Breckenridge, Sr Product Manager for Google Maps Gallery
4	Q&A

# Session Overview

- **Maps**  
Most powerful and prolific type of data visualizations
- **The new “Geo” sector**  
Experiencing a renaissance
- **Potential of geographic data**  
Real-world examples in the Public Sector
- **Panel**  
Sharing perspectives from the global, state and local perspective

# Panelist: Brett Flodine

GIS Manager, City of Hartford, Connecticut

Brett Flodine is the GIS & Open Data Solutions Manager for the City of Hartford, Connecticut. Brett has 20 years of experience in the GIS field, and has been in Hartford for the past 8 years.

In the past year he has been responsible for the City of Hartford's Open Data Site. Prior to joining the City of Hartford, he was the GIS Coordinator for Groton, Connecticut, for 3 1/2 years. Prior to that he worked as a GIS Project Manager for Fuss & O'Neill for 10 years performing town-wide GIS implementations for communities in the states of Connecticut, Massachusetts, and New Hampshire.





Brett Flodine  
GIS Manager

City of Hartford, Connecticut

Implementing Open Data in the City of Hartford

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# Implementing Open Data in the City of Hartford

## A Brief History

1

**March 27,  
2014**

Mayor Segarra orders release of raw city data to increase transparency

2

**April 1,  
2014**

Started loading data into Socrata Platform

3

**May 2,  
2014**

Attended first Hackathon at University of Hartford

4

**May 31,  
2014**

Soft launch on National Day of Civic Hacking

5

**August 28,  
2014**

Official launch of Open Data Website

## How the CT Mirror hackathon taught me to be a student again

Posted on May 2, 2014 by Jack Dougherty

The clock had run out. At 2:30pm, our team was supposed to be heading to the downstairs auditorium to present our digital product to the panel of judges, but it wasn't ready yet. Earlier that morning I suggested to the team that we should "freeze the code" at 2:15pm to give us time to migrate the computer application my half of the team had developed to its new host website, built by the other half of the team. But by lunchtime, several of my mistakes with data merges had slowed me down, and I blew past our self-imposed deadline, pleading for "just a few more minutes" to fix a few lines of code that had been promised, yet not delivered. When I finally stopped around 2:25pm, the broader consequences of my actions dawned on me, as my teammates' attempts to migrate the files to their new website were blocked by our uncooperative guest network access. What a mess, and it was mostly my fault. Half of our final product was on one server, and the other half was on another, with no way to link them together.



During a lighter and less-panicky moment of the CT Mirror Inequality hackathon:  
Jack Dougherty, Scott Gaul, Diana Deng; Evan Dobos, Erin Boggs, Elliot Berg in back.

### Housing Mobility Map (beta)

Enter an apartment or home address to find areas of higher opportunity and neighborhood assets.  
Incomplete data includes only Hartford Info on grocery stores and early childhood facilities.  
Created at CT Mirror Inequality Hackathon 2014 for the Open Communities Alliance to assist housing mobility counselors. Learn more.

Address ([Find me](#))

Enter an address or an intersection  
within [1/2 mile](#)

#### Census tracts

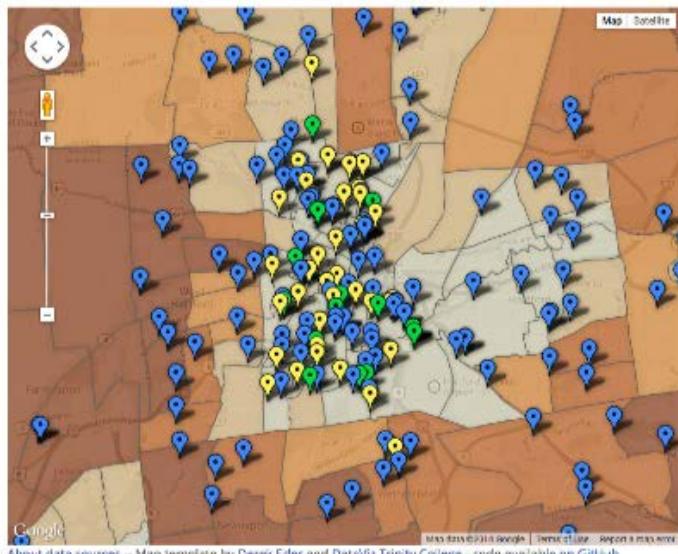
Higher opportunity = darker shading

#### Neighborhood assets

- Grocery stores
- Public schools
- Early childhood

[Search](#) [Reset](#)

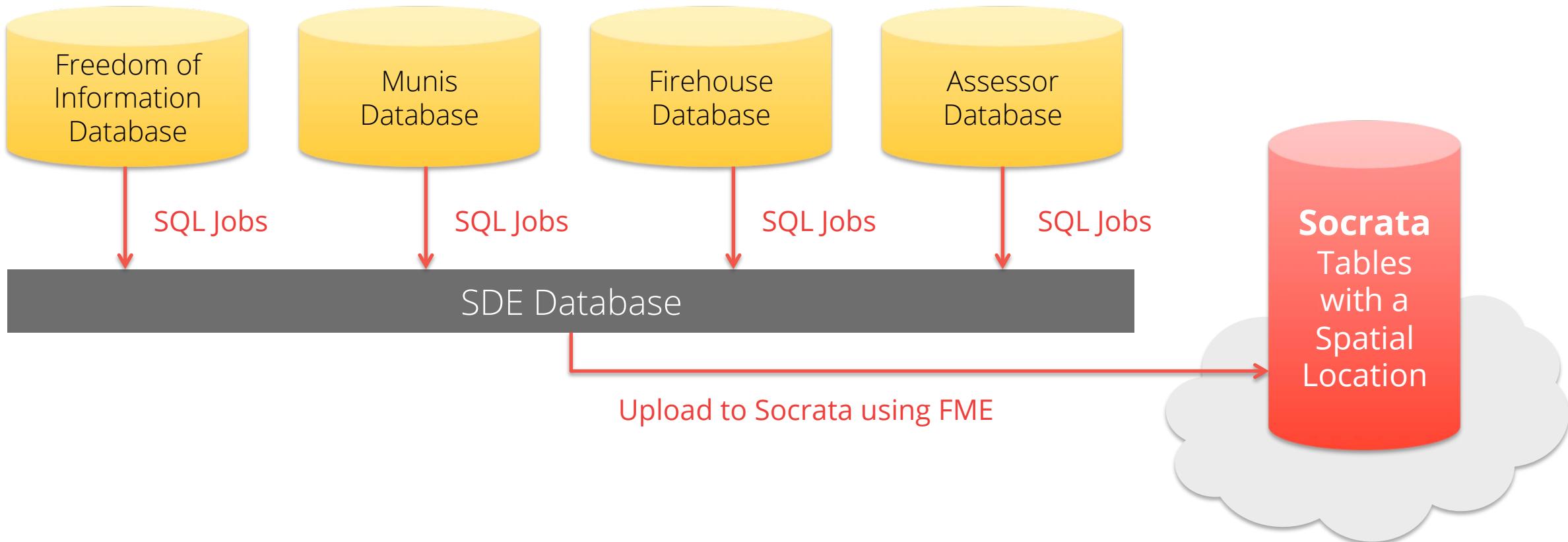
296 results found



Housing Mobility Map (beta version). Click image to try it online.

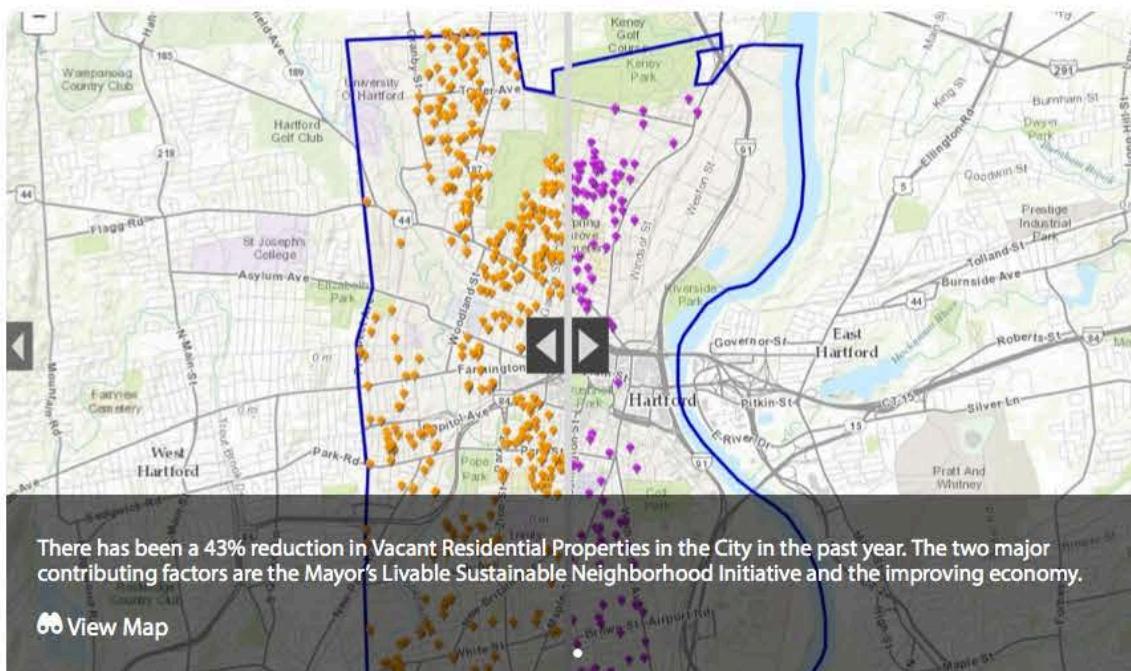
# Getting Data into Socrata

Scheduled Tasks Import/Convert Raw Data to Spatial Data





Search [data.hartford.gov](#)



## Hartford Open Books

[Website](#)

The detail of financial data within Open Books covers every level of the City's General Fund expenditures, from total spending by fiscal year to individual vendor payments. Open Books is updated weekly with the most recent closing numbers. At this time this App will not work on a Smart Phone such as iPhone or Android device.



## Building & Trade Permits

[Raw Data](#)

This dataset will give the user access to Building & Trade permits issued by the Licenses and Inspection Department issued from January 1, 2011 to current. This dataset is update nightly

## Food Establishments

[Raw Data](#)

This dataset will give the user access to an export of the Class 1 - Class 4 Food Establishments from the City's Munis database. This

## Hartford Open Data

City of Hartford – GIS Services

This website will give the user access to the City's GIS data. You will be able to download data from our Esri-based SDE



## Categories

[All Datasets](#)

[Community](#)

[Education / Youth / Family](#)

[Financial](#)

[GIS Data](#)

[Housing / Development](#)

[Open Checkbook](#)

[Public Health](#)

[Public Safety](#)

## DEVELOPERS

Build something with public data.

0 APIs

[Join](#)

## Explorer Apps



[Hartford Stat](#)

Coming Soon: Explore the city's performance measurements with Hartford Stat

## Suggest a Dataset

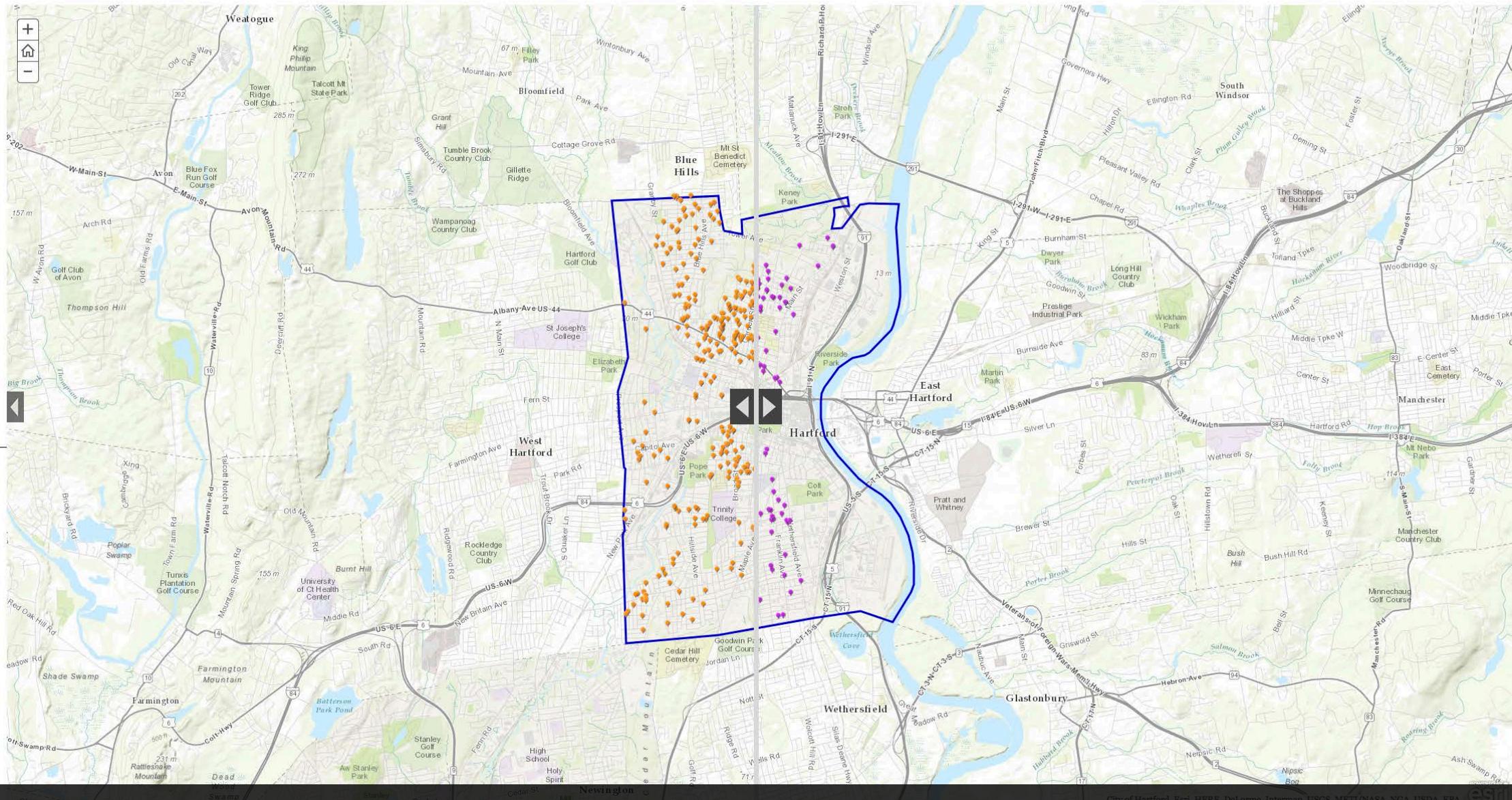
Didn't find what you were looking for?

[Suggest](#)

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2014

Updated yearly in May

Use the vertical slider bar to compare the vacant residential properties in May 2012 (370) vs the vacant residential properties in May 2013 (211). You can select the symbols on the map to get additional information about the properties shown.



# Hartford Open Data

City of Hartford – GIS Services

**CUSTOMER  
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## Hartford Open Books

Website

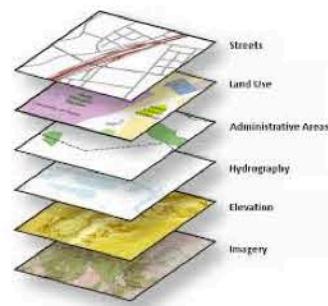
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## HartfordGIS Data

Website

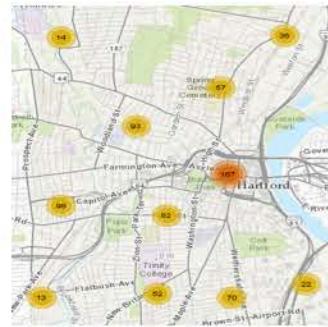
This website will give the user access to the City's GIS data. You will be able to download data from our Enterprise SDE Geodatabase from our Open Hartford GIS data portal on ArcGIS.com.



## Food Establishment Map

Map

This map will show all of the Current Class 1 - Class 4 Food Establishments in the City. As you zoom into the map individual locations will appear on the map and you can select them to bring up a dialog box with the associated information.



## Building & Trade Permits

Raw Data

This dataset will give the user access to Building & Trade permits issued by the Licenses and Inspection Department issued from January 1, 2011 to current. This dataset is update nightly

## Food Establishments

Raw Data

This dataset will give the user access to an export of the Class 1 - Class 4 Food Establishments from the City's Munis database. This dataset is updated nightly

## Grand List 2013

Raw Data

This dataset will give the user access to the City's Grand List as of October 1, 2013 for real property

## Assessor Property Information

Raw Data

This dataset will give the user access to the Assessor Property Information and it is updated on a nightly basis. It can be used to join the information to the GIS parcels using a relate on the field GISPIN

## DEVELOPERS

Build something with public data.

0 APIs

Join →

## Explorer Apps



### Hartford Stat

Coming Soon: Explore the city's performance measurements with Hartford Stat

## Suggest a Dataset

Didn't find what you were looking for?

Suggest →

## Twitter

### Tweets

Follow



18 Sep

We have published Community Development Block Grants for community organizations amounts from 1997-2015



9 Sep

Plugged @OpenDataCT & @HartfordData to a student researcher. Excited to connect my students to these resources. #research @trinitycollege

Retweeted by Hartford Data

Expand



2 Sep

2002-2012 Birth info has just been added to educ youth family category with year,gender,ethnicity,race,neighborhood, & high school zone



29 Aug

A revised version of our crime incident table is now available.

Tweet to @HartfordData



Unsaved View [Save As...](#) [Revert](#)

Based on Current Class 1 - Class 4 Food Establishments Map  
Class 1 - Class 4 Food Establishments. Updated nightly. For more information on the Food Establishment Class codes select the about tab and scroll down to the attachments.

[Manage](#) [More Views](#) [Filter](#) [Visualize](#) [Export](#) [Discuss](#) [Embed](#) [About](#)

View details for this row  
< Previous [Next >](#)  
[View in Google Maps](#)

blms_id	blms_parcel	blms_loc_no	blms_loc_street	blms_dba	bldt_lic_text2	bldt_lic_text3	
1	10057	223330032	187	ALLYN ST	BLACK BEAR SALOON	FOOD - CLASS 4	SP
2	10069	223279007	628	ASYLUM AV	CAPITOL VIEW DELI	FOOD - CLASS 3	DE
3	10095	245333067	350	ASYLUM ST	BLACK EYED SALLY'S	FOOD - CLASS 4	RE
4	10254	202416001	151	FARMINGTON AV	AETNA - FLIK INTERNATIONAL	FOOD - CLASS 4	CA
5	10256	179320253	190	FARMINGTON AV	FAMILY DOLLAR STORE #5055	FOOD - CLASS 1	VAF
6	10257	170320252	198	FARMINGTON AV	CARLOS SUPERMARKET	FOOD - CLASS 2	



## Police Incidents 01012014 to 12312014

Based on Police Incidents 01012005 to Current

This dataset reflects reported incidents of crime (with the exception of sexual assaults, which are excluded by statute) that occurred in the City of Hartford from 2005 to the present.

[Manage](#)
[More Views](#)
[Filter](#)
[Visualize](#)

Case_Number	Date	Time_24HR	Address	UCR_1_Category	UCR_1_Descript
1	14000034	01/01/2014	0623	75 GRANDVIEW TER	52* - SHOTS FIRED
2	14000048	01/01/2014	1333	20 GROTON ST	23* - DRIVING LAWS
3	14000339	01/01/2014	1400	59 EATON ST	05* - BURGLARY
4	14000049	01/01/2014	1341	152 HUBBARD RD	08* - SIMPLE ASSAULT
5	14000019	01/01/2014	0250	20 BARKER ST	08* - SIMPLE ASSAULT
6	14000050	01/01/2014	1317	756 PARK ST	19* - CRIMES AGAINST THE PUBLIC
7	14000051	01/01/2014	1440	9 WYLLYS ST	08* - SIMPLE ASSAULT
8	14000058	01/01/2014	0030	233 PARK ST	32* - PROPERTY DAMAGE ACCIDENT
9	14000060	01/01/2014	1730	100 WELLS ST	51* - MISC. MANAGEMENT INFO.
10	14000061	01/01/2014	1836	59 WEBSTER ST	51* - MISC. MANAGEMENT INFO.
11	14000062	01/01/2014	1815	SARGEANT ST & WOODLAND ST	04* - AGGRAVATED ASSAULT
12	14000063	01/01/2014	1846	125 WESTON ST	19* - CRIMES AGAINST THE PUBLIC
13	14000064	01/01/2014	0100	1 BELLEVUE ST	32* - PROPERTY DAMAGE ACCIDENT
14	14000006	01/01/2014	0018	FAIRFIELD AV & NEW BRITAIN AV	31* - PERSONAL INJURY ACCIDENT
15	14000065	01/01/2014	1730	100 WELLS ST	55* - REPORT-RELATED
16	14000066	01/01/2014	1949	54 GRAFTON ST	08* - SIMPLE ASSAULT
17	14000021	01/01/2014	0332	WARD ST & ZION ST	32* - PROPERTY DAMAGE ACCIDENT
18	14000068	01/01/2014	2109	450 BARBOUR ST	08* - SIMPLE ASSAULT
19	14000069	01/01/2014	2226	REV R.A. MOODY OVPS & WESTO	32* - PROPERTY DAMAGE ACCIDENT
20	14000024	01/01/2014	0350	PARK ST & PUTNAM ST	32* - PROPERTY DAMAGE ACCIDENT
21	14000028	01/01/2014	0435	63 BLUE HILLS AV	32* - PROPERTY DAMAGE ACCIDENT

# Crimes in Hartford, CT

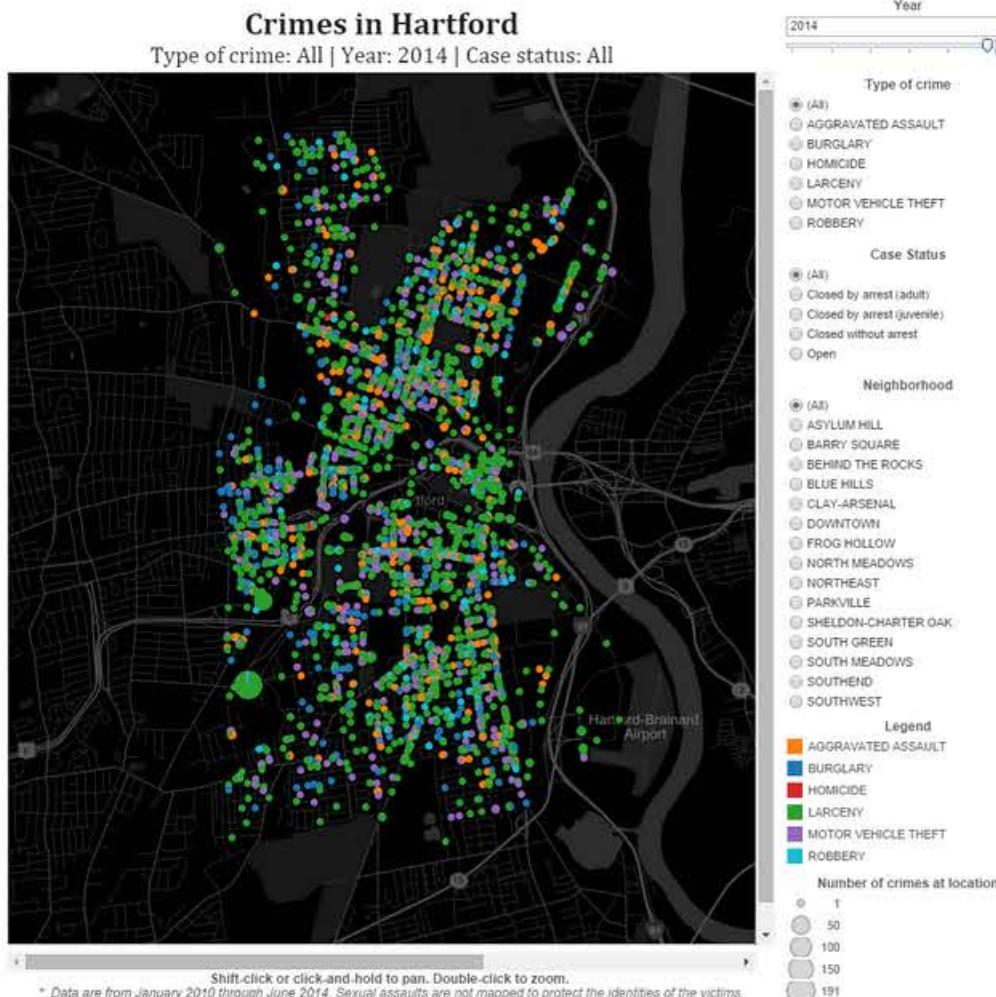
Like 10

Tweet 3

Author: Stephen Busemeyer published on [The Courant](#)

Viz of the Day Gallery

Stephen Busemeyer of The Courant visualizes the locations of different types of crimes in Hartford, CT. Click on the screenshot to explore the viz and filter the view.



## GALLERY

Business and Real Estate

Government and Public Data

Health and Science

Social Media

Sports

Stories

Travel and Lifestyle

All

### Vizzes in the wild showcase



[View Gallery](#)

"Tableau Public is a new freeware app that intelligently suggests the right data visualization, and then lets you publish it to the Web as an embed."

Cliff Kuang  
Fast Company

### Related Vizes

[Centenarians in Argentina](#)

[Italian Political thermometer](#)

[State to State Migration](#)

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**PUBLIC RECORDS SEARCH**

First Name  Last Name  State  Go

Search for crime reports by city, state, or zip...

The Public's Crime Map. Helping create a safe neighborhood by reducing crime rates and improving home security in Hartford, CT.

Email Address...

Date:  To:  Keyword:  Refresh Map

View all  Arrest  Arson  Assault  Burglary  Robbery  Shooting  Theft  Vandalism  Other  User Reported  Analytics  Help

Search PreOwned Inventory  
Great selection of pre-owned cars at Wayne Hyundai search online now! >

Map Satellite

Arrest  
Arson  
Assault  
Burglary  
Robbery  
Shooting  
Theft  
Vandalism  
Other

Public Arrest Records  
1) Enter a Name & Search for Free. 2) View Background Check Instantly. >

# Real Hartford

a city cannot be reduced to a slogan



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[Frequently, Sporadically, and Rarely Asked Questions](#)

## Random Facts from Hartford Open Data: Accidents

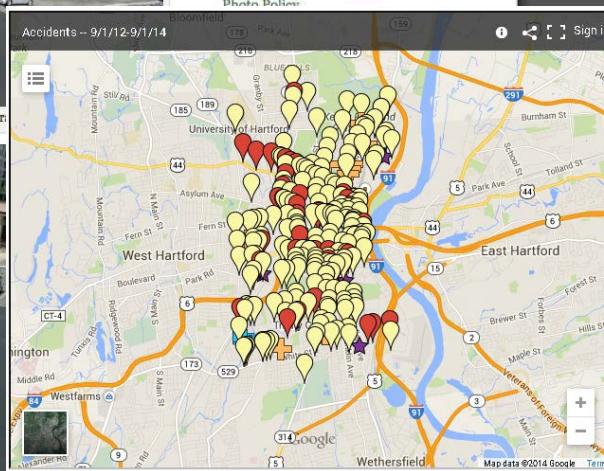
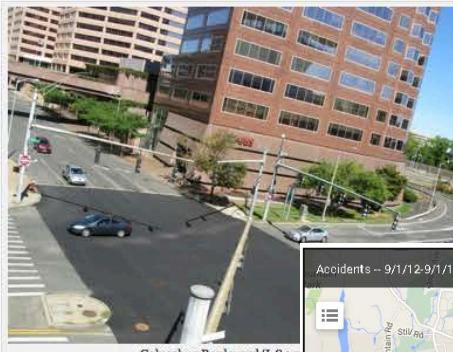
By Kerri Provost, September 17, 2014 9:46 am

If you live near a fire station, chances are you hear sirens so often that you begin to have auditory hallucinations and are sometimes not entirely sure when the sirens are real or imagined. Some neighborhoods seem to experience a higher frequency of structure fires than others, but only a couple of those sirens we hear each day are for actual structure fires.

Other calls they respond to: false alarms, medical assists, gas leaks, lock outs, rescues from stalled elevators, matters requiring police, malfunctioning sprinkler systems, oil and gas spills, and motor vehicle accidents.

For the period of September 1, 2012 through September 1, 2014, there were 12,525 accident cases on file with the Hartford Police Department. A few of these were designated as "other," but the majority were described in Open Data as involving motor vehicles. Approximately 17% of these involved injuries, though the database does not indicate severity of those injuries. There were twelve fatal accidents, one of which was labeled manslaughter. A glance at the map shows that the fatal accidents in recent years did not occur at locations with the greatest number of accidents in all, though in previous years, that had sometimes been the case.

Looking at time of year is not necessarily a predictor. During this period, the month with the greatest number of accidents was February 2014 (681 accidents), but the next highest was September 2012 (549).



### Payment Options

Baller : \$10.00 USD - yearly

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### Real Hartford Basics

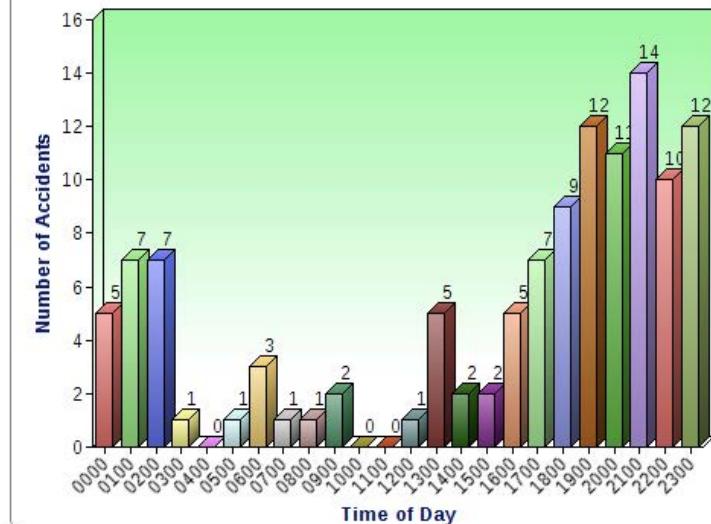
[FAQ](#)

[Send Tips](#)

[Submit Event for Calendar](#)

[Photos Galleries](#)

## Drunk Driving Accidents by Hour



Not all drunk driving is happening around midnight

## Drunk Driving Accidents by Neighborhood



- |                     |
|---------------------|
| 1. Asylum Hill 16   |
| 2. Barry Square 9   |
| 3. Behind the Rocks |
| 4. Blue Hills 9     |
| 5. Clay Arsenal 5   |
| 6. Downtown 10      |
| 7. Frog Hollow 15   |
| 8. North East 11    |
| 9. North Meadows 7  |
| 10. Parkville 1     |
| 11. Sheldon/Charter |
| 12. South End 8     |

**HARTFORD GIS**

# Hartford GIS

Metro Hartford Information Services

Hartford GIS

Available Digital Data

Interactive Mapping

Mobile Mapping

Map Library

What is GIS?

Contact Us

MHIS History

Performance Measures

PMO

Organization Chart

Contact Us

Hartford 311

Select a Department

Assessor 

## Hartford GIS



### Welcome to the Home of Hartford GIS Services

Hartford GIS Services (HGIS) is a division of the Business Systems Group in Metro Hartford Information Services. HGIS is responsible for managing, maintaining and updating the enterprise SDE database that is used by all of the departments in the City to access our GIS data. HGIS also manages all of the GIS licenses, and software used by the departments in the City except the Police Department. There are many data layers that we maintain, they include but are not limited to the following: address points, property lines, dimensions, building footprints, road edges, parking lots, driveways, sidewalks, fences, vegetation, and other planimetric and citywide datasets as needed. HGIS maintains the owner and address information for the 311 software, MUNIS, and Firehouse software which is utilized by the Fire department. In addition, we are responsible for maintaining the software and servers that support the Assessors Computer Aided Mass Appraisal (CAMA) System. HGIS manages a contract with Pictometry International that provides yearly oblique aerial and orthographic imagery for the City.

HGIS creates thematic maps, perform data analysis and also supports digital data requests from both internal and external

## Grid Interrupted: Disputed Territories

By Kerri Provost, September 4, 2014 6:15 pm

In 2011 following the October snowstorm, the Town of Windsor had Violet Street, Sunset Street, and West Service Road on its plow route. The 2013 snow operations map for Hartford said that the City is responsible for plowing all of Violet, Sunset, and Midland. Trash collection is partially done by Hartford, partially by Windsor. Children from a few houses on these streets would go into the Windsor Public Schools, namely Oliver Ellsworth and JFK.

The divisions are not made on a north or south side of Violet and Sunset, nor are they at intersections. Streams or ridges do not create any natural boundary. It does not seem to follow a treeline. Only one part of this section's boundary is based on something organic, like where a stream meets a pond, but with the development of the highway in 1952, this is not even obvious. As for everything else, it appears that the boundary cuts through

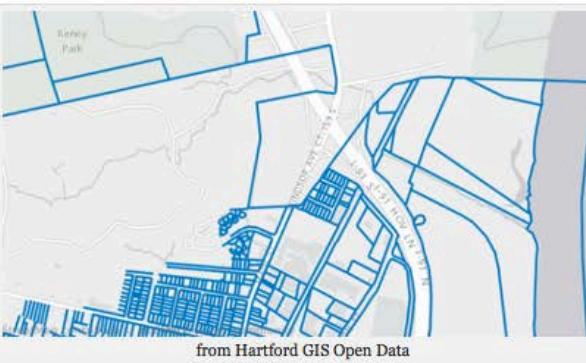
properties, through houses on Sunset and Violet, at a weird angle.

Are boundaries sometimes simply arbitrary?

Using logic, one would believe that perhaps the line changed significantly over the years. It's true that the city boundary has changed in general, but with most Hartford history texts focused on Downtown, Asylum Hill, and bits of the West End, with the occasional nod given to Coltsville and the factories in Parkville and along Capitol Avenue, it's not easy to get a sense for why.



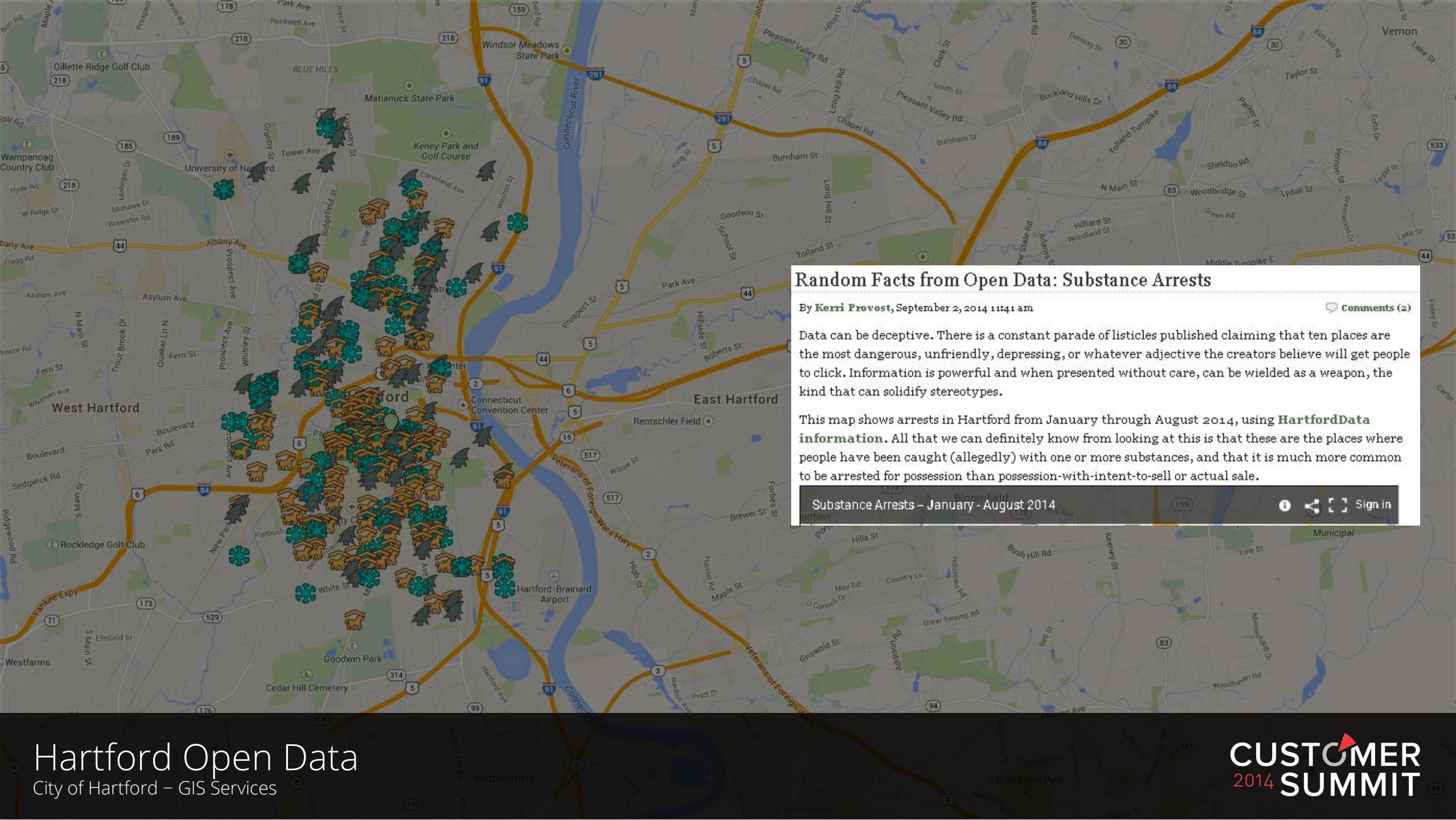
from Hartford GIS Open Data

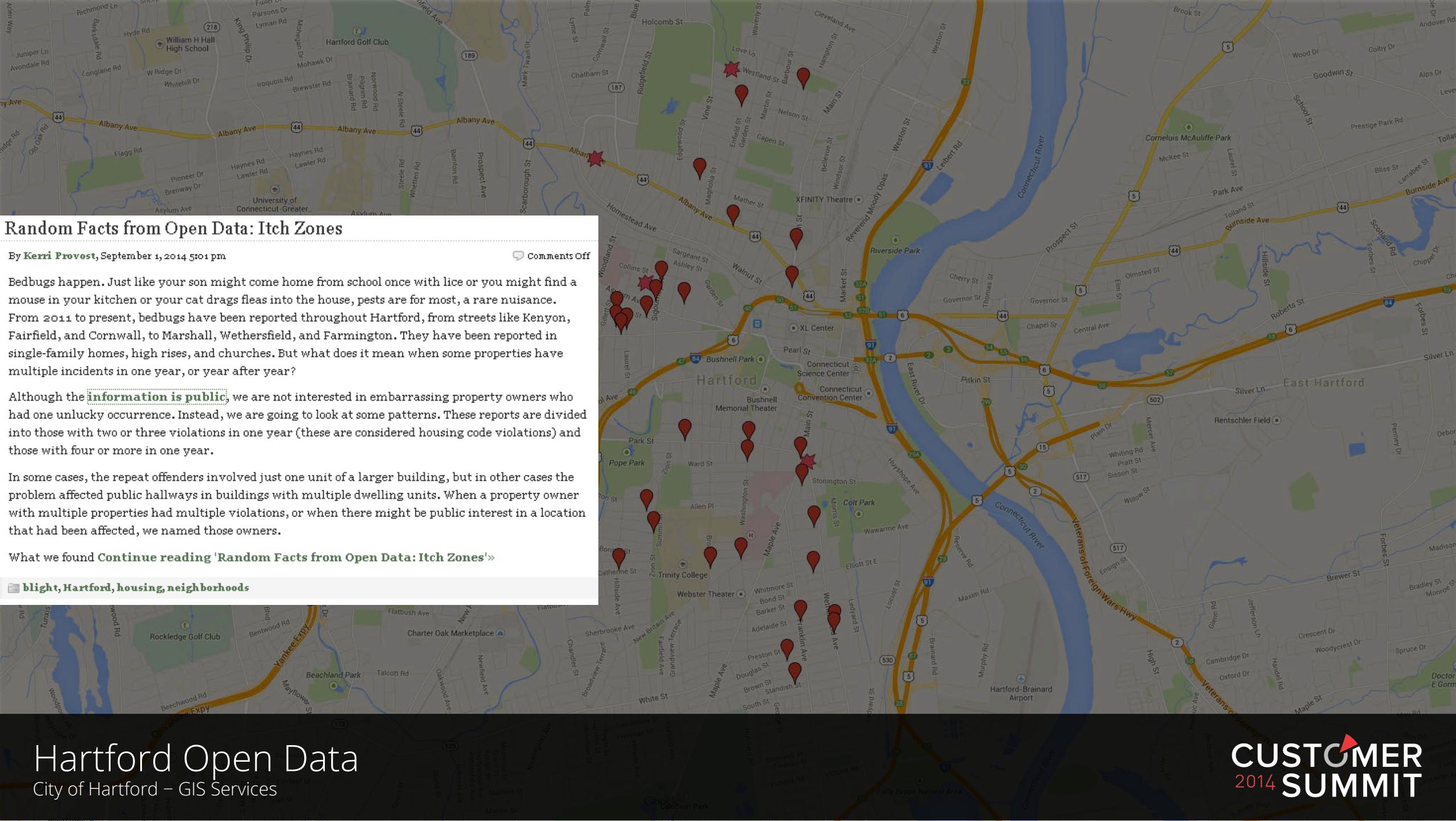


from Hartford GIS Open Data



from Hartford GIS Open Data





## Random Facts from Open Data: Itch Zones

By Kerri Provost, September 1, 2014 5:01 pm

Comments Off

Bedbugs happen. Just like your son might come home from school once with lice or you might find a mouse in your kitchen or your cat drags fleas into the house, pests are for most, a rare nuisance. From 2011 to present, bedbugs have been reported throughout Hartford, from streets like Kenyon, Fairfield, and Cornwall, to Marshall, Wethersfield, and Farmington. They have been reported in single-family homes, high rises, and churches. But what does it mean when some properties have multiple incidents in one year, or year after year?

Although the **information is public**, we are not interested in embarrassing property owners who had one unlucky occurrence. Instead, we are going to look at some patterns. These reports are divided into those with two or three violations in one year (these are considered housing code violations) and those with four or more in one year.

In some cases, the repeat offenders involved just one unit of a larger building, but in other cases the problem affected public hallways in buildings with multiple dwelling units. When a property owner with multiple properties had multiple violations, or when there might be public interest in a location that had been affected, we named those owners.

What we found [Continue reading 'Random Facts from Open Data: Itch Zones'](#)»

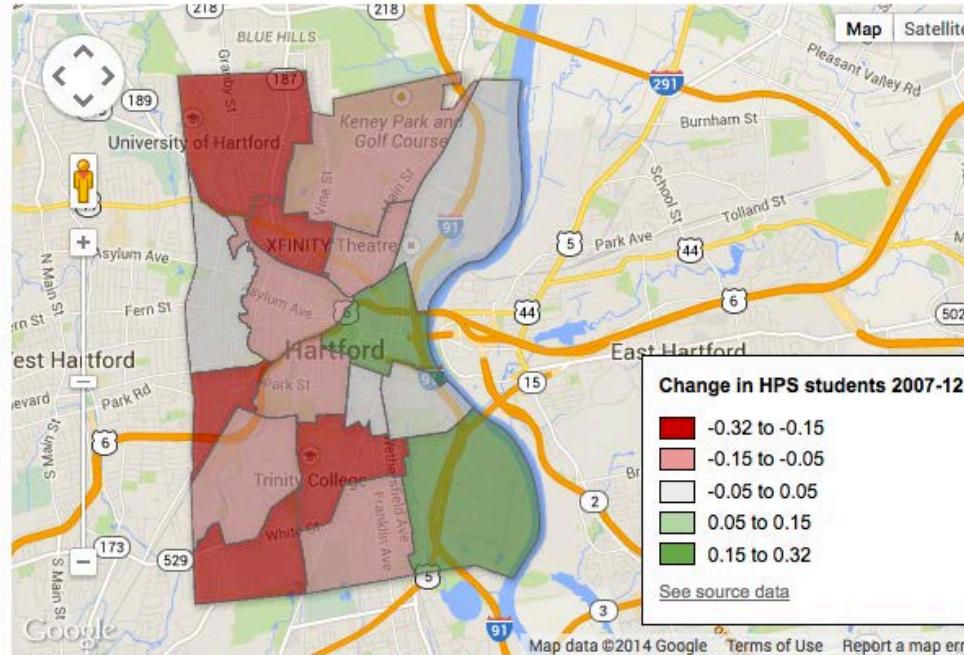
blight, Hartford, housing, neighborhoods

## Percent Change in HPS students by Neighborhood, 2007-12

City of Hartford - Edited on July 30, 2014

Neighborhood	HPS student count 2007	HPS student count 2012	Percent change	description
Asylum Hill	1381	1209	-12%	<html xmlns:fo="http://www.w3.org/1999/XSL/Format" xmlns:msxsl="urn:schemas-microsoft-com:xslt"> <head> <0px 0px;overflow:auto;background:#FFFFFF;> <table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>HILL</td> </tr> <tr> <td><table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>MAPNUM</td> <td>7</td> </tr> <tr> <td>NAME</td> <td>ASYLUM HILL</td> </tr> <tr> <td>PERCENT</td> <td>-12%</td> </tr> </table></td> </tr> <tr> <td>BARRY SQUARE</td> </tr>
Barry Square	2766	2331	-16%	<html xmlns:fo="http://www.w3.org/1999/XSL/Format" xmlns:msxsl="urn:schemas-microsoft-com:xslt"> <head> <0px 0px;overflow:auto;background:#FFFFFF;> <table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>SQUARE</td> </tr> <tr> <td><table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>MAPNUM</td> <td>15</td> </tr> <tr> <td>NAME</td> <td>BARRY SQUARE</td> </tr> <tr> <td>PERCENT</td> <td>-16%</td> </tr> </table></td> </tr>
Behind The Rocks	1794	1578	-12%	<html xmlns:fo="http://www.w3.org/1999/XSL/Format" xmlns:msxsl="urn:schemas-microsoft-com:xslt"> <head> <0px 0px;overflow:auto;background:#FFFFFF;> <table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>ROCKS</td> </tr> <tr> <td><table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>MAPNUM</td> <td>13</td> </tr> <tr> <td>NAME</td> <td>BEHIND THE ROCKS</td> </tr> <tr> <td>PERCENT</td> <td>-12%</td> </tr> </table></td> </tr>
Blue Hills	1897	1289	-32%	<html xmlns:fo="http://www.w3.org/1999/XSL/Format" xmlns:msxsl="urn:schemas-microsoft-com:xslt"> <head> <0px 0px;overflow:auto;background:#FFFFFF;> <table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>HILLS</td> </tr> <tr> <td><table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>MAPNUM</td> <td>1</td> </tr> <tr> <td>NAME</td> <td>BLUE HILLS</td> </tr> <tr> <td>PERCENT</td> <td>-32%</td> </tr> </table></td> </tr>
Clay-Arsenal	1330	1162	-13%	<html xmlns:fo="http://www.w3.org/1999/XSL/Format" xmlns:msxsl="urn:schemas-microsoft-com:xslt"> <head> <0px 0px;overflow:auto;background:#FFFFFF;> <table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>ARSENAL</td> </tr> <tr> <td><table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>MAPNUM</td> <td>6</td> </tr> <tr> <td>NAME</td> <td>CLAY-ARSENAL</td> </tr> <tr> <td>PERCENT</td> <td>-13%</td> </tr> </table></td> </tr>
Downtown	111	131	18%	<html xmlns:fo="http://www.w3.org/1999/XSL/Format" xmlns:msxsl="urn:schemas-microsoft-com:xslt"> <head> <0px 0px;overflow:auto;background:#FFFFFF;> <table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>DOWNTOWN</td> </tr> <tr> <td><table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>MAPNUM</td> <td>8</td> </tr> <tr> <td>NAME</td> <td>DOWNTOWN</td> </tr> <tr> <td>PERCENT</td> <td>18%</td> </tr> </table></td> </tr>
Frog Hollow	1949	1723	-12%	<html xmlns:fo="http://www.w3.org/1999/XSL/Format" xmlns:msxsl="urn:schemas-microsoft-com:xslt"> <head> <0px 0px;overflow:auto;background:#FFFFFF;> <table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>HOLLOW</td> </tr> <tr> <td><table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>MAPNUM</td> <td>9</td> </tr> <tr> <td>NAME</td> <td>FROG HOLLOW</td> </tr> <tr> <td>PERCENT</td> <td>-12%</td> </tr> </table></td> </tr>
North Meadows	1	1	0%	<html xmlns:fo="http://www.w3.org/1999/XSL/Format" xmlns:msxsl="urn:schemas-microsoft-com:xslt"> <head> <0px 0px;overflow:auto;background:#FFFFFF;> <table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>MEADOWS</td> </tr> <tr> <td><table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>MAPNUM</td> <td>3</td> </tr> <tr> <td>NAME</td> <td>NORTH MEADOWS</td> </tr> <tr> <td>PERCENT</td> <td>0%</td> </tr> </table></td> </tr>
Northeast	2155	1859	-14%	<html xmlns:fo="http://www.w3.org/1999/XSL/Format" xmlns:msxsl="urn:schemas-microsoft-com:xslt"> <head> <0px 0px;overflow:auto;background:#FFFFFF;> <table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>NORTHEAST</td> </tr> <tr> <td><table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>MAPNUM</td> <td>2</td> </tr> <tr> <td>NAME</td> <td>NORTHEAST</td> </tr> <tr> <td>PERCENT</td> <td>-14%</td> </tr> </table></td> </tr>
Parkville	1146	941	-18%	<html xmlns:fo="http://www.w3.org/1999/XSL/Format" xmlns:msxsl="urn:schemas-microsoft-com:xslt"> <head> <0px 0px;overflow:auto;background:#FFFFFF;> <table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>PARKVILLE</td> </tr> <tr> <td><table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>MAPNUM</td> <td>10</td> </tr> <tr> <td>NAME</td> <td>PARKVILLE</td> </tr> <tr> <td>PERCENT</td> <td>-18%</td> </tr> </table></td> </tr>
Sheldon-Charter Oak	382	364	-5%	<html xmlns:fo="http://www.w3.org/1999/XSL/Format" xmlns:msxsl="urn:schemas-microsoft-com:xslt"> <head> <0px 0px;overflow:auto;background:#FFFFFF;> <table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>CHARTER OAK</td> </tr> <tr> <td><table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>MAPNUM</td> <td>11</td> </tr> <tr> <td>NAME</td> <td>SHELDON-CHARTER OAK</td> </tr> <tr> <td>PERCENT</td> <td>-5%</td> </tr> </table></td> </tr>
South End	2395	2052	-14%	<html xmlns:fo="http://www.w3.org/1999/XSL/Format" xmlns:msxsl="urn:schemas-microsoft-com:xslt"> <head> <0px 0px;overflow:auto;background:#FFFFFF;> <table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>END</td> </tr> <tr> <td><table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>MAPNUM</td> <td>16</td> </tr> <tr> <td>NAME</td> <td>SOUTH END</td> </tr> <tr> <td>PERCENT</td> <td>-14%</td> </tr> </table></td> </tr>
South Green	505	516	2%	<html xmlns:fo="http://www.w3.org/1999/XSL/Format" xmlns:msxsl="urn:schemas-microsoft-com:xslt"> <head> <0px 0px;overflow:auto;background:#FFFFFF;> <table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>GREEN</td> </tr> <tr> <td><table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>MAPNUM</td> <td>12</td> </tr> <tr> <td>NAME</td> <td>SOUTH GREEN</td> </tr> <tr> <td>PERCENT</td> <td>2%</td> </tr> </table></td> </tr>
South Main	20	20	0%	<html xmlns:fo="http://www.w3.org/1999/XSL/Format" xmlns:msxsl="urn:schemas-microsoft-com:xslt"> <head> <0px 0px;overflow:auto;background:#FFFFFF;> <table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>MAIN</td> </tr> <tr> <td><table style="font-family:Arial,Verdana,Times;font-size:12px;text-align:left;width:100%;border-collapse:collapse;"> <tr> <td>MAPNUM</td> <td>14</td> </tr> <tr> <td>NAME</td> <td>SOUTH MEADOWS</td> </tr> <tr> <td>PERCENT</td> <td>0%</td> </tr> </table></td> </tr>

## Explore Hartford Data: HPS student change by neighborhood, 2007-12



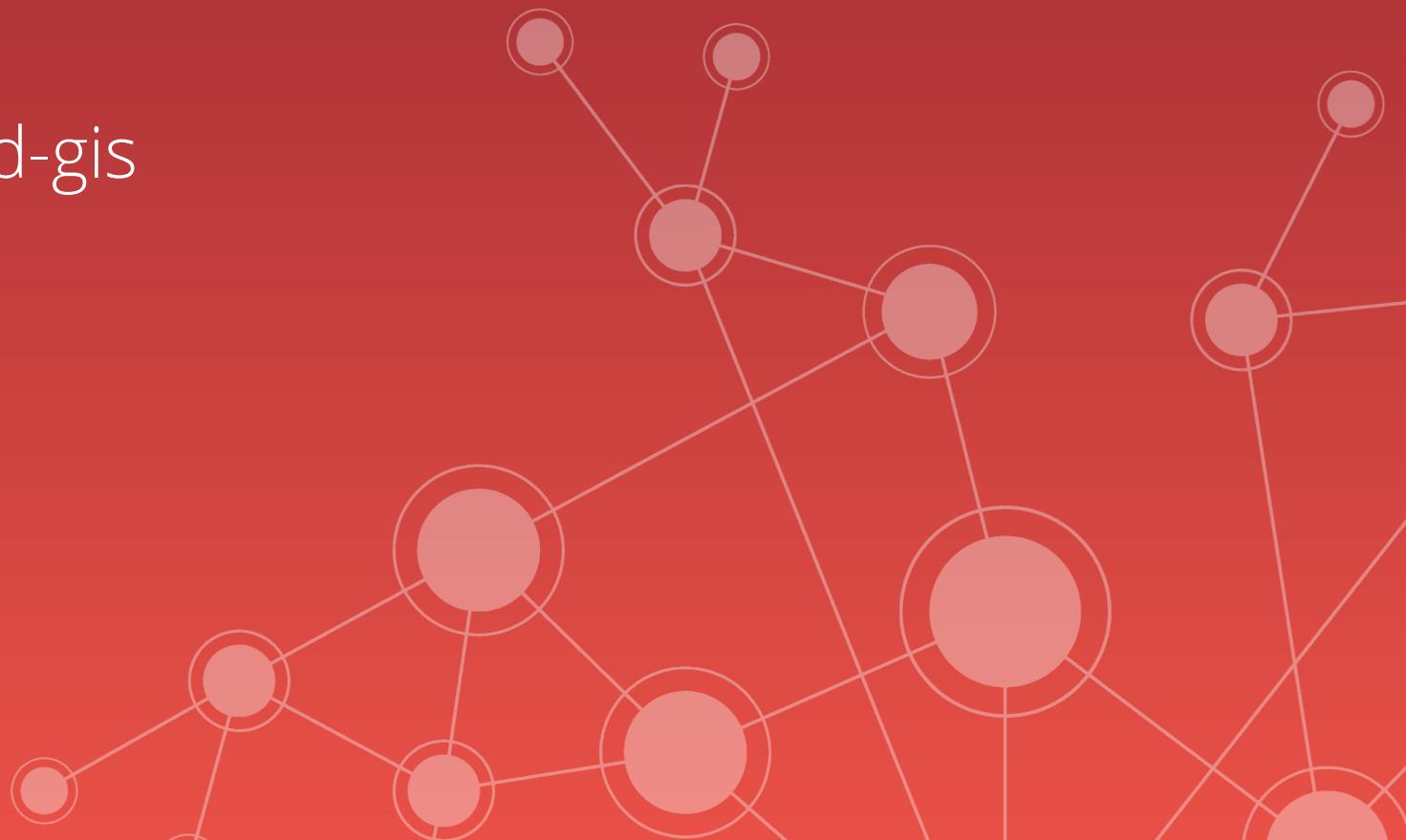
As part of my data visualization work with Achieve Hartford this summer, I explored ways to make educational data more accessible and useful to the public. The Hartford Public Schools (HPS) compiles information on thousands of individual students, and while raw data files cannot be directly released due to privacy laws, the City's brand-new Hartford Data initiative created a better way to request and work with this type of data in public formats. Their staff encouraged me to submit a data request on their new website (<http://data.hartford.gov>) to aggregate student-level data into larger units, which can be publicly shared without violating confidentiality, because batches of students are grouped together without individual identities. I [submitted my request](#) for HPS student data (over 20,000 files) to be aggregated into the 17 city neighborhood units. Back in 2008, HPS stopped assigning students to schools by neighborhood residence, and began an "all-choice" initiative where students can apply to attend any HPS district school (or the growing number of interdistrict magnet and charter schools), regardless of residence. Students do not necessarily attend what we used to call their "neighborhood school," there has been no easy way to obtain neighborhood-based data on HPS students. But this is changing.

bflodine@hartford.gov

hartford.gov/mhis/hartford-gis

data.hartford.gov

Twitter: @HartfordData



# Panelist: Jordan Breckenridge

Sr Product Manager for Google Maps Gallery

Gabe joined Google in 2008 as a Program Manager helping build the Google Ground Truth team responsible for developing and maintaining Google's base map datasets for Google Maps and Google Maps Mobile.

His team built base maps for 40 countries. He helped design and refine Google's report a problem framework and operations. His latest project is focused on going beyond the base map and unlocking the rest of the world's geospatial data through the power of Google Maps Engine and Google Maps Gallery.

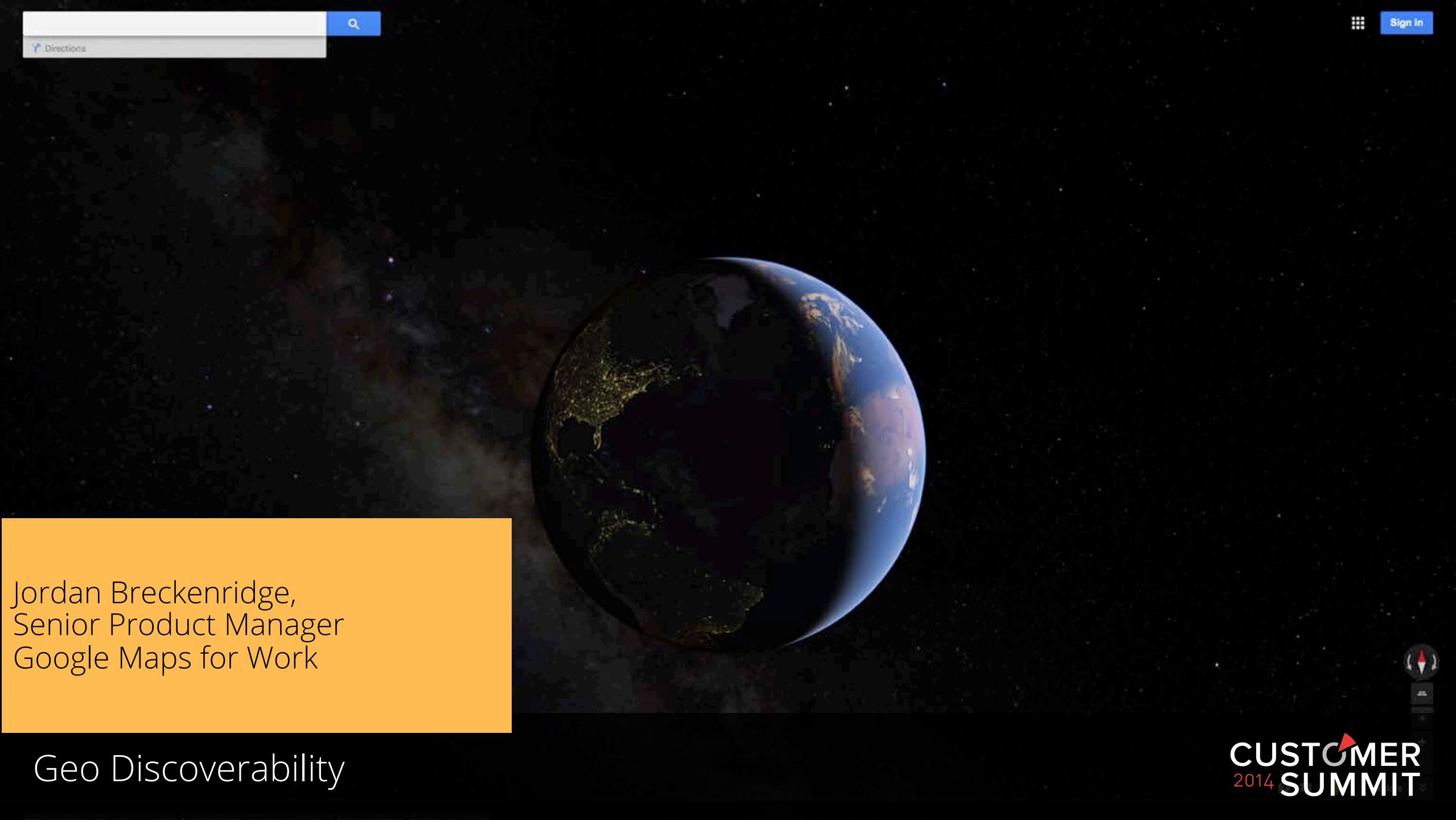
He's currently focused on developing partnerships and scaling tools to support branded data distribution, enabling authoritative providers to reach consumers and customers at scale through Google.





Sign in

Directions

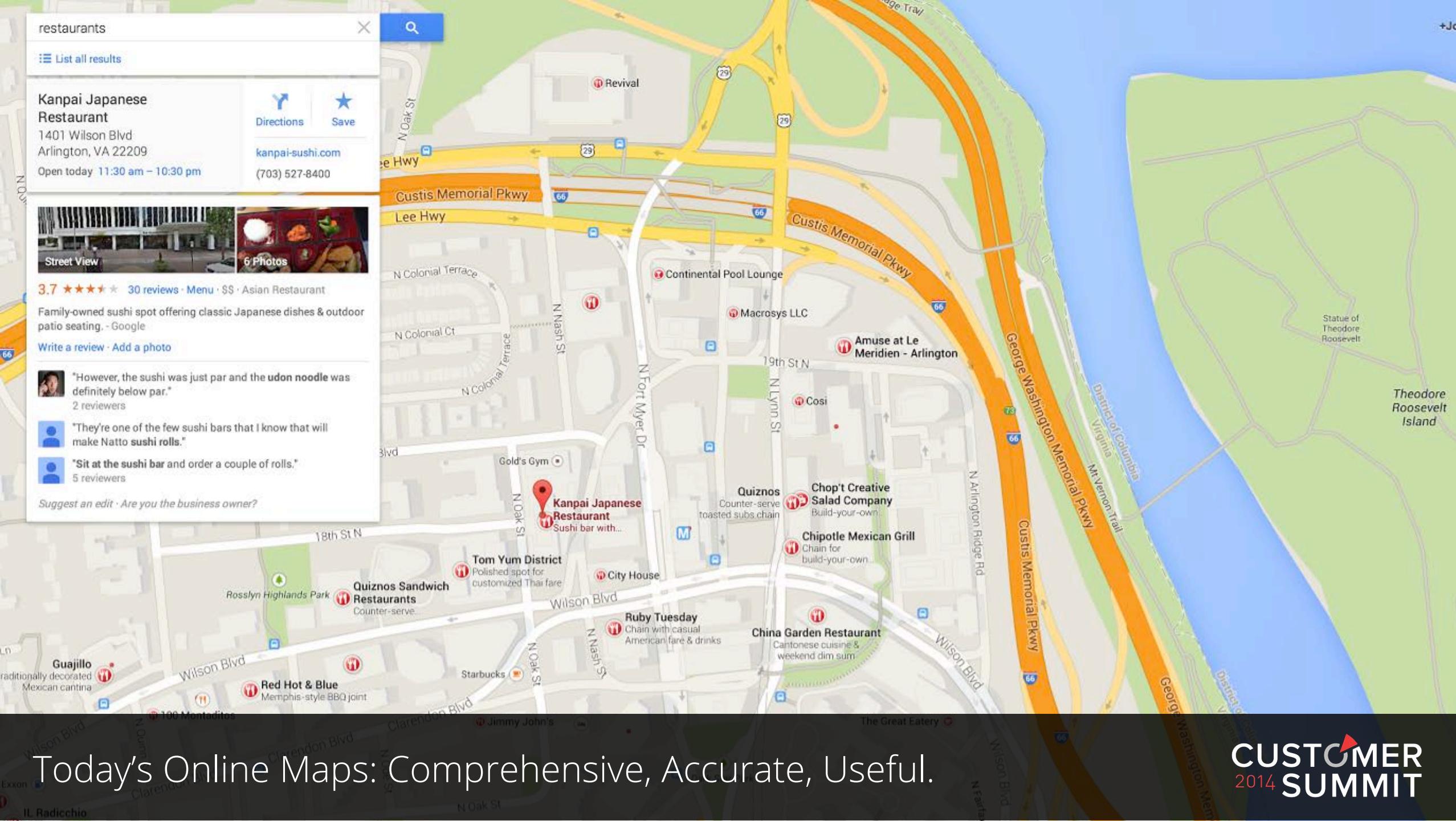


Jordan Breckenridge,  
Senior Product Manager  
Google Maps for Work

Geo Discoverability



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Today's Online Maps: Comprehensive, Accurate, Useful.

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# The Arctic Refuge Coastal Plain

Birth Place & Nursery Grounds of the  
Porcupine Caribou Herd



## Key to Symbols:

- Arctic National Wildlife Refuge
- Northern Yukon Parks
- 1002 Area
- Gwich'in Nation
- Oil Field Infrastructure
- Trans-Alaska Pipeline
- Exploratory Well

## Porcupine Caribou Herd

- Core Calving Areas (areas of concentrated calving 1983 –1996)
- Extent of Calving 1983 –1996
- Post-calving Nursery Area (cows and calves)
- Spring Migration Routes
- Herd Range

Sources: Caribou calving Data from the Alaska Science Center; Movement corridors modified from U.S. Fish & Wildlife Service; Herd range and post-calving movement from International Porcupine Caribou Management Board.



Caribou Migration Routes" Aren't Easily Discovered

Weather • Municipal Zoning • Traffic • Soil Quality • Demographics • Natural Hazards • Utility Hookups • Storm History • Postal Codes • Campsite Availability • Time Zones • Fire Protection Class • Historic Cartography • Unemployment Rates • Hazmat Routes • Protected Areas • Terrain • Political Boundaries • Crime • School Districts • Tolls •

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The world's [geospatial] information 

Land Use • Traffic Incidents • Energy Costs • Postal Codes • Network Outages • Building Heights • Real Estate • Environmental Qualities • Parking Availability • Resort Facilities • Eco Tours • Endangered Species • Mineral Deposits •

Deforestation • Electric Vehicle Charging Stations • Neither Are Many Other Categories  Scenic Routes • Non-Native Species • Polling Stations

About 127,000,000 results (0.25 seconds)

**Crime & Courts - Los Angeles Times**[www.latimes.com/local/crime/](http://www.latimes.com/local/crime/) ▾ Los Angeles Times ▾

Crime and trial coverage for Southern California and beyond. ... The Los Angeles County district attorney's office has decided not to oppose a request to throw ...  
 Crime L.A. - Report raises doubts about ... - Man sentenced to 26 years to ...

**L.A. Crime Maps - Mapping L.A. - Los Angeles Times**[maps.latimes.com/crime/](http://maps.latimes.com/crime/) ▾ Los Angeles Times ▾

The Times' database of Los Angeles County crime reports. Crime L.A. delivers the power of neighborhood crime analysis to your computer.  
 Violent Crime Ranking - Koreatown - Downtown - Chesterfield Square

**Crime in Los Angeles - Wikipedia, the free encyclopedia**[en.wikipedia.org/wiki/Crime\\_in\\_Los\\_Angeles](http://en.wikipedia.org/wiki/Crime_in_Los_Angeles) ▾ Wikipedia ▾

Crime in the city of Los Angeles has been a major problem in Southern California and a concern for Angelenos since the early 20th century. However in the ...  
 Watts Riots - The crack epidemic (1984-1990) - 1992 Riots

**Wilshire Community Police Station**[www.lapdonline.org](http://www.lapdonline.org)

3.0 ★★★★☆ 15 Google reviews

(A) 4861 Venice Blvd  
Los Angeles, CA

(213) 473-0476

**UCLA Police Department**[map.ais.ucla.edu](http://map.ais.ucla.edu)

2.5 ★★★★☆ 5 Google reviews · Google+ page

(B) 601 Westwood Plaza  
Los Angeles, CA

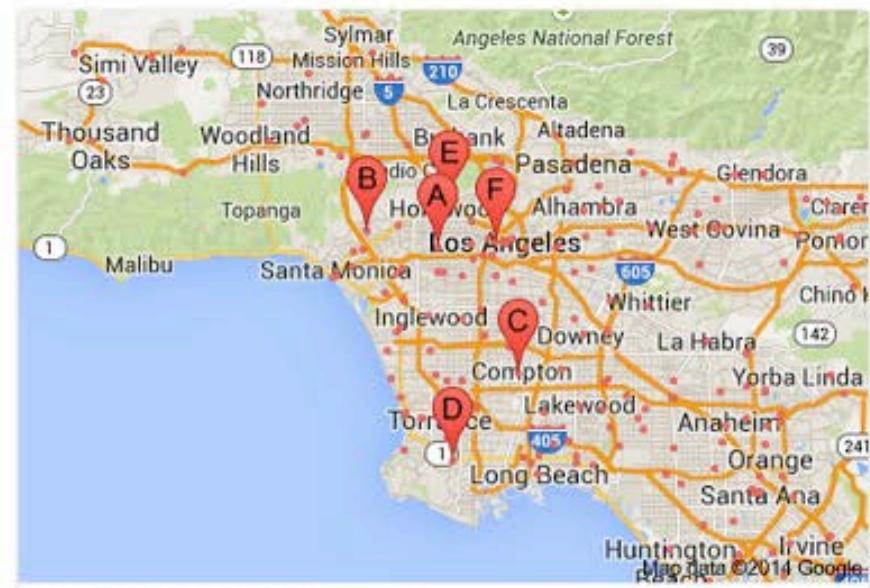
(310) 825-1491

**Compton Sheriff's Station**[sheriff.lacounty.gov](http://sheriff.lacounty.gov)(C) 301 S Willowbrook Ave  
Compton, CA

(310) 605-6500

**"Los Angeles Crime"**

Los Angeles County Sheriff Depart...

(D) 26123 Narbonne Avenue  
Lomita, CA

Map for los angeles crime

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### [Back to Development Regulations Page - City of Houston](#)

[www.houstontx.gov](#) › Planning › DevelopRegs › Houston

The city of **Houston** does not have **zoning** but development is governed by codes ... and for compliance with Chapter 42, the City's land development **ordinance**.

### [Deed Restrictions FAQs - City of Houston](#)

[www.houstontx.gov](#) › Legal › Houston

Doesn't the City of Houston have **zoning**? Answer #1: The City of **Houston** is not **zoned**. Therefore, the State Legislature and City Council have authorized the ...

### [Images for houston zoning map](#)

[Report images](#)

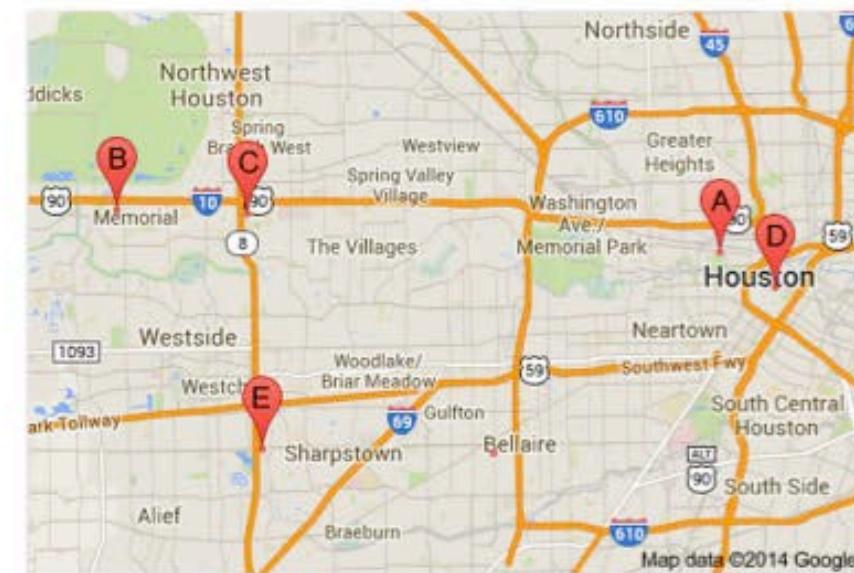


[More images for houston zoning map](#)

### [How Houston gets along without \*\*zoning\*\* - BusinessWeek](#)

[www.businessweek.com](#) › ... › how\_houston\_gets\_... › Bloomberg Businessweek

Oct 1, 2007 - One of the things that really makes **Houston** different is its absence of a **zoning code**. That absence strikes many people in the rest of the ...



[Map for houston zoning map](#)

Avenue Community Development Co...

"Houston Zoning Map"

Energy Corridor District

2505 Washington Ave  
Houston, TX  
(713) 864-8099

14701 St Marys Ln #290

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### [Yosemite Fire Information and Updates - National Park ...](#)

[www.nps.gov/yose/blogs/fireinfo.htm](http://www.nps.gov/yose/blogs/fireinfo.htm) ▾ U.S. National Park Service ▾  
October 07, 2014 Posted by: Yosemite Fire Information. The Dog Rock Fire .... They are mapping, taking weather and monitoring the fire behavior. The fire is ...

### [Current Air Quality and Smoke Monitoring - Yosemite ...](#)

[www.nps.gov/yose/.../aqmonitoring.htm](http://www.nps.gov/yose/.../aqmonitoring.htm) ▾ U.S. National Park Service ▾  
El Portal Road (continuation of Hwy 140 into Yosemite) Closed Due to Fire .... Download fire maps and fire perimeters from GeoMAC's (Geospatial Multi-Agency ...

### [Meadow Fire Update and Safety Closures - Yosemite ...](#)

[www.nps.gov/.../Meadow-Fire-Update-and-Sa...](http://www.nps.gov/.../Meadow-Fire-Update-and-Sa...) ▾ U.S. National Park Service ▾  
Sep 9, 2014 - In order to maintain the safety of park visitors and allow fire ... Map showing fire extent from Mount Starr King east to Bunnell Point, north to just.

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### [Yosemite National Park](#)

[www.nps.gov/yose/index.htm](http://www.nps.gov/yose/index.htm)  
12 reviews · Write a review

"Yosemite Fire Map"

Yosemite Village, CA 95389  
(209) 372-0200



## [Yosemite National Park](#)

[Directions](#) [Write a review](#)

**Address:** Yosemite Village, CA 95389

**Phone:** (209) 372-0200

### Reviews

**4.7** 622 Google reviews

Iconic national park offers an array of options such as hiking among redwoods & river rafting. - Google



"The half dome from Glacier point is...is...amazing." 9 reviewers



"A single day spent in Mariposa grove and driving up to Glacier Point." 2 reviewers

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## New York City

New York is the most populous city in the United States and the center of the New York Metropolitan Area, one of the most populous urban agglomerations in the world.

Borough	Neighborhood	Zip Codes
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	Kingsbridge Heights / Moshulu	10456, 10467, 10468
	Melrose / East Tremont	10456, 10460
	Mott Haven / Hunts Point	10451, 10464, 10465, 10459, 10474
	Pelham Parkway	10469
	Rivardale / Kingsbridge	10463, 10471
	Soundview / Parkchester	10462, 10472, 10473
	Throgs Neck / Co-op City	10461, 10464, 10465, 10475
	University Heights / Fordham	10453, 10457
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Brooklyn	Bay Ridge	11209, 11226, 11421
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New York ZIP Codes - Map, timezone, and shipping comparisons

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## "Population"



4 of 50 map images

## "Yosemite"



1 of 50 map images

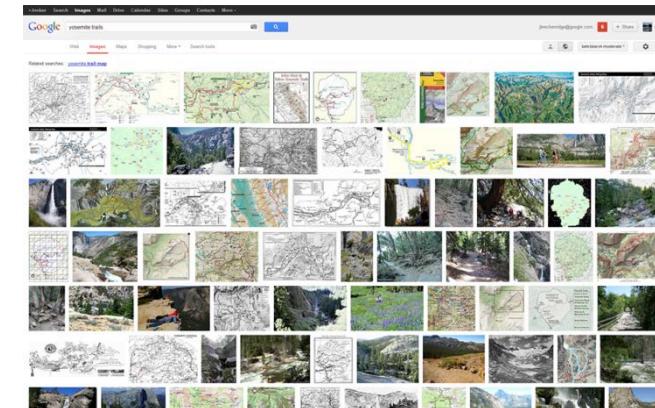
VS.

## "Population Density"



50 of 50 map images

## "Yosemite Trails"



31 of 50 map images

Heuristics to Classify Queries

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## Black Forest Fire

### **Shelter & Other Services**

-  Palmer Ridge High School
  -  El Paso County Fairgrounds, C...
  -  UCCS

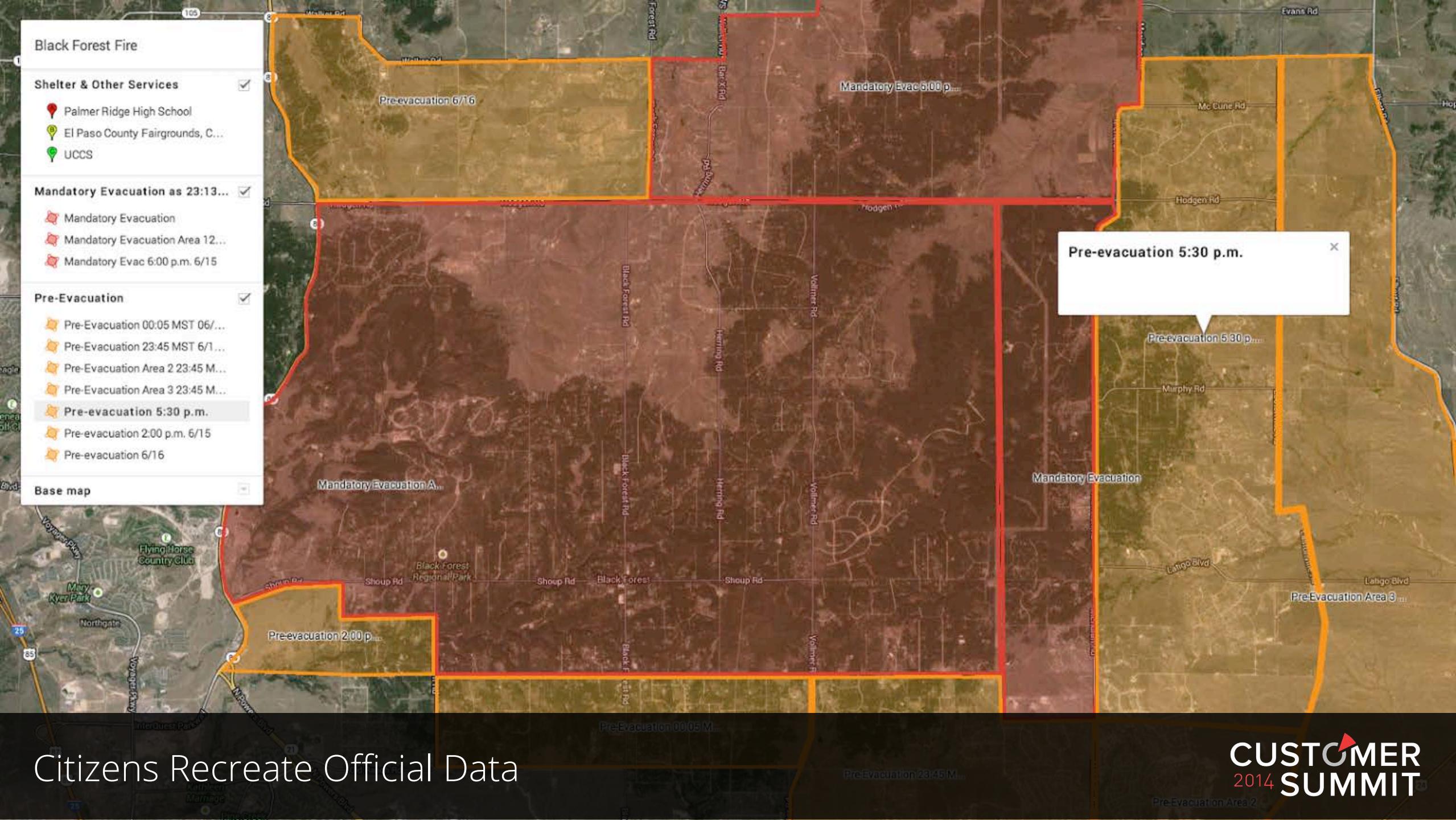
Mandatory Evacuation as 23:13...

- Mandatory Evacuation
  - Mandatory Evacuation Area 12...
  - Mandatory Evac 6:00 p.m. 6/15

### Pre-Evacuation

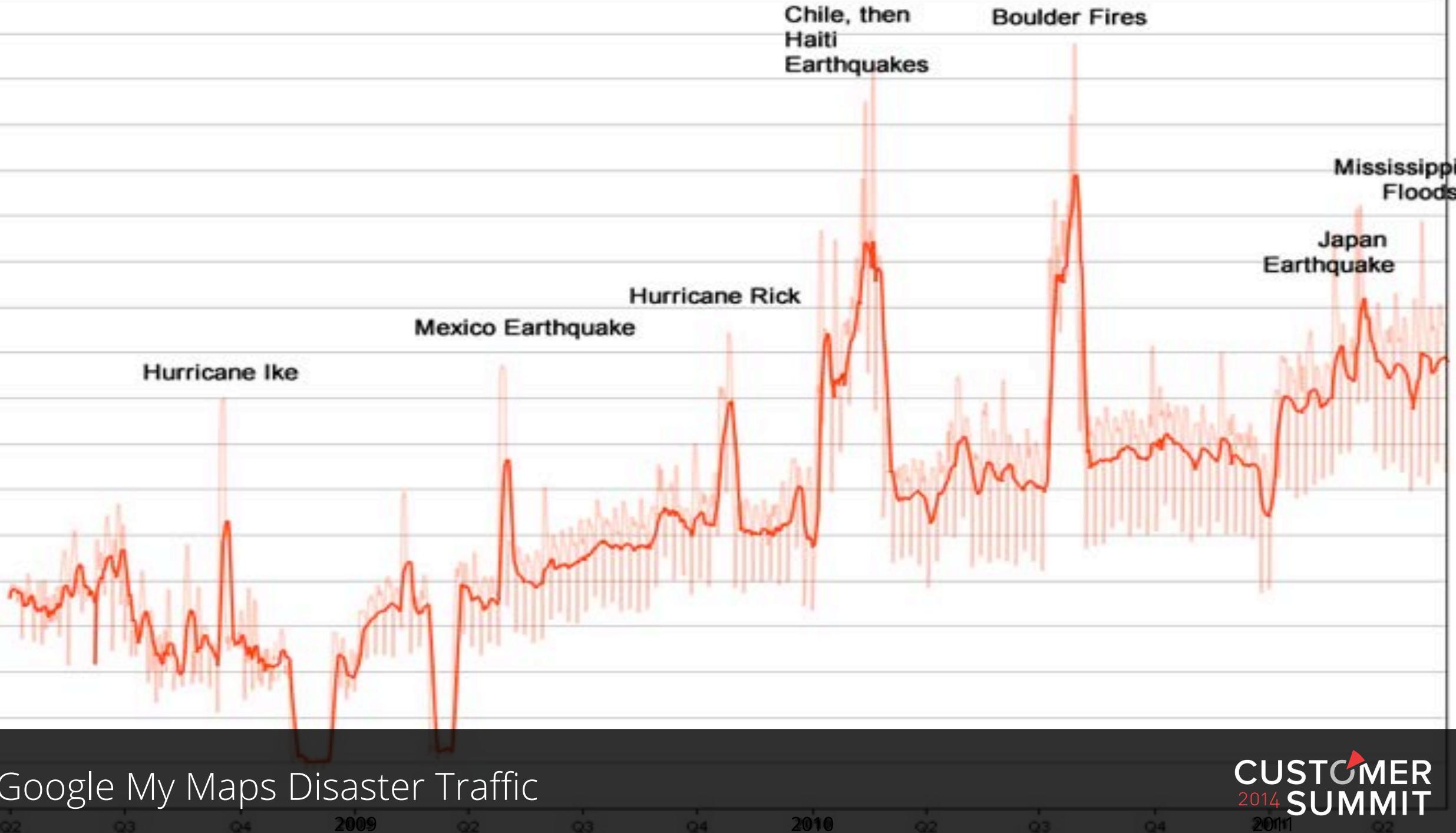
- Pre-Evacuation 00:05 MST 06/...
  - Pre-Evacuation 23:45 MST 6/1...
  - Pre-Evacuation Area 2 23:45 M...
  - Pre-Evacuation Area 3 23:45 M...
  - Pre-evacuation 5:30 p.m.**
  - Pre-evacuation 2:00 p.m. 6/15
  - Pre-evacuation 6/16

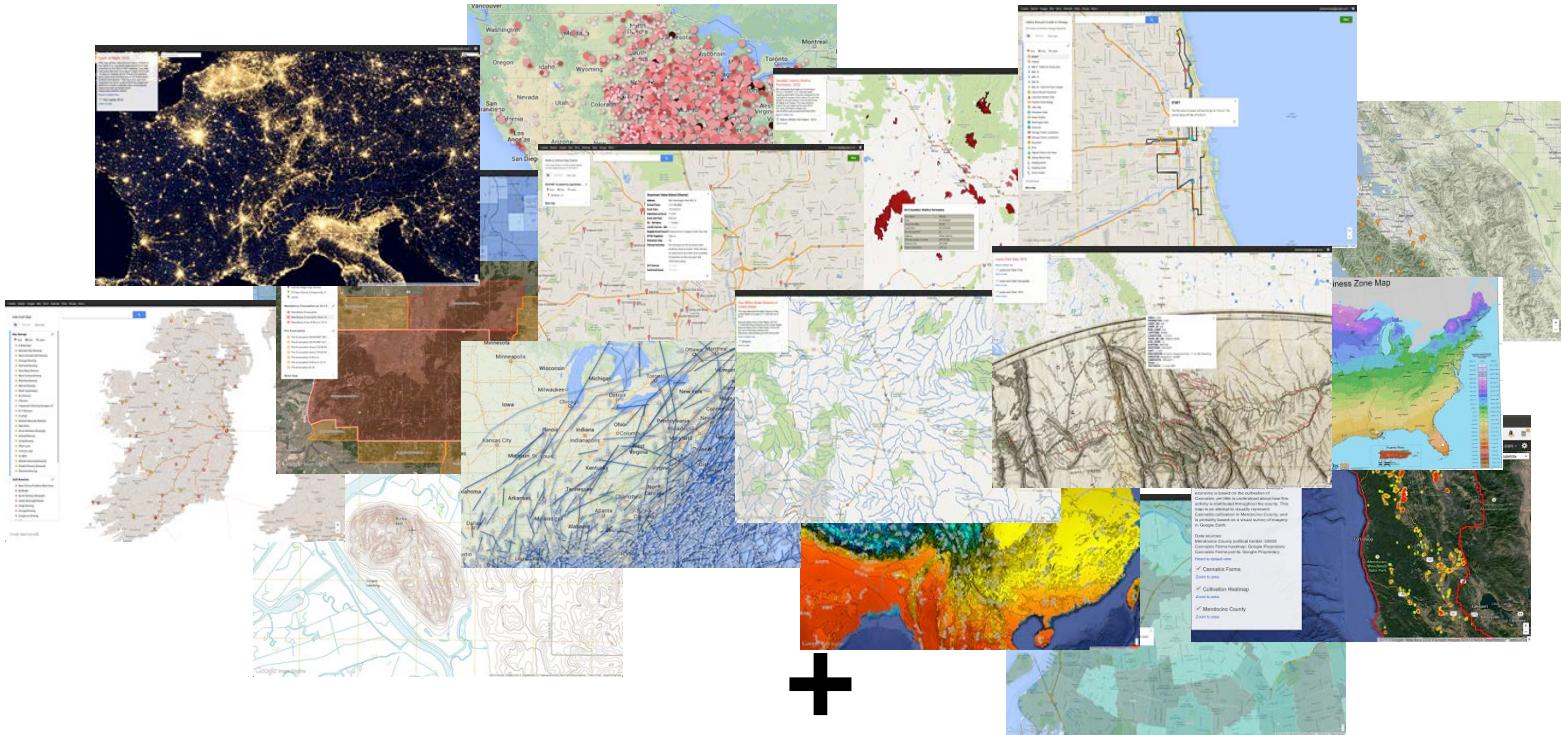
### Base map



# Citizens Recreate Official Data

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The World's [Geospatial] Information

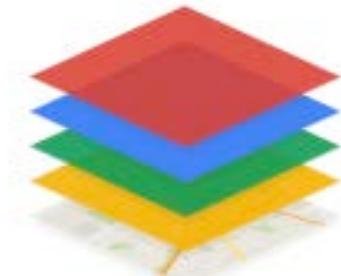
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 Lewis and Clark 1814  
 Zoom to area

Lewis Clark Map 1814  
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The map combines three layers: the 1814 published map of the Lewis and Clark expedition which was based on William Clark's manuscript map and engraved by Samuel Lewis; a vector layer in red showing the route of the expedition going out and returning in the period 1803 to 1806; and a vector layer in green showing the 591 separate campsites of the expedition along the route.

Attribution Lewis and Clark map layer – David Rumsey Map Collection; vector layer showing expedition route – David Rumsey Map Collection; vector layer showing expedition campsites along the route – Robert Bergantino - [www.lewis-clark.org/article.asp?ArticleID=388](http://www.lewis-clark.org/article.asp?ArticleID=388)

history historic heirloom united\_states\_of\_america trail expedition early\_1800 manuscript-map culture campsites

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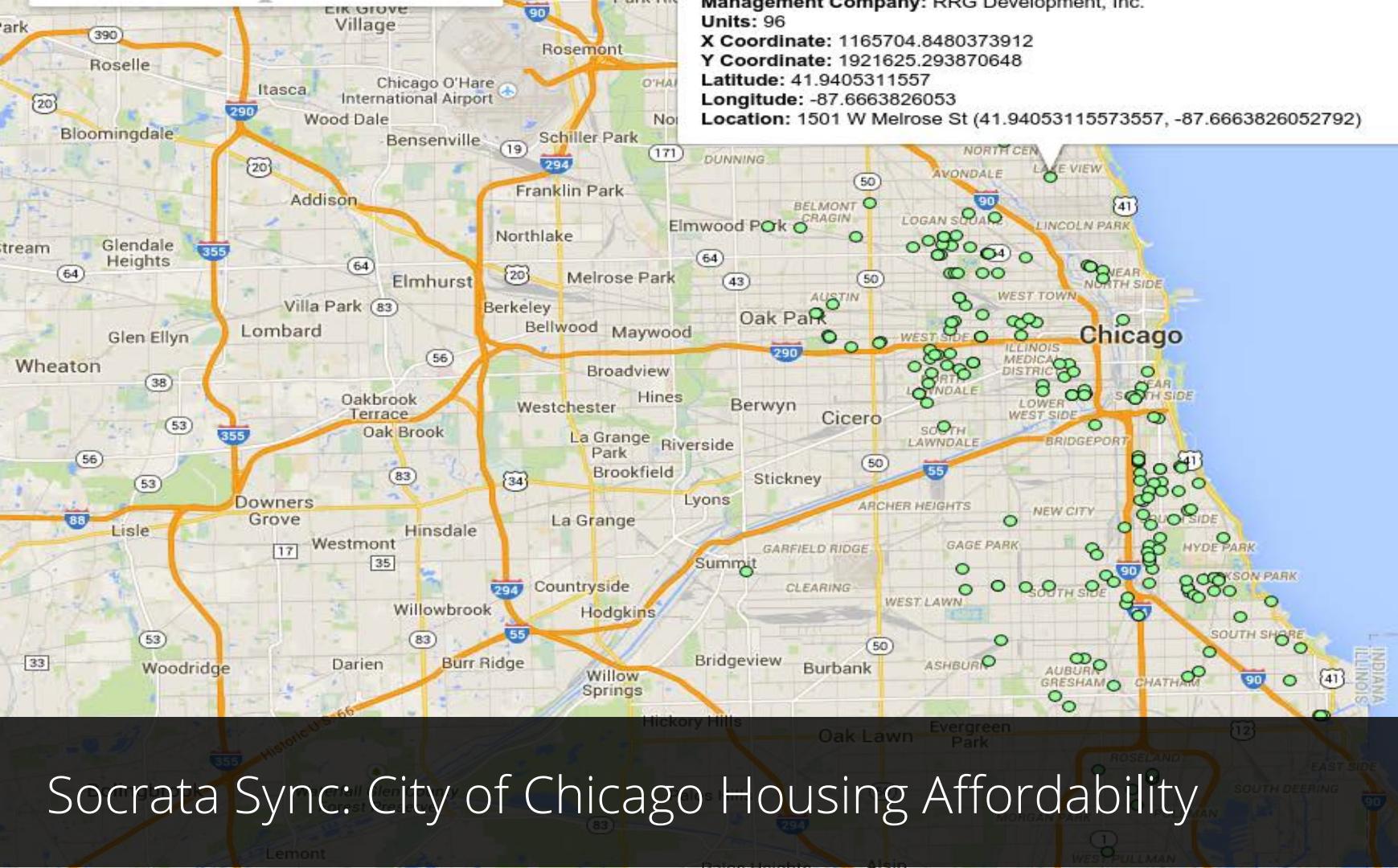
## Affordable Rental Housing Developments

### City of Chicago

The affordable rental housing developments listed below are supported by the City of



Affordable Rental Housing Devel...

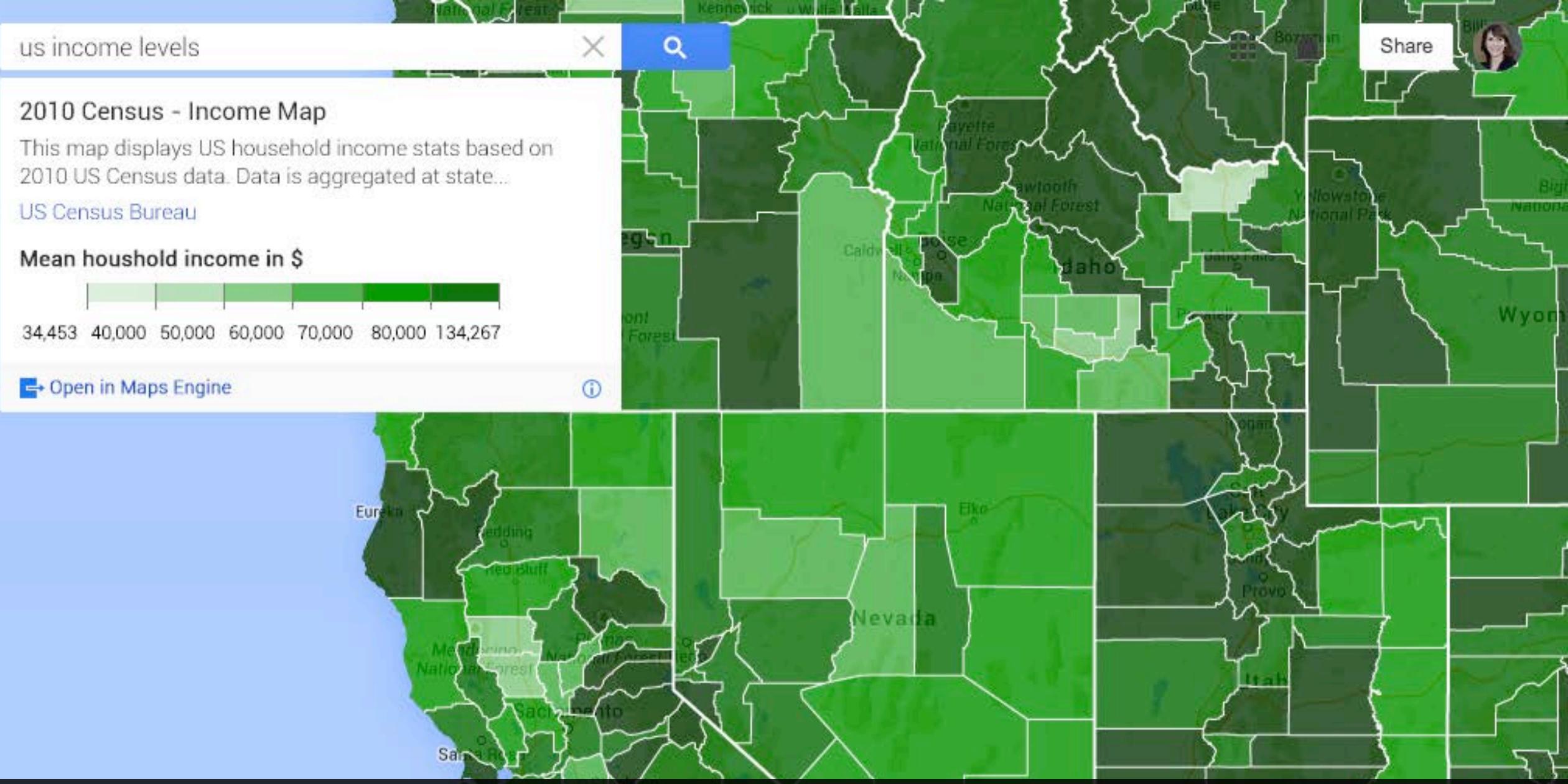




Experiment: US School Ratings – GreatSchools.org

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us income levels



# Experiment: US Income Levels – US Census

[maps.google.com/gallery](http://maps.google.com/gallery)  
jbreckenridge@google.com





Thank You

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**Q & A**

