



DEPARTMENT OF  
INFORMATION TECHNOLOGY



# Meeting #7

9/3/2015

# COUNCIL ON OPEN DATA



DEPARTMENT OF  
INFORMATION TECHNOLOGY

## Welcome and Introductions

Luis Estrada,  
Deputy Secretary  
Department of Information Technology



- Esri ELA Update, Barney Krucoff, DoIT
- Joint Committee on Legislative Information Technology and Open Government, Barney Krucoff, DoIT
- Changes to the Public Information Act
  - Adam Snyder, OAG
- Changes to County GIS data distribution policies and effect of last year's change to GIS data sales law:
  - Bud Gudmundson, Washington County
  - Jim Cannistra, MNCPPC-Prince Georges
- **Data user stories**
  - Crime Data: Colin Drane, SpotCrime.com
  - Environmental Data: John Dawes, Chesapeake Commons
  - Health Data: Matthew Eierman, HDScores.com
  - Property Data: Ryan Smith, PhD Candidate JHU/himself
- Property data publication, Josh Exler, DoIT
- Update on Data Freshness Dashboard, Josh Exler, DoIT

- Handshake deal hung on terms and conditions, DoIT went for option year.
- The Board of Public Works has differed exercising the option year twice.
- To keep contract from expiring, DoIT acted within its authority to extend the contract until September 30<sup>th</sup>.
- BPW will consider the option again on September 16. A high level Esri delegation will be present.
- If BPW approves option, contract will expire September 1, 2016.
- If BPW rejects the option, DoIT will attempt to enter into a one year contract for ArcGIS Online only. Desktop and server licenses are perpetual.
- Long term plan is TBD, but agencies will be consulted.

# Joint Committee on Legislative Information Technology and Open Government

- A new General Assembly committee
- September 8, Briefing from the Council on Open Data is the only witness at their first meeting.
- [Membership](#)
- Barney will cover:
  - Background and history of the Council
  - 2014 Annual Report recommendations
  - Other? (discus at conclusion of today's meeting)



# Changes to the Public Information Act

Adam Snyder

Office of the Maryland Attorney General

# Changes to County GIS data distribution

Bud Gudmundson, Washington County

Jim Cannistra, MNCPPC-Prince Georges

# Washington County

## Maryland



*Department of Information Technology*  
**GIS Office**

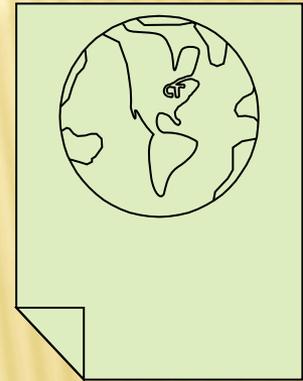
# WASHINGTON COUNTY OPEN GIS DATA



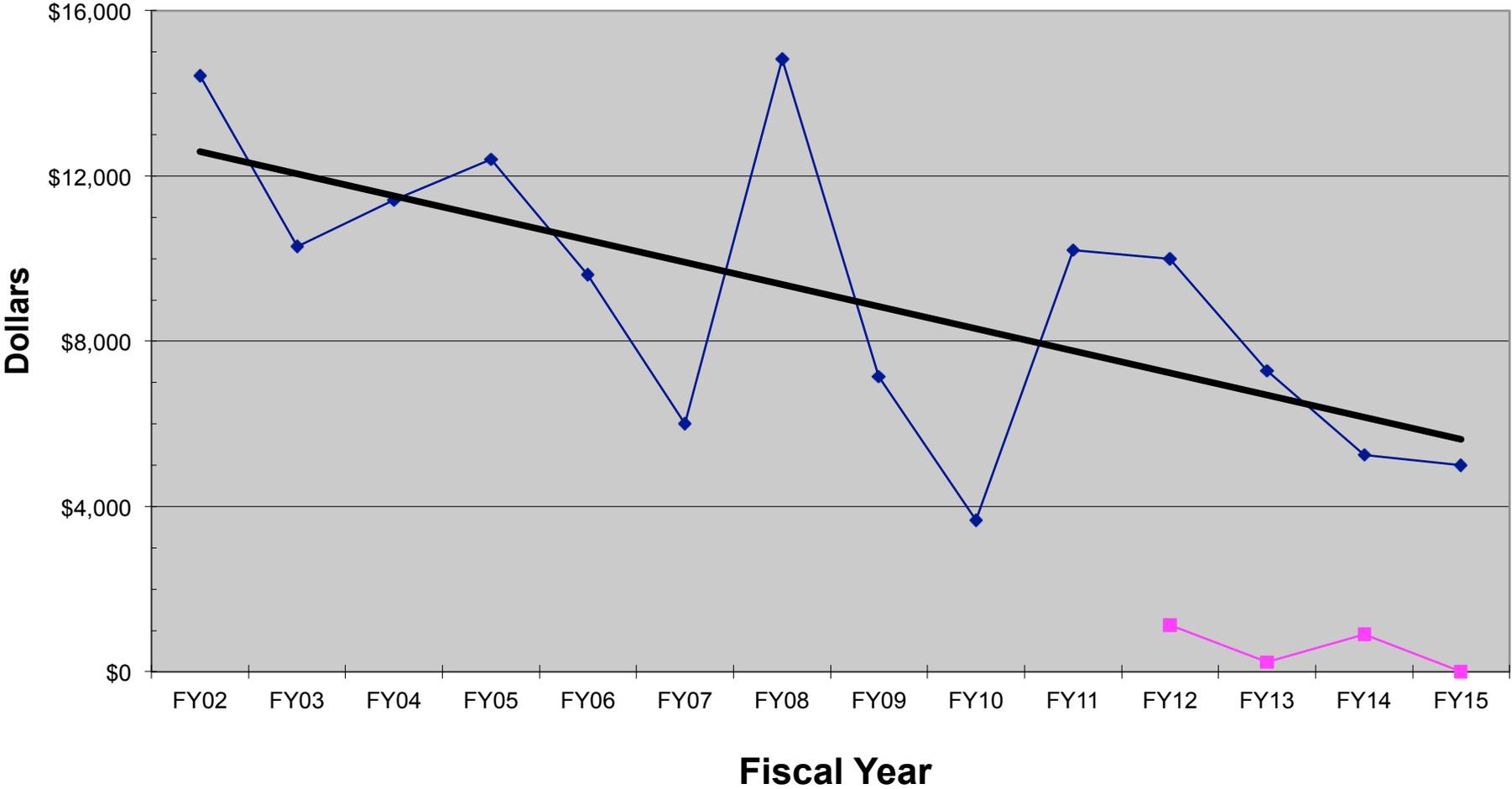
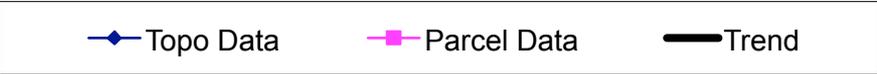
# PROCESS

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- ✘ GIS Data Distribution Policy 2001, 2007
- ✘ GIS Office authorized to set price
- ✘ Data Licenses trending downward
- ✘ Topo data getting old (2005)
- ✘ Industry Trend
- ✘ State Law
- ✘ Proposed as economic development incentive
- ✘ Approved by County Administrator
- ✘ Engineers/Developers support



# GIS Data Sales



# Washington County

## Maryland



### Department of Information Technology

## GIS Office

[GIS Home](#)[Maps](#)[Get Data](#)[Contact Us](#)[About GIS](#)

### Available Data

**\*\*NEW!\*\***

EFFECTIVE JULY 1, 2015 THE GIS OFFICE HAS ELIMINATED ALL FEES FOR ACQUIRING LICENSED GIS DATA. A SIGNED LICENSE AGREEMENT IS STILL REQUIRED.

- [Browse Available Data](#)
- [Order Form](#)
- [License Agreement](#)
- [Tile Reference Maps](#)
  - [2011 Photo Index](#)
  - [2012 LiDAR Index](#)
  - [Topo/Photo Index 2005](#)
  - [Topo/Photo Index 2000](#)





## Spatial Data Products Order Form



INSTRUCTIONS: Send this order with the License Agreement executed by an authorized person with payment for the total amount to the address indicated. Make the payment to: [Washington County Treasurer](#). Allow 14 days for processing.

LICENSEE INFORMATION: \_\_\_\_\_ Date: \_\_\_\_\_

Organization Name: \_\_\_\_\_

Authorized Person: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Applicant Name (If different from authorized person) \_\_\_\_\_

Check products

Circle format requested

✓	PRODUCT	FORMAT	PRICE
	Parcels – whole county, including database	DWG or GDB	FREE
	*2012 LiDAR (whole county)	LAS	FREE
	2012 LiDAR by tile	LAS	FREE
	2012 DEM (whole county)	IMG	FREE
	*2014 Orthophoto, (whole county)	MrSID	FREE
	*Historical Orthophotos (2000, 2005, 2007, 2011)	MrSID/Various	FREE
	County-wide address attributed centerline	GDB	FREE
	2005 Planimetry-topography	DWG or GDB	FREE
	2000 Planimetry-topography	DWG	FREE
	Zoning	DWG or GDB	FREE
	County Compiled Land Use/Land Cover 2011	DWG or GDB	FREE
	Priority Funding Areas	DWG or GDB	FREE
	Enterprise Zones	DWG or GDB	FREE
	Rural Legacy Easements & Area Boundary	DWG or GDB	FREE
	Agricultural Preservation Districts	DWG or GDB	FREE
	Fire Stations and Districts	DWG or GDB	FREE
	'D' size plot OR GeoPDF of photo or topo (copyrighted)	Paper	\$8
	'E' size plot OR GeoPDF (copyrighted)	Paper	\$10

For ArcGIS and AutoCAD, please specify the version (9.3, 10, etc.) \_\_\_\_\_

\*LiDAR & Photo orders require that at least a 250gb hard drive be sent to us, due to their size.

✓	PRODUCT	FORMAT	PRICE
	Parcels – whole county, including database	DWG or GDB	FREE
	*2012 LiDAR (whole county)	LAS	FREE
	2012 LiDAR by tile	LAS	FREE
	2012 DEM (whole county)	IMG	FREE
	*2014 Orthophoto, (whole county)	MrSID	FREE
	*Historical Orthophotos (2000, 2005, 2007, 2011)	MrSID/Various	FREE
	County-wide address attributed centerline	GDB	FREE
	2005 Planimetry-topography	DWG or GDB	FREE
	2000 Planimetry-topography	DWG	FREE
	Zoning	DWG or GDB	FREE
	County Compiled Land Use/Land Cover 2011	DWG or GDB	FREE
	Priority Funding Areas	DWG or GDB	FREE
	Enterprise Zones	DWG or GDB	FREE
	Rural Legacy Easements & Area Boundary	DWG or GDB	FREE
	Agricultural Preservation Districts	DWG or GDB	FREE
	Fire Stations and Districts	DWG or GDB	FREE
	'D' size plot OR GeoPDF of photo or topo (copyrighted)	Paper	\$8
	'E' size plot OR GeoPDF (copyrighted)	Paper	\$10

# Prince George's County Planning GIS Open Data Initiative

IMD enterprise wide GIS - 200 layers

Since 1992 data available only through sales or data license agreement

- Approx. 200 lease agreements/year since 2008
- Approx. \$26,700 sales / year since 2010

July 1, 2015 implemented GIS Open Data Program

<http://www.pgplanning.org>



# GIS Open Data Components

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Over 200 datasets available at “no cost”

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Data available in multiple formats (GIS, CAD, Images)

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Data also available as map services

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Unrestricted use (with attribution)

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Custom products and data sets available for a fee

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PGAtlas will continue to be supported/enhanced

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<http://www.pgplanning.org/GISMappingTools.htm>



# Open Data Portal

**CADD file export (.dxf) - for planimetric and topographic datasets only**

**ESRI file Geodatabase (.gdb)**

IReadMe.html	File Size: 1 KB	Last Modified: 6/1/2015 8:26:45 AM
IReadMe.txt	File Size: 1 KB	Last Modified: 6/1/2015 8:25:41 AM
Advance_Land_Py.zip	File Size: 27 KB	Last Modified: 5/27/2015 10:54:45 AM
Aerial_Index_1965_Pt.zip	File Size: 34 KB	Last Modified: 5/27/2015 10:54:45 AM
Aerial_Index_1968_Pt.zip	File Size: 40 KB	Last Modified: 5/27/2015 10:54:45 AM
Aerial_Index_1972_Pt.zip	File Size: 39 KB	Last Modified: 5/27/2015 10:54:45 AM
Aerial_Index_1998_12FT_Py.zip	File Size: 30 KB	Last Modified: 5/27/2015 10:54:45 AM
Aerial_Index_1998_1FT_Py.zip	File Size: 80 KB	Last Modified: 5/27/2015 10:54:45 AM
Aerial_Index_1998_3FT_Py.zip	File Size: 36 KB	Last Modified: 5/27/2015 10:54:45 AM
Aerial_Index_2014_Pt.zip	File Size: 99 KB	Last Modified: 5/27/2015 10:54:45 AM
Airport_Pt.zip	File Size: 25 KB	Last Modified: 5/27/2015 10:54:45 AM
Alternative_Compliance_Py.zip	File Size: 152 KB	Last Modified: 5/27/2015 10:54:45 AM
Alternative_Develop_Tech_Py.zip	File Size: 29 KB	Last Modified: 5/27/2015 10:54:45 AM
Archeological_Survey_Bnd_Py.zip	File Size: 156 KB	Last Modified: 5/27/2015 10:54:45 AM
Athletic_Facility_Pt.zip	File Size: 62 KB	Last Modified: 5/27/2015 10:54:45 AM
Auto_Dealership_Pt.zip	File Size: 41 KB	Last Modified: 5/27/2015 10:54:45 AM
Auto_Rental_Pt.zip	File Size: 30 KB	Last Modified: 5/27/2015 10:54:45 AM
Aviation_Policy_Area_Ln.zip	File Size: 49 KB	Last Modified: 5/27/2015 10:54:45 AM
Aviation_Policy_Area_Py.zip	File Size: 52 KB	Last Modified: 5/27/2015 10:54:45 AM
Bank_Pt.zip	File Size: 40 KB	Last Modified: 5/27/2015 10:54:45 AM
Boys_Girls_Club_Py.zip	File Size: 240 KB	Last Modified: 5/27/2015 10:54:45 AM

**6,452 file downloads: 7/1 - - 9/1  
2,411 files w/in past 30 days**

<http://gisdata.pgplanning.org/opendata/>



# Public Data User Stories

Crime Data: **Colin Drane**, SpotCrime.com

Environmental Data: **John Dawes**, Chesapeake Commons

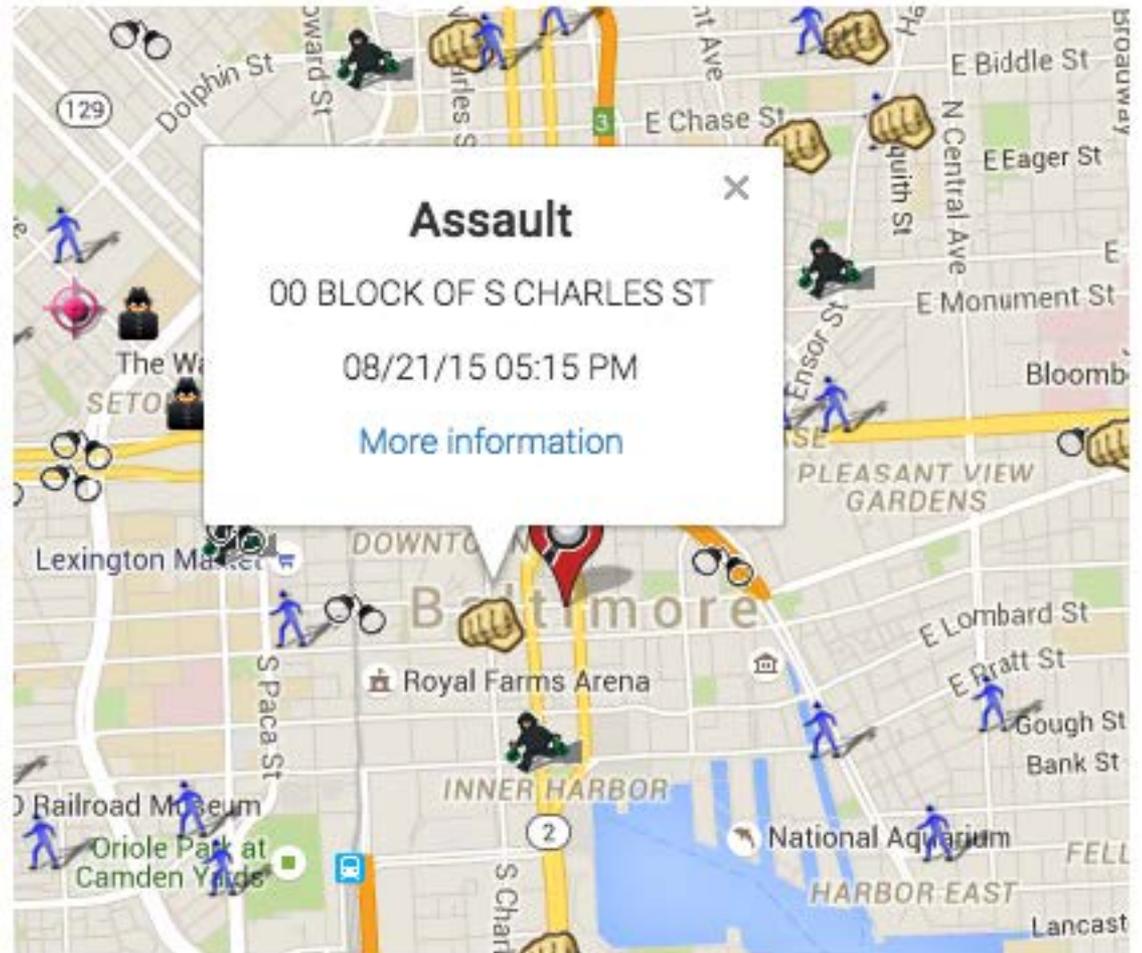
Health Data: **Matthew Eierman**, HDScores.com

Property Data: **Ryan Smith**, PhD Candidate JHU/himself

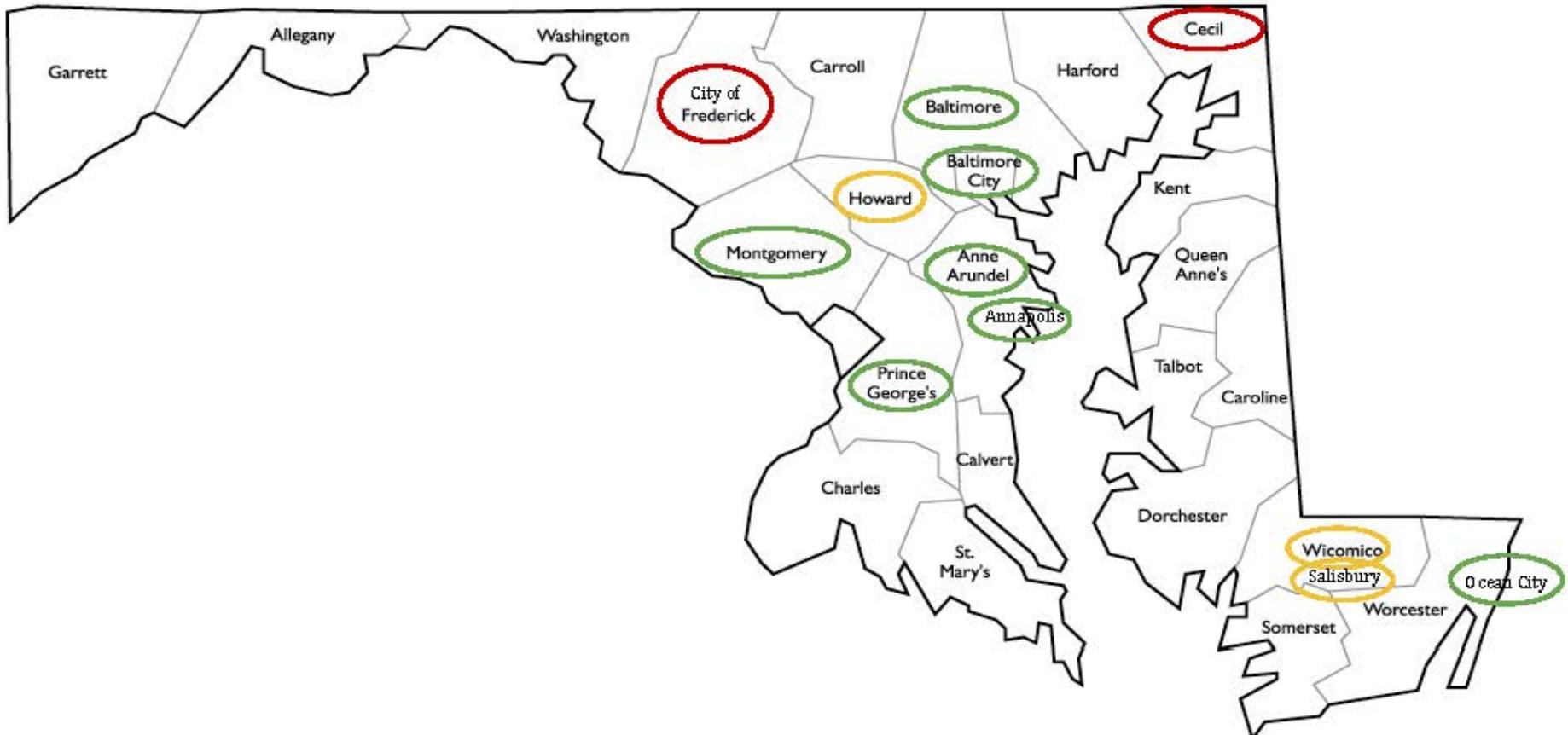
# SpotCrime

Open, Equal, and Fair Access to Crime Data

- 8 years
- Largest crime alerting system in the US
- 140 million emails annually
- Sustainable
- Profitable



# Are Maryland Police Agencies Open?

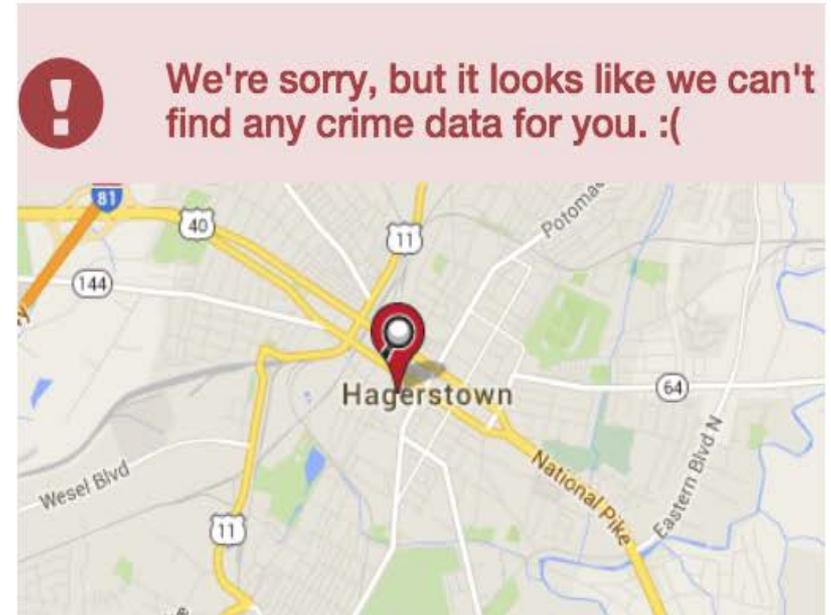


<b>Agency</b>	<b>Format</b>	<b>Data type</b>	<b>Lat/Long</b>	<b>Frequency</b>	<b>Access</b>	<b>Vendor</b>
Annapolis	Web*	P1 Crimes	No	Daily	Web	Yes
Anne Arundel	.xls	P1 & P2 Crimes	No	Weekly	FOIA (no charge)	No
Baltimore City	Open	P1 Victim Based	Yes	Every 2 weeks	Open Data site	No
Baltimore Co.	.DBF	P1 Crimes	No	Weekly	Email	Yes
Cecil	n/a	n/a	n/a	n/a	None	Yes
City of Frederick	.pdf	P1 Crimes	No	Monthly	FOIA (charge)	Yes
Howard	.pdf	Robbery, Burglary, & Theft	No	M-F	Web	Yes
Montgomery	Open	P1 & P2 Crimes	Yes	Daily	Open Data Site	No
Ocean City	Web*	Calls for Service	No	Daily	Web	No
PG County	.txt	P1 Crimes	No	M-F	Email	Yes
Salisbury	.pdf	Calls for Service	No	M-F	Web	Yes
Wicomico	.pdf	Calls for Service	No	Daily	Web	No

\* = Unrestricted Web Service

# A More Open Maryland

- Vendor controlled public data ≠ open data
  - Denton, TX
- Adopt standards (SOCS)
- Increase frequency & speed



# Benefits

- Reduced costs statewide
- Long term consistency
- Better internal reporting
- Free apps
- FOIA efficiency
- More involved public
- 'The [Yelp Effect](#)'



# Suggested Approach

- Require GOCCP grants used for any public facing software:
  - to allow open access
  - to have clear reporting standards

# #OpenCrimeData

- The White House [Police Data Initiative](#)
  - PDI [Participating Agencies](#)
- [Poynter](#): Disputes over crime maps highlight challenge of outsourcing public data
- [GovTech](#): Crime Data Transparency Ranking by City
- [Open Crime Data Feed Checklist](#)
- [SpotCrime Open Crime Standard \(SOCS\)](#)
- [SpotCrime Catapult](#)

# Environmental Data: **John Dawes**, Chesapeake Commons

- <http://chesapeakecommons.org>

## OPEN DATA AND SHARED KNOWLEDGE

for a vital Chesapeake Bay

RECENT WORK

LATEST INSIGHTS

**Food Inspection**  
 The Licensure & Regulatory Services Program inspects all licensed retail food establishments in Montgomery County for a variety ▶

Find in this Dataset  
 Manage More Views Filter Visualize Export Discuss Embed About

Name	Address 1	Address 2	City	Zip	Inspection Date	Inspection Results
1	100 MONTADITOS	4922 ELM ST	BETHESDA	20814	06/27/2014	No Critical Violations No
2	100 MONTADITOS	4922 ELM ST	BETHESDA	20814	04/03/2014	No Critical Violations No
3	100 MONTADITOS	4922 ELM ST	BETHESDA	20814	01/31/2014	No Critical Violations No
4	100 MONTADITOS	4922 ELM ST	BETHESDA	20814	01/24/2014	No Critical Violations No
5	100 MONTADITOS	4922 ELM ST	BETHESDA	20814	01/21/2014	No Critical Violations No
6	100 MONTADITOS	4922 ELM ST	BETHESDA	20814	10/07/2013	No Critical Violations No
7	100 MONTADITOS	4922 ELM ST	BETHESDA	20814	10/04/2013	No Critical Violations No
8	16 HANDLES	215 BOARDWALK PLACE	GAITHERSBURG	20878	03/24/2015	Critical Violations Correc
9	16 HANDLES	215 BOARDWALK PLACE	GAITHERSBURG	20878	03/11/2014	Critical Violations Correc
10	16 HANDLES	215 BOARDWALK PLACE	GAITHERSBURG	20878	10/23/2013	No Critical Violations No
11	16 HANDLES	639 CENTER POINT WAY	GAITHERSBURG	20878	05/01/2015	No Critical Violations No
12	16 HANDLES	639 CENTER POINT WAY	GAITHERSBURG	20878	03/30/2015	No Critical Violations No
13	16 HANDLES	639 CENTER POINT WAY	GAITHERSBURG	20878	02/06/2015	No Critical Violations No
14	16 HANDLES	639 CENTER POINT WAY	GAITHERSBURG	20878	08/26/2014	Critical Violations Correc
15	16 HANDLES	639 CENTER POINT WAY	GAITHERSBURG	20878	01/13/2014	No Critical Violations No
16	29 CONVENIFNCE MART	10755 COLFESVILLE ROAD	SILVER SPRING	20901	04/17/2015	Critical Violations Correc

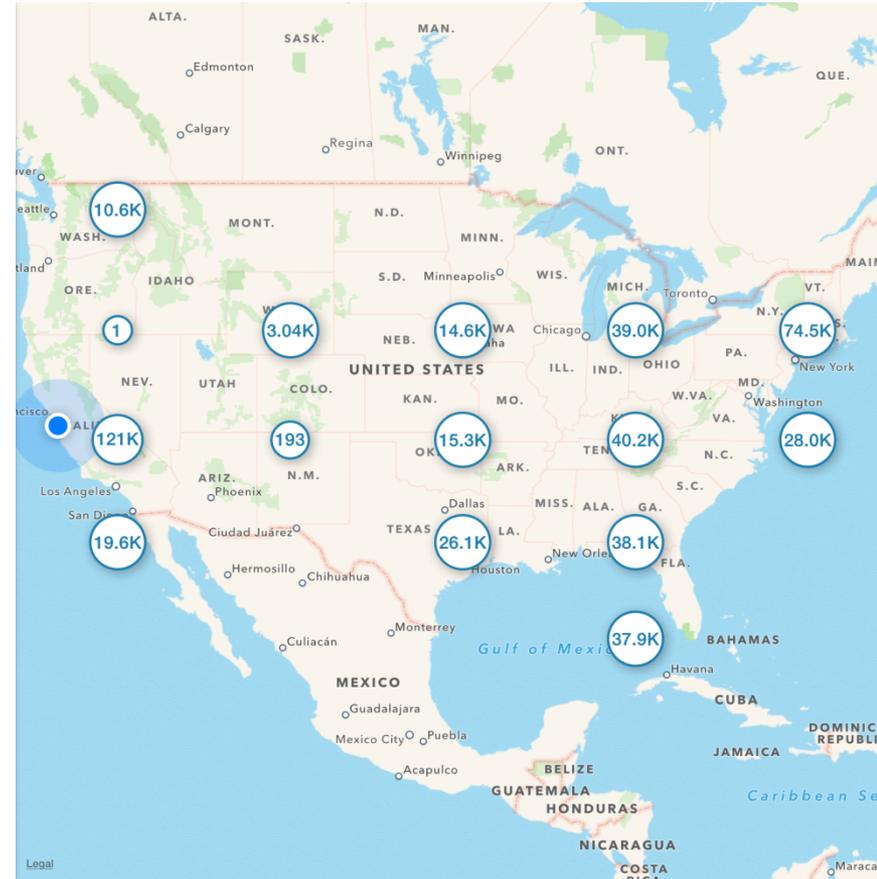
Health Data: **Matthew Eierman,**  
 HDScores.com

# The Solution

## Data Access

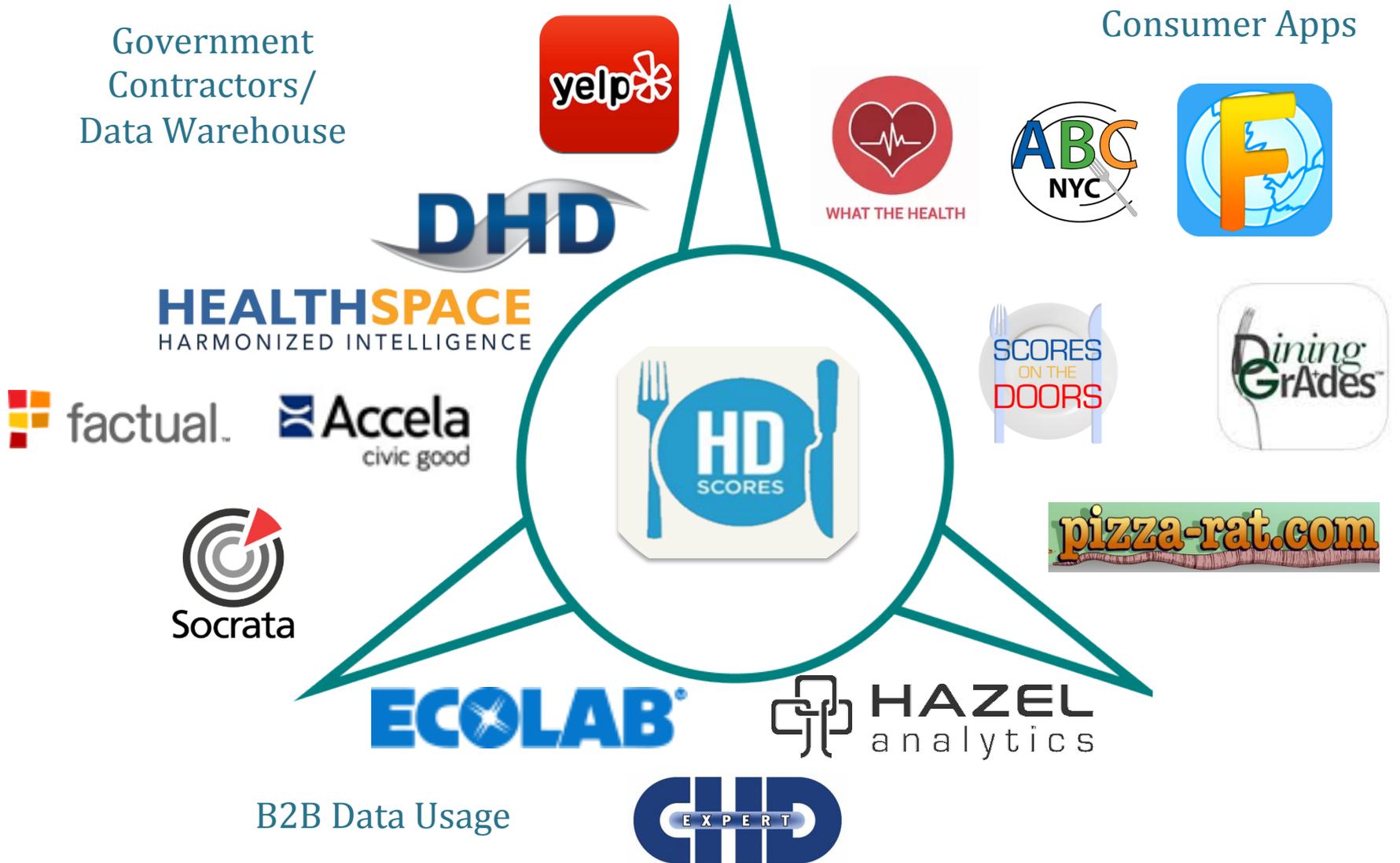
615,000+ Establishments  
4 Million+ Inspection Reports  
12 Million+ Violations  
1285 Jurisdictions

Data Access in 29 States  
Encompassing 161M people in  
jurisdictions where we have  
data.



# Competitive Landscape

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# Mapping, Open Data and Taxes

Ryan J. Smith

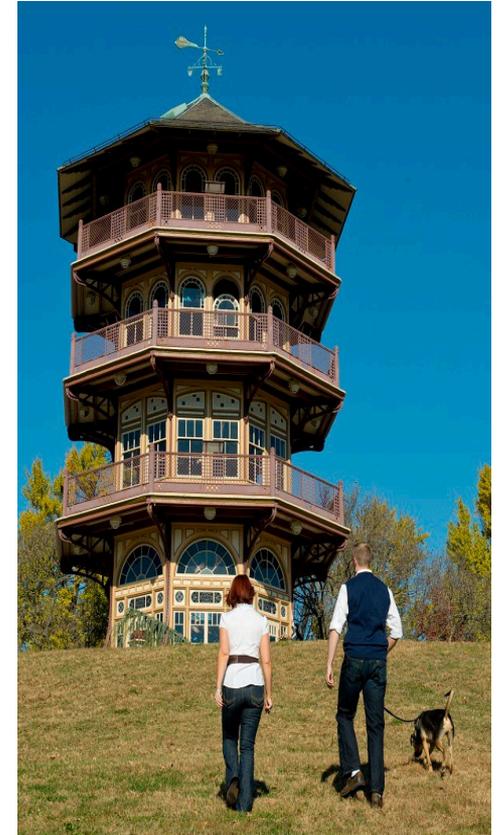
# Introduction

PhD Candidate in Biomedical Engineering at JHU

- Defending November 2015

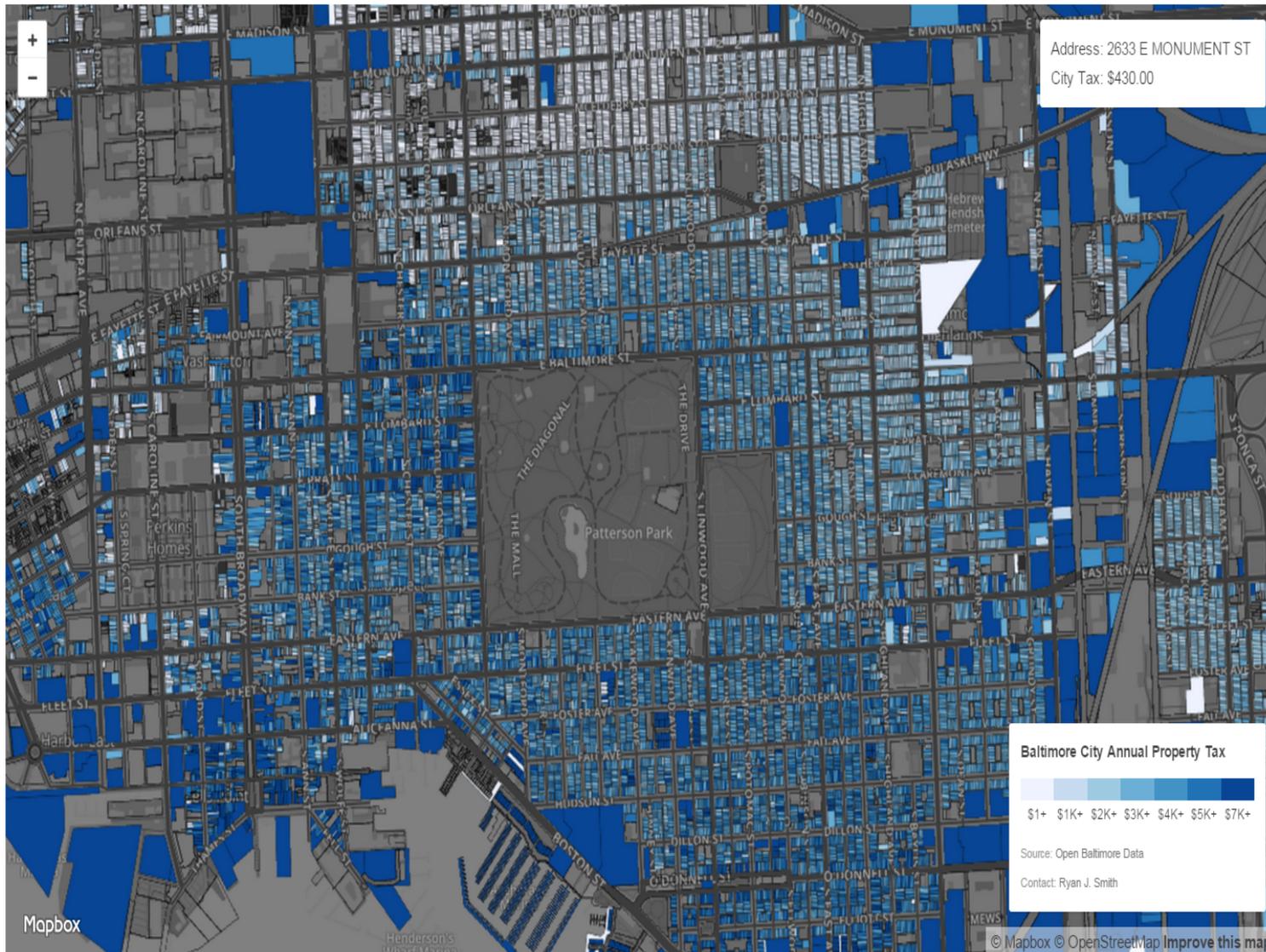
## Technical Background:

- Brain-controlled prosthetics
- Machine learning
- Data mining

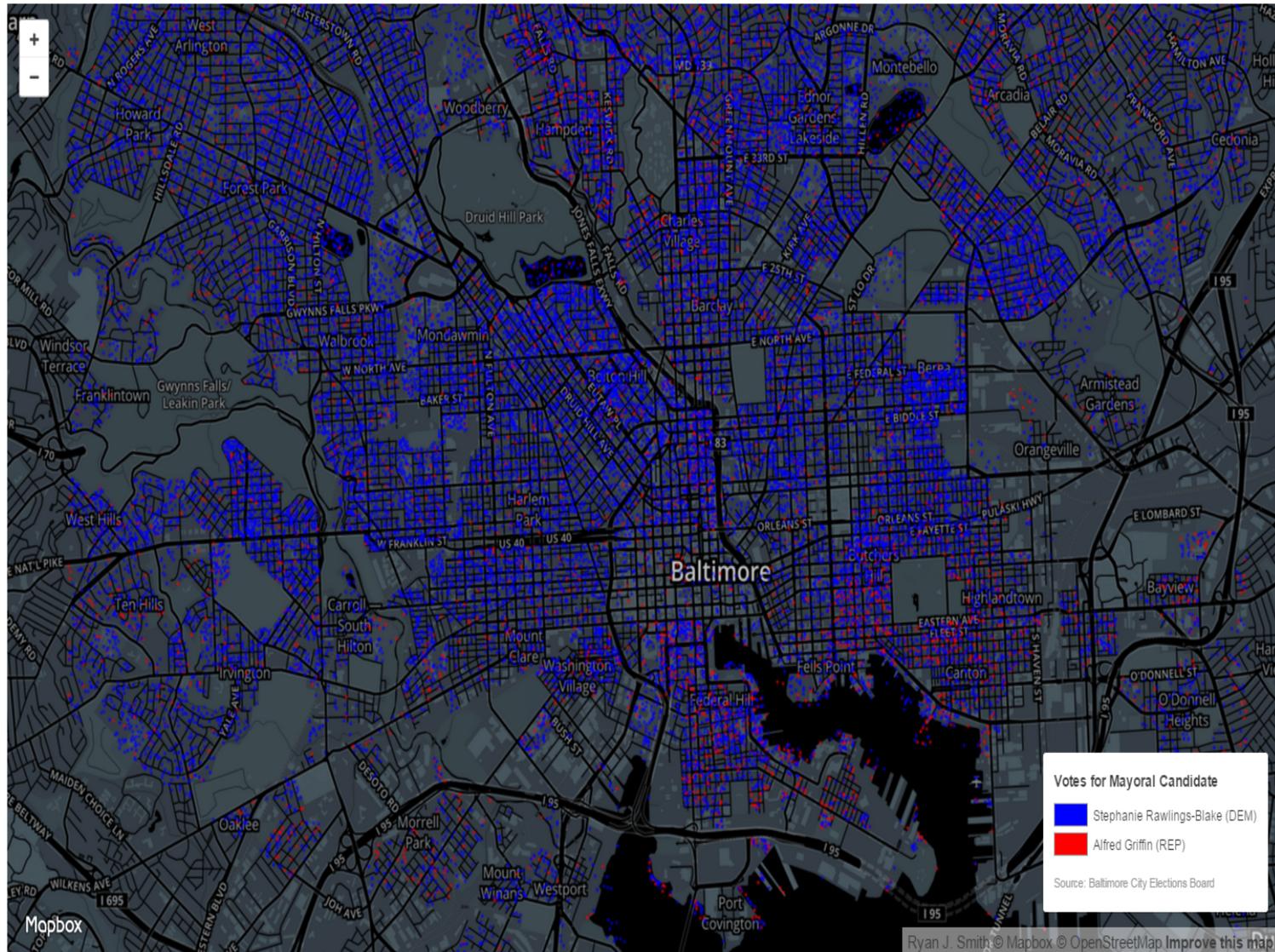


Proud Baltimore resident/homeowner since

# Baltimore Property Taxes

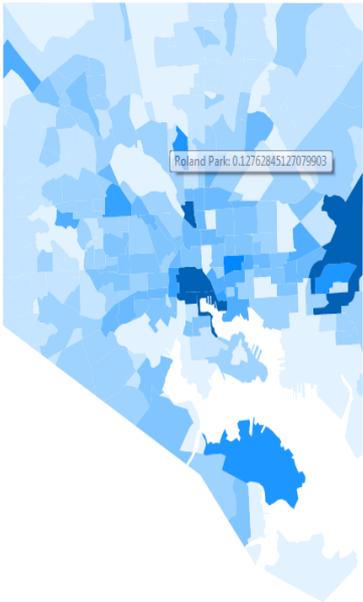


# 2011 Mayoral Election Voting Dot Map

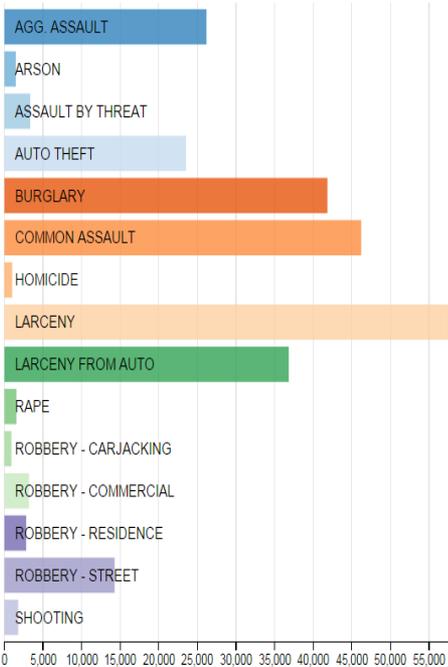


# Visualizing Baltimore Crime Data

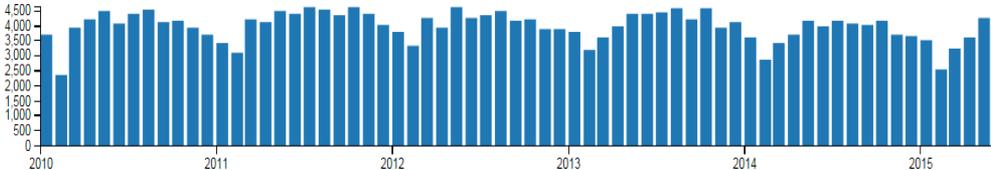
Per capita crime by neighborhood:



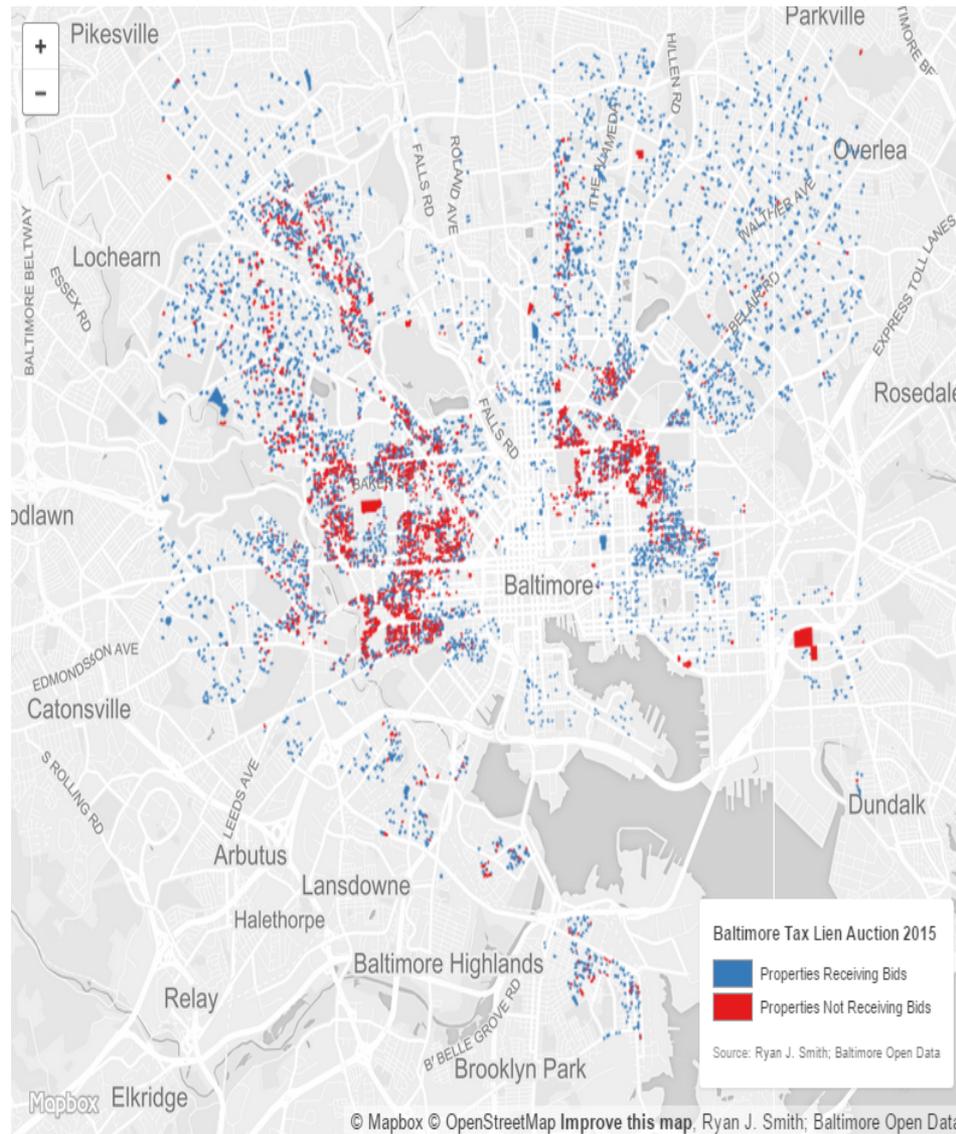
Total crime by type:



Crime volume by date:



# Certificates in 2015 Baltimore Tax Lien Auction



# Open SDAT Data and Baltimore Tax Sales

## ~14,000 Properties in 2013 Auction:

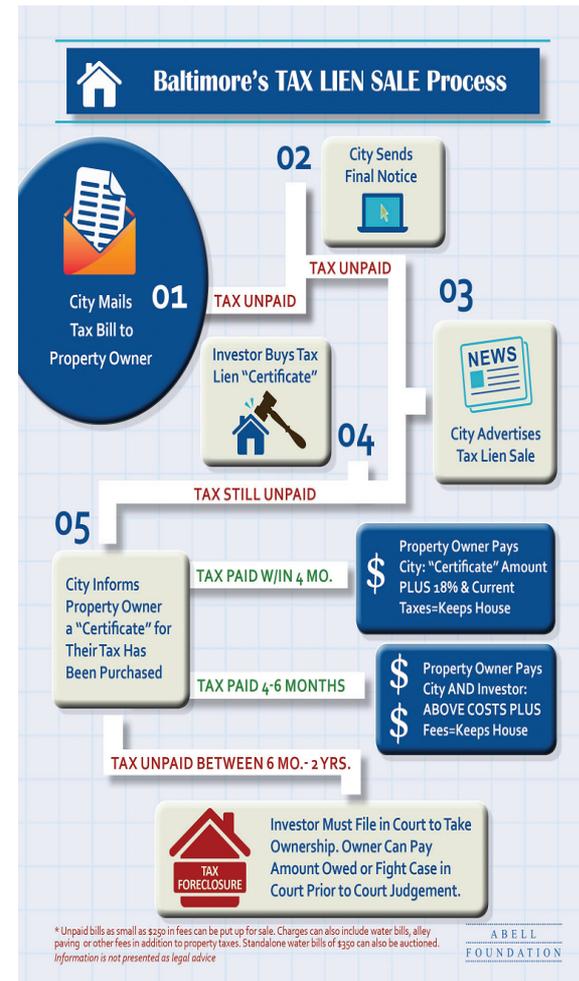
- Vacant: 30%
- Owner occupied: 20%
- R-zoned: 60%

## Bid rates:

- Overall: 50%
- Vacants: 15%
- Owner occupied: 80%

## Estimated foreclosure rate:

- Overall: 20% - 25%



# Thanks!

Questions?

**Contact Info:**

**Email:** [ryan@datadriven.science](mailto:ryan@datadriven.science)

**Twitter:** [@Ryan\\_J\\_Smith](https://twitter.com/Ryan_J_Smith)

**Website:** <http://www.bmoremapped.com>

Note: Not all slides beyond this point were shown at the public meeting due to lack of time.



# Launch of Property Data on <http://data.maryland.gov>

Joshua Exler, DoIT



Department of Information Technology  
**OPEN DATA PORTAL**

MARYLAND .gov

do it

SOCIAL MEDIA DIRECTORY

Local Data



## data.maryland.gov

Welcome to data.maryland.gov, Maryland's Open Data Portal. This site is a central location for Maryland's public data, increasing government transparency and accountability by providing Marylanders with an unprecedented level of access to their state government.



**MARYLAND:**  
**#1 in the U.S. for**  
**our commitment**  
**to Open Data**

Source: Center for Data Innovation



### Who Received State Funds Last Year?

This dataset shows payments made by state agencies in FY2014 which were \$25,000 or more. All parties receiving funds are shown: private businesses, local governments, non-profit organizations, and individuals.



### Real Property Assessments - Data Lens

Contains complete records from SDAT and MDP except for property owner names. Property owner name data are available by contacting [service.desk@maryland.gov](mailto:service.desk@maryland.gov), signing up for a data.maryland.gov account, and agreeing to terms of use. Note that records shown here are updated approximately monthly, at different frequencies from data in products from MDP and SDAT. Please see the full documentation PDF and complete metadata at the dedicated metadata site (<https://data.maryland.gov/Business-and-Economy/Maryland-Real-Property-Assessments-Hidden-Property/ed4q-f8tm/about>).



### What's the Crime Rate in your County?

Data are provided by the Maryland Statistical Analysis Center (MSAC), within the Governor's Office of Crime Control and Prevention (GOCCP). MSAC, in turn, receives these data from the FBI's annual Uniform Crime Reports.



### Who Can Inspect your Property for Lead Paint?

The Inspection Contractors (IC) listed have been accredited/licensed by the Maryland Department of the Environment to provide lead paint inspection services.

## Real Property Assessments Public Version Live as of Sep. 1.

- Primary Link:  
<https://data.maryland.gov/Business-and-Economy/Maryland-Real-Property-Assessments-Hidden-Property/sjn4-j6z3> - This is the Data Lens view for the public version. No property owner names.
- Old Backend Link:  
<https://data.maryland.gov/Business-and-Economy/Maryland-Real-Property-Assessments-Hidden-Property/ed4q-f8tm?> – This is the complete data table. Slow to load, with ~2.4 million records. No property owner names.
- Dataset is being copied into a second version which includes property owner names. See next slide...

- Private version to be uploaded in coming weeks. See meeting minutes for additional details.
- Property Owner Name fields included in the private version but hidden from the public version:
  - Record Key (Owner's Name; Name Key; Address; Mailing Address)
  - 9 fields total
- Text on home page of the Open Data Portal:
  - To gain access to the property owner name dataset, users must:
    - Email the Service Desk ([service.desk@maryland.gov](mailto:service.desk@maryland.gov)) to request access.
    - Set up an account on the Open Data Portal and provide basic contact information.
    - Agree to **terms of use** for the data



### **Real Property Assessments - Data Lens**

Contains complete records from SDAT and MDP except for property owner names. Property owner name data are available by contacting [service.desk@maryland.gov](mailto:service.desk@maryland.gov), signing up for a [data.maryland.gov](http://data.maryland.gov) account, and agreeing to terms of use. Note that records shown here are updated approximately monthly, at different frequencies from data in products from MDP and SDAT. Please see the full documentation PDF and complete metadata at the dedicated metadata site (<https://data.maryland.gov/Business-and-Economy/Maryland-Real-Property-Assessments-Hidden-Property/ed4q-f8tm/about>).

- Real Property data – including property owner names – are public data and have been made public historically. **As much of the data as possible should be available.**
- The public publication of this dataset is the **first time that the all records are available en masse and with each record complete.**
- The increased quantity of available data, combined with new tools to allow easier access to the data, affects whether the full dataset should be made Open Data, according to the Open Data Act. Open data is all “data” except where if made public the “data” would:
  - violate another law or regulation that prohibits the data from being made public;
  - **endanger the public health, safety, or welfare;**
  - hinder the operation of government, including criminal and civil investigations;
  - impose an undue financial, operational, or administrative burden on a State entity; or
  - **disclose proprietary or confidential information.**

- Benefits to this approach:
  - Google and other crawlers will not be able to pick up property owner names, since the name data will be contained to private views.
  - Public API access will not include property owner name data.
  - Public data downloads will not include property owner name data.
  - Allows DoIT to restrict access to chosen users and block any users who are misusing the property owner name data.
- Next Steps:
  - DoIT is going to draft Terms of Use for the dataset.
    - Limits on types of users
      - Individual vs. organization?
      - Private vs. public?
      - Maximum number of users total?
    - Limits on types of use
      - No use of State data without proper attribution?
      - More restrictive license model than Public Domain?

# Data Freshness Dashboard

<https://data.maryland.gov/Administrative/Dataset-Freshness-Report-for-data-maryland-gov-As-/sam4-nffa>

Joshua Exler, DoIT

# Joint Committee on Legislative Information Technology and Open Government

- A new General Assembly committee
- September 8, Briefing from the Council of on Open Data is the only witness at their first meeting.
- [Membership](#)
- Barney will cover:
  - Background and history of the Council
  - 2014 Annual Report recommendations
  - Other? (discus at conclusion of today's meeting)

Next meeting is scheduled for  
November 5, 2015, 10:00 am –  
12:00 pm, at Maryland  
Department of Transportation,  
Harry Hughes Conference  
Center.