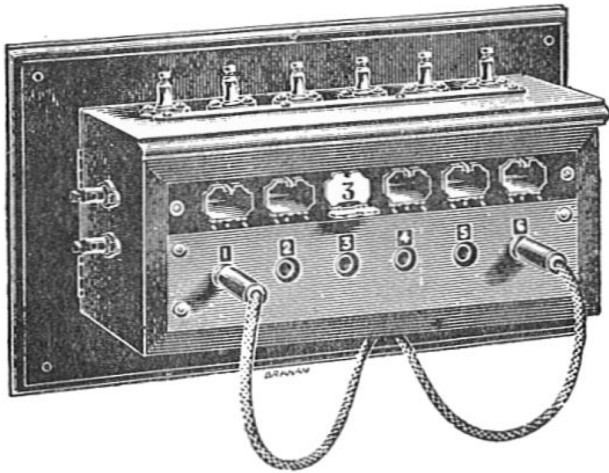


# Librarians as *Critical* Infrastructure

## in Civic Data Ecosystems

November 13th, 2018





**About Me**





# The Region's Open Data at Your Fingertips

Now serving 272 datasets and counting.

[Browse the Data!](#)

## Regional Data Center Performance Measures Dashboard

Our goal at the Western Pennsylvania Regional Data Center is to make community information easier to find and use. While...



### Data Beginners

New to open data, and looking to build your skills? We have [tutorials and other resources](#) that will help you get started.



### Data Wizards

Are you an experienced data user and looking to get the most out of open data? Check out our [FAQ's, API documentation, and other resources](#).



### Publishers

Do you already publish open data, or are you interested in becoming a publisher? We have assembled [everything you need to know](#) in one place.



### News

[Read](#) and [subscribe](#) to our newsletter, view our [blog posts](#), and visit us on [Twitter](#).



### Events

We maintain a [calendar](#) of civic technology and open data events, trainings, workshops, talks, and activities offered by us and a number of partners.



### Tools

Take a look at our growing [collection of tools](#) designed to help you visualize, access, and manipulate data.



### Contact Us

Please [let us know](#) if you have a question or want to share your work with us. We can also help you make a [data request](#).



[About](#) | [Contact Us](#) | [Terms](#) | [Privacy](#)

The Western Pennsylvania Regional Data Center supports key community initiatives by making public information easier to find and use. The Data Center provides a technological and legal infrastructure for data sharing to support a growing ecosystem of data providers and data users. The Data Center maintains Allegheny County and the City of Pittsburgh's open data portal, and provides a number of services to data publishers and users. The Data Center also hosts datasets from these and other public sector agencies, academic institutions, and non-profit organizations. The Data Center is managed by the University of Pittsburgh's Center for Social and Urban Research, and is a partnership of the University, Allegheny County and the City of Pittsburgh.



An NNIP Partner since 2008!

# Examples of Data Management Partnerships

# Metadata Consultation



## Metadata Information

Metadata Field	Value
ID	9e0ce87d-07b8-420c-a8aa-9de6104f61d6
Title	Allegheny County Property Sale Transactions
Number of Resources	7
Created Timestamp	June 18, 2015, 10:25 AM
Modified Timestamp	October 2, 2017, 9:26 AM
License	Creative Commons CCZero
Organization	<a href="#">Allegheny County</a>
Group/Topic	<a href="#">Housing &amp; Properties</a>
Department	Office of Property Assessments; Department of Administrative Services
Public Access Level Comment	Ordinance 3478-07 prohibits public access to search assessment records by owner name. Signed by the Chief Executive in 2007.
Temporal Coverage	2012-01-01/Most recent past month
Geographic Unit	Parcel (Block/Lot)
Data Notes	Property Sales are not required to be recorded within a specific time frame from the date of sale. Information is recorded at the discretion of the property owner and sales are not found in this data set until after recording is completed and supplied to Property Assessments.
Frequency - Data Change	Daily
Frequency - Publishing	Monthly
Data Steward Name	Mary Beth Snyder
Data Steward Email	LandHelp@AlleghenyCounty.us
State	active

# Data Management Plans

## **Data Management Plan** **Western Pennsylvania Regional Data Center** [www.wprdc.org](http://www.wprdc.org)

**Last updated 4/23/2018**

### **Introduction**

The Regional Data Center is managed by the University of Pittsburgh's Center for Social and Urban Research, and is a partnership of the University, Allegheny County and the City of Pittsburgh. The Regional Data Center provides an infrastructure for civic data sharing. This infrastructure has several dimensions, including: a technological infrastructure in the form of a community open data portal; a legal infrastructure for data exchange; a governance infrastructure for both data stored on the portal and the project itself, and an infrastructure for community engagement.

This plan describes basic data management practices and policies employed by the Regional Data Center. These practices are designed to enhance data quality, ensure proper

# Data Archiving and Preservation



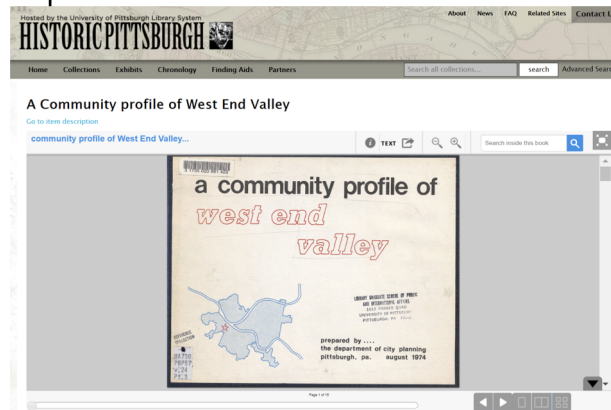
## Memory Lab DC public library

### Future Proofing Civic Data: Exploring the Challenges of Preserving Open Civic Data for the Long Term

A white paper presented by the Temple University Libraries  
Last Edited September 29, 2017

Project team: Joe Lucia, Dean of Temple University Libraries (PI); Rachel Appel, Digital Projects & Services Librarian; Delphine Khanna, Head of Digital Initiatives; Chad Nelson, Lead Technology Developer; Margery Sty, Director of the Special Collections Research Center; and Gretchen Sneff, Science and Engineering Librarian.

We are grateful to the Knight Foundation for the "Knight News Challenge on Libraries" grant that supported this project.

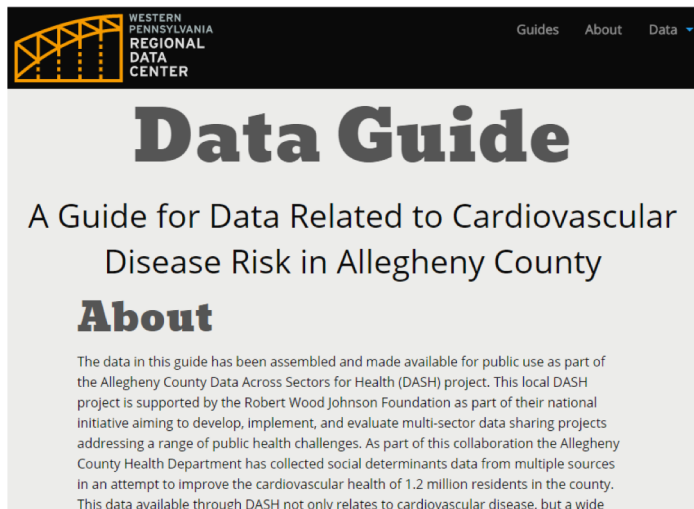




# Privacy Advice



# Context for Data with Guides or ReadMe



The screenshot shows the top of a web page for the Western Pennsylvania Regional Data Center. The header is black with a yellow bridge logo on the left and navigation links 'Guides', 'About', and 'Data' on the right. The main heading is 'Data Guide' in large, bold, black font. Below it is a subtitle: 'A Guide for Data Related to Cardiovascular Disease Risk in Allegheny County'. A section titled 'About' in bold black font follows, with a paragraph of text explaining the data's origin and purpose.

WESTERN PENNSYLVANIA REGIONAL DATA CENTER

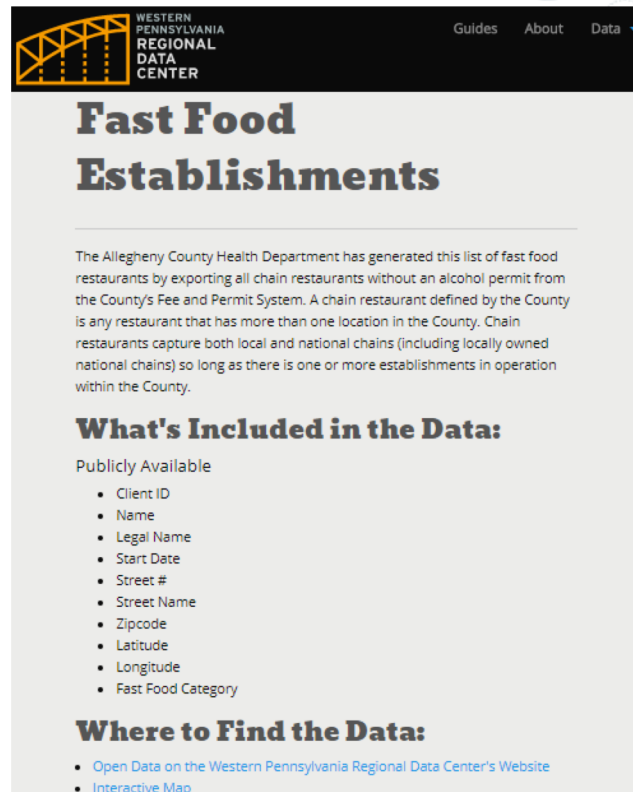
Guides About Data

## Data Guide

A Guide for Data Related to Cardiovascular Disease Risk in Allegheny County

### About

The data in this guide has been assembled and made available for public use as part of the Allegheny County Data Across Sectors for Health (DASH) project. This local DASH project is supported by the Robert Wood Johnson Foundation as part of their national initiative aiming to develop, implement, and evaluate multi-sector data sharing projects addressing a range of public health challenges. As part of this collaboration the Allegheny County Health Department has collected social determinants data from multiple sources in an attempt to improve the cardiovascular health of 1.2 million residents in the county. This data available through DASH not only relates to cardiovascular disease, but a wide



The screenshot shows a web page for the Western Pennsylvania Regional Data Center. The header is black with a yellow bridge logo on the left and navigation links 'Guides', 'About', and 'Data' on the right. The main heading is 'Fast Food Establishments' in large, bold, black font. Below it is a paragraph of text explaining the data's origin and purpose. A section titled 'What's Included in the Data:' in bold black font follows, with a sub-section 'Publicly Available' and a list of data fields. At the bottom, a section titled 'Where to Find the Data:' in bold black font is followed by two links.

WESTERN PENNSYLVANIA REGIONAL DATA CENTER

Guides About Data

## Fast Food Establishments

The Allegheny County Health Department has generated this list of fast food restaurants by exporting all chain restaurants without an alcohol permit from the County's Fee and Permit System. A chain restaurant defined by the County is any restaurant that has more than one location in the County. Chain restaurants capture both local and national chains (including locally owned national chains) so long as there is one or more establishments in operation within the County.

### What's Included in the Data:

Publicly Available


- Client ID
- Name
- Legal Name
- Start Date
- Street #
- Street Name
- Zipcode
- Latitude
- Longitude
- Fast Food Category

### Where to Find the Data:

- [Open Data on the Western Pennsylvania Regional Data Center's Website](#)
- [Interactive Map](#)




# Library as Publisher





**Carnegie  
Library of  
Pittsburgh**


Carnegie Library of  
Pittsburgh


To Engage our Community  
in Literacy and Learning  
Carnegie Library of  
Pittsburgh is supporting  
individual achievement and  
strengthening the power of  
community. Through the...  
[read more](#)

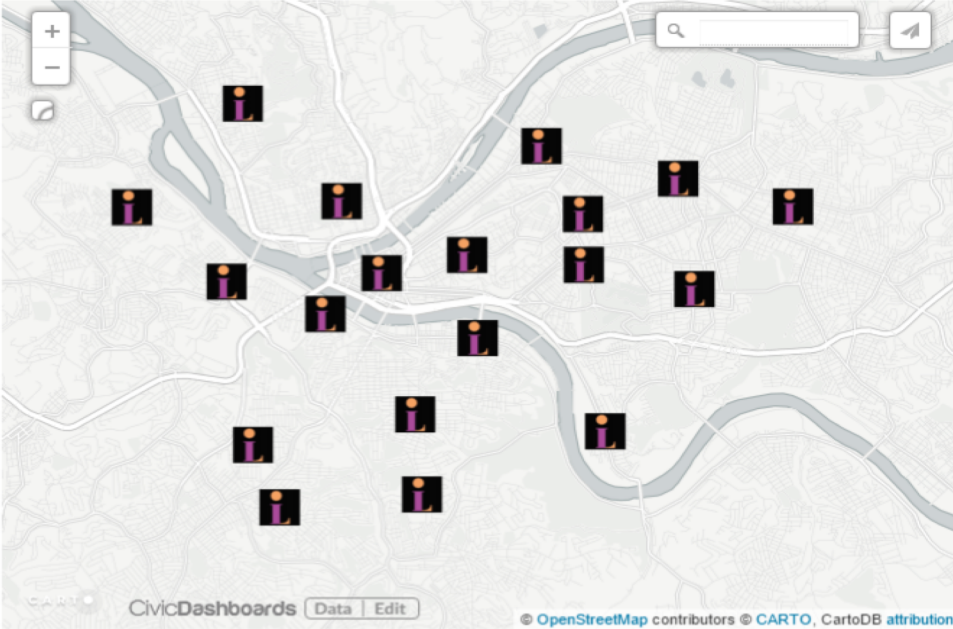
 Social

 Google+

 Twitter


 Facebook


 License







Map showing Carnegie Library locations in Pittsburgh, marked with the library logo. The map includes a search bar, zoom controls, and a legend. Attribution: © OpenStreetMap contributors © CARTO, CartoDB attribution

### Data and Resources

 **Library Locations**  
Carnegie Library of Pittsburgh locations as of June 20, 2016

 **Library Locations Data Dictionary**

 Preview  Download

 Preview  Download

# Examples of Community Engagement Partnerships

# Cultivating an Ecosystem

The collage illustrates the Chicago School of Data ecosystem through four key components:

- Whiteboard:** A central hub of ideas and projects, with sticky notes listing various initiatives like "CODE & Supply", "PublicSource", "Data Drinks", "Machine Learning", and "AlphaLab".
- Network Diagram:** A visual representation of the ecosystem's interconnectedness, showing nodes for organizations like "PublicSource", "Data Drinks", "City of Data", "GLP", "Create Lab", "NNIP", "DSS Workshop Series", "PrivacyCLP", "Code for People", "WPRO", "SUBS", "City of People", "GLP", "Create Lab", "NNIP", "Data Drinks", "PublicSource", "City of Data", "GLP", "Create Lab", "NNIP", "DSS Workshop Series", "PrivacyCLP", "Code for People", "WPRO", "SUBS", "City of People", "GLP", "Create Lab", "NNIP".
- Workshop:** A group of people collaborating at a table, working on a project, representing the hands-on learning and community building aspect of the ecosystem.
- Data Days CLE:** A poster for the event, held from April 5-6, 2018, in Midtown, featuring a stylized map of Chicago and the text "DATA DAYS CLE".

The Chicago School of Data is a regional ecosystem in the service of people, fostering a community of data professionals and enthusiasts.



# Cultivating an Ecosystem

The collage illustrates the concept of cultivating an ecosystem through various activities:

- Knowledge Organization:** A whiteboard with numerous yellow sticky notes and connecting lines, showing a structured yet flexible way to organize information.
- Digital Network:** A complex web of nodes and connections, representing a digital or conceptual network.
- Collaborative Work:** A group of individuals working together at a table, focused on documents and devices, demonstrating teamwork.
- Community Event:** A poster for "DATA DAYS CLE" held from April 5-6, 2018, in Midtown, featuring a cityscape background.

The **Chicago School OF Data** logo is prominently displayed, with the tagline: "A regional ecosystem in the service of people".



# Facilitate Community Conversations



## Your Voice Matters:

**You're Invited to a Public Meeting about  
Sensors, Privacy & Data in Chicago**

**WHAT:** Array of Things Public Meeting

**WHEN:** Tuesday June 14, 2016 | 5:30pm — 7:00pm

**WHERE:** 1805 S Loomis St. — Lozano Library

*The event will take place in the large meeting room*

Refreshments will be served.  
No technical experience or  
knowledge is required.  
ALL are welcome!

Learn more about Array of Things: [arrayofthings.github.io](http://arrayofthings.github.io)  
Sign up to get updates on this event: [bit.ly/ArrayofThingsMeetings](http://bit.ly/ArrayofThingsMeetings)

Hosted & sponsored by the

**Smart Chicago**  
COLLABORATIVE





# User Engagement and Feedback



# Provide a Home for Community Events

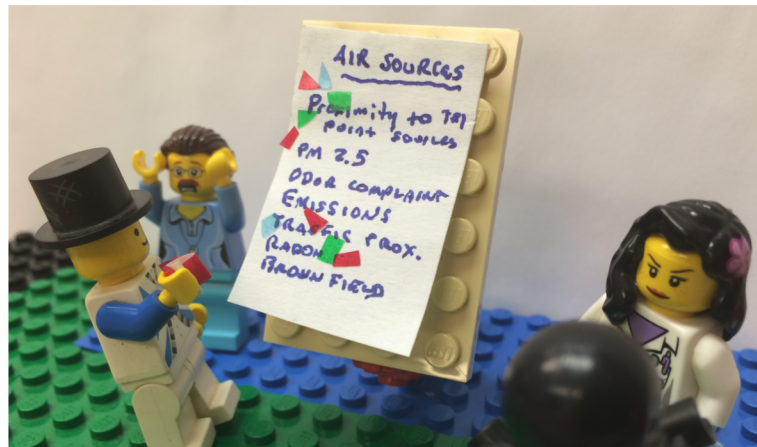
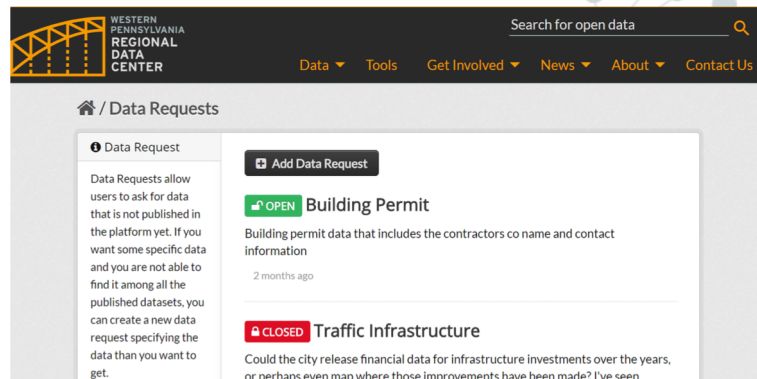
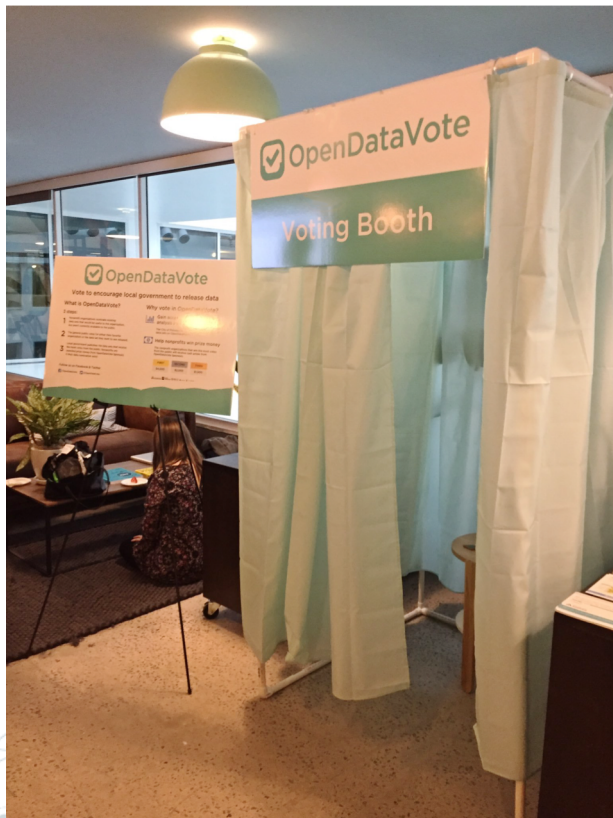


# Celebrate Data through a Data Day



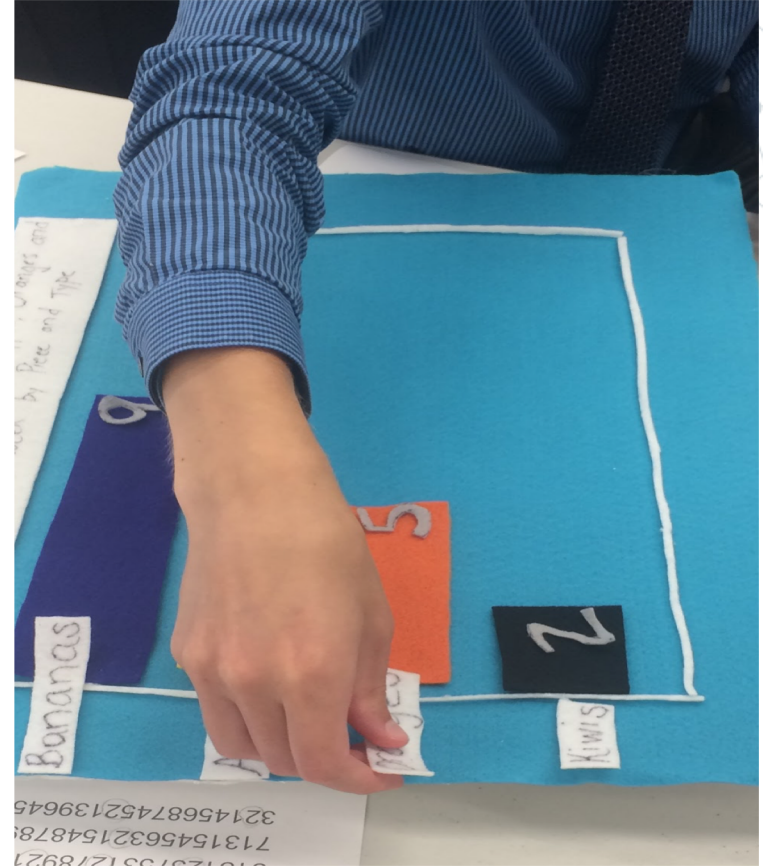


# Establish publishing priorities





# Data Literacy Training

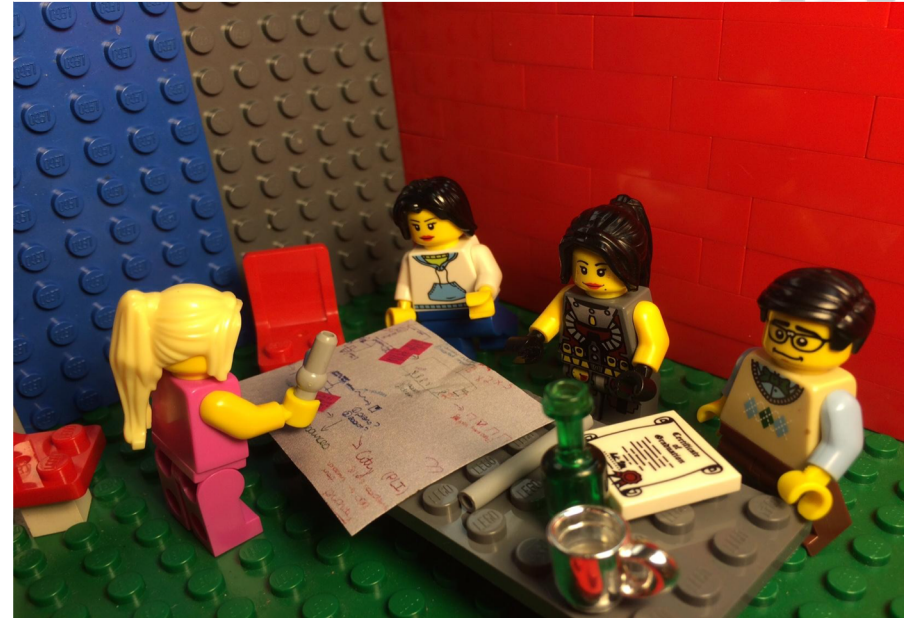


# Data Skills Training



- NNIP Microsoft Trainings
- Data/Library Carpentry
- Data SF
- Civic Data Ambassadors
- Individual workshops

# Technical Assistance





# Promotion - Social Media, Newsletter, Events Calendar, Flyers, Etc.

Data Day; "spooky" data social; open data + zines; blight data; open data about dogs; Petrochemical America; Weapons of Math Destruction recap; neighborhood profiles; Open Data in PA; Mona Chalabi; events, and more



Like this newsletter? [Sign up for our mailing list](#) or forward it to a friend.

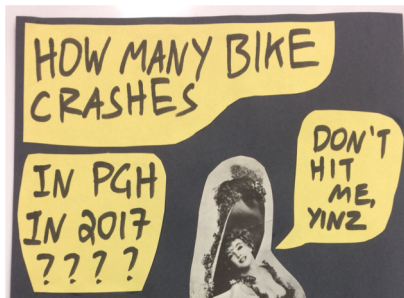
[View this email in your browser](#)

## Open Data & Civic Tech News #27: Data Day is almost here!

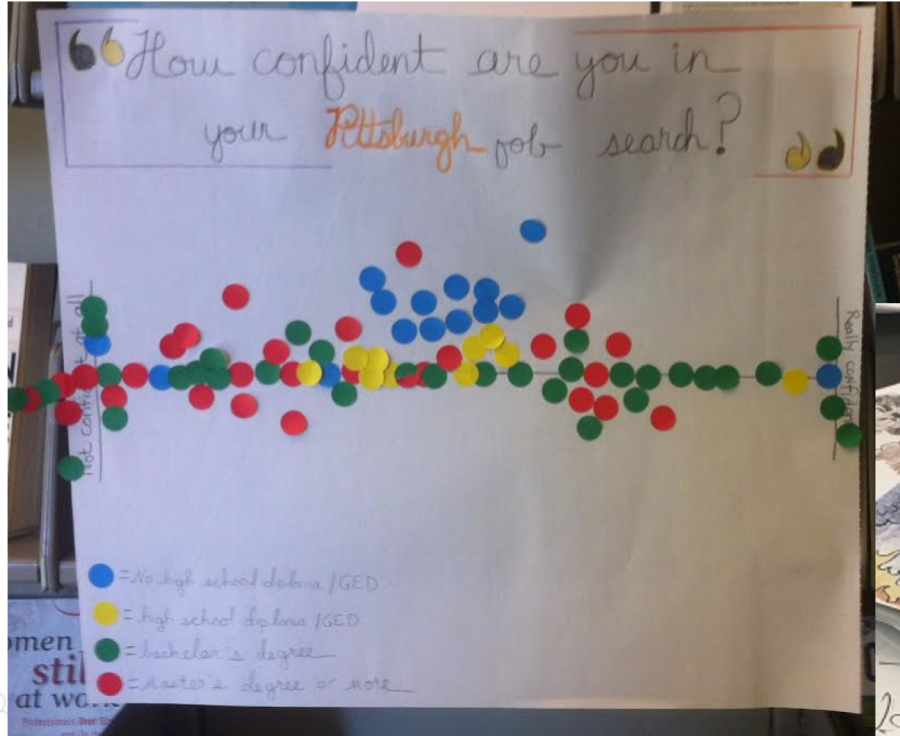
October 6, 2017

### News

- [Data Day](#) is almost here! Get ready for a day of hands-on activities on Saturday, October 21. Many exciting activities will be spread throughout the Carnegie Library in Oakland. You can learn more about political redistricting, see what you can do to help raise awareness of the 2020 Census, learn more about how Pittsburgh and Allegheny County are using data, and be inspired by data-themed art and music activities. We'll see you there. There may even be a [special quest](#)!
- If you're connected with the university community in Pittsburgh, join us in Hillman Library's Digital Scholarship Commons for a [social event on October 30](#) for spooky treats and to meet others that love data. Learn more about where to turn for data, and find inspiration for a project. You'll also be able to give a brief 3-5 minute lightning talk at the event where you can share your work, talk about data careers, pitch your club or a project idea, and tell your data story.
- In their [recent blog post](#), learn how the Carnegie Library of Pittsburgh and PublicSource encouraged teens to connect with data in this summer's zine camp. The zine camp was one of the projects the Library has sponsored to promote data literacy. The participants used the zines to share a personal story about data.



# Storytelling



Name		Area(s) of Research	
E-mail or @		Age	Zip Code
My Data is _____ years old. <small>(number)</small>		My Data lives in _____. <small>(place)</small> <small>*City, State, Region</small>	
I use my Data to _____. <small>(verb)</small>		I wish my Data could _____. <small>(verb)</small>	

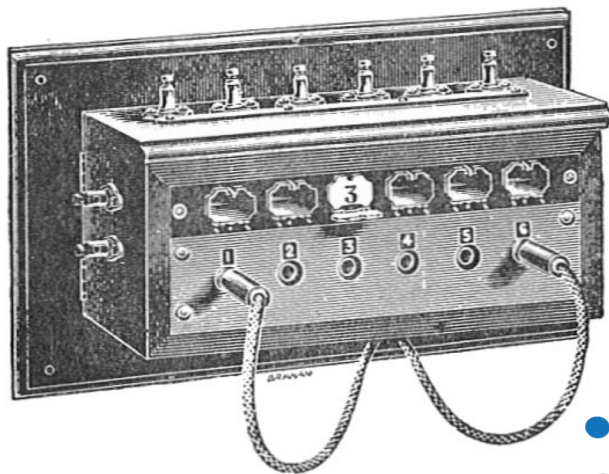


# Librarians Give Great Advice





# Civic Switchboard



NATIONAL NEIGHBORHOOD  
INDICATORS PARTNERSHIP



INSTITUTE of  
**Museum and Library**  
SERVICES

(Just enough about)

# The Civic Switchboard Project

**Our Pittsburgh experience:** libraries and library workers should be key actors in civic open data ecosystems and act as core data intermediaries

**Conviction 1:** Cultivating a healthy local civic data ecosystem depends upon the coordinated efforts of a variety of data intermediaries. Intermediaries need to work together; library involvement can include both academic and public libraries

**Conviction 2:** No single model can be made to fit every city or region. Modelling at the national level must be done by capturing a wide variety of successful local practices.



(Just enough about)

# The Civic Switchboard Project

Project Website + Blog + *Community of Practice*

<https://civic-switchboard.github.io/>

Civic Switchboard Guide and Toolkit

<https://civic-switchboard.gitbooks.io/guide/>

2018 Workshops: Before NNIP and DLF

2019 Field Awards



# **Thank You!**

**Check-out Civic Switchboard, and  
find a friend at your library.**