

*Mayor’s Goal 5: “Philadelphia government works efficiently and effectively, with integrity and responsiveness”*

**Topic:** Office of Innovation and Technology,  
Open Data

**Key Presenters:** Adel Ebeid, Chief Innovation Officer  
Tim Wisniewski, Chief Data Officer

**Date:** July 28th, 2015



## Executive Summary

### Major Accomplishments:

- Released 227 datasets from 33 agencies
- Catalogued all 650+ unpublished datasets at 8 departments
- Established process for public to participate in data release prioritization
- Built infrastructure and capacity for sharing data easily and consistently
- Made it easier to discover and access data

### Challenges:

- Public awareness
- Internal adoption of new platforms and resources
- Legacy systems

# OPEN DATA

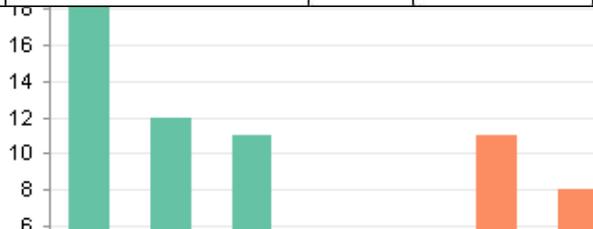


## Who We Are



# What is Open Data?

Ice Radar Location (UTM, Zone 6 - NAD1983, NGVD29)										Ice Thickness Data		
Transmitter			Receiver			Midpoint			Position Error	Transmitter Receiver Separation (meters)	Radar Delay Time (microsec)	Ice Thickness (meters)
Easting (meters)	Northing (meters)	Altitude (meters)	Easting (meters)	Northing (meters)	Altitude (meters)	Easting (meters)	Northing (meters)	Altitude (meters)				
580,983	7,018,382	1,835	580,903	7,018,431	1,828	580,943	7,018,406	1,832	<1	95	1.90	180
579,905	7,018,213	1,880	579,875	7,018,270	1,886	579,890	7,018,242	1,883	<1	65	1.75	160
579,875	7,018,270	1,886	579,775	7,018,338	1,891	579,825	7,018,304	1,889	10	121	2.25	210
579,775	7,018,338	1,891	579,736	7,018,404	1,824	579,755	7,018,371	1,857	10	102	2.85	260
579,736	7,018,404	1,824	579,674	7,018,476	1,895	579,705	7,018,440	1,860	10	118	2.90	270
579,674	7,018,476	1,895	579,598	7,018,549	1,895	579,636	7,018,512	1,895	10	105	2.10	200
579,598	7,018,549	1,895	579,527	7,018,615	1,895	579,563	7,018,582	1,895	<1	97	1.25	120
579,527	7,018,615	1,895	579,443	7,018,694	1,700	579,485	7,018,654	1,698	<1	115	0.65	70
579,236	7,015,159	1,387	579,183	7,015,204	1,391	579,210	7,015,181	1,389	<1	69	1.25	120
579,183	7,015,204	1,391	579,097	7,015,256	1,392	579,140	7,015,230	1,391	<1	101	1.45	140
579,097	7,015,256	1,392	578,972	7,015,308	1,392	579,035	7,015,282	1,392	10	136	1.35	140
578,972	7,015,308	1,392	578,891	7,015,349	1,392	578,931	7,015,328	1,392	20	90	1.40	140
578,891	7,015,349	1,392	578,797	7,015,405	1,389	578,844	7,015,377	1,390	10	110	1.40	140
578,797	7,015,405	1,389	578,694	7,015,466	1,385	578,746	7,015,436	1,387	10	120	1.55	150
578,694	7,015,466	1,385	578,605	7,015,522	1,377	578,649	7,015,494	1,381	20	105	1.35	130
578,605	7,015,522	1,377	578,524	7,015,579	1,376	578,565	7,015,551	1,376	20	99	1.25	120
578,524	7,015,579	1,376	578,454	7,015,626	1,375	578,489	7,015,602	1,375	20	84	1.10	110
578,454	7,015,626	1,375	578,382	7,015,667	1,371	578,418	7,015,646	1,373	20	83	0.95	90
578,382	7,015,667	1,371	578,325	7,015,700	1,376	578,353	7,015,683	1,373	20	67	0.50	50



ponents

```
{
  property_id: "5356001234",
  account_number: "883309000",
  full_address: "1234 MARKET ST",
  unit: "",
  zip: "191073615",
  address_match: {
    original: "1234 market",
    standardized: "1234 MARKET ST",
    similarity: 91.58354114713218,
    match_code: null,
    match_type: "Parcel"
  },
  geometry: {
    x: -75.16097581817294,
    y: 39.95166185436387
  },
  ownership: {
    owners: [
      "SEPTA"
    ],
    liaison: null
  },
  characteristics: {
    description: "OFF/BLD N/COMM W-PKG MASO",
    land_area: 50160,
    improvement_area: 693060,
    improvement_description: "",
    building_code: "DE0",
    eq_id: "",
    gma: "",
    homestead: null
  }
}
```

Open data takes the approach of proactively publishing records on the web for people to access and analyze. This increases transparency, drives business, and enables data-driven decisions.

## Philadelphia Police Part One Crime Incidents

Crime Data from 2006 to the present

**DATA**

- All Data
- Arts / Culture / History
- Budget / Finance
- Economy
- Education
- Elections / Politics
- Environment
- Food
- Health / Human Services
- Parks / Recreation
- Planning / Zoning
- Public Safety
- Real Estate / Land Records
- Transportation
- Uncategorized

- Idea Gallery
- Submit Data
- Nominate Data

**ABOUT**

- About
- FAQ
- Useful Links
- Contact

**BASIC INFO** | **ALL INFO**

**Organization**  
City of Philadelphia

**Division**  
Philadelphia Police Department,

**Release Date**  
Dec. 12, 2012

**Data Types**  
ArcGIS REST, CSV

**Categories**  
Public Safety

**Description**  
From the metadata: "The layer holds Part I crime for the City of Philadelphia beginning January 1, 2006. Part I crime includes, Homicides, Rapes, Robberies, Aggravated Assaults, Thefts. The data displayed is generalized by the crime type and the block location." The data is updated daily. Metadata is included in the zipfile.

**DATA**

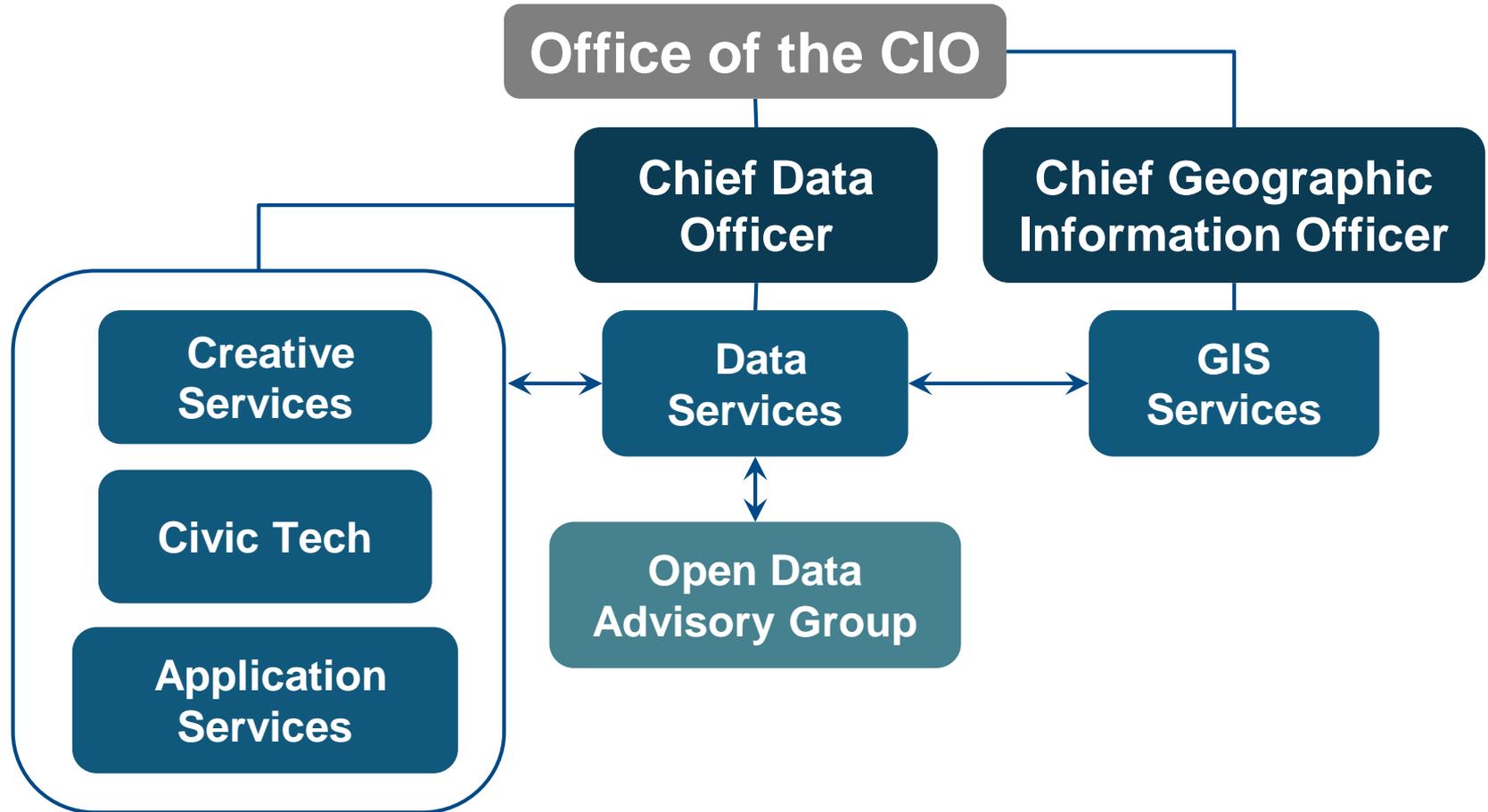
<p><b>Raw Data</b></p> <ul style="list-style-type: none"> <li>→ Crime Incidents CSV</li> <li>→ Crime Incidents ArcGIS Rest API</li> <li>→ Crime Incidents Last 30 Days ArcGIS Rest API</li> </ul>	<p><b>Documentation</b></p> <ul style="list-style-type: none"> <li>→ Crime Incidents Metadata</li> </ul> <p><b>Applications</b></p> <ul style="list-style-type: none"> <li>→ Phila.gov Map with Crime Incidents</li> </ul>
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**In April of 2012, Mayor Nutter established a formal open data policy for the City of Philadelphia with Executive Order 1-12:**

- **Section 1.** Open Data Working Group and Chief Data Officer
- **Section 2.** Data Governance Advisory Board
- **Section 3.** Open Government Plan
- **Section 4.** Open Data Policy

# Office of Innovation & Technology



# OPEN DATA



## What We Do



## Overarching Goals

1. Fulfill demand through data releases
2. Develop process for public to participate in data release prioritization
3. Build infrastructure for sharing data easily and consistently
4. Make it really easy to discover and access data

### What's on the Horizon:

5. Enable data-driven decision making through shared data
6. Improve data at capture point
7. Build a new phila.gov that's consistent, pleasant, accessible & efficient

## Goal 1: Fulfill demand through data releases

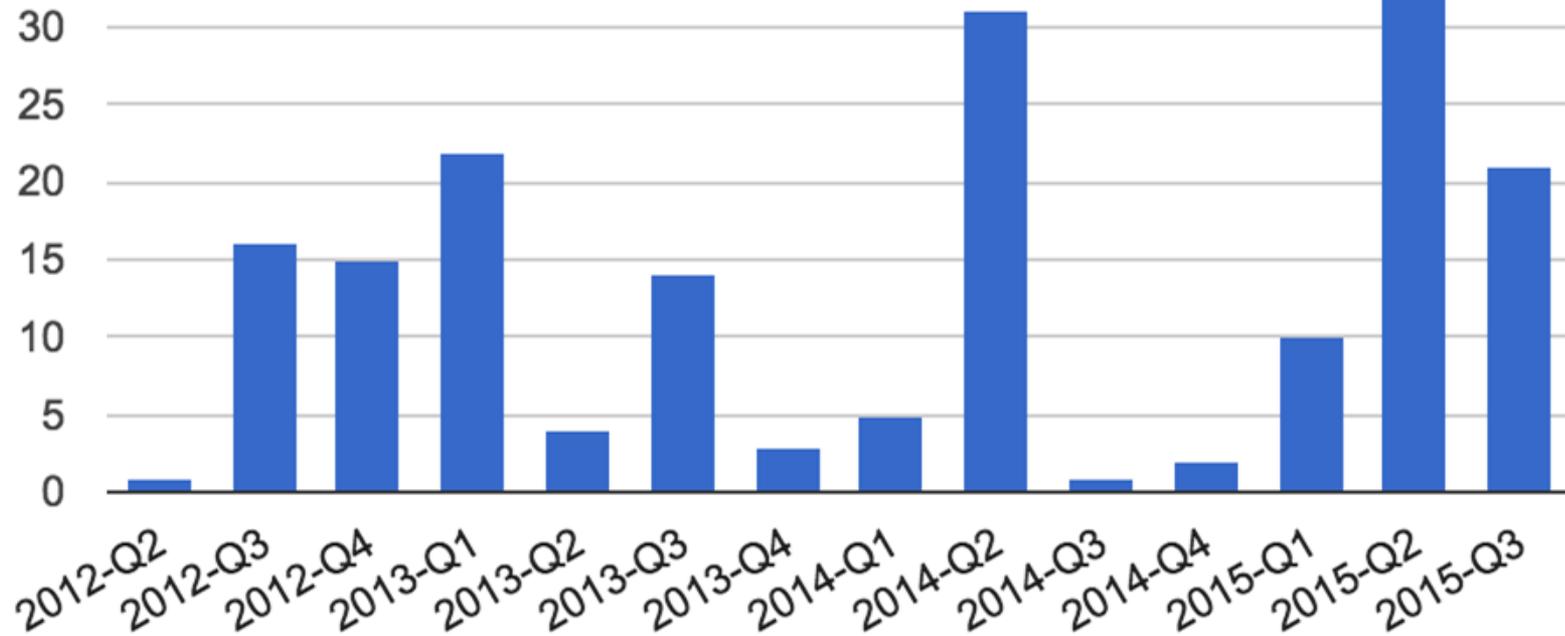
**227**  
Datasets

**33**  
Agencies

### Including:

- Construction Permits
- Operating Budget
- Parking Tickets
- Lobbying
- Contracts
- Voter Turnout
- Property Assessments
- Zoning
- Building Violations
- Part 1 Crimes
- Bike Share Stations
- Campaign Finance
- Code Violation Notices
- Parcels
- Building Energy Usage

## Datasets Released by Quarter



*Excludes 44 datasets released prior to the Executive Order in 2012-Q2*

## Goal 2: Develop process for public to participate in data release prioritization

**Citywide Data Inventory**

Fire Licenses & Inspections Streets Parks and Recreation Commerce City Commissioners Ethics Emergency Management

search by keyword

Showing 1-100 of 168 [export](#) 100 per page Page 1 of 2

Title	Contents	Comments	Details
Fire Incident Reports	Any time there is a fire, information is gathered relating to the event and the people involved, including the incident number, when the incident occurred, if any died in the fire, extent of the fire, location of the property, if any injuries occurred.	10	<a href="#">add comment</a>
Emergency 911 Calls	This data set contains information related to the calls received by the Fire Communications 911 unit. These entries are timestamped with when the call was received, when a unit was dispatched, when the unit arrived on the scene, and has additional information regarding what happened while the incident was being mitigated.	5	<a href="#">add comment</a>
Budget	Budget reported monthly, quarterly, and annually	4	<a href="#">add comment</a>
Jury Duty Paper Work	Employees that have been called for jury duty, when they were out and additional details	3	<a href="#">add comment</a>
FCC Phone Database	The FCC Phone Database contains information on all incoming calls for a given day. This information is broken down into specific time frames as well as type of call which could be 911EMS, 911 FIRE, or NON-911 calls. Cumulative totals for time frames and type of calls are also recorded.	3	<a href="#">add comment</a>
FCC Dispatcher Database	This database contains the total number of dispatches for a given day. Data contained within each record is broken down by time frames, and type of incidents (fire, medical, etc.)	3	<a href="#">add comment</a>
Daily number of calls received	The number of 911 calls received on a given day.	3	<a href="#">add comment</a>
EMS Study Database	The EMS Study database accepts raw text data from a mainframe dump and properly formats time fields for all incidents. It then performs critical calculations on time fields such as Response Times given Dispatched and On Scene time frames.	3	<a href="#">add comment</a>
Fire Deaths Database	Any incident in which there was a related fire death stores information in this database.	3	<a href="#">add comment</a>
Fire Marshall Investigation Results	A secured database that provides a description of the Firemarshalls individual investigation and end result. This information is sensitive.	3	<a href="#">add comment</a>
Vital Building Information	Critical information regarding occupancy, floor plans,	2	<a href="#">add comment</a>
Engine Local Boundaries	ADMINISTRATIVE ENGINE LOCAL BOUNDARIES	2	<a href="#">add comment</a>
Hydrants for Inspection	PWD AND PRIVATE HYDRANT LOCATIONS FOR THE ANNUAL HYDRANT INSPECTION PROGRAM	2	<a href="#">add comment</a>
Inventory Forms	Inventory list of the supplies and count of supplies kept in the warehouse and at all satellite stations and trucks.	2	<a href="#">add comment</a>
Bunker Gear Database	The Bunker Gear Database contains records for all the bunker gear issued to members of the PFD, either field personnel or staff. Besides information related to the actual gear itself, repairs to individual items as well as Reserve Gear is tracked.	2	<a href="#">add comment</a>

**8**  
Departments

**651**  
Datasets  
Cataloged

As of July 20, 2015

## Goal 2: Develop process for public to participate in data release prioritization

### Feedback

Name Robert Cheetham

Message This seems like useful data, particularly if it can be associated with the "Fire Incident Reports" data set.

Name Jim MacMillan

Message This dataset would help the public determine the demand on the Fire Department and make comparisons possible with other places and times.

Name Garrett O'Dwyer

Message Along with the incident reports and distribution of fire department facilities, this data could be useful to understanding how location impacts fire department effectiveness.

Name Dylan Purcell

Message As one of the busiest cities for EMS units this would be valuable information. I've seen this data in the past and it's useful.

### Provide Feedback

Name \*

First

Last

Email \*

Message \*

*Help us understand why this dataset is important to you / your community. We'll bring this back to the department for use in prioritizing their data releases.*

Submit

342  
Public  
Comments

# Open Data Advisory Group

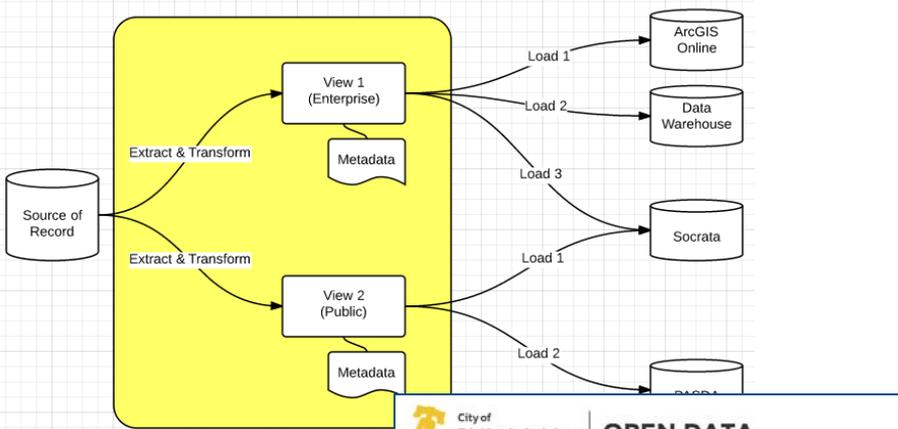
## City's Open Data Advisory Group Meets

JUN 11

Posted by [PhillyInnovates](#)

Last week, the City of Philadelphia's Open Data Advisory Group met to discuss three data inventories which were recently made available by the Streets Department, Licenses and Inspections, and the Programs Division of Parks and Recreation. The Streets Department's [inventory](#) includes 101 data sets. Licenses and Inspections' [inventory](#) includes 69 data sets. Parks and Recreation Programs [inventory](#) includes 16.

# Goal 3: Build infrastructure for sharing data easily and consistently

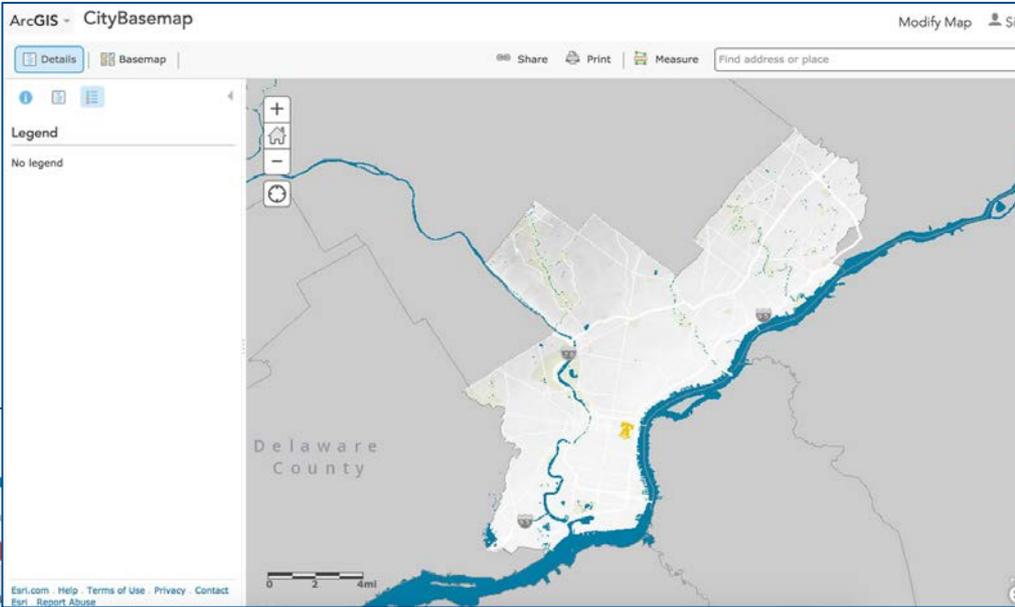


The Real Value-Add Catalog This

City of Philadelphia | OPEN DATA

**Parking Violations**  
This data set reflects parking violations reported by authorized agencies in Philadelphia. The data is updated daily.

Issue Date and Time	State	Plate	Agency	Address
01/01/2012 12:00:00 AM	PA	104893		
01/01/2012 12:00:00 AM	PA	679582	09	400 S 25TH
01/01/2012 12:00:00 AM	PA	1082165	05	7016 HENRY AVE
01/01/2012 12:01:00 AM	TX	1720567	02	300 DEVEREAU
01/01/2012 12:07:00 AM	PA	1172258	63	450 N 6TH
01/01/2012 12:07:00 AM	PA	978500	16	1000 N 42ND
01/01/2012 12:09:00 AM	NJ	427139	06	450 N 6TH
01/01/2012 12:09:00 AM	PA	869463	03	3RD SOUTH ST
01/01/2012 12:10:00 AM	NJ	308463	06	448 N 6TH
01/01/2012 12:12:00 AM	PA	1585402	06	446 N 6TH
01/01/2012 12:26:00 AM	PA	950084	15	5200 FRANKFORD AVE
01/01/2012 12:27:00 AM	PA	1109178	06	900 SPRINGG



The open data team works to provide tools to help departments keep data up-to-date automatically and provide it in consistent, useful formats.

# Goal 4: Make it really easy to discover and access data

## Consolidated Data Portal

OpenDataPhilly

Datasets Organizations Topics About Q

### Your source for open data in the Philadelphia region

OpenDataPhilly is a catalog of open data in the Philadelphia region. In addition to being the official open data repository for the City, it includes data sets from many organizations in the region.

Search data

Get started by searching from 262 datasets that cover all dimensions of Philadelphia, from city council districts to park locations.

Browse by Topic

- Arts / Culture / History
- Budget / Finance
- Economy
- Education
- Elections / Politics
- Environment
- Food
- Health / Human Services
- Parks / Recreation
- Planning / Zoning
- Public Safety
- Real Estate / Land Records
- Transportation
- Uncategorized

## Metadata Catalog

Metadata Catalog

Datasets Manage Reports

search by keyword search

Showing 1-100 of 651 add filter export 100 per page Page 1 of 7 < >

Name	Department	Description	Total Representations	Details
311 Service Requests	Philly311		1	<a href="#">view</a>
Abatements Paid (Partial)	Licenses and Inspections	Abatement work that has been paid for at Revenue and shared with L&I. These are only for bills that have a barcode at the bottom that Revenue can scan when processing payments. Revenue sends a file back including which bills have been paid - these are updated in Hansen Bills with scan lines only	0	<a href="#">view</a>
Absentee Ballot Results	City Commissioners Office	This data set includes the election results of voters who voted by Absentee Ballot in a particular election. This data can be broken down at various geographic levels. Internally, this data is used to calculate the overall election results. Externally, this data can be used for preparation for future elections to target voters.	0	<a href="#">view</a>
Absentee Ballots Requested/Returned	City Commissioners Office	This data set is a collection of names and numbers of individuals who requested and/or returned Absentee Ballots in a particular election. This data can be broken down at various geographic levels. Internally, the data is used to keep track of how many absentee ballots are being processed. The level of interest in absentee ballots may be an indication of the expected turnout for Election Day. Externally, campaigns may be interested in this data to	0	<a href="#">view</a>
Accessibility of Polling Places	City Commissioners Office	This data set is a collection of the accessibility designations for each polling place. The data includes the designation for both the building and parking. Internally, this data is used to identify polling places that need to be made more accessible and is reported to the state. Externally, it can be used by campaigns to make efforts to help their voters at the polls if the polling place isn't fully accessible	0	<a href="#">view</a>
Acting Out of Rank Time	Fire Department	Hours logged by the field offices during roll call for any individual who may be taking the place of someone else of another rank (out of their usual pay class) for a certain period of time. These numbers are then printed out and re-entered into OTL by Fire's Central HR.		<a href="#">view</a>
Active Flashers	Streets Department	Attribute for street pole data.	0	<a href="#">view</a>
Active Residential Parking Permits by District	Philadelphia Parking Authority		1	<a href="#">view</a>
Active Smoke Alarm Requests	Fire Department	Parcels layer for active smoke alarm requests		<a href="#">view</a>
Administrative Hearing Schedule	Licenses and Inspections	Log of when cases of employee wrongdoing were heard.	0	<a href="#">view</a>



# OPEN BUDGET

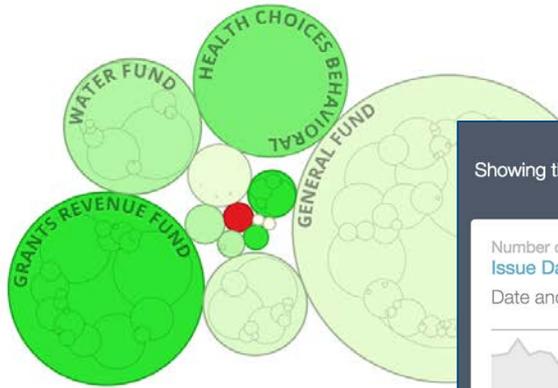
OVERVIEW

ABOUT

BUDGET PROCESS

FAQ

## Funding Sources



FUNDING SOURCE	FY 2015	FY 2016
General Fund	3,865,320,415	3,954,961,000
Grants Revenue Fund	1,273,444,855	1,558,634,000

CITY OF PHILADELPHIA

FEEDBACK

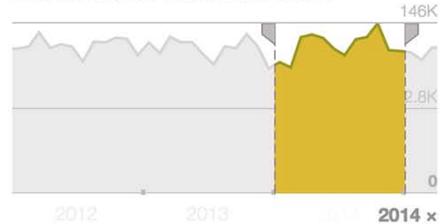
Showing the number of rows where issue date and time is 2014 January 01 to 2015 January 01

Clear All x

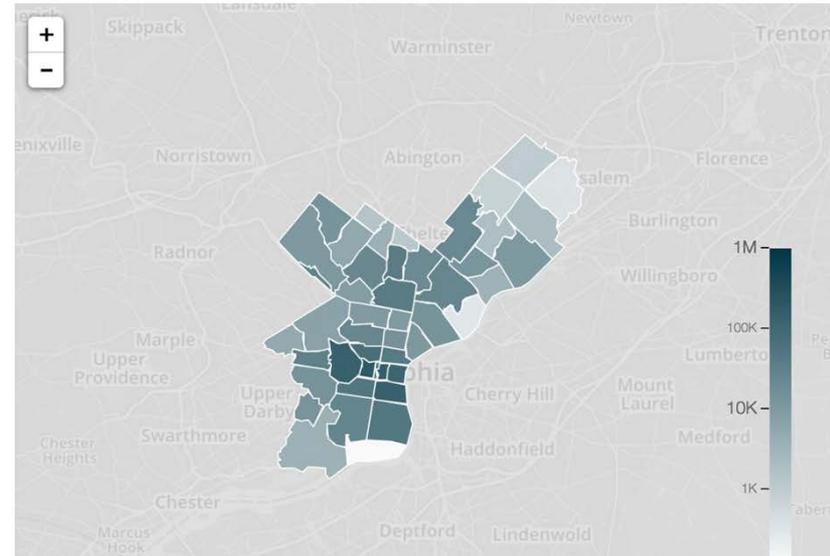
by the Number of Rows v

Number of rows by Issue Date and Time

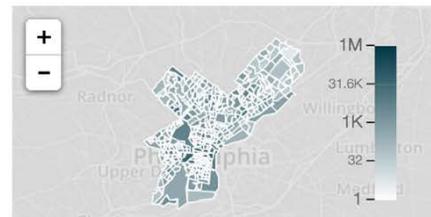
Date and time the violation was written.



Number of rows by Zipcodes

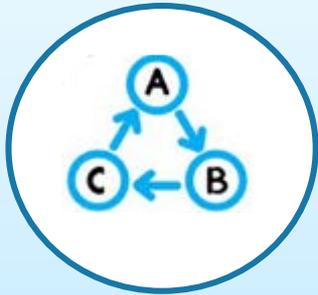


Number of rows by Census Tracts 2010 - 2013



# Tools created using open data: Open Budget and Data Mapping

## Strengths



**Formal Process:**  
*Established formal process for data gathering releases*



**Growing Community:**  
*Increased the number of stakeholders, both internally and externally that support open data*



**Passionate Team:**  
*Recruited an engaged staff that is mission aligned*

## Key Challenges



***Public awareness:***  
Broadening the user base so that value is created from data releases



***Internal adoption of new resources:***  
Conveying the benefits and training department staff to use the new tools and data available



***Legacy systems:***  
Requiring time-consuming methods for extracting data from systems not built with sharing in mind

# OPEN DATA



## What's on the Horizon



- Goal 5: Enable data-driven decision making through shared data
- Goal 6: Improve data at capture point
- Goal 7: Build a new phila.gov that's consistent, pleasant, accessible & efficient

**We will continue to work on major individual data releases, cataloguing other departments and batch data releases**

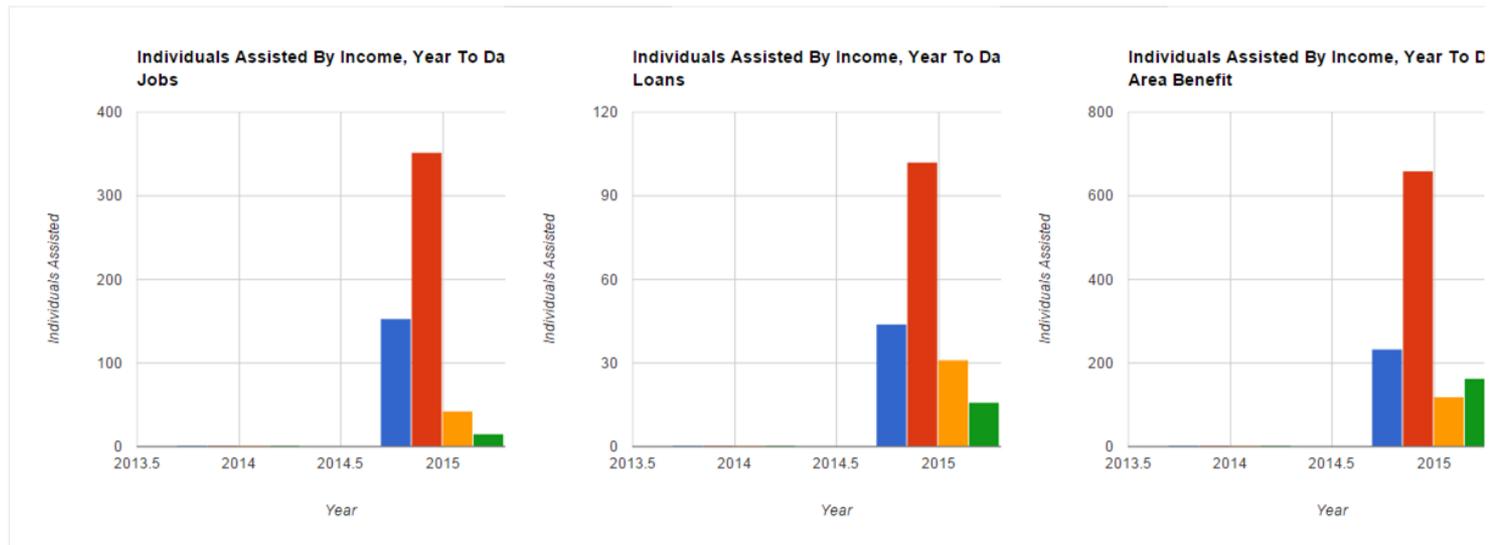
# Goal 5: Enable data-driven decision making through shared data

## Commerce Reporting Dashboard

 Search this site

[SUBMISSION DETAILS](#)
[Goals & Results >](#)
[GOALS & RESULTS](#)
[JOBS CREATED & RETAINED](#)
[INCOME ANALYSIS](#)
[ETHNICITY ANALYSIS](#)
[PROGRAM SERVICES](#)
[FUNDING SOURCES](#)
[CONTACT INFORMATION](#)
[HELP!](#)
[SITEMAP](#)

### Income Analysis



The above charts represent outcomes produced by grant recipients for the Business Technical Assistance Program.

## Goal 6: Improve data at capture point

Year	GDP	Unemp	Inflation	Educ	Interest
1990	87.22734	0.887689	2.508076	19.89628	8.441063
1991	11.24587	0.844188	2.173383	1.798444	0.225278
1992	64.82791	0.466315	1.046903	2.588296	1.531252
1993	2.937515	0.98675	0.171763	14.8177	9.709836
1994	48.09707	0.351515	1.955878	4.350005	9.232408
1995	35.65648	0.232909	1.522601	19.12878	8.878299
1996	27.24526	0.377362	1.298855	16.31628	1.27903
1997	10.26289	0.217481	0.860224	2.433343	4.359705
1998	36.16523	0.674297	0.710039	0.840982	5.249787
1999	36.32815	0.816626	2.58102	6.903022	5.375448
2000	7.435708	0.820821	0.299542	3.193834	9.300876
2001	33.4325	0.525407	0.038374	9.20093	9.860449
2002	47.02787	0.306739	1.757498	11.77199	8.771937
2003	47.99614	0.415496	0.879515	17.5177	0.085302
2004	14.36644	0.281036	2.456446	11.43982	3.62286
2005	18.3184	0.441486	1.787424	0.941948	2.442773
2006	56.62374	0.526093	1.78953	15.33283	0.826348
2007	69.50197	0.00581	1.376822	16.42801	3.518401
2008	40.17541	0.221693	1.75673	9.949014	1.468737
2009	6.052268	0.339749	2.879744	3.890405	1.762614
2010	58.34908	0.678986	1.447465	15.57468	0.888047

```

SAHMU37 LV10015 *IDMS40* U.C. San Diego *IDMS40* 12/13/00 2:16 P
DEVBLII TRANSREQ : TRANSCRIPT REQUEST MAINT.

PID: 000 04 0721 anborg, Ingvar Alstad TRANS HOLDS : 0
REQUEST NUMBER: 0014 PRIOR RECDRD: 0

ACTION (ACOP): P ← ST LV 1ST LAST
UN FAG9 SP01

STUDENT LEVEL(S): III _ _ _ _ TYPE : 0
NUMBER REQUESTED: 02 RECEIPT # :
DATE REQUESTED : 12/13/00 DATE PRODUCED: 12/13/00
DELAY UNTIL:
TO : Carol testing
PID/EIO : ADDR TYPE:
ADDRESS 1: 55555 5th Avenue - Suite 555
ADDRESS 2:
ADDRESS 3:
ADDRESS 4:
CITY/STATE/ZIP: San Diego CA 92101 COUNTRY: US
HOLD OVERRIDE: USERID: DEVBLR
COMMENTS:
TRANSCRIPT PRINT HAS BEEN INITIATED. ←
NEXT SCREEN: RESPONSE: ←
  
```

The “capture point” is when a user inputs data. In many cases this is still manual and could be paper based.

# Goal 7: Build a new phila.gov that's consistent, pleasant, accessible & efficient

**THIS SERVICE IS IN ALPHA**

This is a work in progress. It may contain errors and inaccuracies. Help us improve it by providing feedback.  
[Learn more »](#)

[PROVIDE FEEDBACK](#) 

[BACK TO CURRENT SITE](#) 



## What can we help you find?

e.g. Property Information, Department of Revenue, Water Billing



**REPORT A PROBLEM**



**PAY A BILL**



**FIND A JOB**



**PROPERTY SEARCH**

<p><b>BUSINESS</b> Tax information, payments, and starting a business</p> <p><b>HEALTH</b> Health centers, food protection, and insurance</p> <p><b>JOBS AND CONTRACTS</b> City Contracts and Job opportunities with the City and related agencies</p> <p><b>LEGAL</b> Law, court cases and fees, prisons and inmate support</p> <p><b>PAYMENTS AND TAXES</b> Taxes, bill and fee payments, assessments, violations, and refunds</p>	<p><b>PERMITS AND LICENSES</b> Permit applications, license registration, appeals, and problems</p> <p><b>PROPERTY AND HOUSING</b> Assessments, taxes, rentals, and violations</p> <p><b>PUBLIC SAFETY</b> Vehicle safety, emergencies, crime prevention and reporting, and victim assistance</p> <p><b>RECREATION</b> Parks, ice rinks, events, and programs</p> <p><b>STREETS AND UTILITIES</b> Water, sanitation, parking, and transportation</p>
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Visit [alpha.phila.gov](http://alpha.phila.gov) to view progress on the new website

## Recap

### Major Accomplishments:

- Released 227 datasets from 33 agencies
- Catalogued all 650+ unpublished datasets at 8 departments
- Established process for public to participate in data release prioritization
- Built infrastructure and capacity for sharing data easily and consistently
- Made it easier to discover and access data

### On the Horizon:

- Enable data-driven decision making through shared data
- Improve data at capture point
- Build a new phila.gov that's consistent, pleasant, accessible, and efficient

## Additional Public Resources

- [OpenDataPhilly.org](http://OpenDataPhilly.org)
- [Open Data Strategic Plan](#)
- [Data Inventory](#)
- [Open Data Census](#)



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