

# Connect to MDOT's WiFi

- Network is Guest2
- Password is !Mtdsoot10



# Meeting #5

4/14/2015

# COUNCIL ON OPEN DATA

# Welcome and Introductions (who is new?)

David Garcia, Chair

Secretary

Department of Information  
Kevin Conroy, Vice Chair  
Technology

StateStat Director

Office of the Governor

Short Briefing for new members  
or refresher course  
Barney Krucoff

# History of legislation executive orders

- 2014 legislation ([SB644 & HB1260](#)) resulted in State Government [§10–1501 to §10–1504](#)
- Created Council on Open Data
- Superseded/combined two existing Executive Orders:
  - Executive Order 01.01.2012.04, One Maryland – One Map: Maryland Integrated Map.
  - Executive Order 01.01.2012.18, Maryland’s Open Data Initiative.

## Council Membership

- Chair: Secretary of Information Technology
- Vice Chair: Director of StateStat
- 2 legislators
  - Delegate Bonnie Collison
  - Senator Bill Ferguson
- 23 representatives of state agencies, secretary or designee
- 5 five elected officials or employees from local entities who have knowledge of and interest in open data
- 5 from the private, private utility, academic, or nonprofit sectors who have knowledge of and interest in open data

## Established State policy

“IT IS THE POLICY OF THE STATE THAT **OPEN DATA** BE MACHINE READABLE AND RELEASED TO THE PUBLIC IN WAYS THAT MAKE THE DATA EASY TO FIND, ACCESSIBLE, AND USABLE, INCLUDING THROUGH THE USE OF OPEN DATA PORTALS.”



<http://data.maryland.gov>



<http://imap.data.maryland.gov>

# Portals

Name	Popularity	Type	RSS
Reported Sewer Overflows	42453 views	Chart	Yes
Violent Crime and Homicide by Year: Line Chart	4771 views	Chart	Yes
Robbery & Aggravated Assault: Line Chart	2813 views	Chart	Yes
Violent Crime Totals by Year: Line Chart	2637 views	Chart	Yes

## GIS Data Categories

<http://data.maryland.gov>

<http://data.imap.maryland.gov>



Enter search term

SOCIAL MEDIA DIRECTORY

- > [Dashboard Gallery](#)
- > [Maryland named a top state for open data](#)

“It is the policy of the state that open data be machine readable and released to the public in ways that make the data easy to find, accessible, and usable, including through the use of open data portals.”

[Open Data Act](#)

[Annual Report January 2015](#)

[Briefing to House of Delegates 2/3/2015](#)

## Maryland Council on Open Data



[Maryland's Open Data Portal](#)



[Maryland's GIS Data Catalog](#)

## Next Meeting

April 14, 2015  
10am - 12pm  
Maryland Dept. of Transportation (MDOT) Headquarters  
7201 Corporate Center Drive  
Hanover, MD

[Agenda](#)

## Future Meeting Dates

June 12, 2015  
September 3, 2015  
November 5, 2015

Modified: 4/3/2015 1:06 PM

<http://doit.maryland.gov/opendatacouncil>



DEPARTMENT OF  
INFORMATION TECHNOLOGY

Enter search term



SOCIAL MEDIA DIRECTORY

- COUNCIL HOME
- ABOUT US
- MEETINGS
- FAQS

## Council on Open Data

- > Council Home Page
- > Council Members
- > Open Data Act (pdf)
- > Meeting Archive
- > About Us
- > Dashboard Gallery
- > Maryland Named a Top State for Open Data

## Meeting Schedule

April 14, 2015

June 12, 2015

September 3, 2015

November 5, 2015.

## Meeting Documents

Type	Doc Title	File Size	Modified
[-] MEETING DATE : 4/14/2015 (1)			
	Meeting Agenda	55 KB	4/2/2015 4:39 PM
[-] MEETING DATE : 12/18/2014 (5)			
	Executive Briefing Memo	104 KB	3/12/2015 1:02 PM
	Agenda	39 KB	3/12/2015 1:03 PM
	Presentation	1024 KB	3/12/2015 1:03 PM
	Sign-In Sheet	673 KB	3/12/2015 1:04 PM
	Minutes	88 KB	3/12/2015 1:04 PM
[+] MEETING DATE : 11/7/2014 (4)			
[+] MEETING DATE : 10/3/2014 (5)			
[+] MEETING DATE : 8/25/2014 (5)			

# Questions about the Council?

# Council Violation of Open Meetings Act

- As a state body created by legislation, this Council is covered by the [Open Meetings Act](#).
- DoIT failed provide adequate public notice of the Council's first meeting 8/25/2014.
- Don't be like me (Barney), know the law. Training is available [online](#).
- The Compliance Board required DoIT to inform the Council of the violation, but more importantly, we are the Council on "Open" Data. "Open" is our priority including our meetings.

# Questions on Open Meetings?

## Today's Agenda

- Meet the new DoIT Secretary: David Garcia
- 2015 Annual Report recommendations & status (Barney Krucoff).
- StateStat and its relation to Open Data (Kevin Conroy, StateStat)
- Automating StateStat Data Templates (Josh Exler)
- New Data Visualization Tools on [data.maryland.gov](http://data.maryland.gov) Coming April 22nd (Clare Zimmerman, Socrata)
- Data Freshness Dashboard (Josh Exler)
- Automating Large Dataset Publication (Josh Exler)

# 2014 Council Report to Governor & Legislature Status of Recommendations (every meeting) Barney Krucoff

# Report

- ON OR BEFORE JANUARY 10 OF EACH YEAR, THE COUNCIL SHALL REPORT TO THE GOVERNOR AND THE GENERAL ASSEMBLY, IN ACCORDANCE WITH § 2–1246 OF THE STATE GOVERNMENT ARTICLE, ON THE ACTIVITIES OF THE COUNCIL FOR THE PREVIOUS YEAR AND ANY RECOMMENDATIONS FOR LEGISLATION.

Recommendation	Status Update
<p><b>SB0094/HB0353</b> The Council recommended reducing government entities ability to charge for geographic data and eliminating the requirement to enter into contracts.</p>	<p>The Senate and House passed the legislation. The legislation is yet to be signed into law.</p>
<p><b>Retire executive orders 01.01.2012.04 and 01.01.2012.18.</b></p>	<p>This recommendation has not yet been taken up by the new Administration.</p>
<p><b>Online open meetings calendar</b></p>	<p>DoIT has contacted the Office of the Secretary of State about receiving a feed of open meetings. SOS has not yet taken up this initiative.</p>
<p><b>Statewide data inventory</b></p>	<p>DoIT has used feedback from the previous Open Data Council meetings to design a preliminary database. Work/testing is proceeding.</p>
<p><b>Consolidate and or synchronize data portals</b>  <a href="http://data.maryland.gov">http://data.maryland.gov</a> &amp;  <a href="http://imap.maryland.gov">http://imap.maryland.gov</a></p>	<p>DoIT will add to the data catalogue on <a href="http://data.maryland.gov">data.maryland.gov</a> external links to iMAP, one for each GIS data set.  Additional integration may be possible/desirable and DoIT is in discussions with Esri and Socrata.</p>

# Discussion on status report

Possible topics for discussion:

- Other 2015 legislation of interest to members?
- Any thoughts on 2016 legislation?
- Do any agencies have existing inventories or lists of their information resources, i.e., databases?
- What features would the Council like to see included if the Open Meetings Calendar were to be published in an open data format?

# Meet the DoIT Secretary

David Garcia

Possible topics for discussion:

- Members' and Secretary Garcia's thoughts on open data.
- Members' and Secretary Garcia's thoughts on what the Council should accomplish during the coming year and during the Hogan Administration longer term.

# StateStat and its relation to Open Data

Kevin Conroy, Director

Possible topics for discussion:

- How will StateStat evolve under Governor Hogan?
- How does Open Data relate to performance management?

# Automating StateStat Data Templates

Josh Exler, DoIT

# Existing Excel templates loaded to Socrata Portal

## Scripts to Copy StateStat Data to the Open Data Portal

**Step 1: Extract.** DoIT has used the scripting language Visual Basic to automate the process of copying all data within DHMH's data templates. Whenever an agency submits new data templates to StateStat, DoIT will run this script to copy the new data.

**Step 2: Transform.** The copied data are structured and formatted in a Socrata-readable format, e.g., by removing blank columns and rows from agencies' spreadsheets. At this stage, the Visual Basic script performs an automated data analysis on all of the agency data (see next section).

**Step 3: Load.** The transformed data are uploaded to Socrata using the software FME. The ability for FME to write to Socrata datasets is powered by the Socrata Publisher API.

# Instant first cut analysis

Live Link: <https://data.maryland.gov/Health-and-Human-Services/DHMH-Report-21-Veterans-Veterans-Linked-to-Employm/4ymr-b22x>



**Automated Analysis of StateStat Data – Included in Datasets on Open Data Portal**  
*This analysis will be generated for every dataset containing StateStat data which is uploaded to data.maryland.gov. Each data series has a new analysis automatically generated every time new data templates are submitted to StateStat.*

- Automatic detection of non-numeric data (this will help detect and fix fat-finger errors)
- Absolute Change (compared to previous data point, e.g., how March's new data compare to February's data)
- Relative Change (the same change, but measured as the relative difference and reported as a percentage)
- Average Change to Date (e.g., average monthly change to date)
- How the Current Change Compares to the Average Change (this will help analysts detect unusually large increases or decreases in a data series)
- Standard Deviations from the Mean – Sometimes a large monthly increase or decrease happens only because a data series has high variance. Automatically calculating standard deviations from the mean will show whether increases are due to expected variance – or rather, whether increases and decreases are driven by external causal factors.
- Mean to Date
- Median to Date
- Rolling Mean (the default period used is a 12 month rolling mean for monthly data and a 4 year rolling mean for annual data)
- Sum to Date (not calculated for percentages or rates)
- Rolling Sum (not calculated for percentages or rates)
- Bivariate Correlations – Each pair of data series within a dataset<sup>1</sup> is tested for correlation. The coefficient of correlation (R squared) is reported, as is the p-value and sample size (N). The latter value shows the number of data pairs included in the test. By default, bidirectionality of causal relationships is assumed<sup>2</sup>, so two-tailed tests are used to test for statistical significance, with any p-values less than or equal to 0.1 flagged.<sup>3</sup>



# Data Freshness Dashboard

## Maryland Open Data Portal: Data Freshness Dashboard

Show  entries

Search:

Dataset Name	Link	Owner	User who Made Last Update	Update Frequency	Date of Most Recent Data Change	Updated Recently Enough? v	Number of Rows
Maryland Port Administration General Cargo	<a href="https://data.maryland.gov/d/2ir4-626w">https://data.maryland.gov/d/2ir4-626w</a>	<a href="#">Dominic Scurti</a>	<a href="https://data.maryland.gov/profile/nqr5-s4py">https://data.maryland.gov/profile/nqr5-s4py</a>	Monthly	Thu Mar 26 2015 12:54:26 GMT-0400 (EDT), 13 days ago	Yes	206
BayStat Solutions Reporting - Maryland Dept. of Natural Resources	<a href="https://data.maryland.gov/d/4zqs-i2t2">https://data.maryland.gov/d/4zqs-i2t2</a>	<a href="#">ESRGC</a>	<a href="https://data.maryland.gov/profile/xgdh-qy5z">https://data.maryland.gov/profile/xgdh-qy5z</a>	Annually	Fri Mar 27 2015 14:02:34 GMT-0400 (EDT), 12 days ago	Yes	66
BayStat Solutions Reporting - Maryland Dept. of Natural Resources	<a href="https://data.maryland.gov/d/4zqs-i2t2">https://data.maryland.gov/d/4zqs-i2t2</a>	<a href="#">ESRGC</a>	<a href="https://data.maryland.gov/profile/xgdh-qy5z">https://data.maryland.gov/profile/xgdh-qy5z</a>	Annually	Fri Mar 27 2015 14:02:34 GMT-0400 (EDT), 12 days ago	Yes	66
BayStat Solutions Reporting - Maryland Dept. of the Environment	<a href="https://data.maryland.gov/d/ab68-n7ja">https://data.maryland.gov/d/ab68-n7ja</a>	<a href="#">ESRGC</a>	<a href="https://data.maryland.gov/profile/6wh5-keek">https://data.maryland.gov/profile/6wh5-keek</a>	Annually	Wed Apr 01 2015 16:29:12 GMT-0400 (EDT), 7 days ago	Yes	44
BayStat Solutions Reporting - Maryland Dept. of Agriculture	<a href="https://data.maryland.gov/d/tsva-25ee">https://data.maryland.gov/d/tsva-25ee</a>	<a href="#">joshuaexler</a>	<a href="https://data.maryland.gov/profile/hcsr-zg76">https://data.maryland.gov/profile/hcsr-zg76</a>	Annually	Mon Mar 23 2015 11:38:31 GMT-0400 (EDT), 16 days ago	Yes	55

### Information Included in Data Freshness Dashboard

- **Dataset Name**
- **Link**
- **Owner** – A dataset’s default owner is the user who uploaded the dataset. Dataset ownership can be transferred to another user after the initial upload. The owner should be whoever is directly responsible for maintaining the dataset.
- **User who Made Last Update** – This is sometimes the dataset owner, but in other cases, agencies assign multiple users to make updates to a dataset.
- **Update Frequency** – DoIT is planning to add “Static Data” as an option for data which is not planned to be updated after the initial upload.
- **Date of Most Recent Data Change**
- **Updated Recently Enough?** – This information shows as “Yes”, “No”, or “N/A” for datasets where the update frequency is logged as “As needed.”
- **Number of Rows** – Arguably the least important part of the dashboard
- **(Planned but not yet Included) Tags/Keywords**



Live Link: <https://data.maryland.gov/dataset/SDAT-Property-Assessments-Single-Record-View-Examp/2ytf-ckgu>

Jurisdiction Code (MDP Field: JURSCODE)	CARO	PARENT ACCOUNT NUMBER: Account Number (SDAT Field #388)	
County Name (MDP Field: CNTYNAME)	Caroline County	Last Activity Date (YYYY.MM.DD) (SDAT Field #392)	2015.01.30
Account ID (MDP Field: ACCTID)	0603001091	Record Creation Date (YYYY.MM.DD) (SDAT Field #397)	0000.00.00
Real Property Search Link	<a href="http://sdat.resiusa.org/RealProperty/Pages/viewdetails.aspx?County=06&amp;SearchType=ACCT&amp;District=03&amp;AccountNumber=001091">http://sdat.resiusa.org/RealProperty/Pages/viewdetails.aspx?County=06&amp;SearchType=ACCT&amp;District=03&amp;AccountNumber=001091</a>	Record Deletion Date (YYYY.MM.DD) (SDAT Field #398)	0000.00.00
FINDER Online Link		Assessment Cycle Year (SDAT Field #399)	2015
Search Google Maps for this Address		File Record Type (SDAT Field #400)	M
RECORD KEY: County Code (SDAT Field #1)	06	Count	1
RECORD KEY: District/Ward (SDAT Field #2)	03	BASE CYCLE DATA: Preferential Land Value (SDAT Field #156)	\$0.00
RECORD KEY: Account Number (SDAT Field #3)	001091	BASE CYCLE DATA: Circuit Breaker Value (SDAT Field #157)	\$0.00
RECORD KEY: Subdistrict (SDAT Field #4)		BASE CYCLE DATA: Date Assessed (MMCCYY) (SDAT Field #158)	2014.01
RECORD KEY: Geographic Code (MDP Field: GEOGCODE. SDAT Field #5)	81	BASE CYCLE DATA: Date Inspected (MMCCYY) (SDAT Field #159)	1899.12
RECORD KEY: Owner Occupancy Code (MDP Field: OOI. SDAT Field #6)	N	BASE CYCLE DATA: Assessor Code (SDAT Field #160)	0670
RECORD KEY: Owner's Name (MDP Field: OWNNAME1. SDAT Field #7)	STATE HIGHWAY ADMINISTRATION OF	PRIOR ASSESSMENT YEAR: Total Assessment (SDAT Field #161)	\$264,267.00
RECORD KEY: Owner's Name 2nd Line (MDP Field: OWNNAME2. SDAT Field #8)	THE DEPARTMENT OF TRANSPORTATION		



# Questions for Josh

Possible topics for discussion:

- Does the proposed method for automating the existing Excel based work processes seem workable?
- Will the automated analyses be helpful to agencies?
- Are there any additional tests, analyses, or calculations that StateStat or agencies regularly use when looking at their data, which should also be included as part of the automatic analysis?
- Do agencies have questions about any of the components of the automatic analysis, e.g., how a calculation or analysis is performed, or what utility the component has for performance management?
- Show of hands: How many agencies have regularly submitted PII or other types of sensitive data to StateStat?
- Show of hands: How many agencies have irregularly submitted PII or other types of sensitive data to StateStat?
- Do agencies have concerns about the security of sensitive data contained in private pages on [data.maryland.gov](http://data.maryland.gov)?
- Have any agencies added or removed any data from their data templates since November 2014?
- Would agencies be open to adding their StateStat data directly to the Open Data Portal, eliminating the need for Excel data templates entirely?

# New Socrata User Interface (Data Lens)

Clare Zimmerman, Socrata

# Data Lens

## Data Lens: Maryland Total Residential Sales - Priority Funding Areas - 2012 - Based on MDProperty View...

OFFICIAL DATA LENS

LAST UPDATED A Month Ago

SOURCE DATASET

Maryland Total Residential Sales - PFA - 2012 - Zipcode

Download

API

Residential home sales based on MdProperty View Sales Databases created for Maryland's 23 counties and Baltimore City for all 2012 Zip Code areas; also provides median and mean sales values and sales inside and outside Priority Funding Areas (PFA). Priority Funding Areas are existing communities and places where local governments want State investment to support future growth.

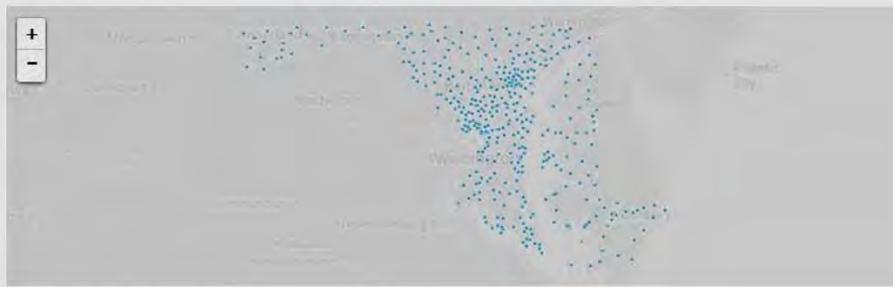
Showing the number of rows

by the Number of Rows ▾

Number of rows by  
Counties



Zip Code (Geocoded)



Zipcode

Search



Type some text and press enter to search  
(Examples: '20779' or '21111')

# Questions for Clare

Possible topics for discussion:

- What datasets on data.maryland.gov would work best for visualization using Data Lenses?
- How do uses differ for geographic versus non-geographic data?
- When will Data Lens become the default landing page for data.maryland.gov datasets?
- Are any Council members interested in attending the April 16<sup>th</sup> webinar?
- Are additional training dates needed?

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

