Unlocking Data and Unleashing Its Potential



Jake Porway Founder and Executive Director, DataKind

@jakeporway

Unlocking Data and Unleashing Its Potential



Melinda Rolfs
Senior Director of Data and Analytics,
MasterCard Center for Inclusive Growth

© @CNTR4growth



Greg Bloom
Chief Organizing Officer,
Open Refferal Initiative

② @Open_Referral



John Wilbanks
Chief Commons Officer,
Sage Bionetworks

@wilbanks

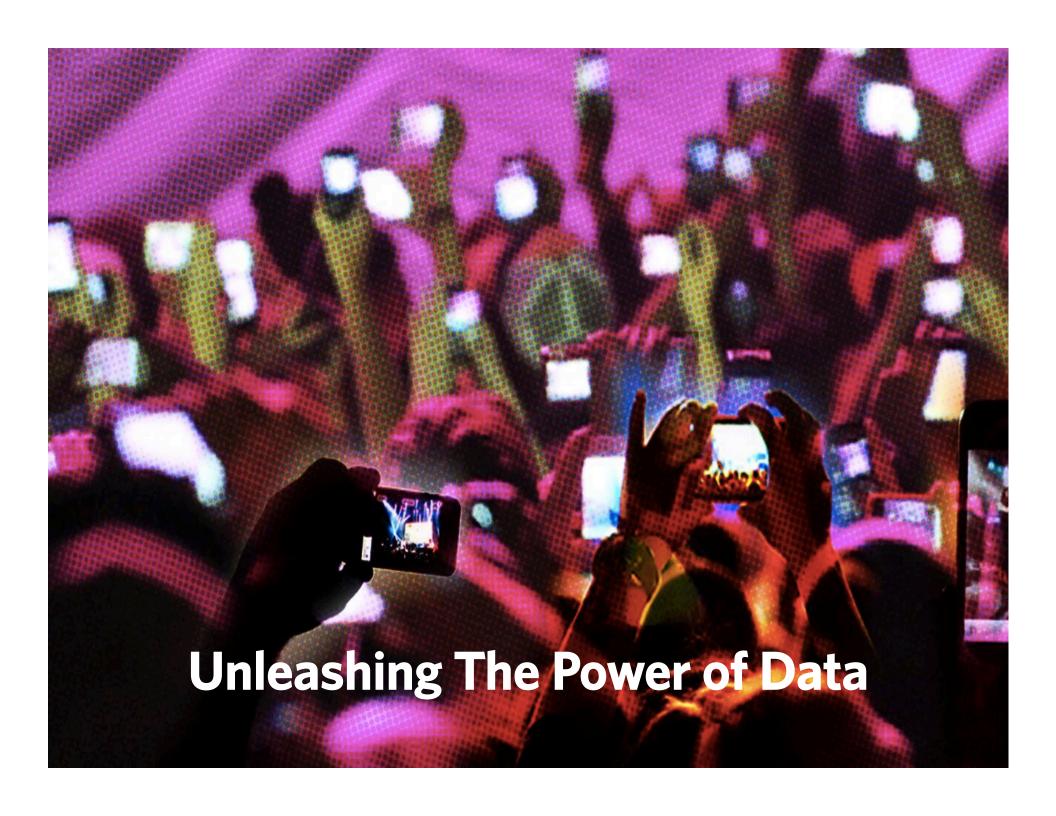


ST Mayer

Head of Public Sector Work,

Code for America

© @codeforamerica







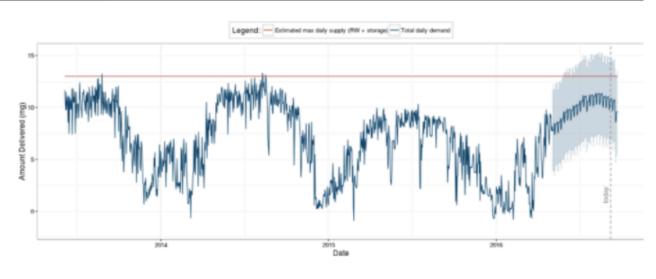








Moulton Niguel Water District Project DataCorps Team



Between today and 2016-09-21 there is a

demand will exceed supply for

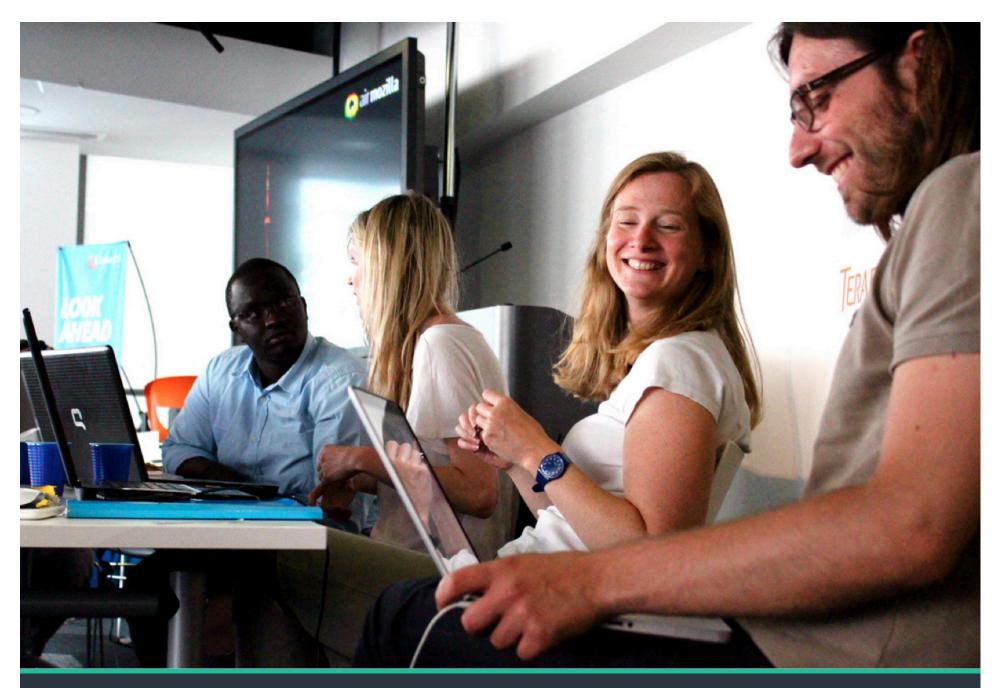
50 percent chance

at least 1 days

Max daily storage supply (mg)

Demand excess probability limit (%)

3



DATA ON PURPOSE









Bridging the Data Divide

Melinda Rolfs

Director of Data and Analytics







www.mastercardcenter.org



Billions of people around the world are trapped in a poverty of access, cut off from the basic essentials they need to thrive

.....

About the Mastercard Center



Our mission is to advance sustainable and equitable economic growth and financial inclusion around the world

Combine **expertise, data, technology** and **philanthropic investments** to empower a community on the front lines of inclusive growth

#DoGoodData









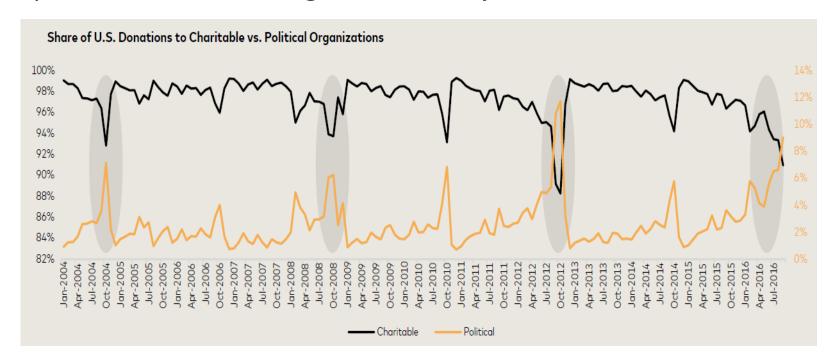
4

Donation Insights

Closing the Information Gap in Charitable Giving

Which Factors Impact Giving?

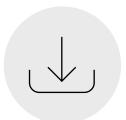
There appears to be a substitution effect among charitable and political donations during U.S. election cycles.



Donation Insights

Closing the Information Gap in Charitable Giving

#DoGoodData



Download the report and dataset

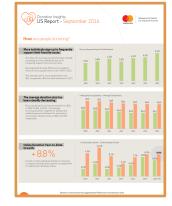
mastercardcenter.org

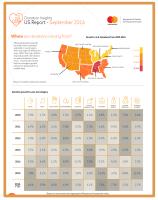


Share your learnings donationinsights@mastercard.com



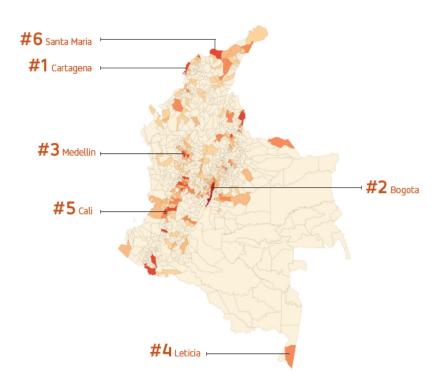






Tourism & Inclusive Growth

Mastercard data-driven insights reveal a better understanding of how foreign tourism impacts economies

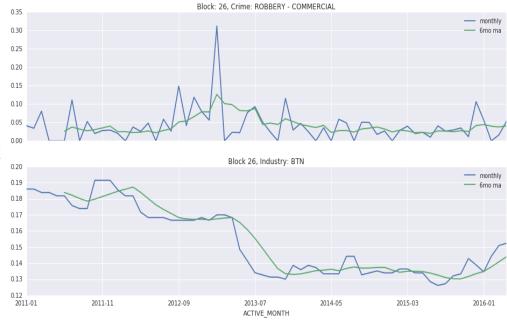


- Harvard researchers are using the Mastercard's transaction data to better understand which destinations are most popular, which countries tourists come from and the types of retail sectors that benefit.
- Illustrates to policymakers how the benefits of promoting tourism as a development strategy can be spread more equitably around a country.

^{*}Based on Mastercard's anonymized and aggregated transaction data

Crime & Commerce

- Combined Mastercard's data with open source Baltimore crime data.
 Defined blocks, then computed merchant densities and commercial robberies for each block.
- Analysis can help to quantify lost tax revenue from spikes in crime
- Joined White House Data-Driven
 Justice initiative, an effort to help
 local jurisdictions leverage data and
 analytics to improve the criminal
 justice system



^{*}Based on Mastercard's anonymized and aggregated transaction data

DATA ON PURPOSE











Got a tip? Let us know.

News - Video - Events - CrunchBase



DISRUPT SF TechCrunch's Flagship Conference Disrupt SF Starts On Monday Get Your Tickets Today >

al franken

Pokémon Go

Policy

Popular Posts



Sony Playstation 4 Pro



Sony



Posted Sep 1, 2016 by Kate Conger (@kateconger)

































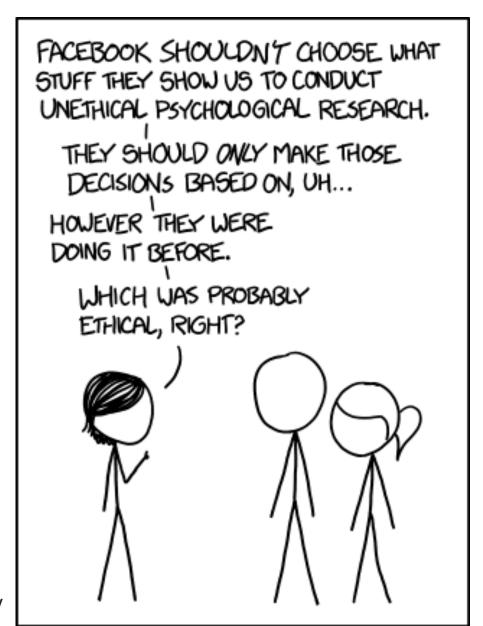
Review and edit the marketing data about you below. Acxiom collects data from a variety of sources such as public records, surveys, and online and offline registrations. The accuracy and completeness of the data is determined by these sources. The data may not be complete and in some cases the data may not be current due to the timing of updates from these sources. Please remove or correct any data that is in error.

Element	Details	Action
Date of Birth	Remove this data about me for online marketing purposes (Was:	Edit/Remove
Gender @	Male	Edit/Remove
Ethnicity (?	Caucasian/White	Edit/Remove
Education (?	Remove this data about me for online marketing purposes (Was: Completed Graduate School)	ℰ Edit/Remove
Occupation (?	Remove this data about me for online marketing purposes (Was: Professional/Technical)	ℰ Edit/Remove
Marital Status (?	Remove this data about me for online marketing purposes (Was: Inferred Single)	Edit/Remove
Number of Adults (?	1 Adult	€ Edit/Remove
Political Party (?	Remove this data about me for online marketing purposes (Was: Voter - Democratic)	ℰ Edit/Remove

Back to Categories »

Home Help Categories My Account Contact us

\$499.99	?	1	
Total Offline Purchases - \$500- \$999.99	?	1	ℰ Edit/Remove
Average Dollars Spent Per Online Purchase	?	130	ℰ Edit/Remove
Total Online Dollars Spent	?	1042	Edit/Remove
Total Number of Online Purchases	?	8	ℰ Edit/Remove
Total Online Purchases - Under \$50	?	2	ℰ Edit/Remove
Total Online Purchases - \$50- \$99.99	?	1	ℰ Edit/Remove
Total Online Purchases - \$100- \$249.99	?	4	ℰ Edit/Remove
Total Online Purchases - \$250- \$499.99	?	1	ℰ Edit/Remove
Total Number of Purchases	?	17	☑ Edit/Remove



https://xkcd.com/1390/



▲ PDF





a natureresearch journal



1 Submit

Tools v

Editorial | OPEN

Smartphones as new tools in the management and understanding of Parkinson's disease

Andrew D Trister ™, E Ray Dorsey & Stephen H Friend

"Variability is the law of life..."—Osler, 1903.1

Parkinson's disease (PD) has been traditionally characterized by the motor symptoms of disease such as tremor, altered gait, and bradykinesia, with a well-established pathophysiology related to loss of dopaminergic neurons

#DoGoodData

Associated Content

Scientific Data | Data Descriptor

The mPower study, Parkinson disease mobile data collected using ResearchKit

Brian M. Bot, Christine Suver [...] Andrew D. Trister

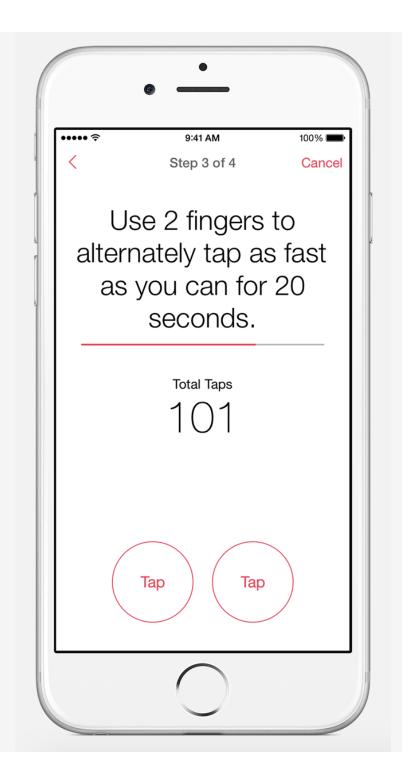
Sections

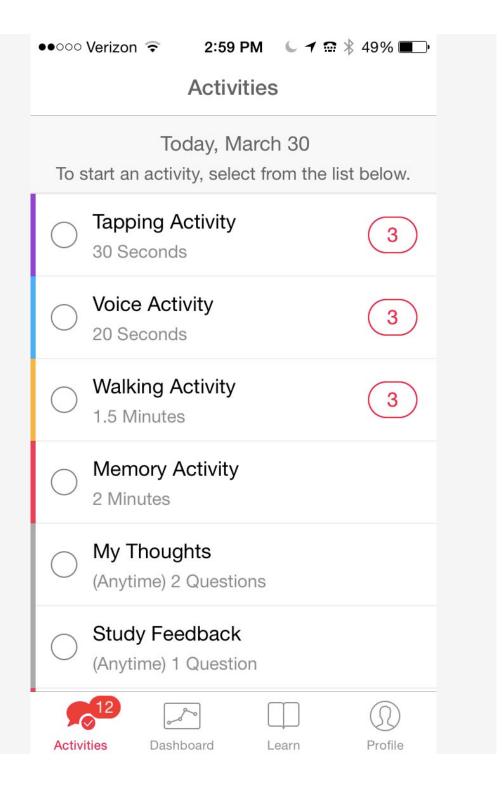
Info

References

Author information



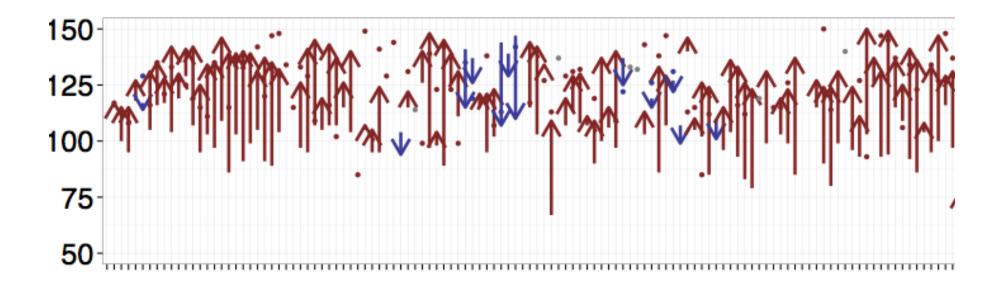




high-dimensional data

Traditional Measures	First-order Features
Number of Taps	Number of taps, Mean tapping interval, Median tapping interval, Minimum tapping interval, maximum tapping interval, Standard deviation of tapping interval, Kurtosis of tapping interval, Interquartile range of tapping interval, Interquartile range of right button X, Range right button X, Standard deviation right button X, Interquartile range of left button X, Range left button X, Standard deviation left button X, Interquartile range of right button Y, Range right button Y, Standard deviation right button Y, Interquartile range of left button Y, Range left button Y, Standard deviation left button Y, Correlation X and Y, Skew tapping interval, No-button tapping frequency

effects of medication / daily variation



power shift. but to whom?



LAW & DISORDER —

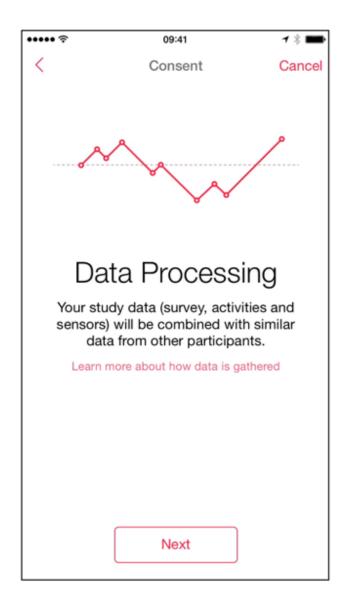
TOS agreements require giving up first born—and users gladly consent

Study says participants also agreed to allow data sharing with NSA and employers.

DAVID KRAVETS - 7/12/2016, 6:20 PM

namedrop Drop that Name, get that job. LEARN MORE ...

wexisting form, would probably first however slightly, in bodily structure o, whether the variations are transm dance with the laws which prevail wi are the variations the result, as far us to judge, of the same general cau general laws, as in the case of correlation, the inherited effe bject to similar malconformation ment, of reduplication of pa his anomalies revers



we do interaction design everywhere, except where we need it the most.

"human readable"







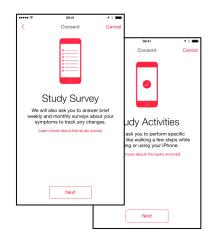


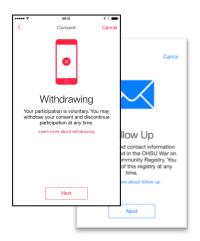
Welcome

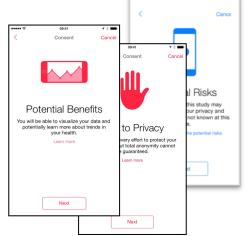
The research

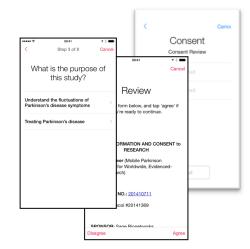
Your Data

impact on your life-Issues









What is involved

Your rights

Potential risks and benefits

Comprehension- Review & Consent 1







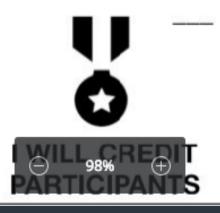












#DoGoodData



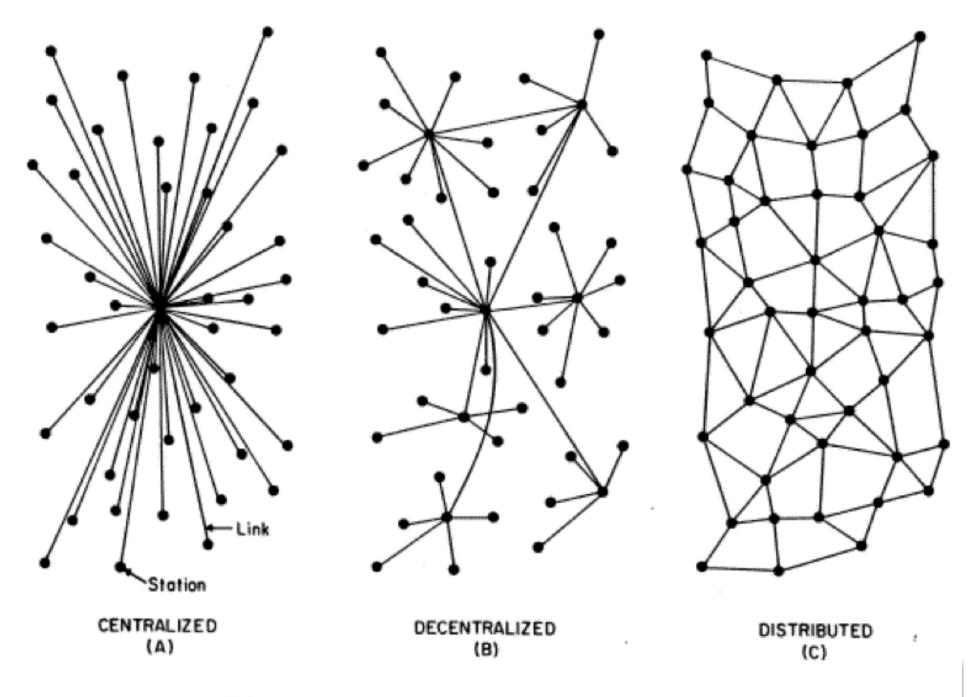


FIG. 1 — Centralized, Decentralized and Distributed Networks

DATA ON PURPOSE











Greg Bloom |@greggish
Open Referral | @open_referral
www.openreferral.org



Community Resource Directories and the future of knowledge and democracy





OPEN=== REFERRAL







The Problem

It's hard to see the safety net.









Community Resource Directory Data:

WHICH agencies?

WHAT services?

WHERE are they located?

WHEN & HOW are they accessed?



PROLIFERATING RESOURCE DIRECTORIES:

DC Food Finder

DC BRIDGE

Welcome to the DC Food Finder: An Interactive Map of Food Resources in DC Project of Healthy Affordable Food For All Get Started Now: Simply click the box next to the resource you're looking for and type an address in the search bar. Enter an Address to Find Nearest Food Options 1 Select Resources Enter address to find nearest food option (Search) Grocery Store Sp. Map Satellite Hybrid Free Meals Emergency Groceries Food for Seniors and Homebound APPLY! for Food Benefits Low Cost Groceries Farmers Markets Free Summer Meals Community Gardens and Urban Food Projects Nutrition and Cooking Classes Referrals About HAFA Contact RSS feed Assistance is also available through the Capital Area Food Bank Hunger Lifeline at 202-644-9807. Powered by Social Compact, Inc. © 2008





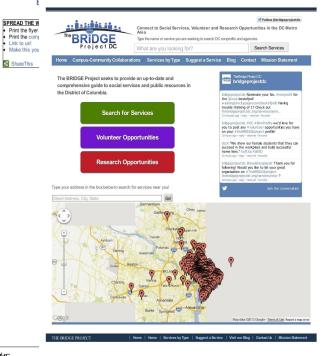




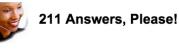




Link to us!



DC 211

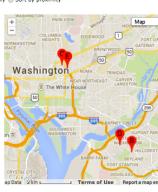


(Found 11 results)

You may either type in an agency/program name, or choose a suggested service as you type, then click the button. Search for resources bread for the city

Look for resources in or near a location: State: District Of Columbia City: Washington Zip code:











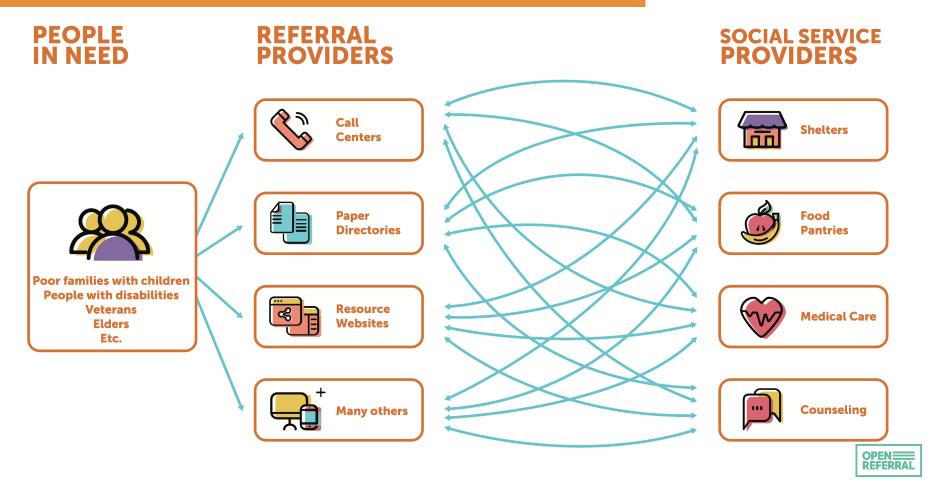


THIS IS A VERY OLD PROBLEM.





A LANDSCAPE OF SILOS: CHAOTIC, WASTEFUL, INEFFECTIVE



FRAGMENTED DATA:



CATS A WOMAN'S PLACE

CATS helps those most in need get off the street, achieve stability and establish permanent housing by providing compassionate, culturally sensitive services and stays of 4-18 months. www.catsin.org

Things To Know

individuals.

Faith Based: No.

Languages Spoken: Spanish, English.

Client fees, if any: Emergency shelter clients

Abuse or Transitional Housing pay 30% of

do not pay program fees. Clients in Substance

What to Bring: TB Clearance. Accessibility: Wheelchair accessible. Other

disabilities are accommodated.

income based on HUD guidelines.

Eligible Population: All Women, MTF

Transgender people, Pregnant women.

Program does not serve FTM Transgender

To Get Connected

Contact Persons: Case Manager on duty Phone: (415) 487-2140 Fax: (415) 703-8931

Email:

Transitional Housing: kim@awpcats.org
Substance Abuse: scott@awpcats.org
Program Coordinator: nicole@awpcats.org
Specific Intake Days and Times:
M-Sa, 8am-4pm.

Facility Hours: 24 hours/7 days. Business hours: 8:00am to 4:00pm; Drop-in 9:00am to 4:30pm. Location: 1049 Howard St. San Francisco, CA

94103

Notes: No referral needed. Drop-in between 9am and 4:30pm.

Direct Services: Emergency Shelter; Transitional Housing; Access to Internet (no computers available, wireless only); Food/Prepared Meals; Hygiene/Personal Care Items; Phones (no voicemail; Shower Facilities; Substance Abuse Treatment; Medical Care (provided on-site by Tom Wadell (Tuesday and Thursday) Health Care for the Homeless). Referrals to other resources available as needed.



Community Awareness & Treatment Services, Inc. (CATS) – A Woman's Place

1049 Howard St. (between 6th & 7th), 94103 1171 Mission St. 94103 Administrative Office 415-487-2140 145-703-9657 (Fax) 24-hours/7-days

CATS is an entry level emergency shelter for homeless women. The shelter provides onsite services including breakfast, lunch and dinner, referrals, housing and medical information, substance abuse counseling, and case management. Staff are available for one-on-one peer counseling with guests on a 24-hour basis. Can accommodate 40 women. Women should come in and ask for a bed. All clients must be under case management.

The Care program allows women to stay for up to 18 months. Fees include 30% of income (no fee for one-night stays). Must be seen for an appointment by an intake worker to be put on the waiting list. The Primary Substance Abuse Program is based on the 12 steps of Alcoholics Anonymous and offers 30-to 120-day stays.

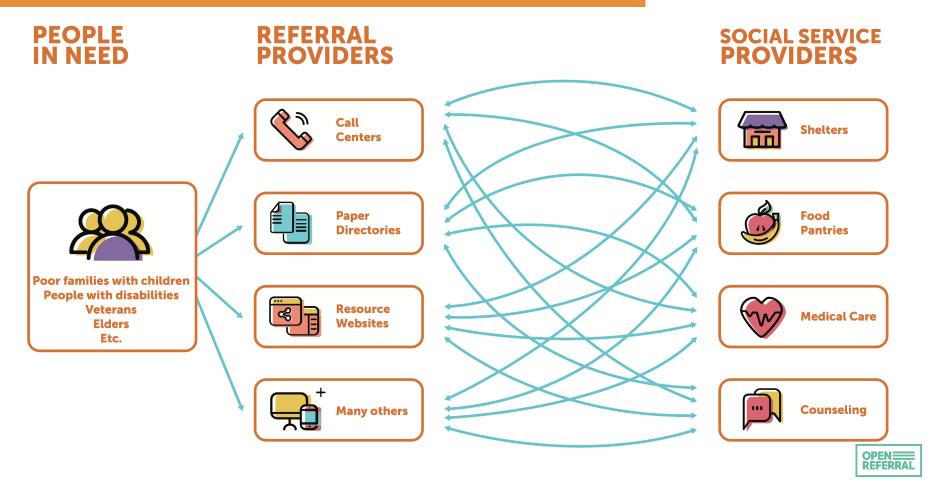
Homeless Advocacy Project - Resource Manual 2013-2014

127



A Woman's P	Place	
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Welcome		
Women		
Services		
♠ Shelter		
Asian Art Museum & SHN Orpheum Theatre Bill Graham Civic Auditorium	MID, MARKET OF STATE OF SOUTH OF CHEST OF STATE OF MARKET CHEST OF SOUTH OF CHEST OF CHEST OF SOUTH OF CHEST OF SOUTH OF CHEST OF SOUTH OF CHEST OF CHEST OF SOUTH OF CHEST OF SOUTH OF CHEST OF SOUTH OF CHEST OF CHEST OF SOUTH OF CHEST OF CHEST OF SOUTH OF CHEST OF SOUTH OF CHEST OF SOUTH OF CHEST OF	
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A LANDSCAPE OF SILOS: CHAOTIC, WASTEFUL, INEFFECTIVE





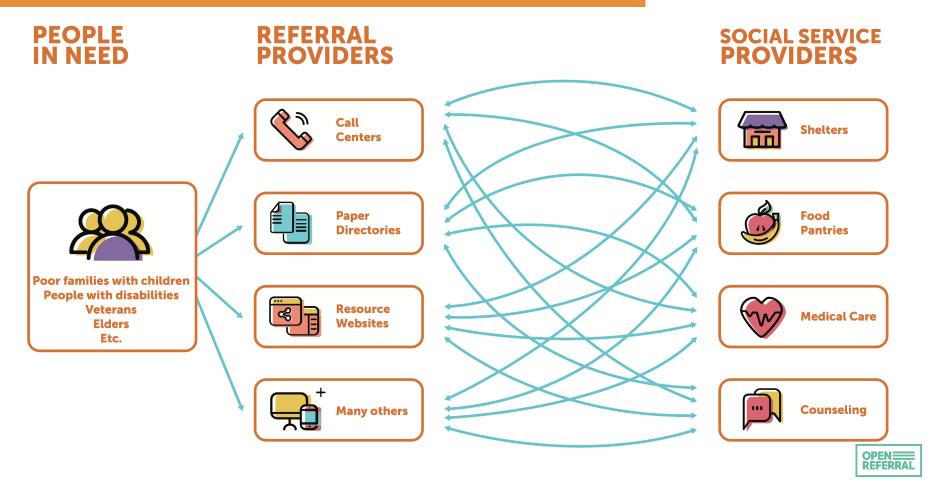




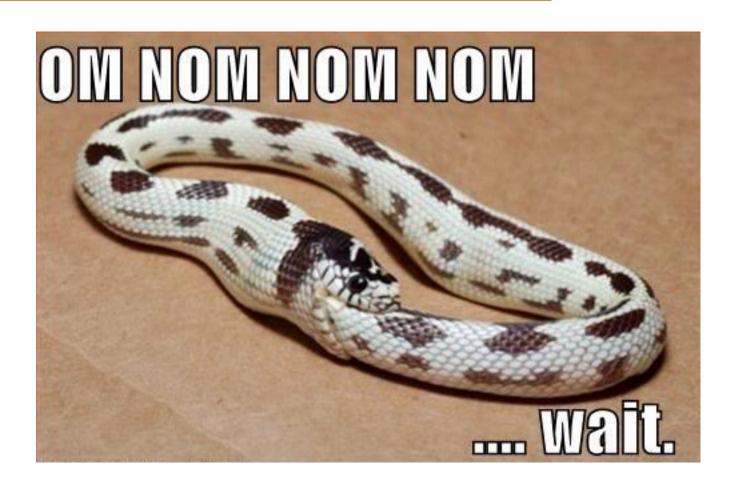
Organizations that help people in need often don't need more people asking for help.



A LANDSCAPE OF SILOS: CHAOTIC, WASTEFUL, INEFFECTIVE



HISTORY, REPEATING:







OPEN REFERRAL

The Commons: Shared Resources, Resolvable Dilemmas



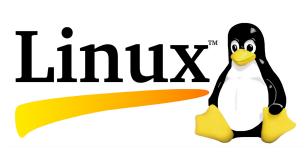
'At any time that individuals may gain from the costly action of others, without themselves contributing time and effort, they face collective action dilemmas for which there are coping methods."

Nobel Laureate Elinor Ostrom

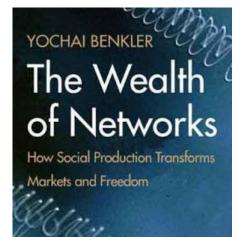


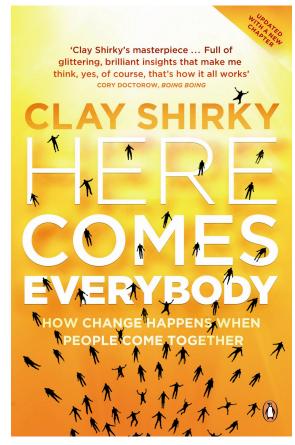
Commons-Based Peer Production













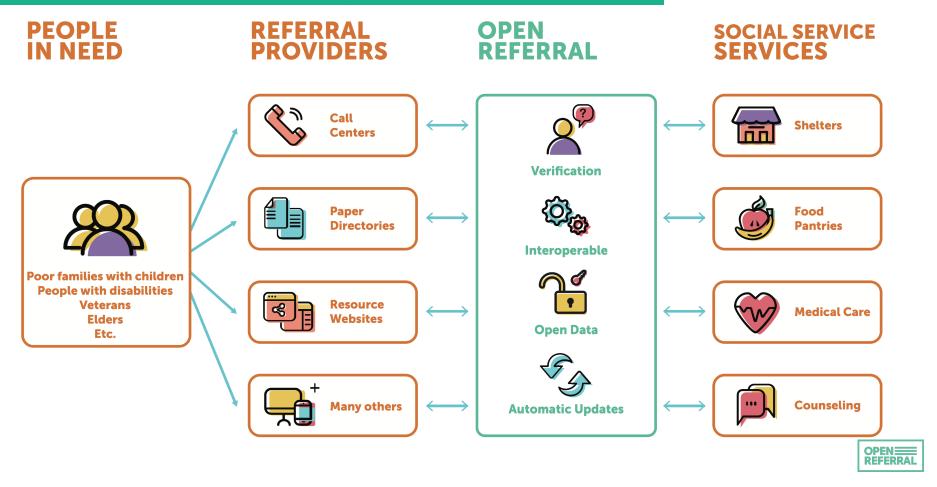


Our Vision

A healthy information ecosystem in which people can find what they need, in whatever way works best for them.



A HEALTHY ECOSYSTEM: ACCESSIBLE, INTEROPERABLE, SUSTAINABLE



EASIER SAID THAN DONE (XKCD #927)

HOW STANDARDS PROLIFERATE: (SEE: A/C CHARGERS, CHARACTER ENCODINGS, INSTANT MESSAGING, ETC.)

SITUATION: THERE ARE 14 COMPETING STANDARDS.



500N:

SITUATION: THERE ARE 15 COMPETING STANDARDS.

OPEN EEERRAL

We developed the Human Services Data Specification: an exchange format to bridge old and new















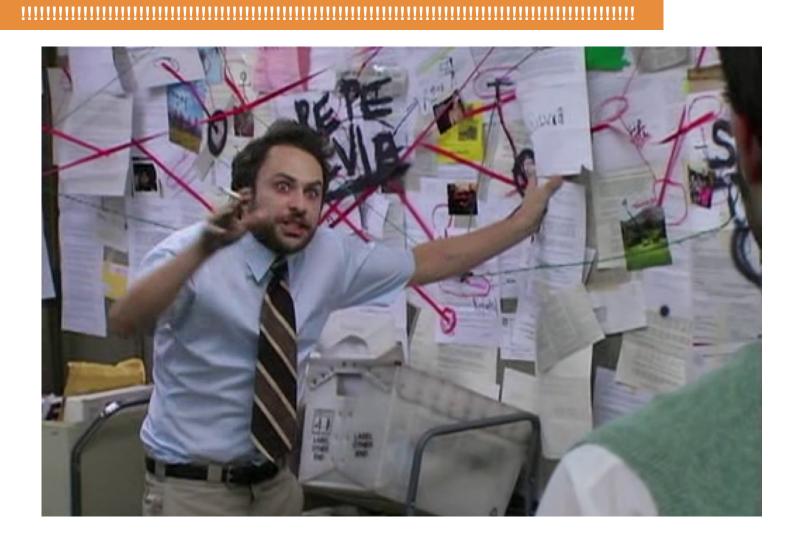
purplebinder



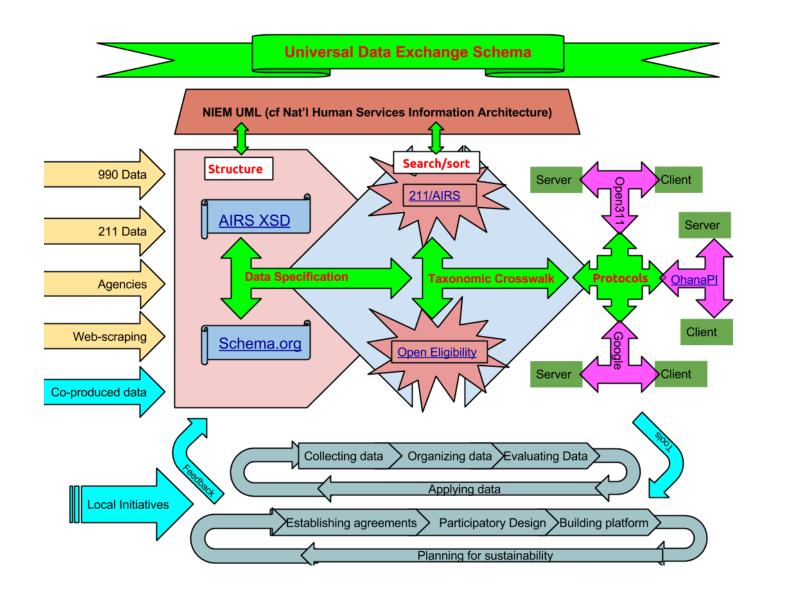






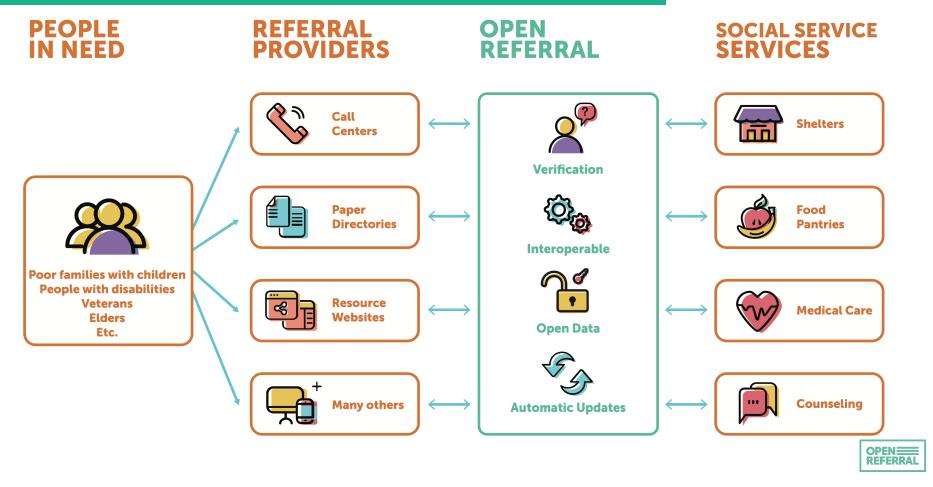






OPEN EEERRAL

A HEALTHY ECOSYSTEM: ACCESSIBLE, INTEROPERABLE, SUSTAINABLE



Goals

Local pilots to move the world



Multi-stakeholder participatory research and deliberation









Our Partnerships in 2017:



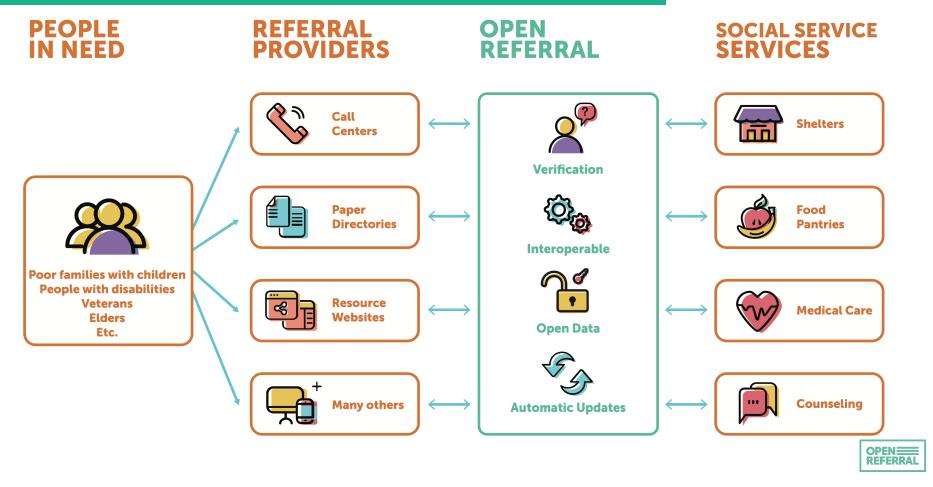








A HEALTHY ECOSYSTEM: ACCESSIBLE, INTEROPERABLE, SUSTAINABLE



Thanks for listening. Let's talk.

Greg Bloom: bloom@openreferral.org | 202.643.3648.



CODE for AMERICA

ST Mayer, Chief Program Officer stmayer@codeforamerica.org

The two biggest levers for improving people's lives at scale are technology and government.

We put them together.

#DoGoodData

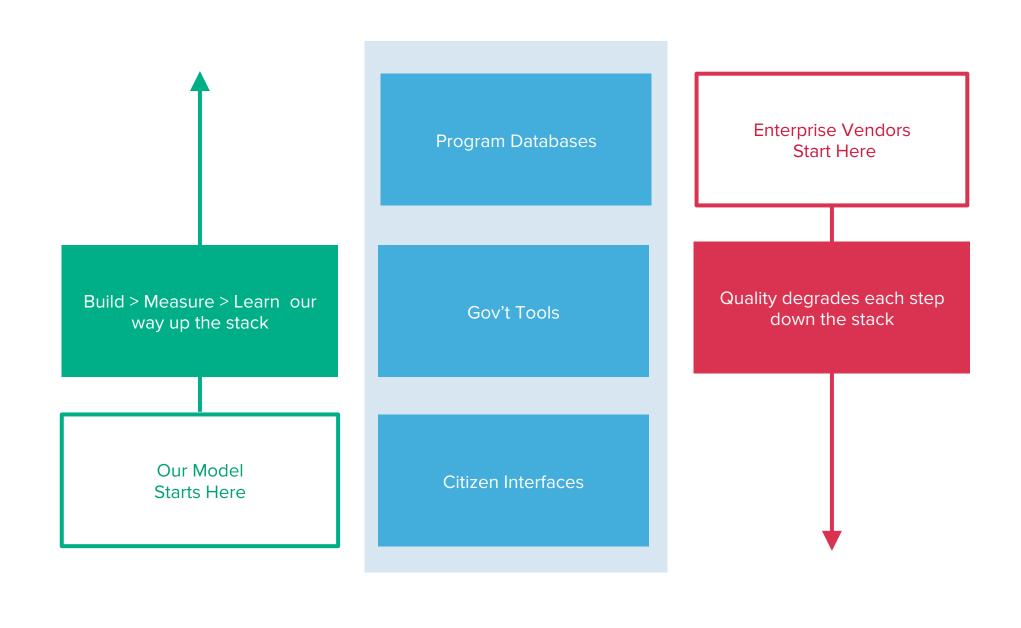
- Empathy
- Outcomes

#DoGoodData

.....

"The Department of Defense uses 8-inch floppy disks in a legacy system that coordinates the operational functions of the nation's nuclear forces." - 2016 GAO report

.....



Government data is collected to:

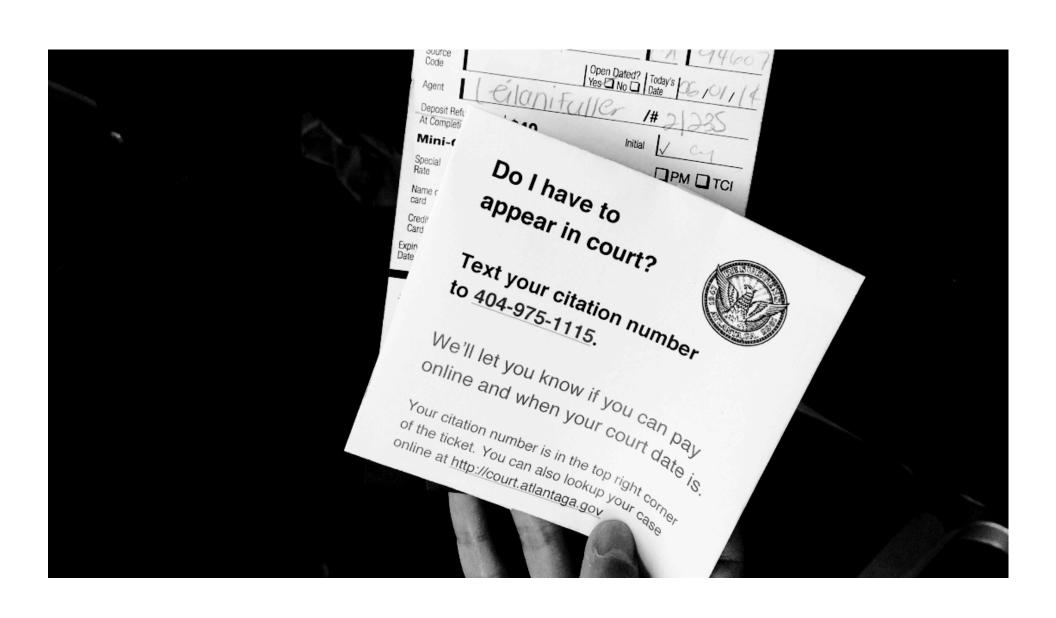
- Prevent fraud and abuse
- Pass an audit = compliance
- Move information from one agency to another

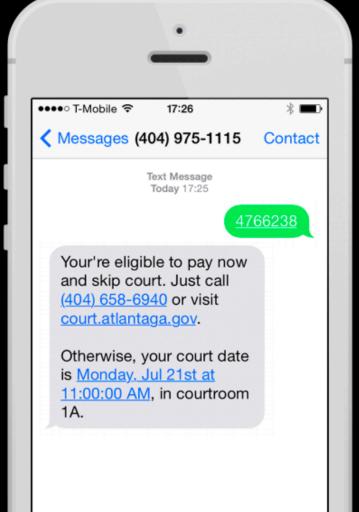
#DoGoodData

Monitor and regulate

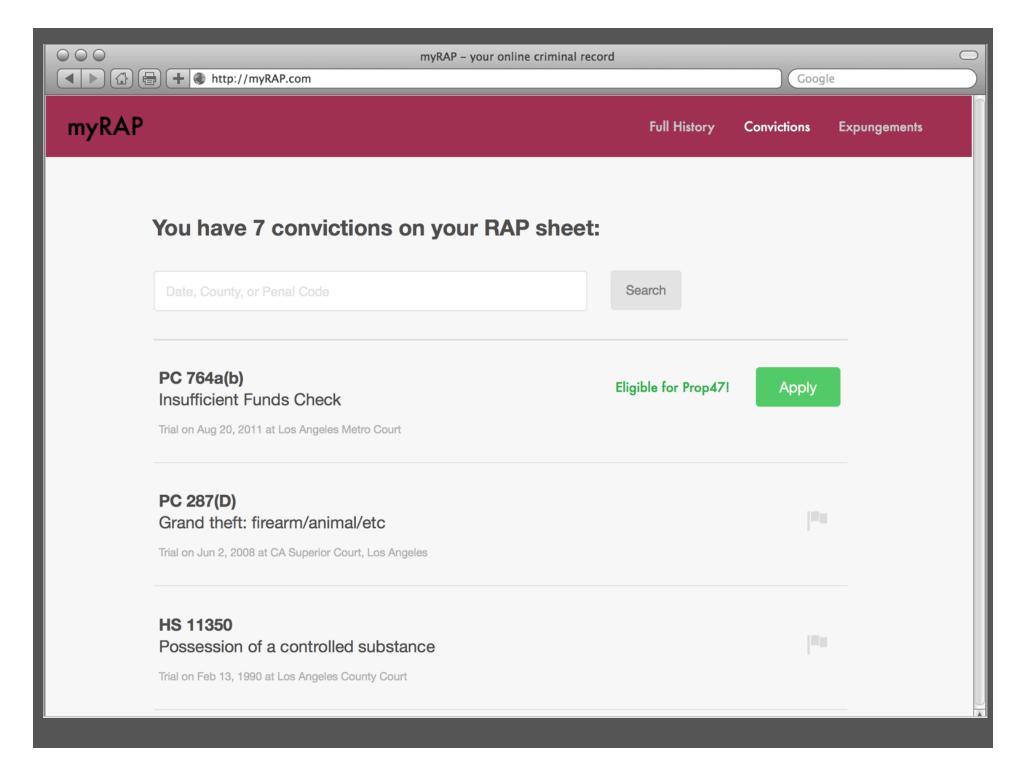
Start at the End

What you want to accomplish with the data really, really matters!

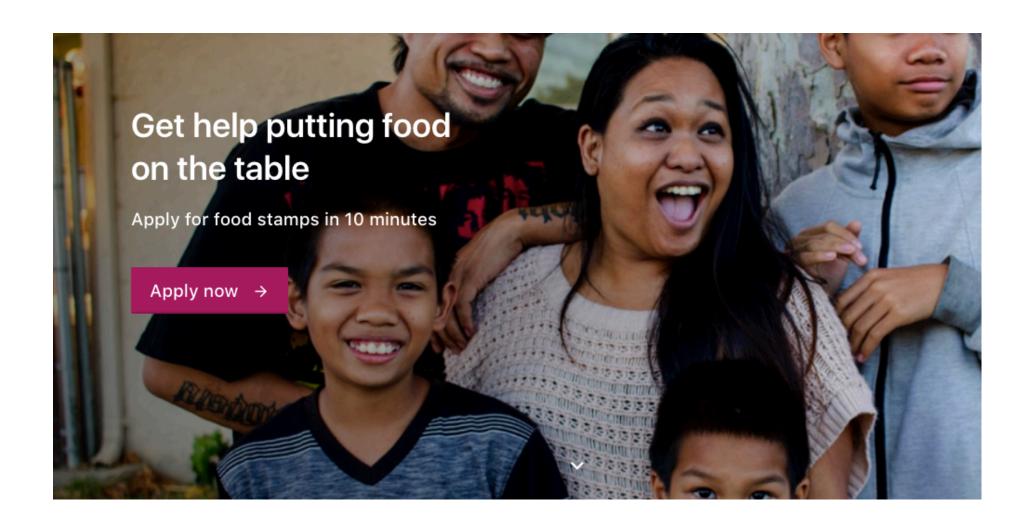




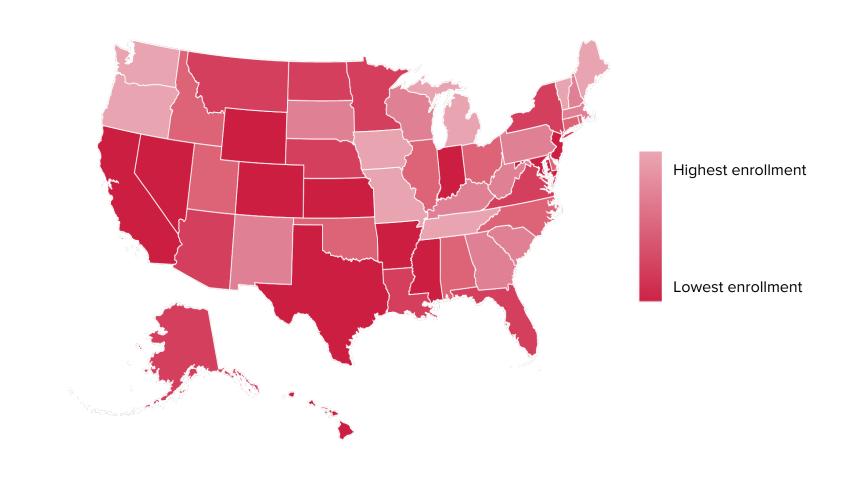








CA SNAP Enrollment Rate is Low



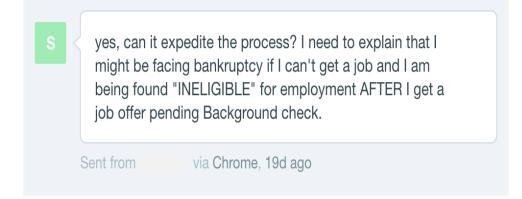
We are Collecting Data All the Time



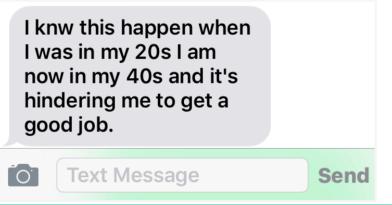
How People Experience a Process



Texts from Our Clients







.....

"Efficiency in government is a matter of social justice."

- John Norquist

.....

Governments can:

- Make sure they own access to the data they collect
- Collect data with a focus on how they might use it later on
- Engage others in thinking how they might use it to achieve shared goals
- Make the cost of access visible

People outside government can:

- Share the data you collect
- Help government access the data they have
- Consider an MVP
- Be creative
- Be transparent
- Know the data may not exist

Audience Q&A



Melinda Rolfs
Senior Director of Data and Analytics,
MasterCard Center for Inclusive Growth

© @CNTR4growth



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@Open_Referral



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Sage Bionetworks
@wilbanks



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