



E.T.L.

The underestimated requisite to being data-driven




Office of

Open Data & Digital Transformation



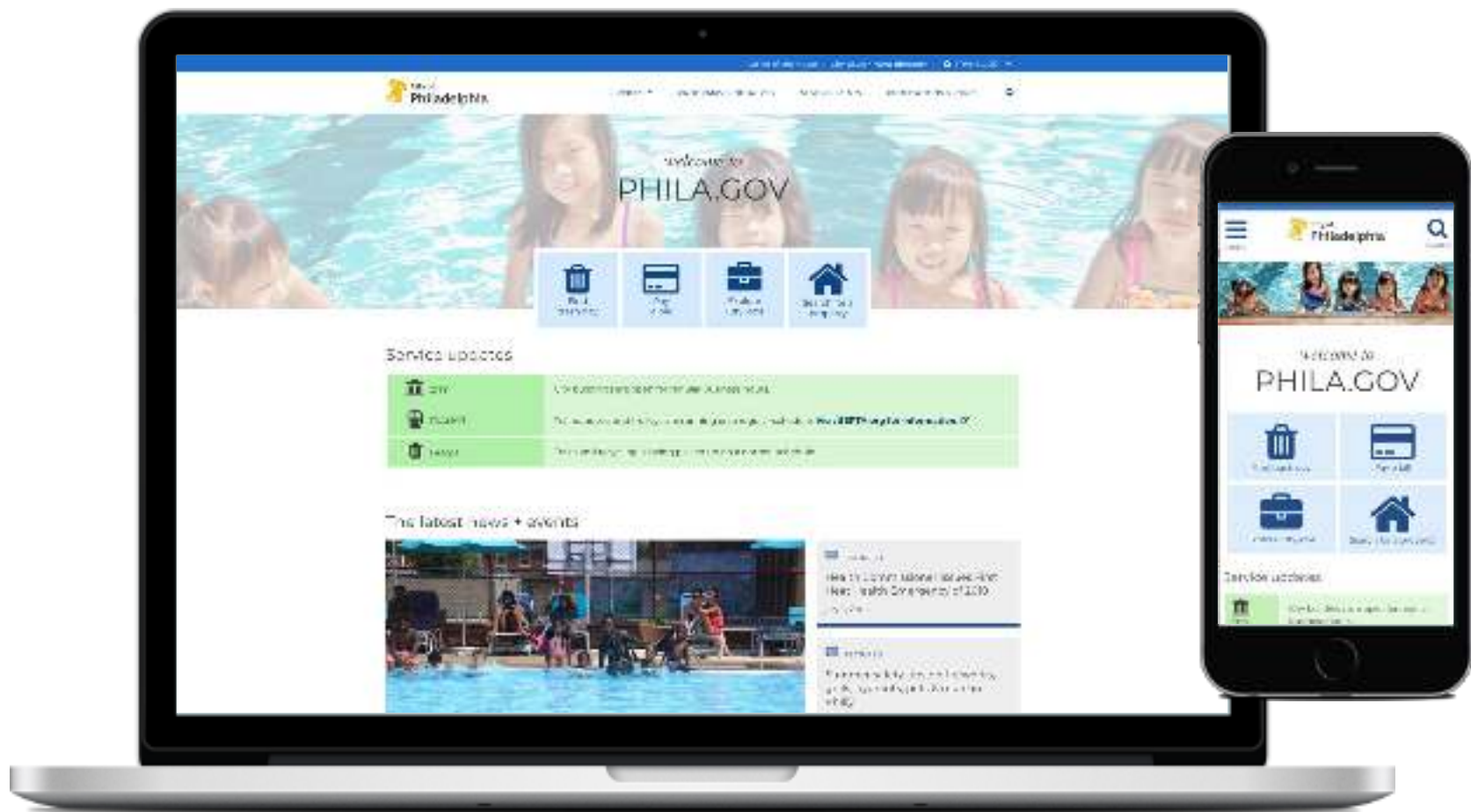
E.T.L.

The underestimated requisite to being data-driven

- 1 Overview of our office
 - 2 Background on open data
 - 3 Our journey to ETL
 - 4 Key takeaways
- 



Office of
Open Data &
Digital Transformation



welcome to
PHILA.GOV

- Recycling
- Pay bills
- Public library
- Buy a bus pass

Service updates

- City** - Construction workers are working on...
- Public** - The city will be conducting a public hearing on the...
- Library** - The city will be conducting a public hearing on the...

The latest news + events



Health
Health Commissioner announces new...
Health Commissioner of 2019

Events
Philadelphia's first ever...
Philadelphia's first ever...

City of Philadelphia

welcome to PHILA.GOV

- Recycling
- Pay bills
- Public library
- Buy a bus pass

Service updates

- City

Swim Philly

Providing low-cost, high-impact pool renovations and free activities for all ages at some Philly pools.



PHILADELPHIA
PARKS & RECREATION



About

To enliven neighborhood pools across Philadelphia, Swim Philly brings:

- Fun activities.
- Comfortable seating and lounges.
- Umbrellas and plants.

Swim Philly is happening at:

- **Pleasant Playground Pool** (6750 Boyer St., Mt. Airy)
- **O'Connor Pool** (2601 South St., South Philly/Center City)
- **Lee Cultural Center Pool** (4310 Haverford Ave., West Philly)

Connect



1515 Arch St.
10th floor
Philadelphia, PA 19102



(215) 683-3600

Permits, violations & licenses

[Appeal a denied residential parking spot for people with disabilities](#)

[Apply for a media permit](#)

[Apply for a wedding photo permit](#)

[Dispute a code violation notice](#)

[Dispute a parking ticket](#)

[Dispute an excess false alarm fine](#)

[Find out what license you need for your business](#)

[Get a building permit](#)

[Get a business or trade license](#)

[Get a Certificate of Occupancy](#)

[Get a gun license](#)

Apply for a wedding photo permit

You need a permit to take wedding, engagement, or other professional photos on **Philadelphia Parks & Recreation** property.

Popular locations include:

- Fairmount Water Works, including the gazebo.
- FDR Park Boathouse.
- The Philadelphia Museum of Art.
- The Rodin Museum.
- The Azalea Garden.

Who

Couples, groups, or individuals who want to take professional photographs on Parks & Rec land need a permit.

Where and when

You must apply for a permit by mail.

Filed or emailed applications are not accepted.

Allow at least 24 hours for approval.

**Co-creating
prevention, diversion,
and intake service
improvements with
staff, service partners,
and people
experiencing
homelessness**

Participant interviews: Current state worksheet
[redacted]

Annoying	Confusing	Not secure
Approachable	Convenient	Overwhelming
Boring	Engaging	Personal
Busy	Empowering	Responsive
Clear	Friendly	Time-consuming
Comfortable	Frustrating	Trustworthy



Building a service design practice

Evaluation lens



People

- + Context & history
- + Mindset and bias
- + Motivations
- + Needs
- + Power dynamics



Process

- + Digital & analog workflows



Information

- + Content and quality of information communicated across channels



Channels

- + Digital
- + Paper
- + Phone
- + Physical space
- + Person to person



Infrastructure

- + Policy
- + Funding sources
- + Human resources
- + Physical infrastructure
- + Tech infrastructure



End-to-end service improvements



Open Data

```

- {
  - geometry: {
    - coordinates: [
      -75.16376,
      39.93378
    ],
    type: "Point"
  },
  - properties: {
    addressStreet: "1401 John F. Kennedy Blvd.",
    addressCity: "Philadelphia",
    addressState: "PA",
    addressZipCode: "19102",
    bikesAvailable: 14,
    closeTime: "25:00:00",
    docksAvailable: 11,
    eventEnd: null,
    eventStart: null,
    isEventBased: false,
    isVirtual: false,
    kioskId: 1004,
    kioskPublicStatus: "Active",
    name: "Municipal Services Building Plaza",
    openTime: "00:00:00",
    publicText: "",
    timeZone: "Eastern Standard Time",
    totalDocks: 25,
    trikesAvailable: 0
  },
  type: "Feature"
}

```

fiscal_year	fund	department	class_id	class	minor_da	minor_class	total
2016	General Operating Fund	City Council	1	Personal Services	100	Salary Control	\$100,000.00
2016	General Operating Fund	City Council	1	Personal Services	101	Perm Full Time-civilian	\$13,939,858.0
2016	General Operating Fund	City Council	1	Personal Services	111	Perm Part Time	\$195,000.00
2016	General Operating Fund	City Council	1	Personal Services	121	Temporary Seasonal	\$75,000.00
2016	General Operating Fund	City Council	2	Purchase of Services	201	Cleaning and Laundry	\$485.00
2016	General Operating Fund	City Council	2	Purchase of Services	202	Janitorial Services	\$2,500.00
2016	General Operating Fund	City Council	2	Purchase of Services	209	Telephone	\$2,000.00
2016	General Operating Fund	City Council	2	Purchase of Services	210	Postage	\$150,000.00
2016	General Operating Fund	City Council	2	Purchase of Services	211	Transportation	\$10,000.00
2016	General Operating Fund	City Council	2	Purchase of Services	216	Commercial Off-shelf Cr	\$10,000.00

Category Code	Description	Building Code	Building Code Description	State Code	Zoning
COMMERCIAL		V80	SCHOOL 2 STY MASONRY	9407	RSA2
VACANT LAND		SD	VACANT LAND COMMER ACRE-	4303	CMX4
VACANT LAND		SD	VACANT LAND COMMER ACRE-	4303	CMX4
VACANT LAND		SD	VACANT LAND COMMER ACRE-	4303	CMX4
VACANT LAND		SD	VACANT LAND COMMER ACRE-	4303	CMX4

Number of rows by
Issue Date and Time

Date and time the violation was written.





pennsylvania

OFFICE OF OPEN RECORDS

STANDARD RIGHT-TO-KNOW REQUEST FORM

DATE REQUESTED: _____

REQUEST SUBMITTED BY: E-MAIL U.S. MAIL FAX IN-PERSON

REQUEST SUBMITTED TO (Agency name & address): _____

NAME OF REQUESTER : _____

STREET ADDRESS: _____

CITY/STATE/COUNTY/ZIP(Required): _____

TELEPHONE (Optional): _____ EMAIL (optional): _____

RECORDS REQUESTED: **Provide as much specific detail as possible so the agency can identify the information.
Please use additional sheets if necessary*

DO YOU WANT COPIES? YES or NO

DO YOU WANT TO INSPECT THE RECORDS? YES or NO

DO YOU WANT CERTIFIED COPIES OF RECORDS? YES or NO

**** PLEASE NOTE: RETAIN A COPY OF THIS REQUEST FOR YOUR FILES **
** IT IS A REQUIRED DOCUMENT IF YOU WOULD NEED TO FILE AN APPEAL ****

FOR AGENCY USE ONLY

RIGHT TO KNOW OFFICER:

DATE RECEIVED BY THE AGENCY:



Athenæum of Philadelphia

The Athenæum of Philadelphia is an independent member-supported library and...

2 Datasets



Azavea

Azavea is a civic technology firm based in Philadelphia. Azavea applies...

4 Datasets



City of Philadelphia

Explore open data from the City of Philadelphia and learn more about the...

209 Datasets



Bicycle Coalition of Greater Philadelphia

The Bicycle Coalition promotes cycling advocacy, healthy living and healthy...

1 Dataset



Buy Fresh Buy Local PA

Buy Fresh Buy Local® Pennsylvania is your guide for locating farm fresh...

1 Dataset



Committee of Seventy

The Committee of Seventy fights for clean and effective government, fair...

1 Dataset



Councilmatic

Subscribe, follow up to...

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 363 datasets that cover all dimensions of Philadelphia, from city council districts to park locations.

Browse by Topic



Arts / Culture /
History



Basements



Boundaries



Budget / Finance



Economy



Education



Elections / Politics



Environment



Food



Health / Insurance



Parks / Recreation



Planning / Zoning



Public Safety



Real Estate / Lease



Transportation



Unclassified



Why open data

1 Improves transparency and accountability

2 Drives business

3 Enable data-driven decisions

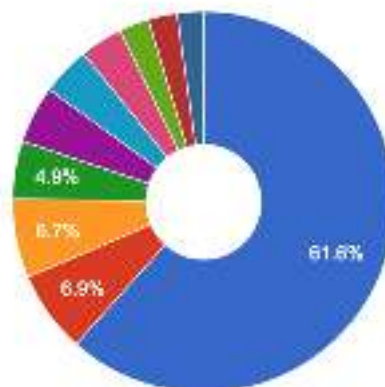
4 Empowers and informs

5 Drives civic engagement



CONTRACTS BY VENDOR

- PECO ENERGY CO
- MCI COMMUNICATIONS SERVICES INC
- MOTOROLA SOLUTIONS INC
- SOUTHEASTERN PA TRANSPORTATION AUTHORITY
- ELLIOTT LEWIS CORP
- MANSFIELD OIL COMPANY OF GAINSVILLE INC
- A P CONSTRUCTION INCORP...
- JAMES J ANDERSON CONST...
- CARLSONE CONSTRUCTION...
- SERAWALLI INCORPORATED



TOP 20 CONTRACTS BY CONTRACT AMOUNT

Show 10 entries

Search

Department	Vendor	Type	Description	Contract Amount	Payments
SS&E	PECO ENERGY CO	SSE	03/95 F INTSL VIEW/CALL SY-RQXX07002606	\$867,866,082.00	\$5,178,793.57
SS&E	MCI COMMUNICATIONS SERVICES INC	SSE	MCI COMMUNICATIONS SERVICES INC Bid # 58254730	\$97,860,337.00	\$1,942,761.58
SS&E	MOTOROLA SOLUTIONS INC	SSE	DESIGN & IMPLEMENTATION OF 800	\$88,160,000.00	\$51,095.60



Choose a district

North

Choose a category

Mental Health and Substance Abuse

Mental Health and Substance Abuse

5.200

Suicide Mortality Rate per 100,000 People

Description:

Age-adjusted rate of deaths by intentional self-harm per 100,000 persons.

Note:

Data include deaths of residents who were outside of Philadelphia.

Source:

Medical Examiner's Office, Philadelphia Department of Public Health | 2016

26.4%

Adults with Diagnosed Mental Health Condition

Description:

Percentage of adults answering "yes" to the question, "Have you ever been diagnosed with any mental health condition, including clinical depression, anxiety disorder or bipolar disorder?"

Note:

Two years of Behavioral Health Survey (2012 and 2014-15) were combined to provide more reliable estimates by increasing sample size; these numbers are not directly comparable with previous estimates.

Source:

Public Health Management Corporation (PHMC), Behavioral Health Survey | 2012-2015

44,100

Opioid-Related Mortality Rate per 100,000 People

Description:

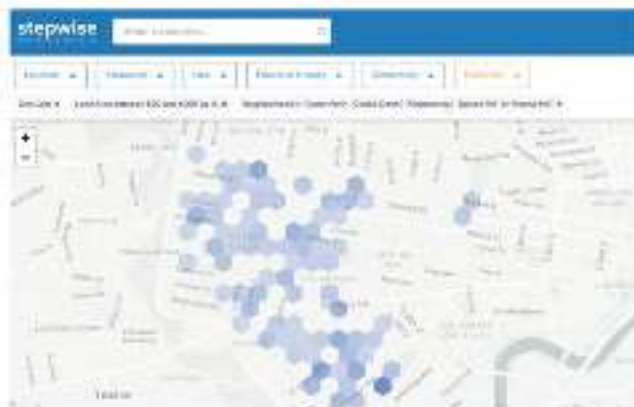
Rate of deaths per 100,000 persons that were determined by the medical examiner to be caused by drug/medication overdose and for which a toxicology test was positive for an opioid.

Note:

Data include heroin, morphine, methadone, buprenorphine, and all pharmaceutical opioids such as oxycodone, hydrocodone, and hydrocodone. Data include deaths of residents who died outside of Philadelphia.

Source:

Medical Examiner's Office, Philadelphia Department of Public Health | 2016



Find Investment Opportunities

Easily discover properties that meet your investment criteria anywhere in **Philadelphia, Baltimore, and DC**. Save yourself hours of research by having the information you need in one place.

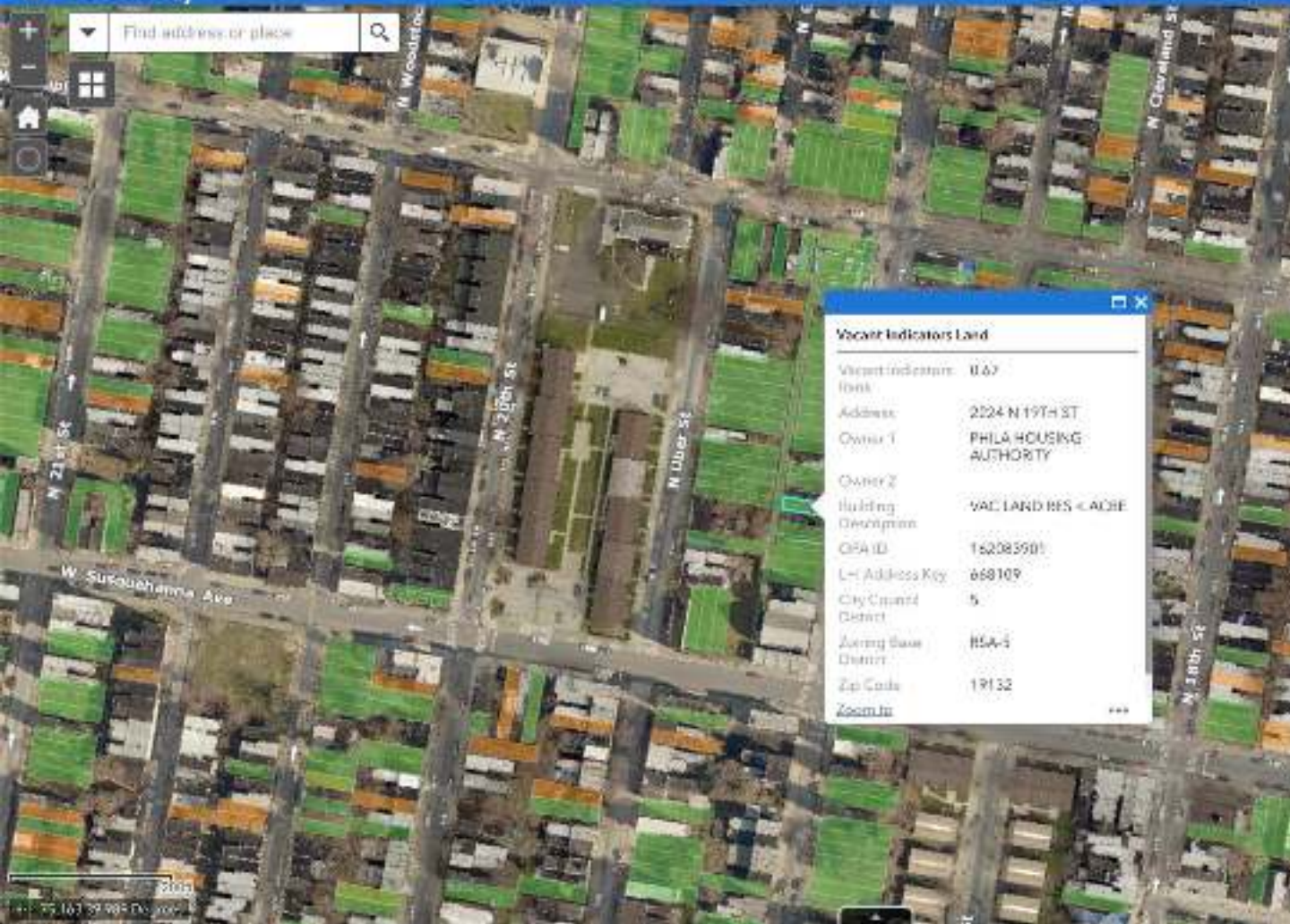
[Request a Demo](#)

Generate Comprehensive Reports

Whether you're an agent trying to make a compelling sale, or a developer evaluating a deal, with Stepwise's Premium Reports, you can quickly access all of the information you need.

[View Sample](#)





About

This app displays the output of Philadelphia's Vacant Property Indicators Model, an analytical model developed by the City of Philadelphia Office of Innovation and Technology in cooperation with: Department of Licenses and Inspections, Office of Property Assessment, Philadelphia Land Bank and Philadelphia Water Department. The model aggregates multiple city administrative and geographic data sources selecting for indicators of potential building or land vacancy for each tax parcel boundary* in the city.

There are several output datasets of the model:

- [Land Vacancy Rank](#)
- [Building Vacancy Rank](#)
- [Combined Vacancy Percentage by Block](#)

For best viewing, only display one layer in this map at a time.

For more information about the vacancy datasets, visit [Philadelphia's Metadata Catalog](#) or click on the dataset above for direct link to that layer's metadata page.

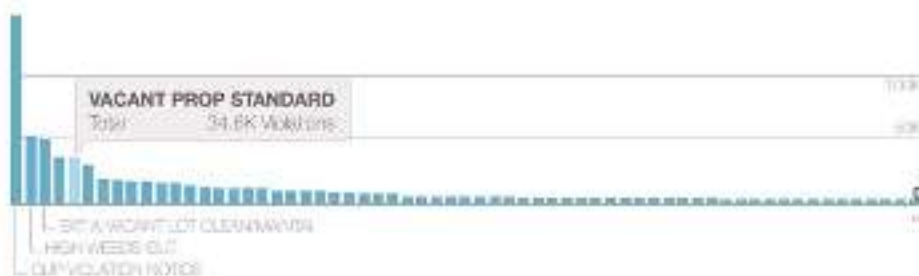
If you would like to report a vacant building in your neighborhood, please submit a request to Philly 311 using their [website](#) or mobile application.

*The Vacant Property Indicators Model uses Philadelphia Water Department's tax parcel boundary dataset. Block layers were developed by merging contiguous parcel boundaries from this dataset.

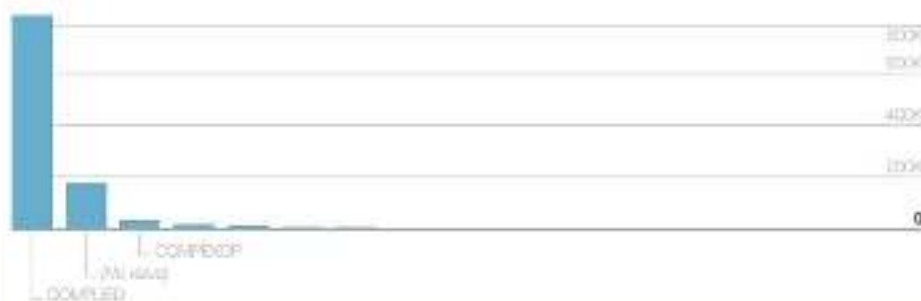
For additional information, email caspe@phila.gov

Number of Violations by Violation Description

The description of the type of violation.



Number of Violations by Status



Address

Search



Type some text and press Enter to search.
(Example: "1040 S GARTH ST" or "106 E JOHNSON ST")

Number of Violations by Location — Planning Districts



Owner Name

The contact that is identified as the current owner of the address.

norman



Showing the first 10 suggestions:

- BEY NORMAN
- COOPER NORMAN
- DYM NORMAN
- FEDL SIMON REBE NORMAN
- GOODMAN NORMAN
- HODO NORMAN

Feedback

Showing all 1,053,203 Violations

Violation Description	Case Number	Case Type	Address Key	Address	Unit	Zip Code
MINISTRATIVE -ID BARRICADES	249913	CD ENFORCE	48666	2018 W OXFORD ST		19121-40
MINISTRATIVE -ID BARRICADES	423969	CD ENFORCE	57710	709 W BUTLER ST		19140-32

228 MANTON ST # 34243

📧 Appeal

ADDRESS
228 MANTON ST

APPEAL #
34243

TYPE
RB_ZBA

PERMIT APPLICATION #
855075

APPLICATION DESCRIPTION
APPEAL AGAINST L&I PERMIT 855075

PRIMARY APPLICANT
FRANK LACEY

📅 History

DECISION HISTORY

Date	Decision	Notes
09/25/2018	CONTINUED	
08/21/2018	CONTINUED	

📅 Hearing

DATE
Oct 23, 2018

TIME
09:30 AM

ZONING BOARD OF ADJUSTMENT
1515 Arch Street, 18th Floor
215-686-2429 or 215-686-2430

LOCATION HISTORY: 228 MANTON ST ↗



1401 WALNUT ST # A

Philadelphia, PA 19102-3128

Address

1234 Market St

Unit #



OWNER

14 WA PARTNERS LP

MAILING ADDRESS

14 WA PARTNERS LP
SUITE 300
110 S 19TH STREET
PHILADELPHIA PA
19103

REAL ESTATE TAX BALANCE

Real Estate Tax account balances have not yet been added to this application.

[VIEW THE TAX BALANCE](#)

VALUATION HISTORY

Year	Market Value	Taxable Land	Taxable Improvement	Exempt Land	Exempt Improvement
2019	\$3,538,100	\$388,191	\$3,148,909	\$0	\$0
2018	\$925,400	\$101,794	\$823,606	\$0	\$0
2017	\$925,400	\$101,794	\$823,606	\$0	\$0
2016	\$925,400	\$185,080	\$740,320	\$0	\$0
2015	\$925,400	\$185,080	\$740,320	\$0	\$0
2014	\$925,400	\$185,080	\$740,320	\$0	\$0
2013	\$1,019,800	\$87,408	\$236,672	\$0	\$0


[See in Google Street View](#)

These maps are created for reference only and do not represent precise legal boundaries. For more information about deeds, please visit [Atlas](#).

OPA ACCOUNT

888058990

HOMESTEAD EXEMPTION

No

DESCRIPTION

COM CONDO 10-14 STY MASON

CONDITION

Average

BEGINNING POINT

LAND AREA (SQFT)

0

IMPROVEMENT AREA (SQFT)



19,600



View Election Results

Choose an Election and other criteria below to display selected election results to the right. Results can be viewed as a list, a map, a bar, or a pie chart.

Election :

2015 Primary  


Office :

MAYOR-DEM 

Ward :

All 

Division :



Vote Type :

All 

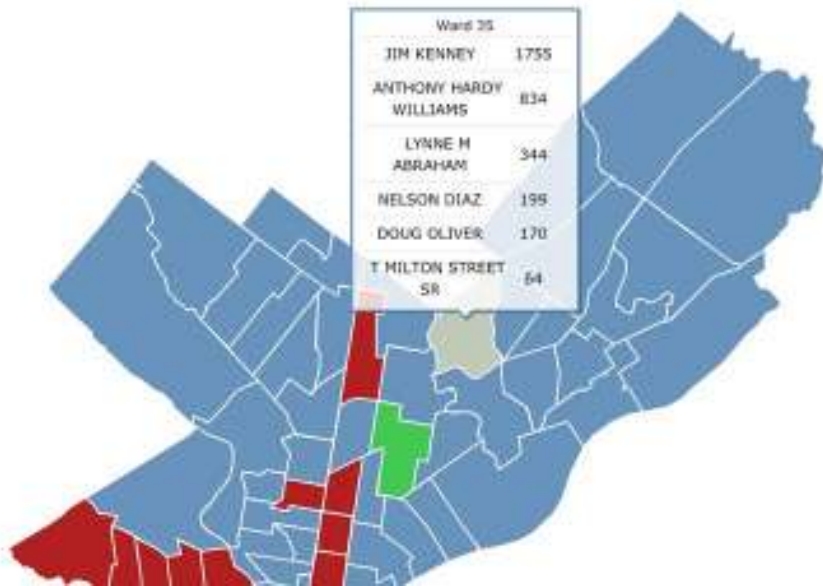
SUBMIT

2015 PRIMARY MAYOR-DEM

VIEWS:     

ACTIONS:  

District Wide Results



CRIME MAPPER

View serious crimes in your neighborhood.

📍 LOCATION

Draw a box

around your neighborhood.

📅 SELECT DATE RANGE

Last 7 Days

Last Month

Last 6 Months



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Crime Maps & Stats

CRIME MAPPER

View serious crimes in your neighborhood.

LOCATION

Draw a box around your neighborhood.

SELECT DATE RANGE

Last 7 Days Last Month Last 6 Months



Current Crime Stats

The homicide statistics for 2013 represent the daily count (statistics reflect the accurate count during normal business hours, Monday through Friday) and year-to-date total for victims of homicide and are subject to reclassification according to the rules and regulations of the FBI's Uniform Crime Reports (UCR) guidelines. The homicide statistics above for years 2012, 2011, 2010, 2009, 2008 and 2007 have been submitted to the FBI as the final UCR numbers for the City of Philadelphia.

Crime Fighting Strategy

The Department employs a diverse and effective set of crime fighting strategies to accomplish our mission. The strategies are based on the guiding principles and our understanding of the nature and extent of crime in Philadelphia and on the needs and aspirations of the community.



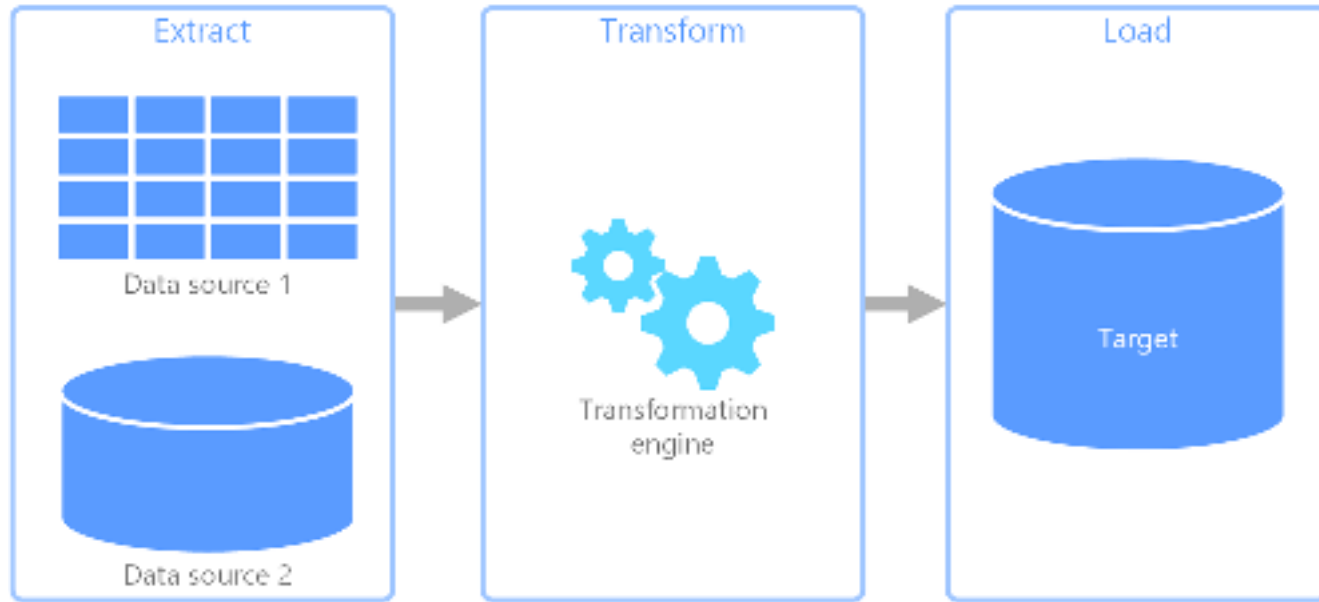
Our journey to E_{xtract} T_{ransform} L_{oad}

Voter registrations

	A	B	C	D	E	F	G
1	ward	division	total	dem	rep	ind	other_party
2	1	1	471	327	49	8	87
3	1	2	574	424	64	5	81
4	1	3	640	472	76	9	83
5	1	4	611	431	116	2	62
6	1	5	364	291	31	1	41
7	1	6	478	358	44	3	73
8	1	7	401	322	23	3	53
9	1	8	492	358	50	4	80
10	1	9	491	366	60	5	60
11	1	10	533	412	39	2	80
12	1	11	666	502	57	10	97
13	1	12	461	317	44	6	94

Voter turnout

	A	B	C
1	precinct_code	voter_count	political_party
2	101	2	INDEPENDENT
3	101	5	NO AFFILIATION
4	101	157	DEMOCRATIC
5	101	3	REPUBLICAN
6	102	187	DEMOCRATIC
7	102	1	UNAFFILIATED
8	102	5	NO AFFILIATION
9	102	11	REPUBLICAN
10	103	245	DEMOCRATIC
11	103	17	REPUBLICAN
12	103	7	NO AFFILIATION
13	103	1	INDEPENDENT



- Scheduling
- Validation
- Alerts

- Logging, debugging
- Hosting, scalability
- Maintenance



CityOfPhiladelphia / taskflow

Watch 5

Star 12

Fork 0

Code

Issues 11

Pull requests 0

Projects 0

Insights

An advanced yet simple system to run your background tasks and workflows

python

task manager

task scheduler

workflow management

workflow scheduler

aws

aws batch

cd

88 commits

1 branch

15 releases

2 contributors

MIT

Branch: master

New pull request

Find file

Clone or download

twm32 Bump version

Latest commit 5c86856 on Jan 2

example

README and examples (#3)

a year ago

taskflow

Fix *_thread refs

10 months ago

tests

Fail/Retry AWS Batch tasks with FAILED (#35)

a year ago

.github

Rest API (#10)

a year ago

LICENSE

Add License

a year ago

README.md

docs: add python syntax highlighting

a year ago

setup.py

Bump version

10 months ago

README.md

Taskflow

An advanced yet simple system to run your background tasks and workflows.

Features

- Recurring tasks (aka jobs) and workflow (a series of dependent tasks) with CRON-like scheduling



Takeaways

- 1 ETL is unavoidable
- 2 Build in-house competency
- 3 Consider it when investing in new systems
- 4 Leverage existing infrastructure and expertise



Thanks!

@timwis

tim.wisniewski@phila.gov