

Data, Technology, and Innovation in Government

Seminar 7: Data Journalism
March 25, 2015

Nick Sinai
Walter Shorenstein Media and Democracy Fellow
Shorenstein Center for Media, Politics, and Public Policy
Harvard Kennedy School

Seminar Background

Personal Background

- Government: White House, Federal Communications Commission,
- Technology VC: Insight Venture Partners, Lehman Brothers, Polaris

Goals

- Expose you to real projects, policy, and people
- Raise your Tech IQ
- Get credits toward your GSD degree

Logistics: Students get priority, seminar is not for credit

Seminar Series

- Introduction to Open Data
- Government Digital Services
- Privacy and Personal Data Portability
- Marketing U.S. Data: Data Jams, Datapaloozas, Hackathons, Prizes, & CDOs
- Government Spending Transparency
- Smart Cities/Internet of Things
- Data Journalism
- Freedom of Information Act
- Healthcare.gov: A Case Study
- Regulatory Modernization

Today's guest:



Alex Howard

- Founded blog “E Pluribus Unum,” a top blog on government information technology, in 2013
- Columnist at TechRepublic
- Contributor to TechPresident

Past:

- Fellow at Columbia Tow Center for Digital Journalism
- Fellow at HKS Ash Center
- Washington Correspondent for Radar at O’Reilly Media



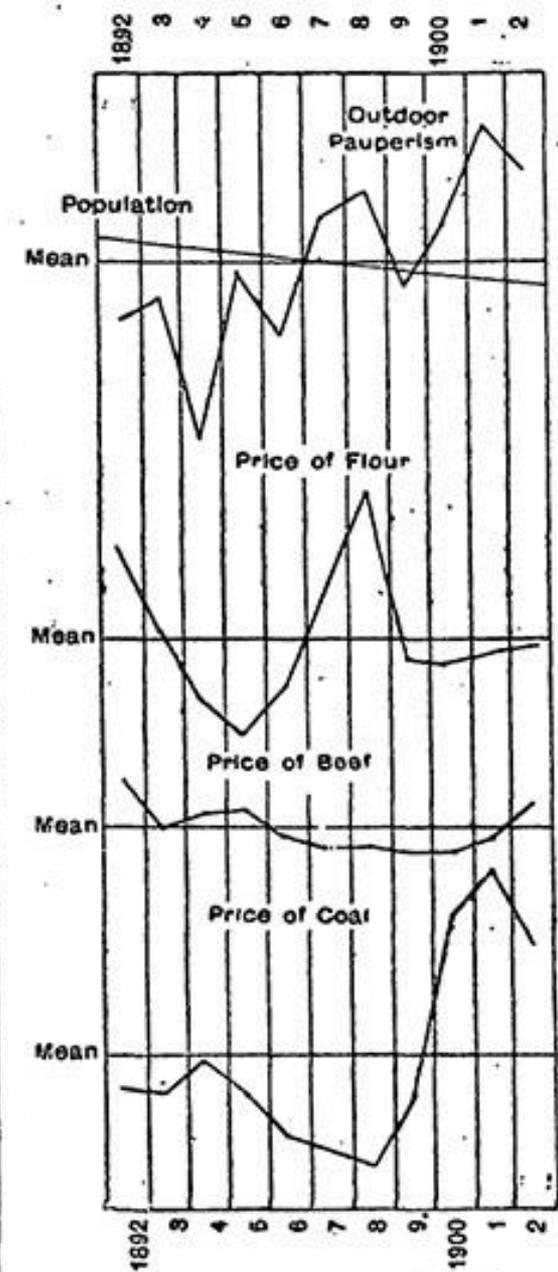
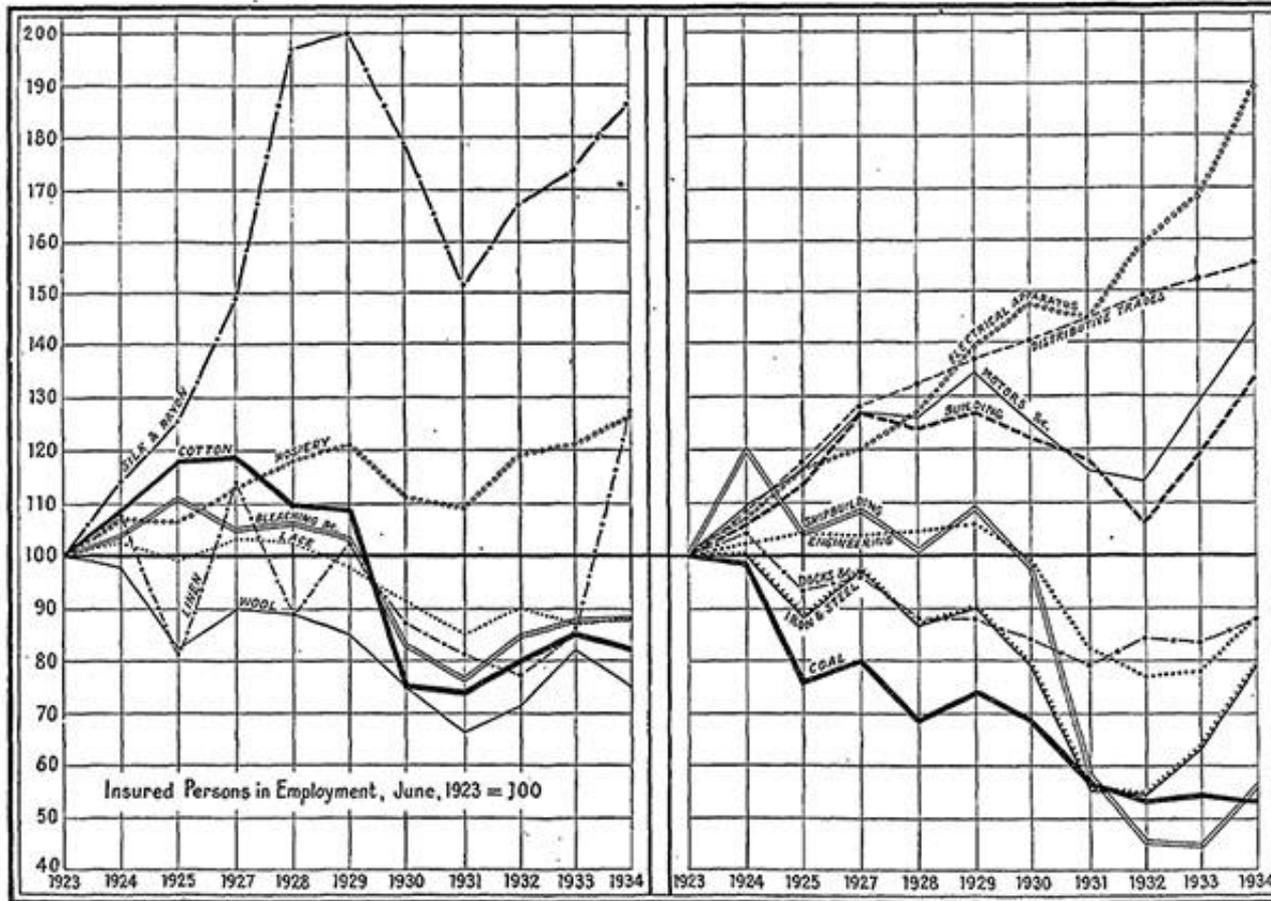
You know nothing, Jon Snow

This John Snow knew something.



Newspapers have used data for centuries

ELEVEN YEARS' CHANGES IN EMPLOYMENT: CONTRACTING AND EXPANDING INDUSTRIES, 1923-1934



The most striking feature of the diagram is the marked and rapid rise in the number of persons receiving outdoor relief. The lowest point, 1894, represents a weekly average of 395 persons in receipt of relief, while the highest, 1901, stands for 817 per week.

Source: [The Guardian](#)

The Mileage of Congress

Published in The New York Tribune, Dec. 22, 1848

In the mid-1800s, Horace Greeley was the popular and controversial editor of The New York Tribune. For a few months starting in late 1848 he was also a congressman from New York. During that time, he produced this investigative data story, which accuses Abraham Lincoln, among many others, of taking too much money for mileage to and from the Capitol. Related Story »

PAGE TEXT

NEW-YORK TRIBUNE.

NEW-YORK, FRIDAY DEC. 22.

ILLINOIS—The new Legislature of this State will soon assemble at Springfield, and its proceedings will be watched with anxiety, mainly with reference to the election of a United States Senator for the six years ensuing. Though a decided majority of the popular vote has just been given for the Whig and Free Soil Electoral Tickets together, yet the Legislature is decidedly Loco-Foco, and will choose a Senator accordingly. It is said, however, that among the members of the majority are several decided Free Soil men, and that the Whigs, by uniting with these upon Hon. Robert Smith or some other of the least exceptionable Cass-men, may secure the return of a practically and reliably Free Soil Senator. If so, we trust they will not miss the opportunity.

LATE FROM RIO JANEIRO—The bark E. Corning, from Rio Janeiro, arrived yesterday morning, having left that port on the 26th November. The E. C. brings as intelligence of the arrival at Rio of the steamship California, Captain FORBES, in the remarkable short passage from this port of 25 days. It will be remembered the California is one of the mail steamers which are to ply between Panama and San Francisco.

The Californian newspaper, published at San Francisco, says that the people of that territory are united, as one man, against the establishment or introduction of Slavery.

An account of the opening of the Worcester and Nashua Railroad is crowded out this morning. It will appear in the Evening Edition.

REVIEW—A review of Miss LYNN'S Poems, intended for this morning's Tribune, has been crowded out, but will appear in our Evening Edition.

The Mileage of Congress.

The following transcripts of the Mileage, or compensation of Members of the present Congress for traveling to and from Washington by reason of their attendance at the last Session, has been obtained and prepared for *The Tribune*, not without considerable delay and difficulty. The schedule of the House was open to us, and no objection made to its use, but the Secretary of the Senate refused to permit a transcript of the Mileage of that illustrious body to be taken, even on the requisition of a Member of the House, and we were constrained to apply to the Secretary of the Treasury, certifying that it was wanted as the basis of action in the House; and then our reporter was tossed

not. Wherefore, we entreat you, men in Congress! to reform the Mileage at this present Session!

HOUSE OF REPRESENTATIVES.

Names.	Actual No. of Miles by Post.	Miles charged.	Mileage charged.	Excess of M. wages charged.
Amos Abbott, Mass.	454	487	\$399 40	\$45 40
Green Adams, Ky.	519	931	744 50	322 00
George Ashmun, Mass.	363	498	365 40	36 00
Arch'd Atkinson, N.C.	298	290	224 00	
D. M. Barringer, N.C.	376	434	337 80	46 40
Wash. Barrow, Tenn.	684	1122	897 60	368 40
Thomas H. Bayly, Va.	197	300	940 00	22 40
Rich'd L. T. Beale, Va.	135	135	108 00	
Henry Bedinger, Va.	65	149	119 30	67 80
Hiram Belcher, Me.	621	688	548 90	52 00
R. S. Risham, Mich.	544	1121	896 80	461 80
Asahel Birdsall, N.Y.	296	590	472 00	235 00
John Blanchard, Pa.	177	212	189 60	28 00
T. S. Bocock, Va.	[not down]	2356	204 80	
John M. Botta, Va.	117	131	104 80	11 20
F. W. Bowdon, Ala.	757	1148	912 40	312 80
James B. Bowlin, Mo.	808	1528	1122 40	475 00
Linn Boyd, Ky.	511	1300	1000 00	437 60
Nathan' B. Brant, N.C.	355	430	344 00	60 00
Jaaser E. Brady, Pa.	90	130	104 00	32 00
Samuel A. Bridges, Pa.	130	189	151 30	7 20
Richard Brodhead, Pa.	199	190	132 00	
Wm. G. Brown, Va.	207	330	264 00	96 40
Charles Brown, Pa.	138	137	109 60	
Albert G. Brown, Miss.	1047	2330	1864 00	1096 40
Aylett Buckner, Ky.	511	567	460 00	300 80
Armistead Burt, S. C.	548	740	592 00	153 60
Chester Butler, Pa.	231	274	219 20	34 40
E. C. Cabell, Ia.	1069	1780	944 00	88 80
Richard S. Canby, O.	456	1053	842 40	477 80
Chas. W. Cathcart, Ind.	680	1806	1444 80	916 80
John G. Chapman, Md.	32	40	32 00	6 49
Lucien B. Chase, Tenn.	730	1000	800 00	215 00
Asa W. H. Clapp, Me.	511	600	480 00	44 00
Franklin Clark, Me.	568	651	590 80	9 60
Beverly L. Clark, Ky.	698	1062	849 60	299 20
T. L. Clingan, N. C.	486	567	469 60	80 80
Howell Cobb, Ga.	610	805	644 00	156 00
W. R. W. Cobb, Ala.	667	1300	1040 00	506 40
Wm. M. Cooke, Tenn.	466	1104	883 20	510 40
Jacob Collamer, Vt.	485	610	496 00	90 00
William Collins, N.Y.	436	620	480 00	131 50
H. S. Conger, N.Y.	315	557	445 60	194 40
Robt. F. Cranston, R.I.	408	430	344 00	17 60
John W. Crafts, Md.	150	269	167 20	47 20
John Crowell, O.	303	885	708 00	465 60
John H. Crozier, Tenn.	498	1071	856 80	458 40
J. D. Cummins, O.	[not down]	500	400 00	16 80
John R. J. Daniel, N.C.	211	322	185 60	704 00
Masson C. Darling, Wis.	945	1825	1480 00	85 60
John Dickey, Pa.	253	360	288 00	460 80
R. Dickason, O.	423	904	795 20	31 20
James Dixon, Ct.	336	375	300 00	75 00
Rich'd S. Donnell, N.C.	348	443	354 40	104 80
William Duer, N.Y.	373	554	443 20	504 00
Daniel Duncan, O.	368	996	796 80	395 80
Garnett Duncan, Ky.	596	922	737 60	303 20
George G. Dunn, Ind.	621	1000	800 00	48 40
Geo. N. Eckert, Pa.	172	220	184 00	50 40
Joseph E. Edsall, N.J.	217	253	60 00	316 80
Thos. O. Edwards, O.	375	771	616 80	323 20
Elihu Embree, Ind.	712	1118	892 80	1 60
Alexander Evans, Md.	90	92	73 60	132 80
Nathan Evans, Ohio.	316	482	385 60	98 40
James J. Faran, Ohio.	492	790	639 00	98 40
John W. Farrelly, Pa.	307	430	344 00	58 00
W. S. Featherston, Miss.	910	1645	1316 00	308 00
Oriando B. Fitch, Ill.	805	1290	1032 00	316 00
David Fisher, Ohio.	445	840	672 00	88 80
Thos. S. Flournoy, Va.	214	325	260 00	216 80
John Freedley, Pa.	154	154	123 20	
Richard French, Ky.	514	785	628 00	

would probably increase the House Excess to over \$50,000.

*These Members have charged less than the Post Office Department list allows them, as follows:

Atkinson, Va.	\$14 40	Hempson, N. J.	\$ 80
Broadhead, Pa.	7 20	J. R. Ingersoll, Pa.	1 60
Brown, Pa.	80	Levin, Pa.	80

SENATE.

Names.	Actual miles by Post.	Miles charged.	Mileage charged.	Excess of Mileage charged.
Wm. Allen, O.	400	479	383 30	67 20
Chas. Ashley (dead) Ark.	2200			
D. R. Archison, Mo. (not down)	2120		1696 00	
C. G. Atherton, N. H.	447	540	432 00	74 40
Geo. E. Badger, N. C.	288	288	230 40	
A. P. Bagby (out) Ala.	1398			
R. S. Baldwin, Conn.	300	333	266 40	26 40
John Bell, Tenn.	684	1122	897 60	350 40
Thos. H. Benton, Mo.	808	1670	1326 00	469 80
John M. Berrien, Ga.	682	750	608 00	78 40
Solon Borland, Ark.	1065	2250	1808 00	266 80
John W. Brudrury, Me.	595	675	540 00	64 00
Sidney Brooke, Ill.	771	1670	1326 00	380 00
Jesse D. Bright, Ind.	560	1431	744 80	496 80
A. P. Butler, S. C.	554	699	559 20	116 00
J. C. Calhoun, S. C.	531	923	738 40	313 60
Simon Cameron, Pa.	120	150	120 00	34 00
Lewis Cass (out) Mich.	224	1081	864 80	445 80
John H. Clarke, R. I.	400	450	360 00	40 00
John M. Clayton, Del.	115	120	96 00	4 00
W. T. Colquitt, Ga.		1040	832 00	
Thos. Corwin, Ohio.	469	765	612 00	228 80
J. J. Crittenden (out) Ky.	542	900	640 00	306 40
John Davis, Mass.	398	440	352 00	33 60
Jefferson Davis, Miss.	1060	1981	1584 80	736 80
Wm. L. Dayton, N. J.	168	306	164 80	32 80
D. S. Dickinson, N. Y.	286	576	460 80	224 00
John A. Dix, N. Y.	370	400	320 00	74 00
Henry Dodge, Wis.	691	1850	1480 00	280 00
S. A. Douglas, Ill.	684	1834	1467 20	758 00
S. W. Downs, La.	1190	2800	2240 00	1288 00
Jno Fairfield (dead) [not down]	600	480		
A. Felch, Mich.	526	1121	896 80	59 20
T. Fitzgerald, Mich. (not down)	1281		1024 80	
H. S. Foote, Miss.	1010	2540	2064 00	1256 00
A. C. Greene, R. I.	400	450	360 00	60 00
John P. Hale, N. H.	495	567	453 60	57 60
H. Hamlin, Me.	657	738	590 40	84 80
E. A. Hannegan, Ind.	645	1802	1281 60	765 60
Sam. Houston, Tex. (not down)	3120		2496 00	
R. M. T. Hunter, Va.	58	115	92 00	92 00
Henry Johnson, La.	1300	2354	1863 20	1 60
Reverdy Johnson, Md.	40	42	43 40	1 60
Her. V. Johnson, Ga.	642	940	782 00	232 60
W. R. King, Ala.	818	1100	880 00	225 60
D. H. Lewis, (dead) Ala.	859	1099	872 00	184 80
W. P. Mangum, N. C.	265	330	264 00	52 00
J. M. Mason, Va.	74	143	114 40	55 20
T. Metcalfe, Ky.	493	697	557 60	163 20
J. W. Miller, N. J.	224	282	225 60	45 40
W. B. R. Moor, Me. (not down)	745		596 00	
J. M. Niles, Conn.	336	460	320 00	51 20
J. A. Pearce, Md.	94	130	104 00	28 80
S. S. Phelps, Vt.	481	530	424 00	29 20
T. J. Rusk, Texas [not down]	2934		2347 20	
W. K. Sebastian, Ark.	1011	1900	1520 00	711 20
A. H. Sevier, (out) do. (not down)	2125		1700 00	
P. Spruance, Del.	132	150	120 00	14 40
D. Sturgeon, Pa.	125	300	240 00	94 00
H. L. Turner, Tenn.	664	1207	965 60	434 40
Joe. R. Underwood, Ky.	698	740	592 00	57 80
Wm. Upham, Vt.	516	600	480 00	77 00
Isaac P. Walker, Wis.	805	1880	1504 00	890 00
Daniel Webster, Mass.	440	530	420 00	68 00
J. D. Westcott, Jr. Fa.	1089	1390	960 00	104 80
J. D. Westcott, Jr. Fa.	[not down]	1488	1190 40	

Horace Greeley
New York Tribune
1848

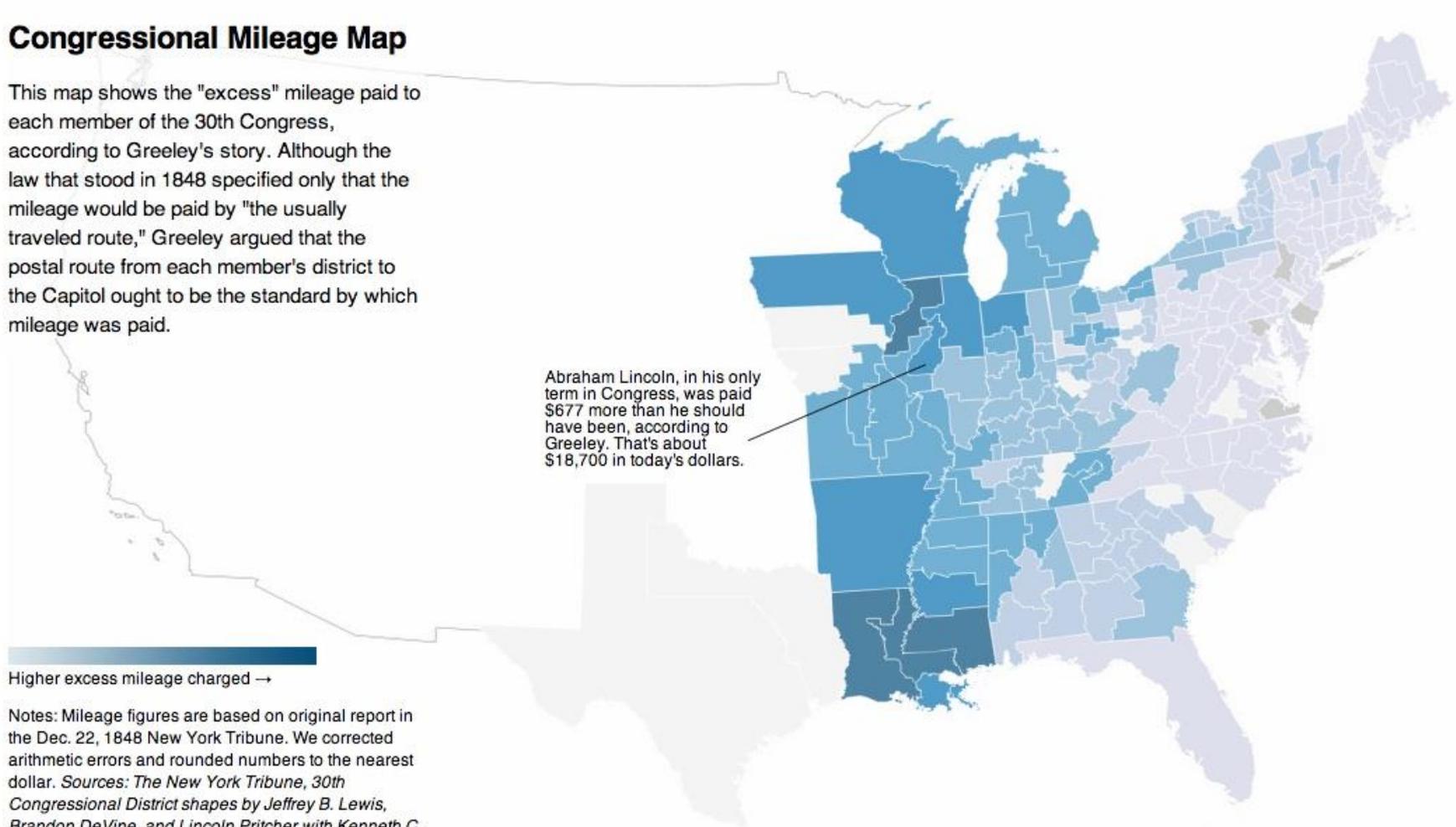
Congressional Mileage Map

This map shows the "excess" mileage paid to each member of the 30th Congress, according to Greeley's story. Although the law that stood in 1848 specified only that the mileage would be paid by "the usually traveled route," Greeley argued that the postal route from each member's district to the Capitol ought to be the standard by which mileage was paid.

Abraham Lincoln, in his only term in Congress, was paid \$677 more than he should have been, according to Greeley. That's about \$18,700 in today's dollars.

Higher excess mileage charged →

Notes: Mileage figures are based on original report in the Dec. 22, 1848 New York Tribune. We corrected arithmetic errors and rounded numbers to the nearest dollar. Sources: *The New York Tribune*, *30th Congressional District shapes* by Jeffrey B. Lewis, Brandon DeVine, and Lincoln Pritchler with Kenneth C. Martis, U.C.L.A.



1960s: computer-assisted reporting (CAR)

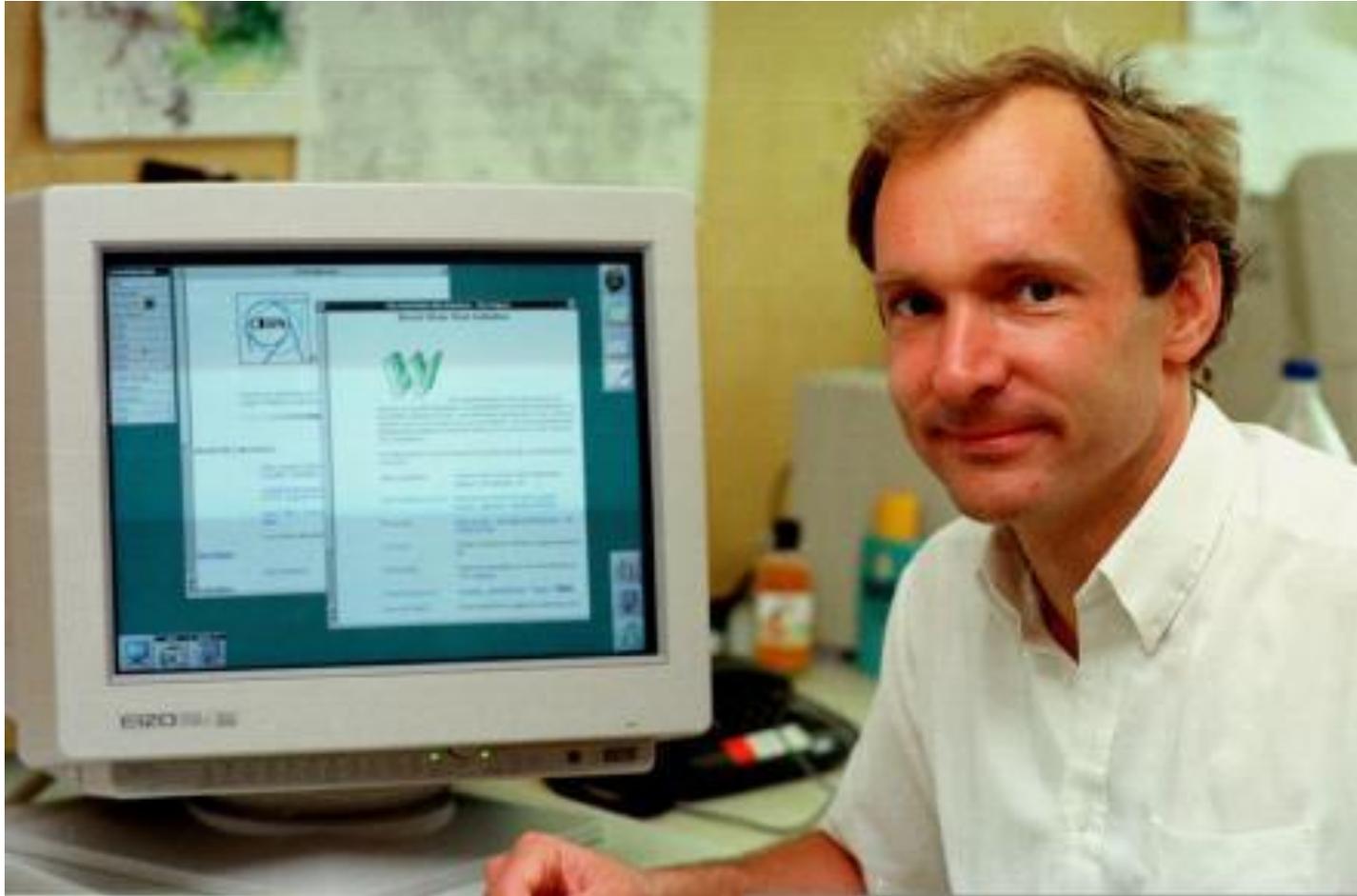


Bob Woodward, via [Cliff1066](#)

Traditional tools applying tech to journalism...

- Calculators and Graphs
- Mainframe and PCs
- Spreadsheets
- Databases
- Text and code editors
- Statistics
- Programming

In the 1990s, government and civil society spread the Internet globally



In the 2000s, mobile phones and social networking connected us ever more



In the 2010s, data creation exploded.



Image Credit: [Real Time Rome from Senseable.MIT.edu](http://RealTimeRome.fromSenseable.MIT.edu)

“Data-driven journalism is the future”



Source: [Tim Berners-Lee in the Guardian](#)

...combined with **new tools & context...**

- Online spreadsheets and wikis
- Data visualization tools
- Open source frameworks
- Code sharing
- Agile development
- Cloud storage and processing (EC2 & Heroku)
- More data and more access
- Privacy and security risks

2015: data journalism is the present

Gathering, cleaning, organizing, analyzing,
visualizing and publishing data to support
the creation of acts of journalism

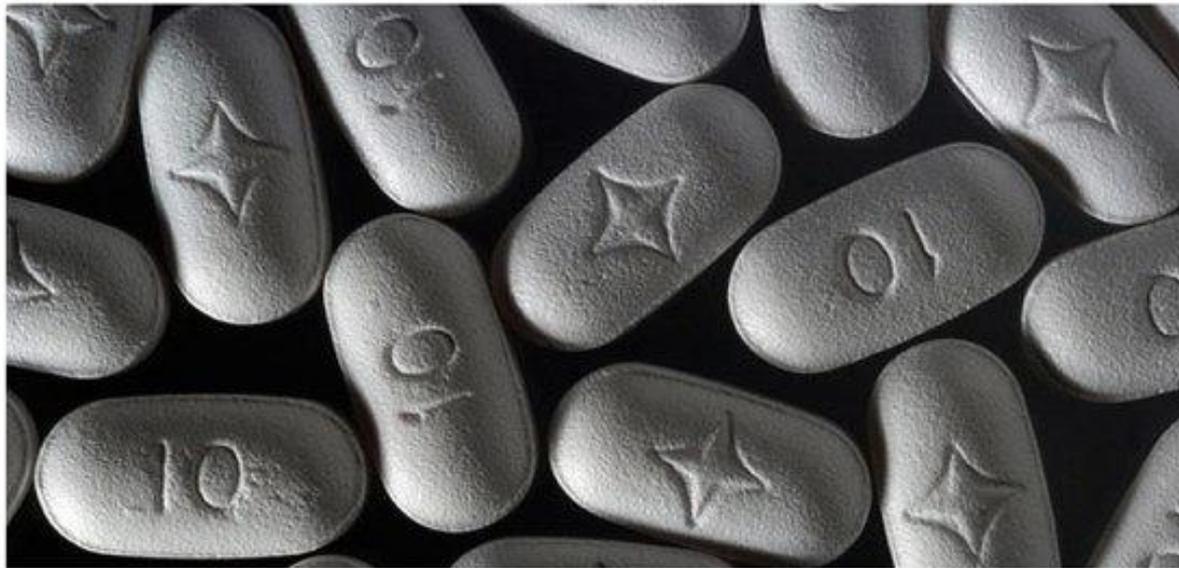


Receive our top stories daily

Subscribe via e-mail

[SIGN UP](#)

zip-code optional



Doctors on Pharma Payroll Have Blemished Records, Limited Credentials

by Charles Ornstein, Tracy Weber, and Dan Nguyen, ProPublica, Oct. 19

Drug companies say they hire the most-respected doctors in their fields to teach about the benefits and risks of their drugs. But we've uncovered hundreds of doctors on company payrolls who had been accused of professional misconduct, were disciplined by state boards or lacked credentials. Their misconduct included inappropriately prescribing drugs, providing poor care or having sex with patients. [Read more »](#)

[Lawsuits Say Pharma Illegally Paid Doctors to Push Their Drugs](#)

[Editor's Note](#)

[How Patients Can Use This Data](#)
[Steal Our Dollars for Docs Widget](#)

Docs on Pharma Payroll Have Blemished Records, Limited Credentials



Hundreds of doctors paid by pharmaceutical companies to promote their drugs have been accused of professional misconduct, were disciplined by state boards or lacked credentials as researchers or specialists, ProPublica has found. We compiled data from seven companies, covering \$257.8 million in payouts since 2009 for speaking, consulting and other duties. [Read more...](#)



This database only includes the seven companies that have disclosed payments. Their 2009 sales totaled \$109 billion—about a 34% market share. See the details of their disclosures.

	Total	Quarterly
Eli Lilly	\$102.2 M	\$26.4 M
GlaxoSmithKline	\$66.9 M	\$17.4 M
AstraZeneca	\$22.8 M	\$11.8 M
Pfizer	\$18.8 M	\$8.9 M
Merck	\$8.4 M	\$4.7 M
Johnson & Johnson	\$6.2 M	\$2.6 M

Look Up Your Doctor in Our "Dollars for Docs" Database

We compiled data from seven companies, covering \$257.8 million in payouts since 2009 for speaking, consulting and other duties. See if your doctor is in our data. [Go to the database »](#)

Trendy but **not new**

- The collection, protection and interrogation of **data as a source**, complementing traditional “shoe leather” investigative reporting relying on witnesses, experts and authorities

The Guardian

Cutswatch map: public sector cuts across the UK

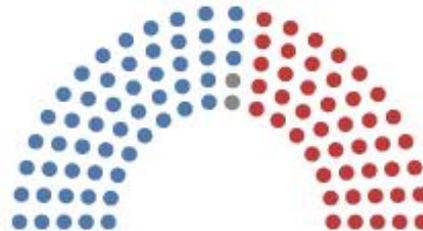
Help the Guardian's reporting team plot the effects of the government's public sector cuts on local communities across the UK by participating in our Cutswatch project. Send us details about the cuts in your area or submit your accounts of how the cuts have affected you. Find out more about how you can get involved.



[113th Congress ▼](#)[Votes](#)[Members](#)

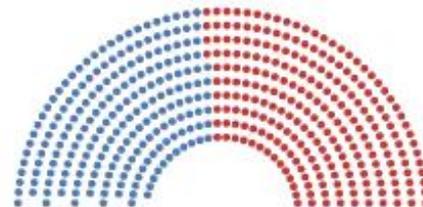
Explore the 113th Senate

View members by party, link to member pages and see how frequently they vote with their party.

[Explore the Senate >](#)

Explore the 113th House

View members by party, link to member pages and see how frequently they vote with their party.

[Explore the House >](#)

Recent key votes

SENATE | **AGREED TO**

Farm bill >

\$956.4 billion package authorizes the end of billions of dollars in direct subsidy payments to ...

HOUSE | **PASSED**

Farm bill >

\$956.4 billion farm bill makes significant changes to the nation's farm support programs, but also ...

SENATE | **AGREED TO**

\$1.1 trillion spending bill >

\$1.1 trillion omnibus spending package funds government activities through the end of fiscal year 2014.

View more votes: [Senate](#) | [House](#)

About the U.S. Congress Votes Database

The U.S. Congress Votes Database documents every vote and member of the House and Senate since 1991. Data is pulled from several sources, including the House clerk, the U.S. Senate and the Biographical Directory of the U.S. Congress. For the 112th Congress, users can analyze members and votes by various metrics, including caucus affiliations, 2010 margin of victory, and members endorsed by Tea Party Express or Freedom Works during the 2010 campaign. This site is a work in progress and will be expanded over time. If you have ideas on how to improve it, please e-mail us at politicsgraphics@washpost.com.

Chicago Tribune

WHERE FLAME RETARDANTS ARE FOUND

In home insulation

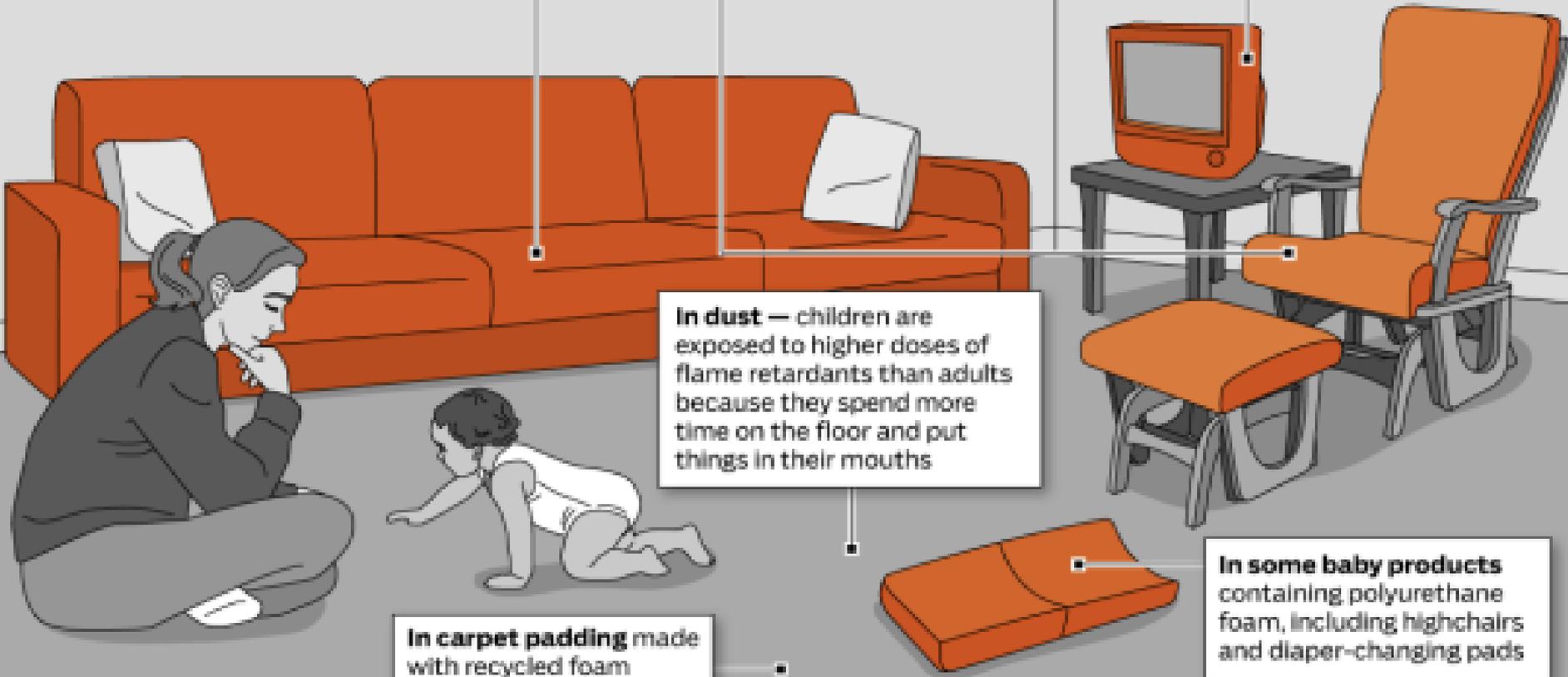
In upholstered furniture containing polyurethane foam — manufacturers add it to meet flammability standards enacted by California but followed nationwide

In the plastic casing of some electronics

In dust — children are exposed to higher doses of flame retardants than adults because they spend more time on the floor and put things in their mouths

In carpet padding made with recycled foam

In some baby products containing polyurethane foam, including highchairs and diaper-changing pads



Political Moneyball

Key



Committees connected to candidates and parties

-  Democrats
-  Republicans
-  Other parties
-  Super PACs
-  Other committees
-  Individual Donors

Filter by committee type...

Search by...

...donor occupation - ↓

GO

Look at top candidates...

See some examples...

Compare committees...

Our methodology

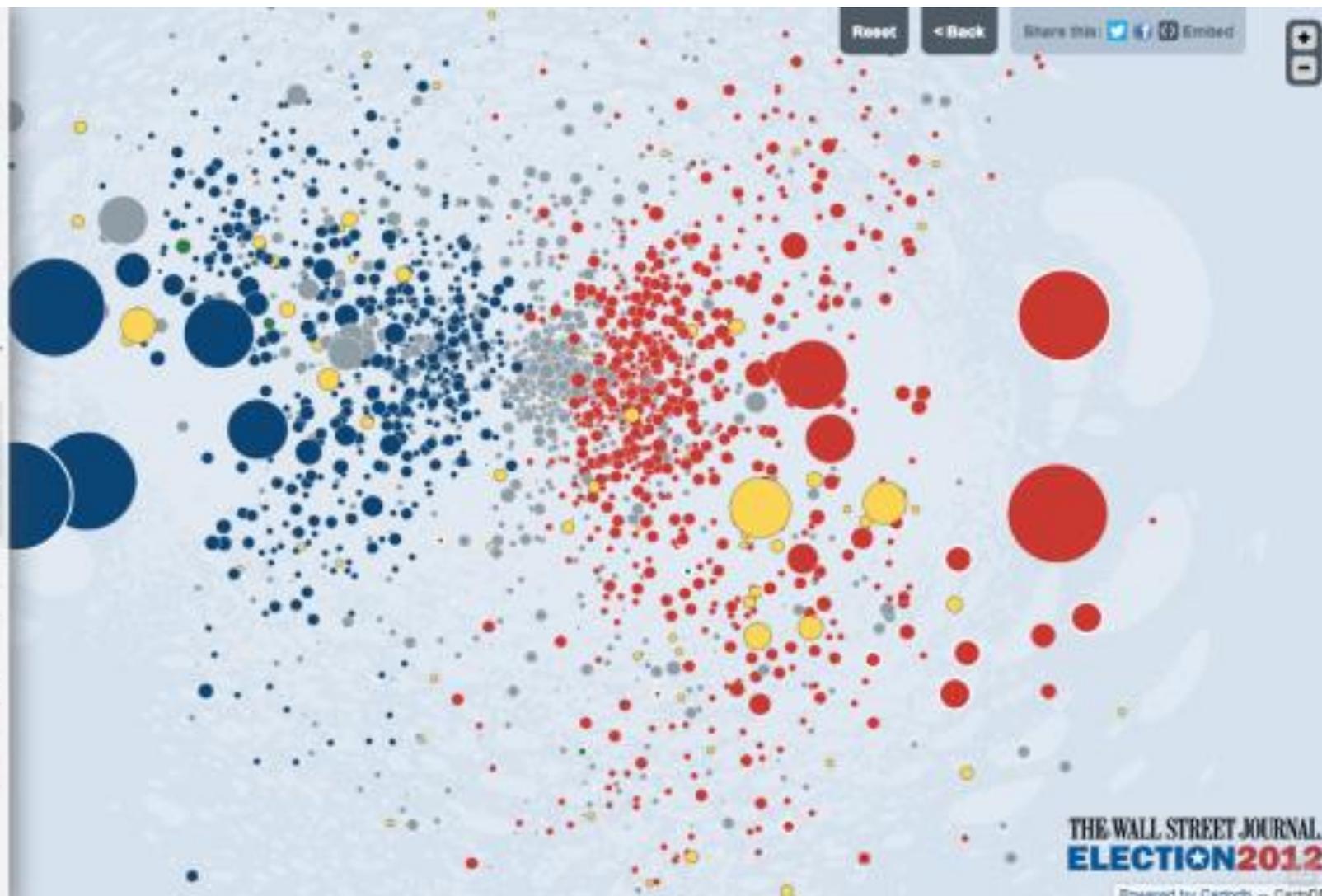
Video tutorial

Interactive graphic by
Andrew Garcia Phillips
and Sarah Glaser

Reset

< Back

Share this    Embed



THE WALL STREET JOURNAL
ELECTION2012

Powered by Cerro — Cerro00

Payments to

PayChex, Inc: \$779,429

Provides payroll, human resources and benefits outsourcing.

MAJORITY PAC

\$32,785

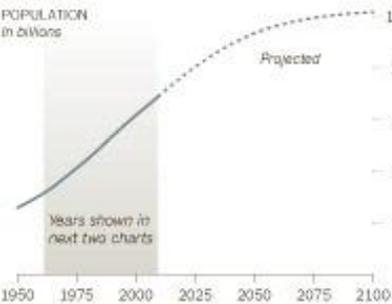
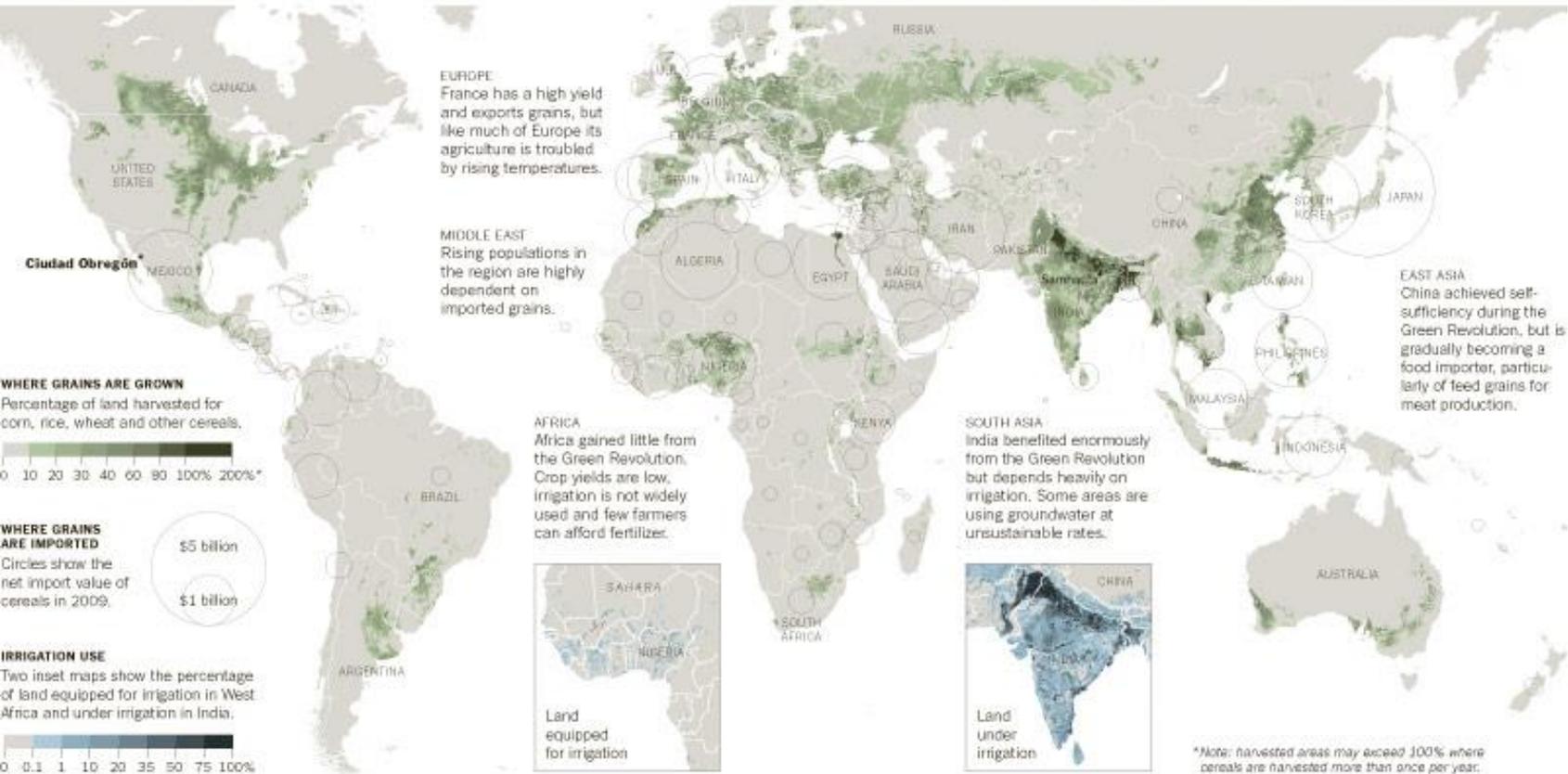
PRIORITIES USA ACTION

\$746,644

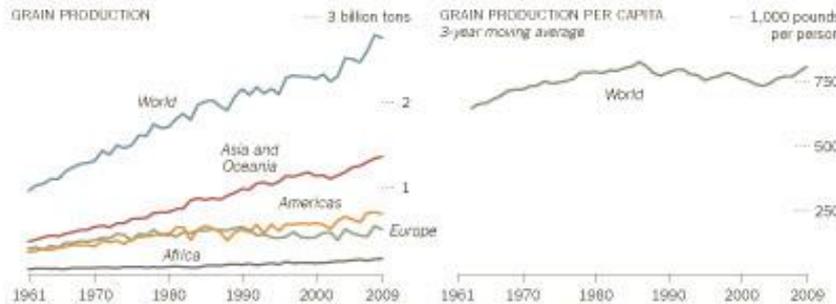
A tangled web

A Food System Under Strain

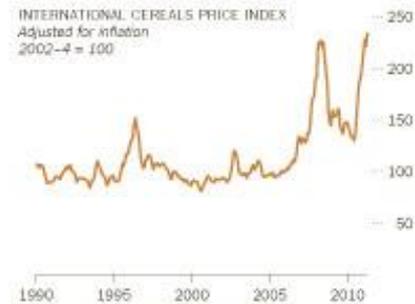
The Green Revolution that began in the 1940s raised global food output by introducing improved crop varieties and fertilizer to millions of farmers.



WORLD POPULATION IS PROJECTED TO RISE to 10 billion by 2100. More people and rising standards of living are expected to increase demand for grains.

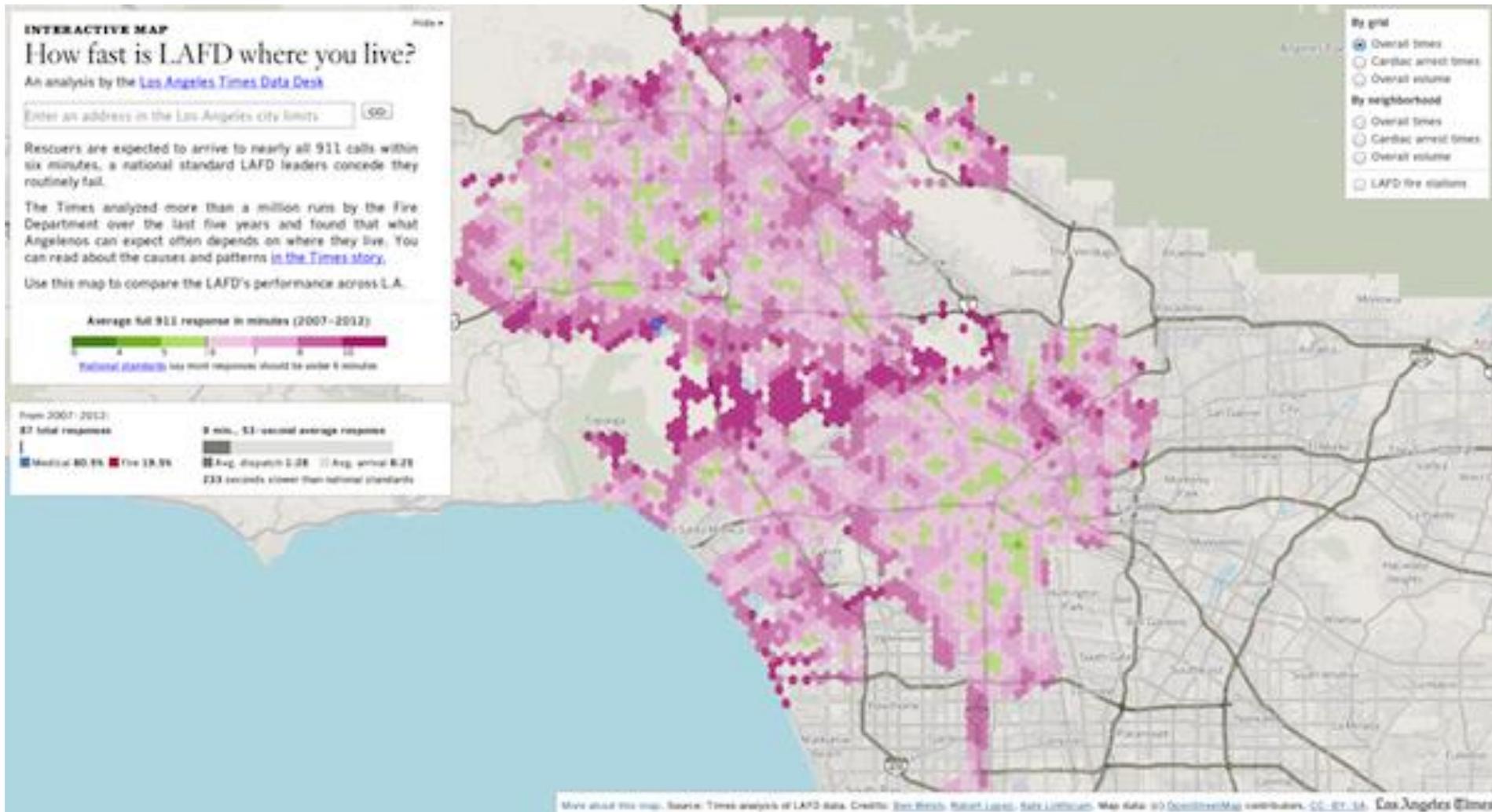


THE GLOBAL CEREAL HARVEST HAS GROWN STEADILY since the 1960s, but has not kept pace with population rise, and per capita production has fallen from its peak in the mid-1980s. A recent increase in per capita production was likely due to farmers' planting more acreage in response to price increases.



PRICE SPIKES HAVE INCREASED the number of hungry people worldwide in recent years, and led to food riots in several countries.

Los Angeles Times



THE TEXAS TRIBUNE



ETHICS EXPLORER



21 people recommend this. Be the first of your friends.

A Guide to the Financial Interests of Elected Officials

The Ethics Explorer is an interactive tool to help educate citizens on the degree to which elected officials' [personal interests conflict with the public interest](#) when passing bills and setting policy. Use the search box or click on the headshots below to find research and analysis on specific officials. You can also sort them by party, office or occupation. For more information about this project, which was generously supported by the [Fund for Investigative Journalism](#), please visit our [about page](#).

SEARCH:

BROWSE:

Party

Office

Sort By

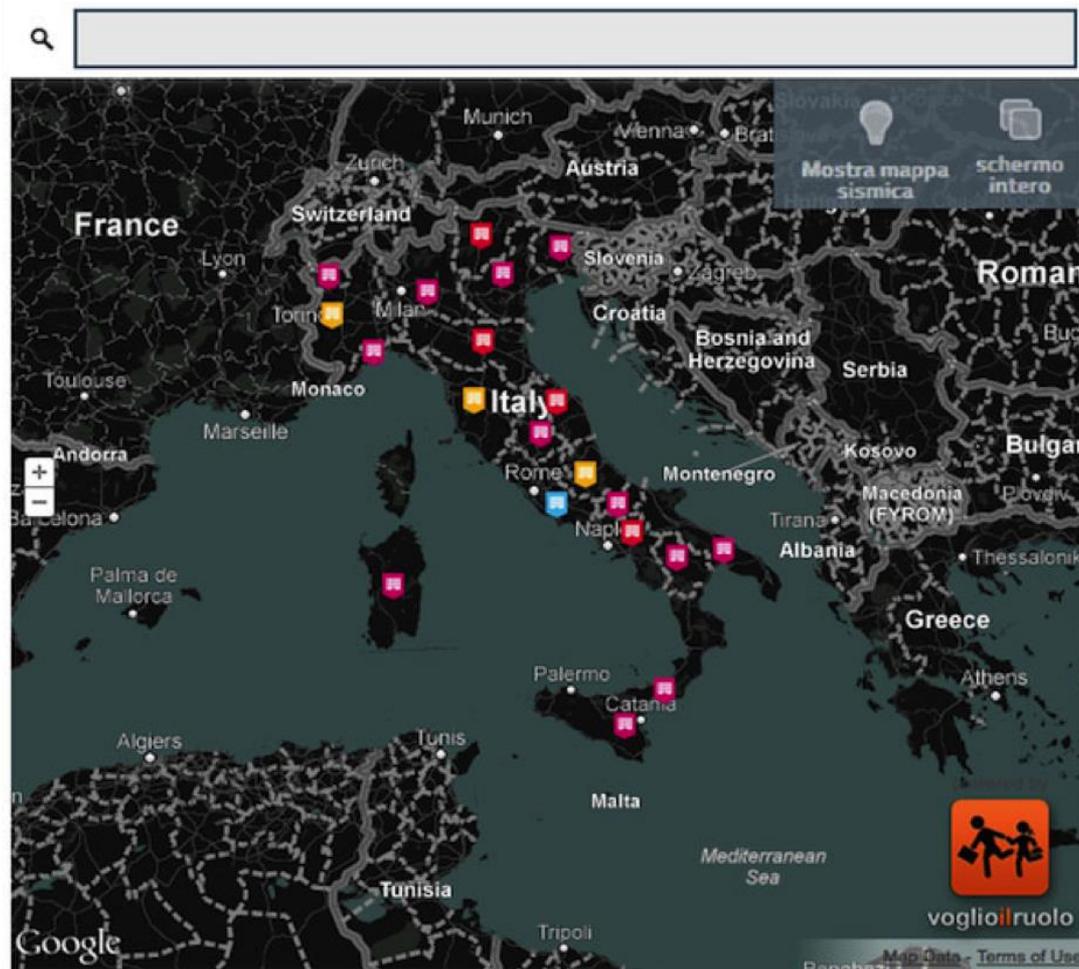
Occupation



La tua scuola è sicura? Cercala sulla mappa

L'inchiesta #scuolesicure di Wired arriva a conclusione. Ecco le informazioni su rischio sismico, verifiche e relativi costi di tutti gli edifici scolastici italiani

09 novembre 2012 di [Wired.it Staff](#)



La mappa aggiornata al 9 novembre 2012 comprende gli edifici scolastici di tutte le regioni italiane



Edificio non controllato

La Nacion

LA NACIÓN

Las propiedades de los ministros

Explore en esta aplicación interactiva las propiedades de cada uno de los ministros, sus cónyuges y las sociedades en las que alguno de ellos participe. Encuentre, para cada finca, la ubicación geográfica, el valor declarado ante la municipalidad y la estimación del valor del terreno en esa zona según los datos oficiales del Ministerio de Hacienda.

LEA ARTÍCULO COMPLETO

MINISTROS DIPUTADOS

Alejandro Cruz



Alejandro Cruz
MINISTRO DE DEFENSA Y FUERZAS ARMADAS



Alfie Piza
MINISTRO DE ECONOMÍA



Allan Flores
MINISTRO DE TURISMO



Anabelle González
MINISTRO DE CULTURA Y PATRIMONIO



Carlos Ricardo B.
MINISTRO DE LA PRESIDENCIA

Resumen de información

Alejandro Cruz

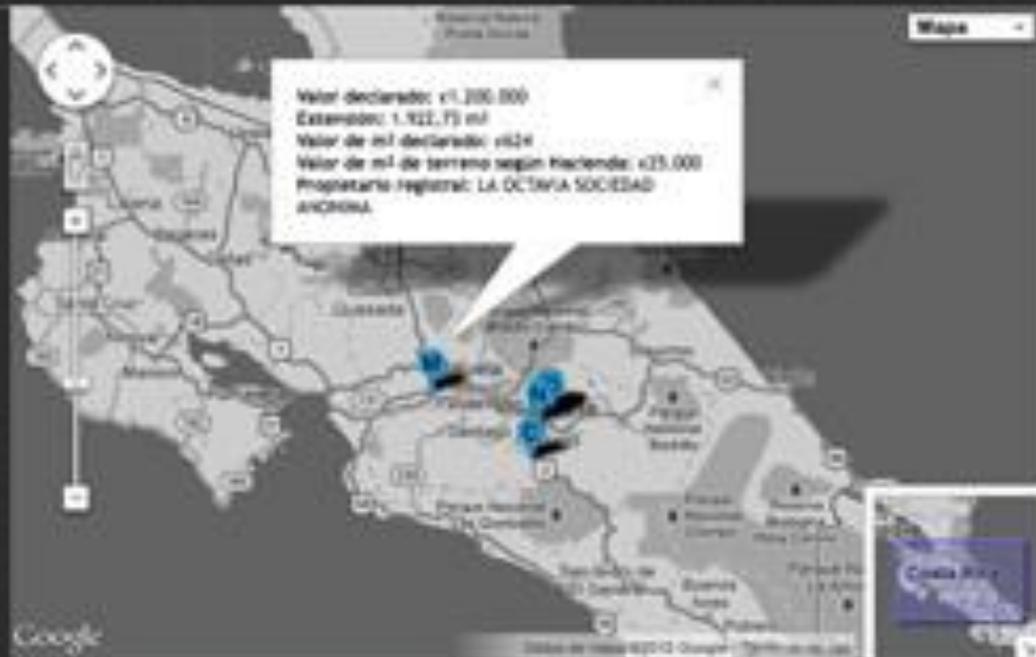
15

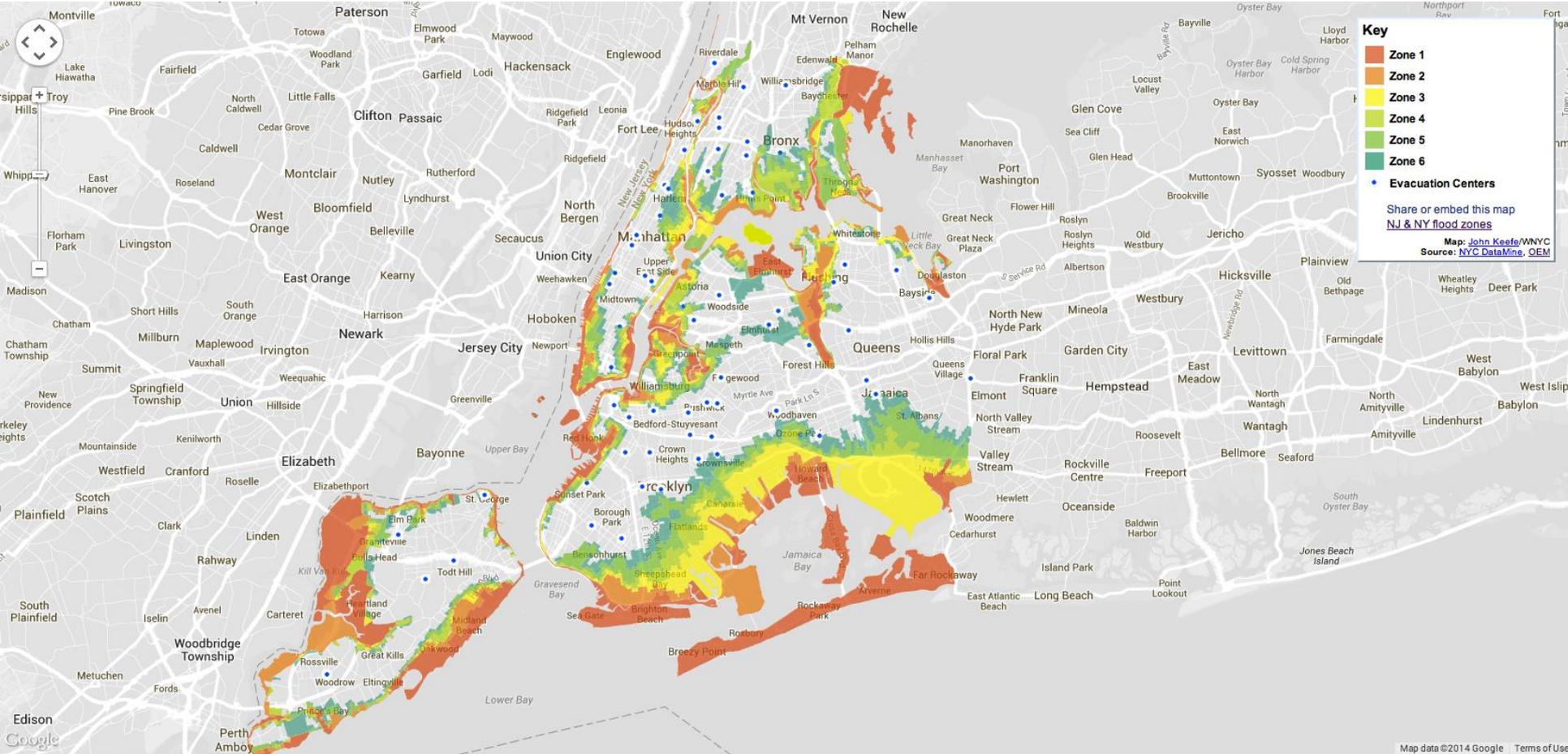
€117.567.712

569.189,38m²

PROPIEDADES

	Propiedad	Ext. (m ²)	Valor Declarado
A	3-194857-0	137.489,2	1.347.000
B	3-475011-0	114.740,1	980.000
C	3-1847159-0	198.313,3	0
D	3-681130-0	71.980,9	2.048.488
E	3-194857-0	70.798,9	1.100.000
F	3-332940-0	30.880,9	300.000
G	3-1847157-0	11.371,0	0
H	3-4401-0	0,000,0	107.000
I	3-1044859-0	0,779,9	100.000
J	3-2080718-0	4,054,0	90.000
K	3-47717-0	3,460,4	6.079.488
L	3-3024933-0	2,261,9	1.300.000
M	3-2804944-0	1,902,7	1.080.000





Key

- Zone 1
- Zone 2
- Zone 3
- Zone 4
- Zone 5
- Zone 6
- Evacuation Centers

Share or embed this map
[NJ & NY flood zones](#)

Map: [John Keefe/WNYC](#)
Source: [NYC DataMine](#), [OEM](#)

Gastos del Senado



¡Muchas gracias a todos por colaborar en el primer proyecto de Vozdata!

Ya completamos la primera etapa de 6657 documentos.

¡Lo logramos!

En breve, una vez chequeados, compartiremos la base en formato de datos abiertos.

Y el código.

¡Feliz 25 de mayo!

Liberá un documento

¡Ya revisamos 6657 de 6657 documentos!

Gastos del Senado procesados: \$ 54.186.544

Compartir

1021

917

27

Enviar por e-mail

 Compartir

 Tweet

 +1



Ranking de adjudicatarios

[ver mas](#)

1	Honorable Senado de la ...	\$ 29.739.287
2	Aerolíneas Argentinas S.A.	\$ 2.456.198
3	Derudder hnos. S.R.L.	\$ 1.480.058
4	Empresa General Urquiz...	\$ 1.356.094
5	Nueva Chevallier S.A	\$ 1.213.723
6	Servicio de comedor - Ho...	\$ 1.176.869
7	Vía Bariloche S.A.	\$ 1.044.005
8	CATA Internacional - Coo...	\$ 852.234

Ranking de rubros

[ver mas](#)

1	Pasajes aéreos, terrestre...	\$ 16.142.305
2	Caja chica	\$ 10.995.448
3	Viáticos para agentes	\$ 8.410.171
4	Viáticos y gastos	\$ 4.765.822
5	Gastos de protocolo y cer...	\$ 3.529.186
6	Otros N.E.P. (No especific...	\$ 1.426.890
7	Canje de pasajes	\$ 818.758
8	Mantenimiento y Reparac...	\$ 807.528

Ranking de usuarios

Por cantidad de documentos revisados

[ver +](#)

	ArwenMawrn	1071
	Jeep IKA	961
	chivacedo	695
	jaelariadna	645
	alkymia	512
	tessjackie	426
	Dativa	340

Best practices?

Report it out

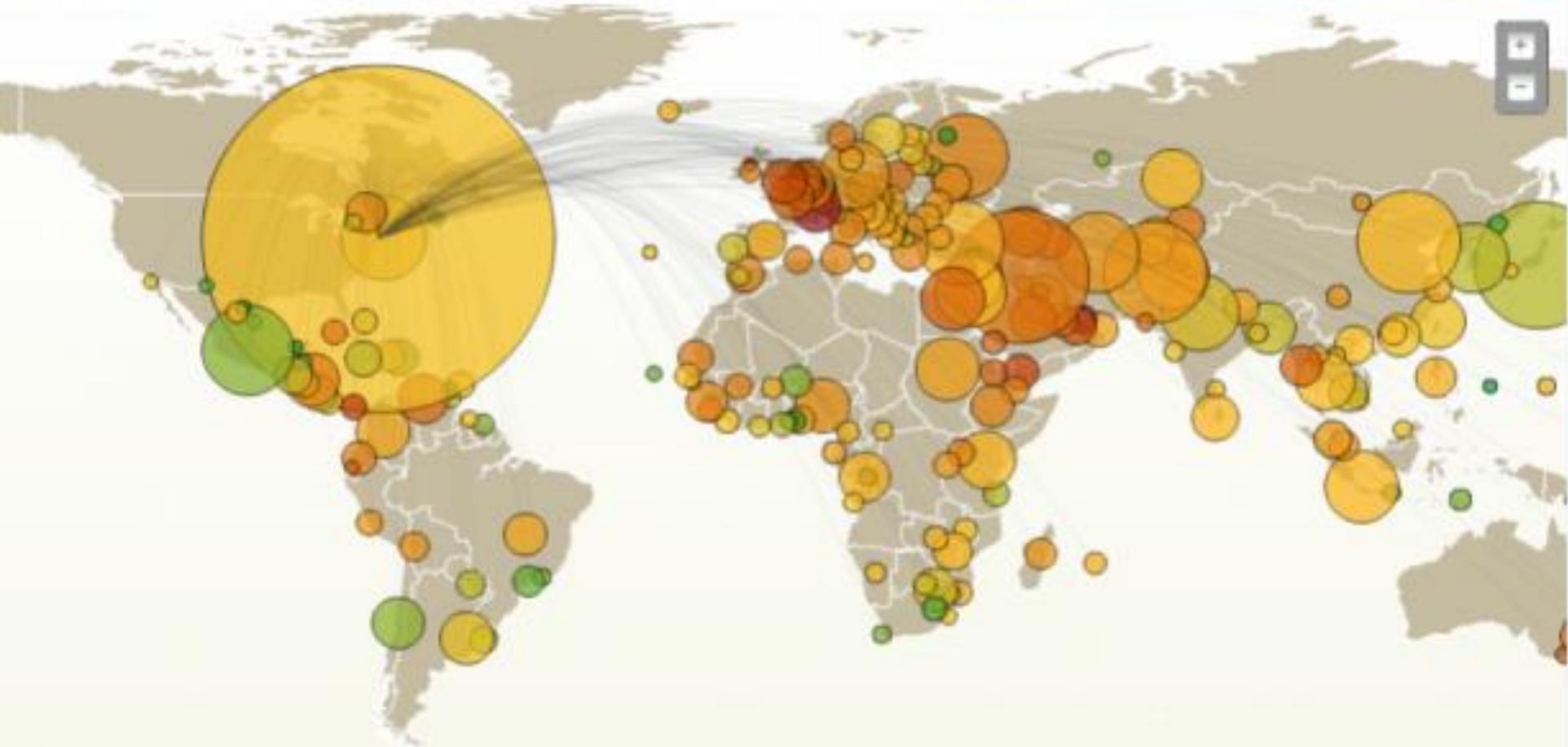
The US Embassy Dispatches

Interactive Atlas

Dossiers A-Z

The map shows **where** the dispatches originated in the chosen time period. The more dispatches, the larger the **circle**. The relative quantity of classified documents from a given location is indicated according to the **color scale** on the right. Click on a US Embassy location to see **statistics** for each representation,

Degree of classification (Color coded by degree)



2000 to 2010, by month

1966 to 2010, by year

Total time period



Play

1966 1971 1976 1981 1986 1991 1996 2001 2006 2010

2009

**Show people something
new about the world**

Fire Forecast Updated daily.

FIND MY LOCATION

Zip Code, city, etc. Go

Wildfire Danger

This map shows current large wildfires and forecast burning conditions in the lower 48 states. The map uses federal categories to describe fire conditions.

- Low
- Moderate
- High
- Very High
- Extreme
- No Forecast
- ▲ Current Large Fires

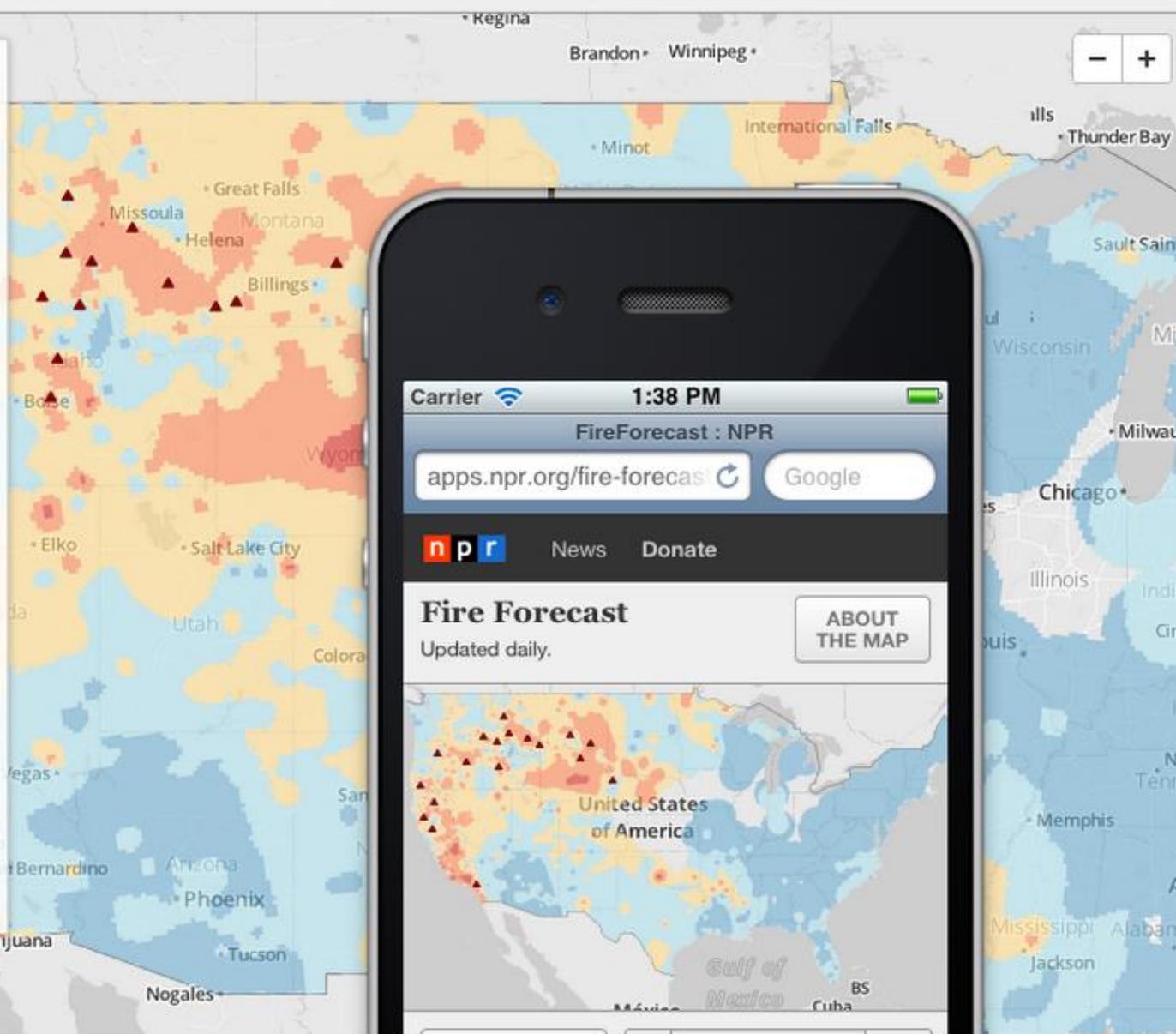
READ MORE: [Megafires: The New Normal In The Southwest](#)

By [Matt Stiles](#), [Stephanie D'Otreppe](#) and [Brian Boyer](#) — August 23, 2012

Source: U.S. Forest Service (Forecast updated each morning, fires updated every 30 minutes, 4-10 a.m. Mountain Time.)

Geocoding provided by [Mapquest](#).

Like 108 Tweet 192



Tell a story

X-ray readings compared

By [Chris Hamby](#)   email

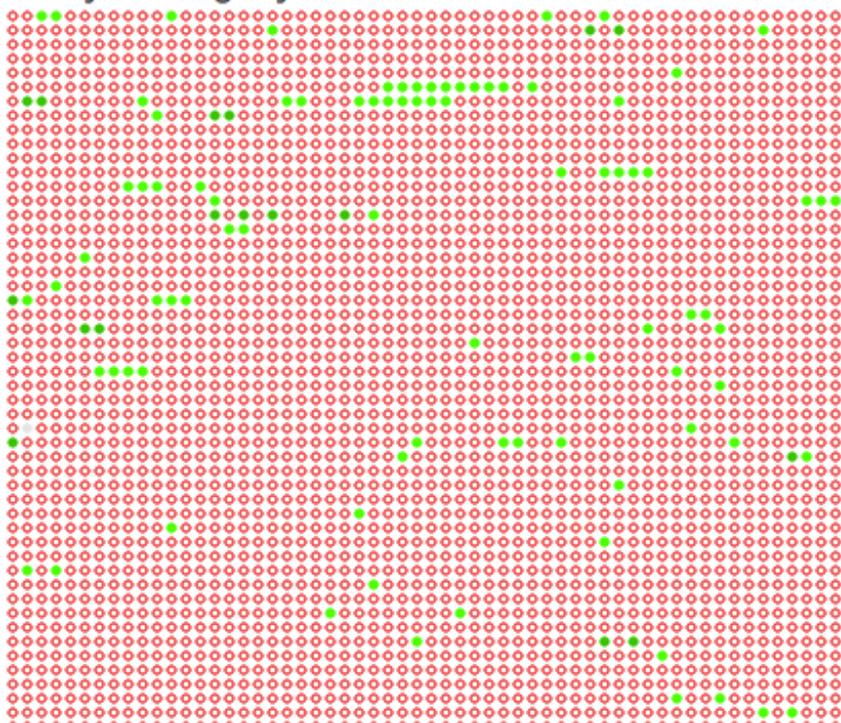
[Chris Zubak-Skees](#)   email

7:00 am, October 30, 2013 Updated: 12:51 pm, May 19, 2014

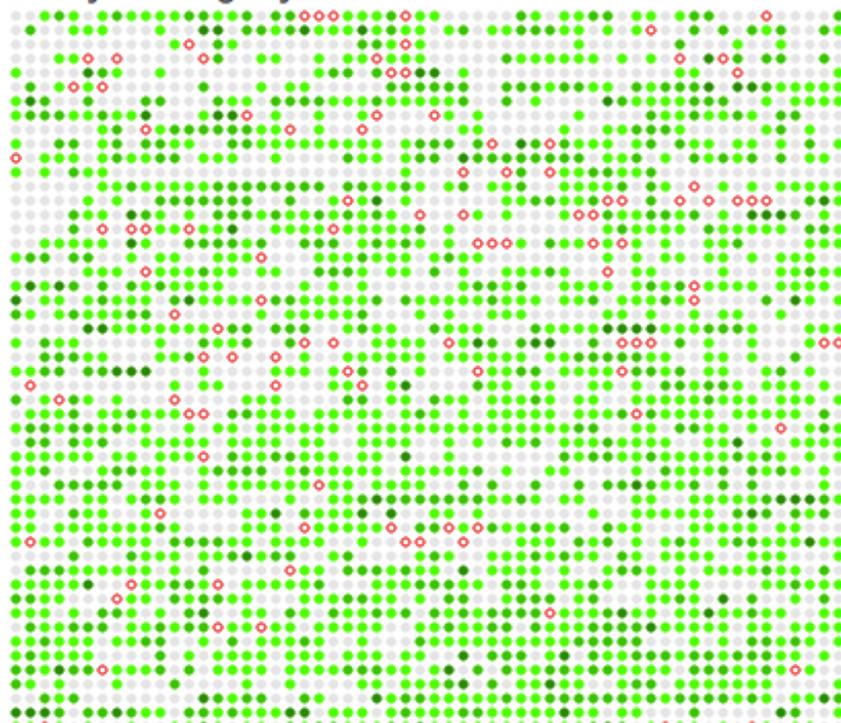
40 likes  7 tweets    2 comments [E-mail](#)

For decades, Dr. Paul Wheeler has led a unit of radiologists at Johns Hopkins who often are enlisted by the coal industry to read X-rays in black lung benefits cases. The Center for Public Integrity identified more than 1,500 cases decided since 2000 in which Wheeler was involved, reading a total of more than 3,400 X-rays. In these cases, he never found a case of complicated black lung, and he read an X-ray as positive for the earlier stages of the disease in less than 4 percent of cases. Subtracting from these the cases in which he ultimately concluded another disease was more likely, this number drops to about 2 percent.

X-ray readings by Dr. Paul Wheeler



X-ray readings by other doctors



Storytelling still matters.

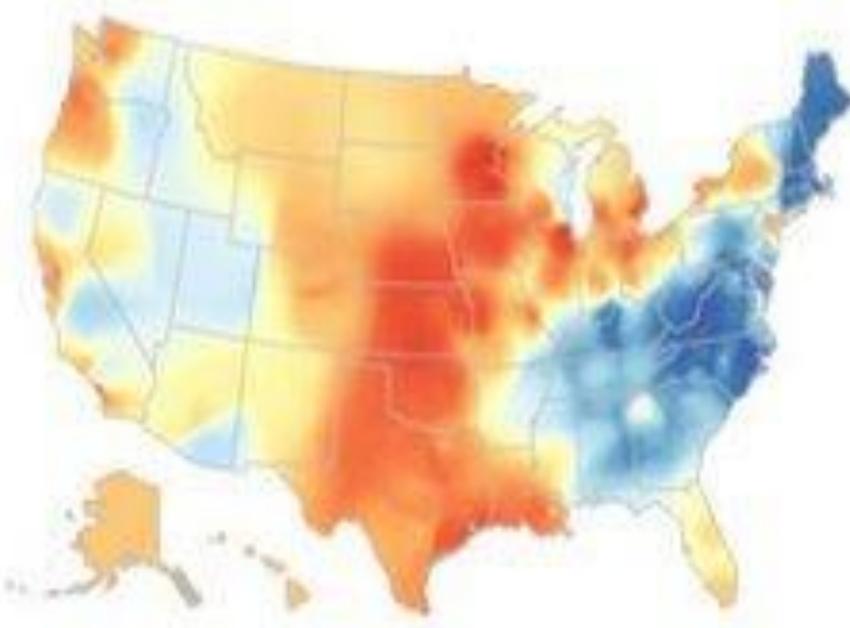
“We use these tools to find and tell stories.
We use them like we use a telephone.
The story is still the thing.”

- Anthony DeBarros
USA Today



Source: [Data Journalism and the Big Picture](#)

Make it personal



**Understand the context for
the data**



Show your data



Dollars for Docs

How Industry Dollars Reach Your Doctors

Tweet 409

Like 22k

By Eric Sagara, Charles Ornstein, Tracy Weber, Ryann Grochowski Jones and Jeremy B. Merrill, ProPublica, Updated March 3, 2014

In recent years, drug companies have started releasing details of the payments they make to doctors and other health professionals for promotional talks, research and consulting. As of 2012, 15 companies published the information, most because of legal settlements. Use this tool to search for payments. [Read more about the data](#) »

Has Your Health Professional Received Drug Company Money?

Name State

[More options +](#)

Example searches: Klein, Duke University, Miami

With 2.1 million records, this database represents:



\$2.5 billion
in disclosed payments



15
companies



~ 43%
of total market share

Payments in Your State

Click on a state to see payments made to practitioners and institutions there. See notes below.

State	Total
Alabama	\$32,352,175
Alaska	\$516,535
Arizona	\$38,739,643
Arkansas	\$15,599,178
California	\$298,077,233
Colorado	\$37,667,949
Connecticut	\$33,936,255
Delaware	\$4,263,545
District of Columbia	\$10,078,629
Florida	\$214,234,452
Georgia	\$72,421,234
Hawaii	\$3,879,724
Idaho	\$9,540,294
Illinois	\$82,167,799
Indiana	\$49,917,839

Company Disclosures

The totals listed here cover different time periods and spending categories, and aren't directly comparable. See notes below. [See what each company discloses](#) »

Company	Total Disclosed
AbbVie <small>Disclosed: July to Dec., 2012</small>	\$18M
Allergan <small>Disclosed: July 2011 to Dec. 2012</small>	Ranges*
AstraZeneca <small>Disclosed: Jan. 2010 to Dec. 2012</small>	\$275.3M
Cephalon <small>Disclosed: Jan. 2009 to Dec. 2012</small>	\$89.6M
Eli Lilly <small>Disclosed: Jan. 2009 to Dec. 2012</small>	\$608.8M
EMD Serono <small>Disclosed: Jan. 2011 to Dec. 2012</small>	\$4.4M

Our Stories



As Full Disclosure Nears, Doctors' Pay for Drug Talks Plummets

As transparency increases and blockbuster drugs lose patent protection, drug companies have dramatically scaled back payments to doctors for promotional talks. This fall, all drug and medical device companies will be required to report payments to doctors.

Freed of Disclosure Requirement, Drug Maker Pulls Doctor Payments Offline

Drugmaker Cephalon had been required to post its payments to doctors online as part of a lawsuit settlement. After its agreement expired, it removed them from its website.

Dollars for Docs Mints a Millionaire

New data show drugmakers' payments to hundreds of thousands of doctors, and some have made well over \$500,000.

Background Stories

[Docs on Pharma Payroll Have Blemished Records, Limited Credentials](#)

[Med Schools Flunk at Keeping Faculty Off Pharma Speaking Circuit](#)

Show your work

Meet Leo, Our Senate Model

LEO was the [first computer](#) for ordinary businesses. We've named our Senate forecasting model after it. Our model, created by Amanda Cox and Josh Katz, combines polls with other information to predict how many Senate races Democrats and Republicans will win this year.

How does Leo interpret a poll?

LEO SAYS We focus on the margin between two major candidates, taking steps to make different polls directly comparable. We tweak polls that count registered voters instead of likely ones. We make further adjustments depending on who conducted the poll.

Share your code



Search or type a command



Explore Gist Blog Help



digiphile



NPR Tech

Washington, DC

Filters

Find a repository...

responsiveframe

Responsive IFrames

Updated on May 13

JavaScript ★ 167 📄 60

WP-DS-NPR-API

Updated on May 9

PHP ★ 7 📄 5

potluck

A social content aggregator prototype, built at NPR Digital Media during an NPR Serendipity hackathon with Node.js, Express.js, Node Bootstrap, Twitter Bootstrap and lots of love for Open Source Software + Journalism

JavaScript ★ 10 📄 4

Members

20 >



Consider ethics

Questions

- Is the data clean?
- Is the data representative?
- What biases might be hidden in the data?
- Was the data legally obtained?
- Does the data contain personally identifiable information (PII)?

Collection

- Who gathered the data? How?
- Was it clear how data would be used?
- Can people opt-out of collection or usage?
- “Notice and consent” is not enough
- “Privacy by design” applies to news apps

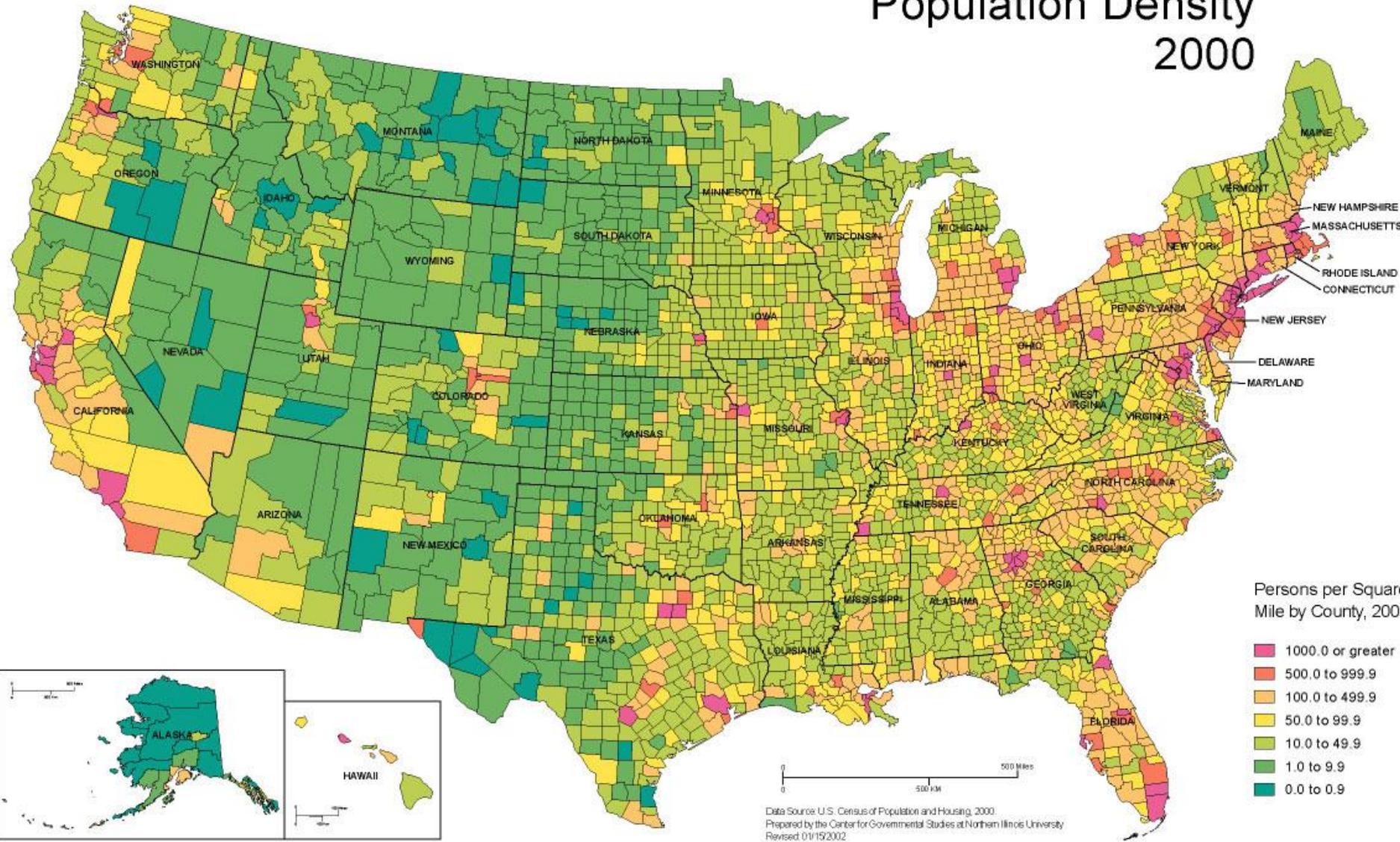


FIRST DO NO HARM

Data Analysis & Numeracy

- $N = ?$
- Average vs Median
- Statistical significance?
- Correlation \neq causation
- Regression to the mean

Population Density 2000



Persons per Square Mile by County, 2000

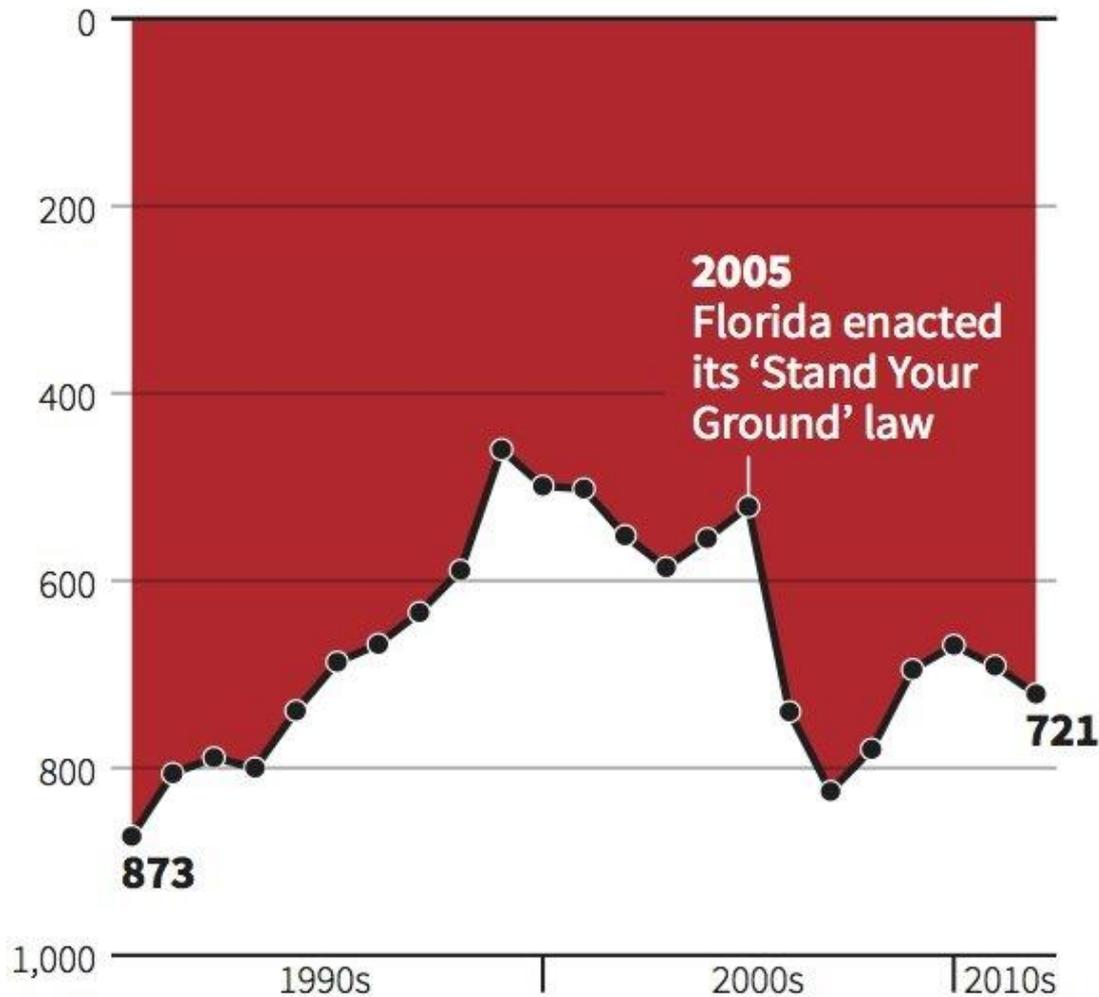
- 1000.0 or greater
- 500.0 to 999.9
- 100.0 to 499.9
- 50.0 to 99.9
- 10.0 to 49.9
- 1.0 to 9.9
- 0.0 to 0.9

Data Source: U.S. Census of Population and Housing, 2000.
 Prepared by the Center for Governmental Studies at Northern Illinois University
 Revised 01/15/2002

Gun deaths in Florida

Presentation

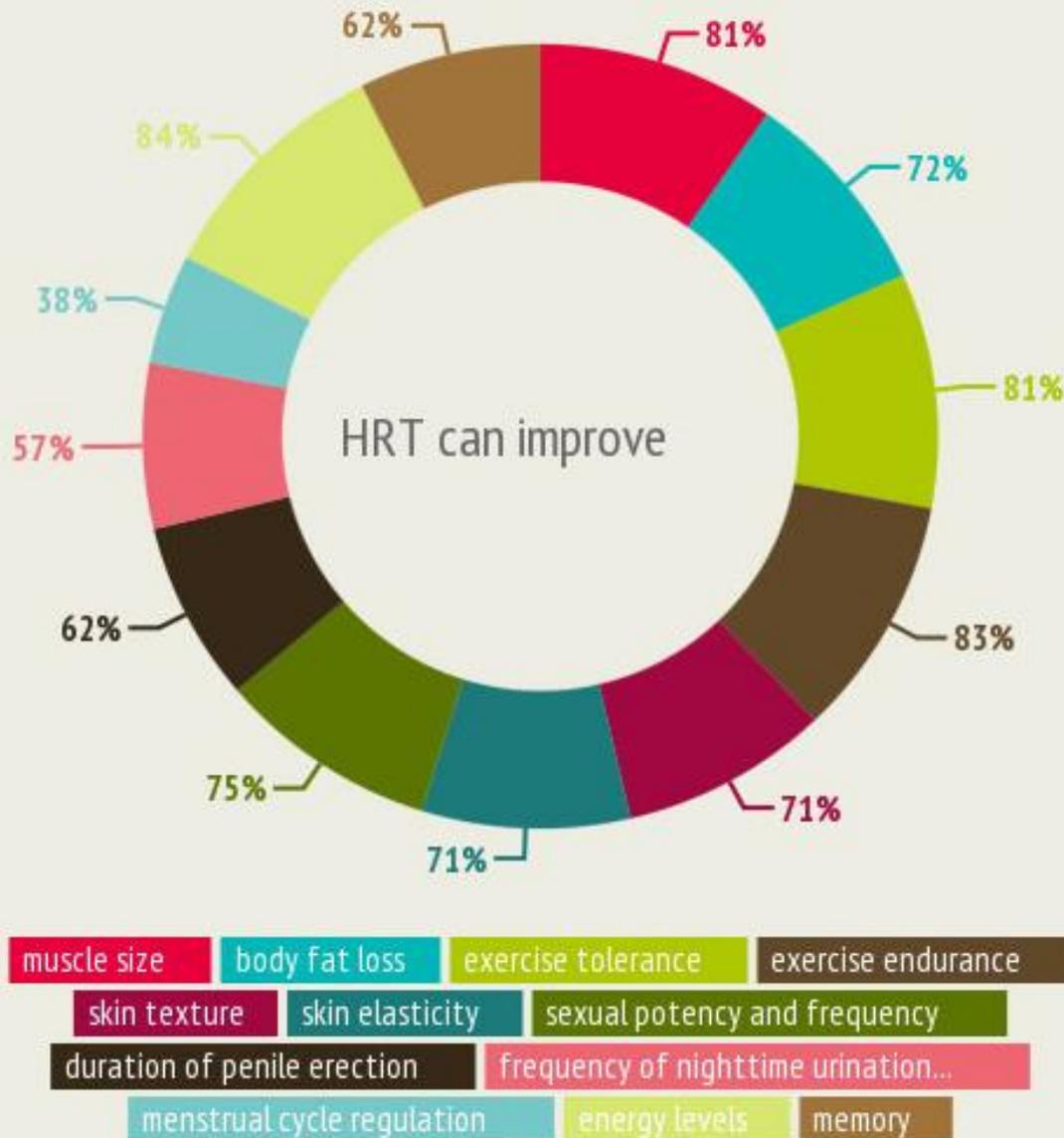
Number of murders committed using firearms



Source: Florida Department of Law Enforcement

Bad Data Viz

wtfviz.net



Present data with **context**, in context

SECTIONS



HOME



SEARCH

The New York Times

digiphile



SHARE

How Much Medicare Pays for Your Doctor's Care

Use the form below to find a doctor or other medical professional among the more than 800,000 health care providers that received payments in 2012 from Medicare Part B, which covers doctor visits, tests and other treatments. Payments may also cover overhead, such as staff salaries and drug costs. In some cases, when doctors work as salaried employees of group practices, the payments that show up under their names go to their institutions.

Related Articles: [Sliver of Medicare Doctors Get Big Share of Payouts](#), [The Medicare Data's Pitfalls](#) APRIL 9, 2014

Name

Specialty

All Specialties



City or ZIP Code

SEARCH

Be aware of de-anonymization risks

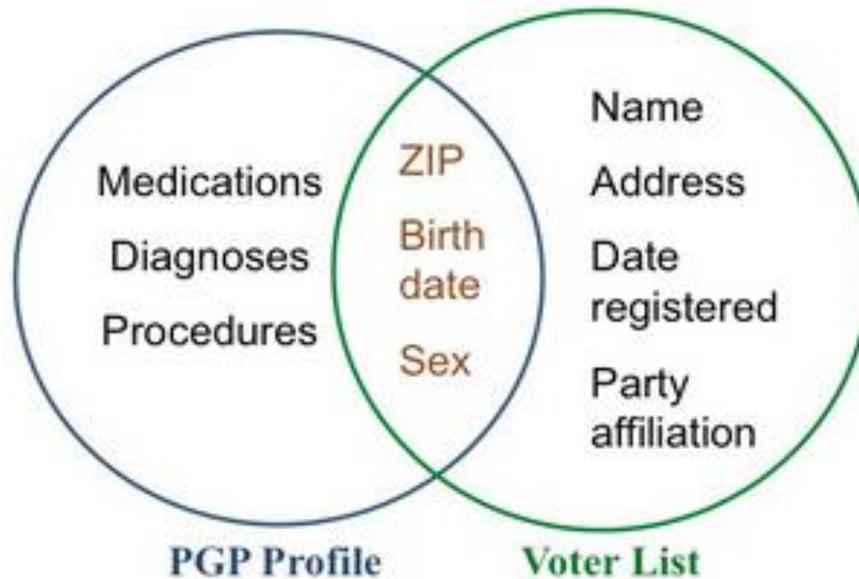


DATA PRIVACY LAB

Personal Genome Project

PGP
Participants

Test your
demographics



Emerging trends

geojournalism

INFOAMAZONIA 

Maps and data



EXPLORE

MAPS

GET THE DATA

SHARE A MAP

SUBMIT A STORY

ABOUT



pt

es

en

Choose a publisher

DEFORESTATION

HYDROELECTRIC POWER

MINING

FIRE

FORCED LABOR IN AMAZONIA

MORE...



Operation against illegal mining in buffer zone of the Tambopata National Reserve

Pollution of rivers, forest clearing and a desert landscape is what is observed in images of the operation against illegal mining in La Pampa, in

the area known as "Mega 14" in full buffer zone of the Tambopata National Reserve.

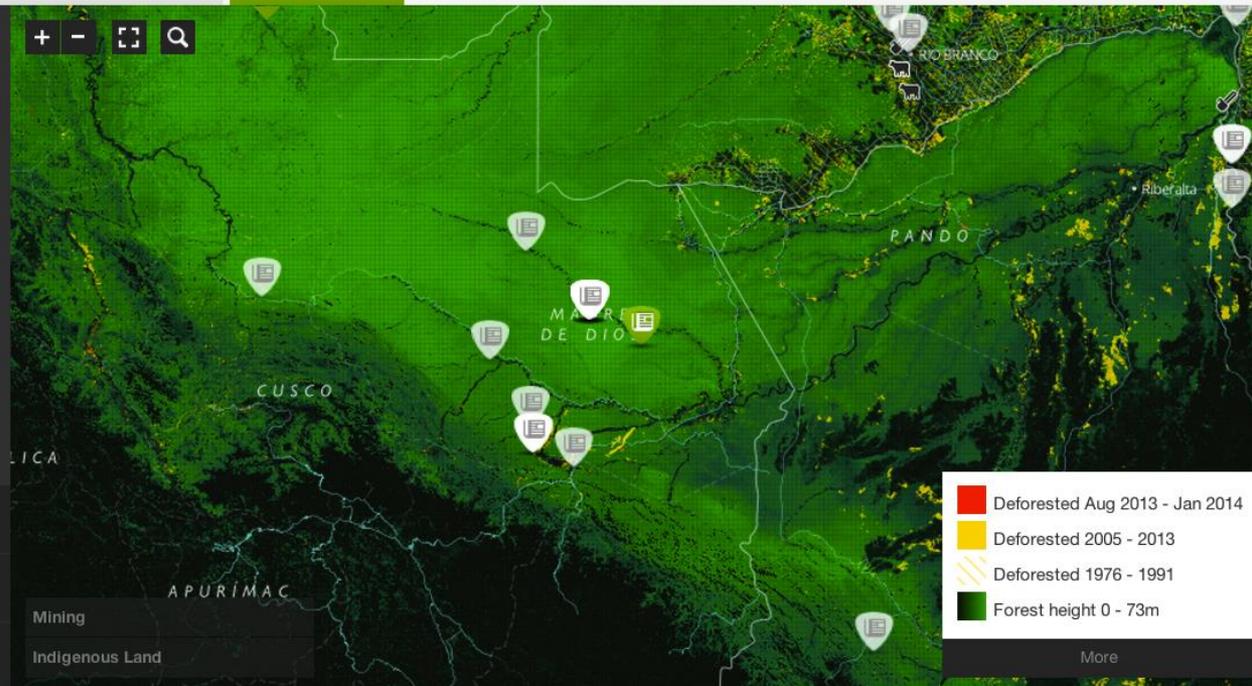
READ MORE

SHARE

Fishing Management Program of paiche was approved for Pacaya Samiria Reserve

Scientific American: Human-lit fires can pose threat to Amazon rainforest

El Universo: Ministry of Environment signed environmental license to exploit o...



Networked reporting of corruption



ICIJ: [Offshore Leaks](#)

International Consortium of Investigative Journalists

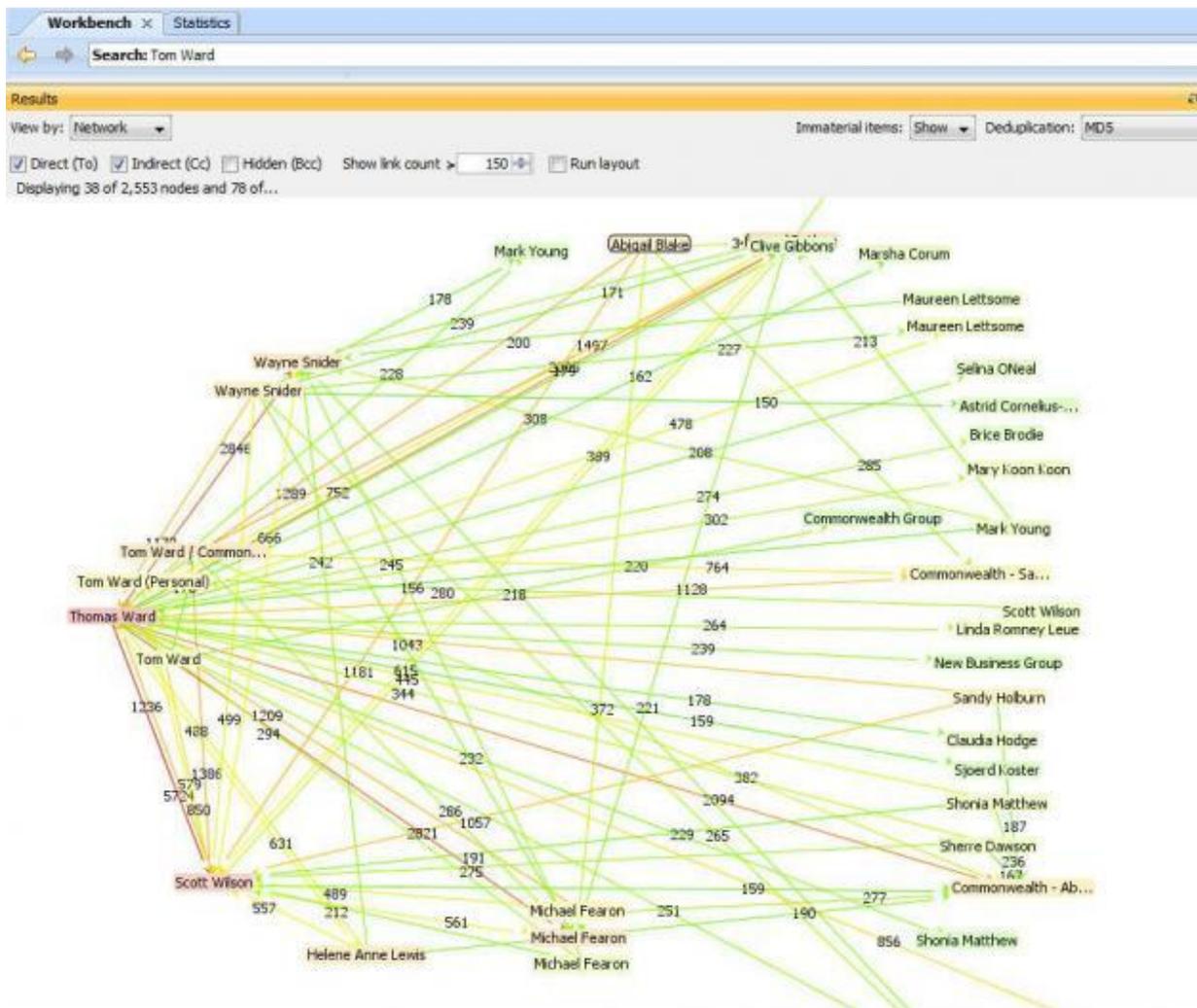
Offshoring \$

80 journalists

40 countries

260 gigabytes

2.5 million files



Reuters: Connected China

SOCIAL POWER

HIDE CLUES

VISUALIZATION GUIDE

1/5

Social power begins with family

In elite Chinese politics, accumulated social capital is essential for promotion into the higher ranks of the Party, and powerful family connections play a crucial role in all spheres of society.

Princelings, the sons and daughters of powerful leaders, draw their own influence from the connections of their parents and family friends.

The spouses of princelings, sometimes called **"Golden Sons-in-Law"** in the Chinese press, have risen high in the Party and beyond.



Create your data

“If Stage 1 of data journalism was “**find and scrape data**,” then...

Stage 2 was “**ask government agencies to release data**” in easy to use formats.

Stage 3 is going to be “**make your own data**”, and those sources of data are going to be automated and updated in real-time.”

-[Javaun Moradi](#), Mozilla

Safecast

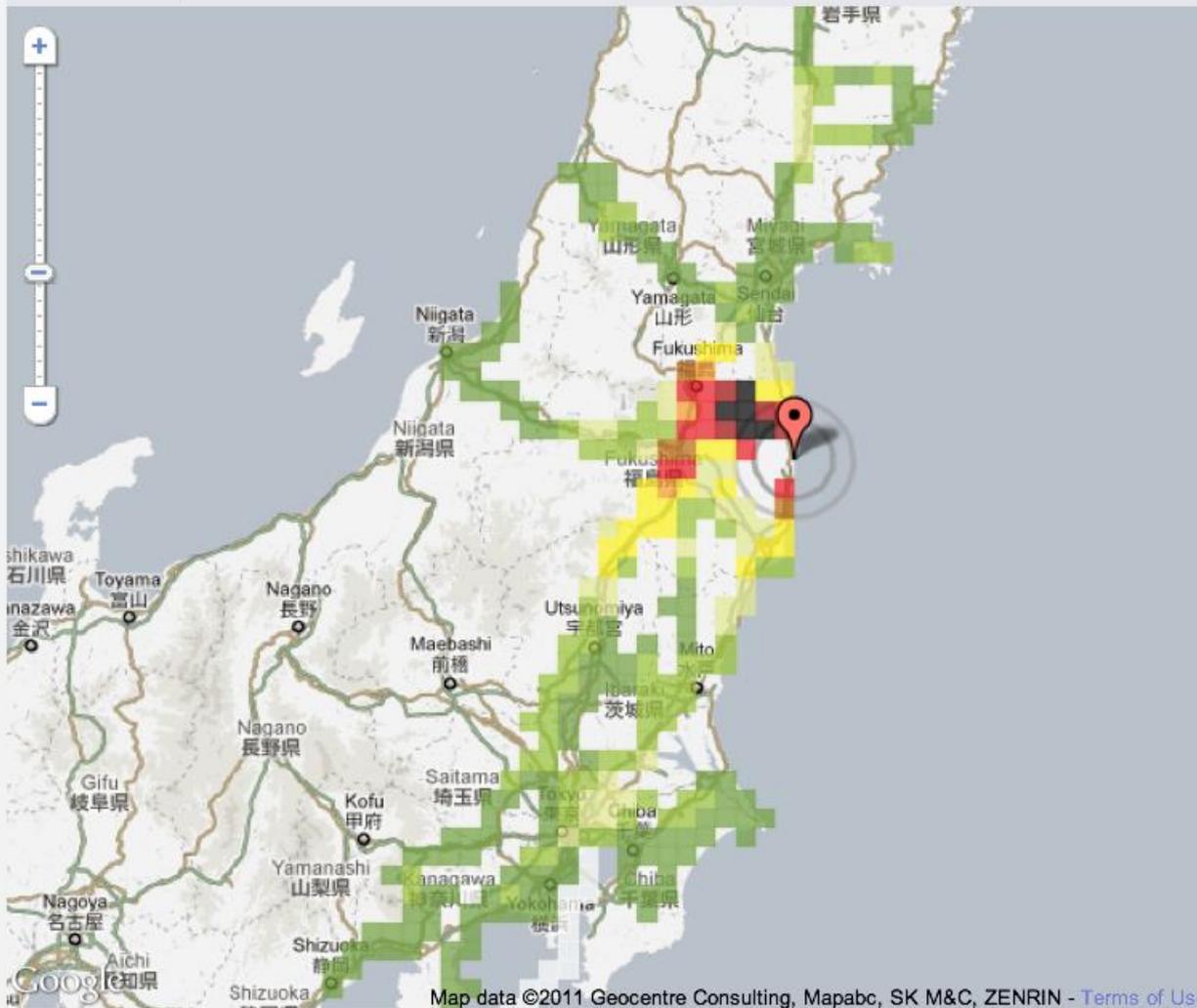
[open source](#)

[Geiger counter](#)



Networked accountability

Safecast Map



The Safecast Map depicts over 500,000 radiation data points collected by the Safecast team throughout Japan. For each square, numerous geiger readings have been collected and color-coded. For detailed maps showing all data points, please visit the [Drive Maps page](#).

- [Interact with full data set](#)
- [Individual drive maps](#)

Want to help us collect more data?



Bus route in Nairobi, Kenya



Sensor Journalism

SENSING AIR QUALITY AT THE OLYMPICS

Ap

POLLUTION IN BEIJING

COUNTRYWIDE POLLUTION

THE GOVERNMENT SOLUTION

BACK TO MENU

Click on photo to see data from selected date



photos taken at the time of sampling

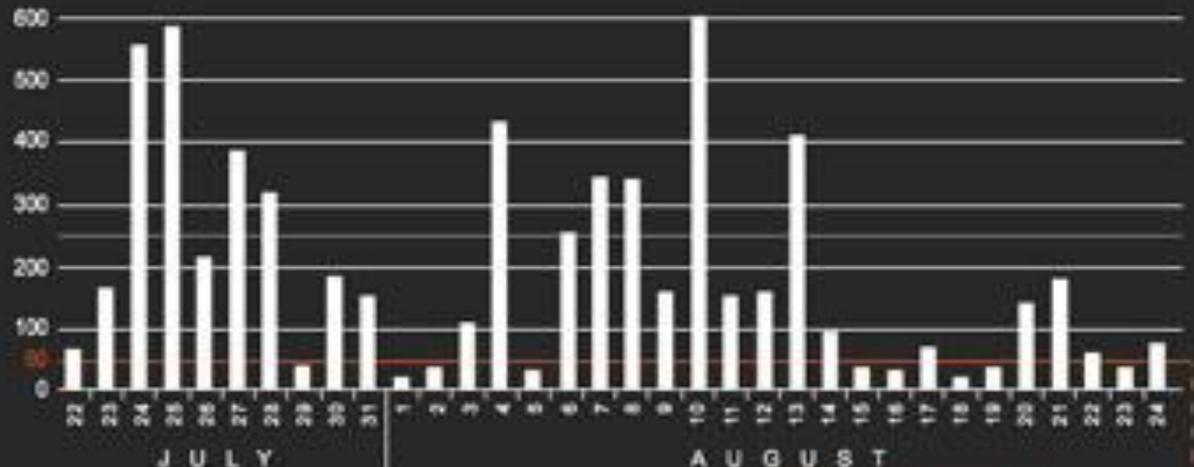
Particulate matter measurements in Beijing

Particulate matter, or PM10, are inhalable coarse particles, with diameters smaller than 10 micrometers. The source of PM10 can be natural or man-made. Man-made causes include the burning of fossil fuels and construction projects. High concentration levels of PM10 in the air are a cause for concern because these inhalable particles can settle in the bronchi and lungs and cause health problems.

Location of testing (Bird's Nest)



700 micrograms per cubic meter



WHO air quality target
for developing countries
50 micrograms per cubic meter

Cicada Tracker

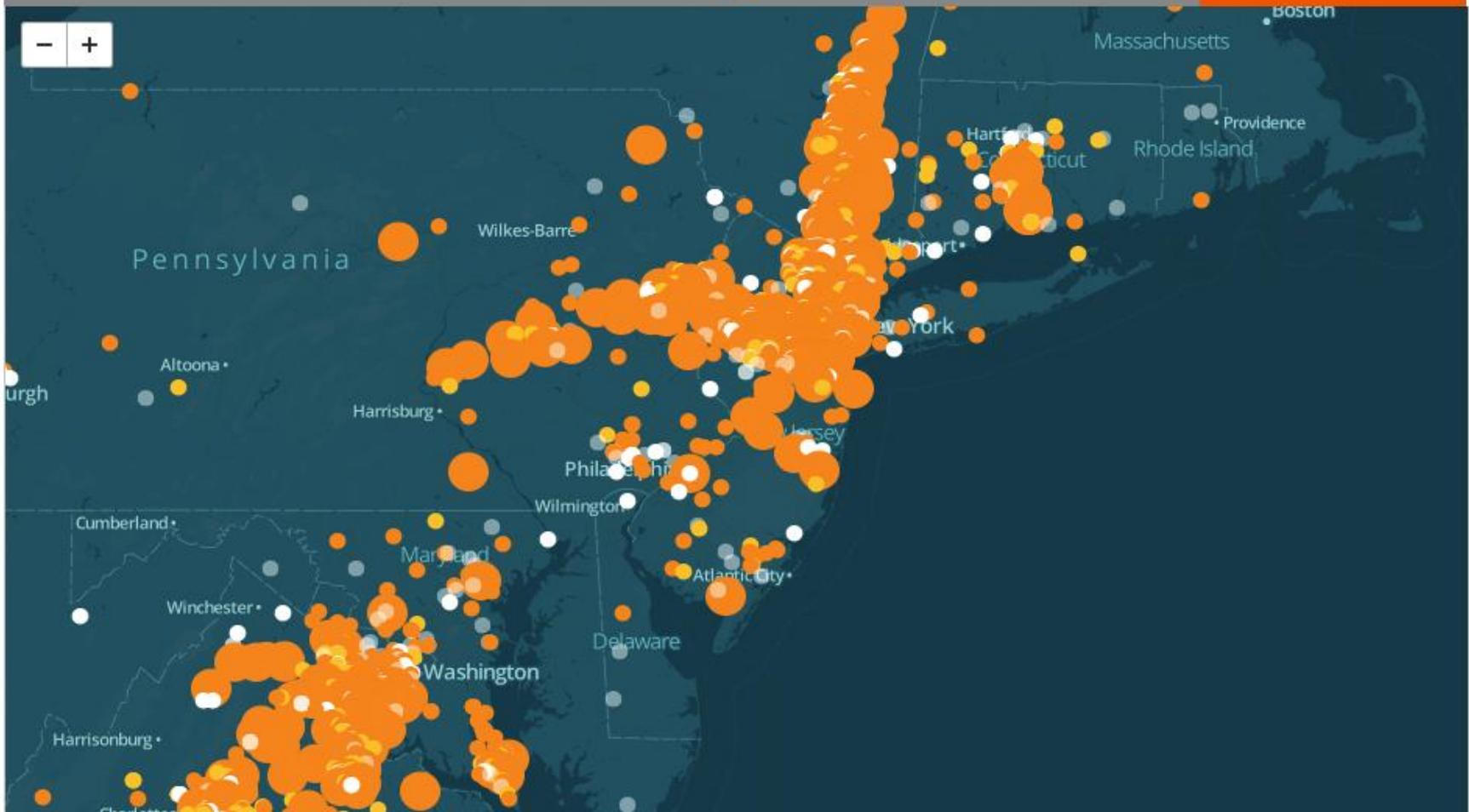
[Map](#)[See Cicadas?](#)[Build a Sensor](#)[Decode Temps](#)[Bug Blog](#)

RADIOLAB Mapping Swarmageddon

[Tweet](#) [Like](#)

Help Radiolab predict the 17-year cicadas' arrival from GA to CT. We're watching soil temps 8" down, waiting for readings of 64° F — when the cicadas should start to emerge. Use a garden-store soil thermometer, or [build a detector](#).

Only heard: Seen: Nymphs New adults Adults 100+ adults

[Switch to temp readings](#)

Playgrounds For Everyone

A community-edited guide to accessible playgrounds.
So far, we've identified 1,301. Help us find more!

 On Your Smartphone: Visit npr.org/playgrounds



Find An Accessible Playground



OR



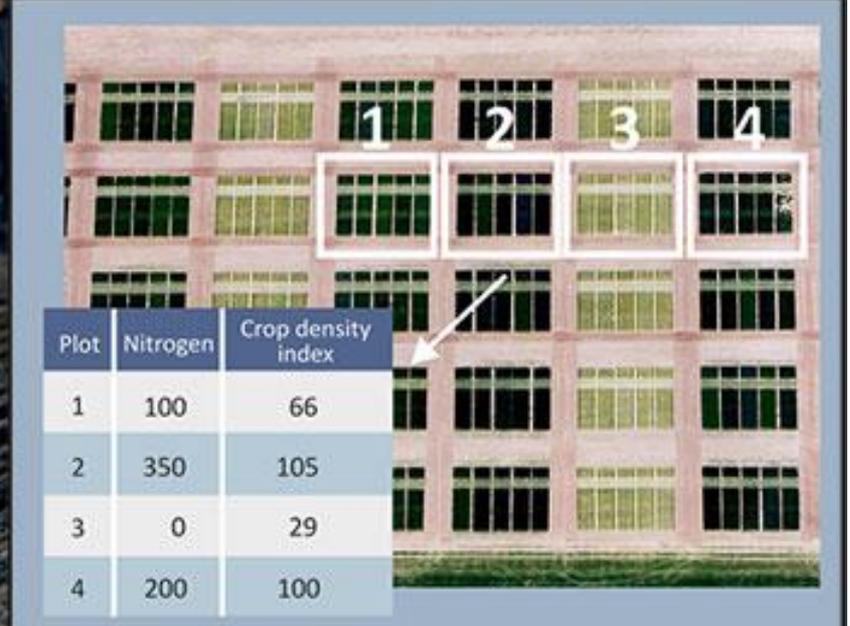
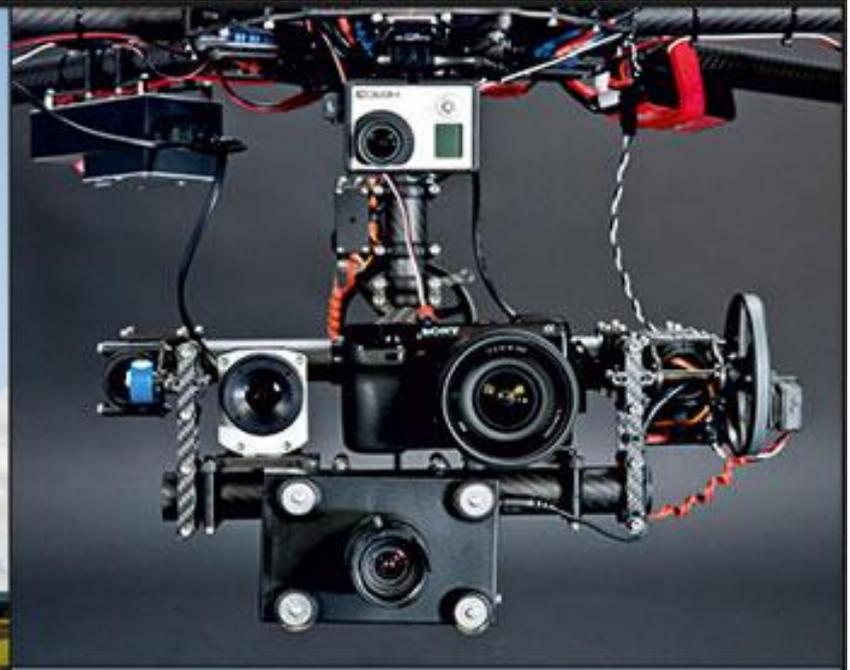
Find Playgrounds Nearby

For example, [600 Central St, Evanston, IL](#) or [New York, NY](#) or [79410](#)

Citizens as Sensors: Andhra Pradesh



Drones + data collection



Privacy challenges



Wikileaks Iraq war logs: every death mapped

The Wikileaks Iraq war logs provide us with a unique picture of every death in Iraq. These are those events mapped using Google Fusion tables

- [Download the data from the Datablog](#)

 Tweet 1,703

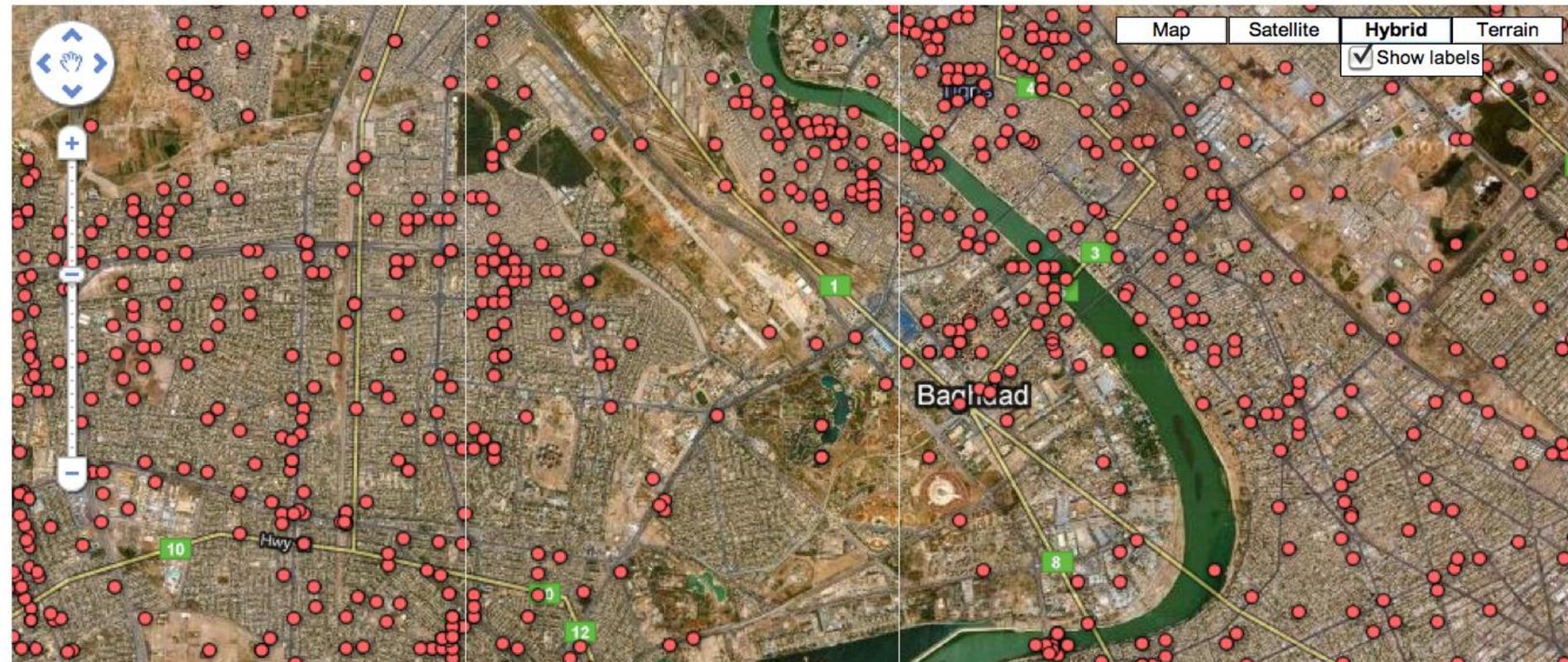
 Share 8918



 Comments (85)

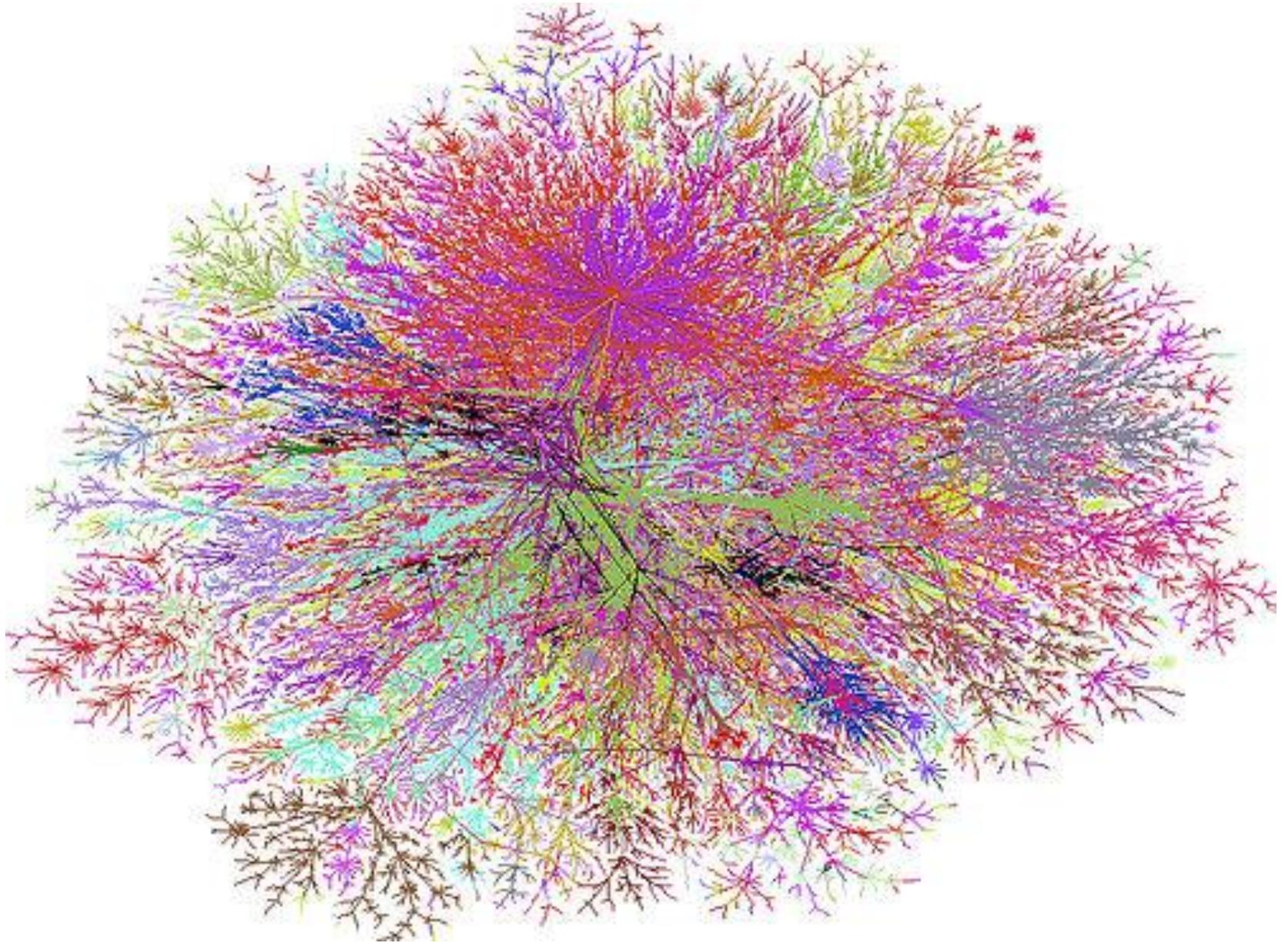
Simon Rogers

guardian.co.uk, Saturday 23 October 2010 00.05 BST



Open Data, FOIA & Press Freedom

An expanding number of data sources



Navigate the world of public data

🔍 Companies, people, locations...

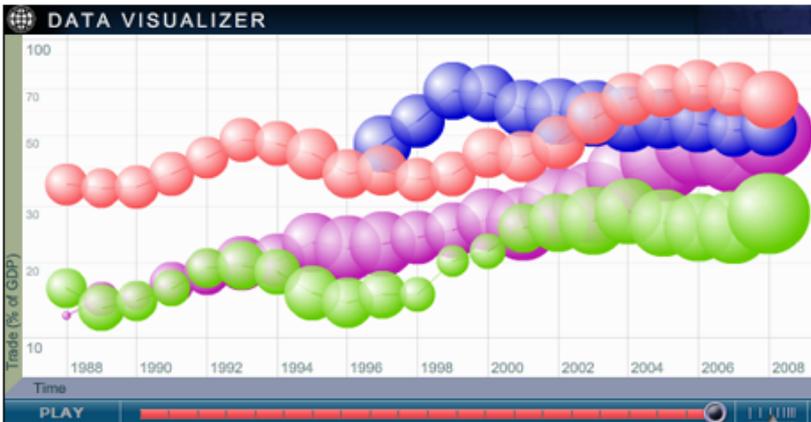
SEARCH

Quickly search and analyze billions of public records published
by governments, companies and organizations.



Data

This page in English Español Français العربية



New data visualizers for trade data

World Integrated Trade Solution (WITS) is a trade software tool giving access to bilateral trade data between countries based on various product classifications, product details, years, and trade flows.

THE WORLD BANK Open Data

The *Data Catalog* provides download access to over 2,000 indicators from World Bank data sets.

BROWSE DATA

By Country
View profiles for over 200 countries and economies

Indicators
View data for over 1,200 indicators

Find an indicator

GNI per capita, Atlas method (current US\$)

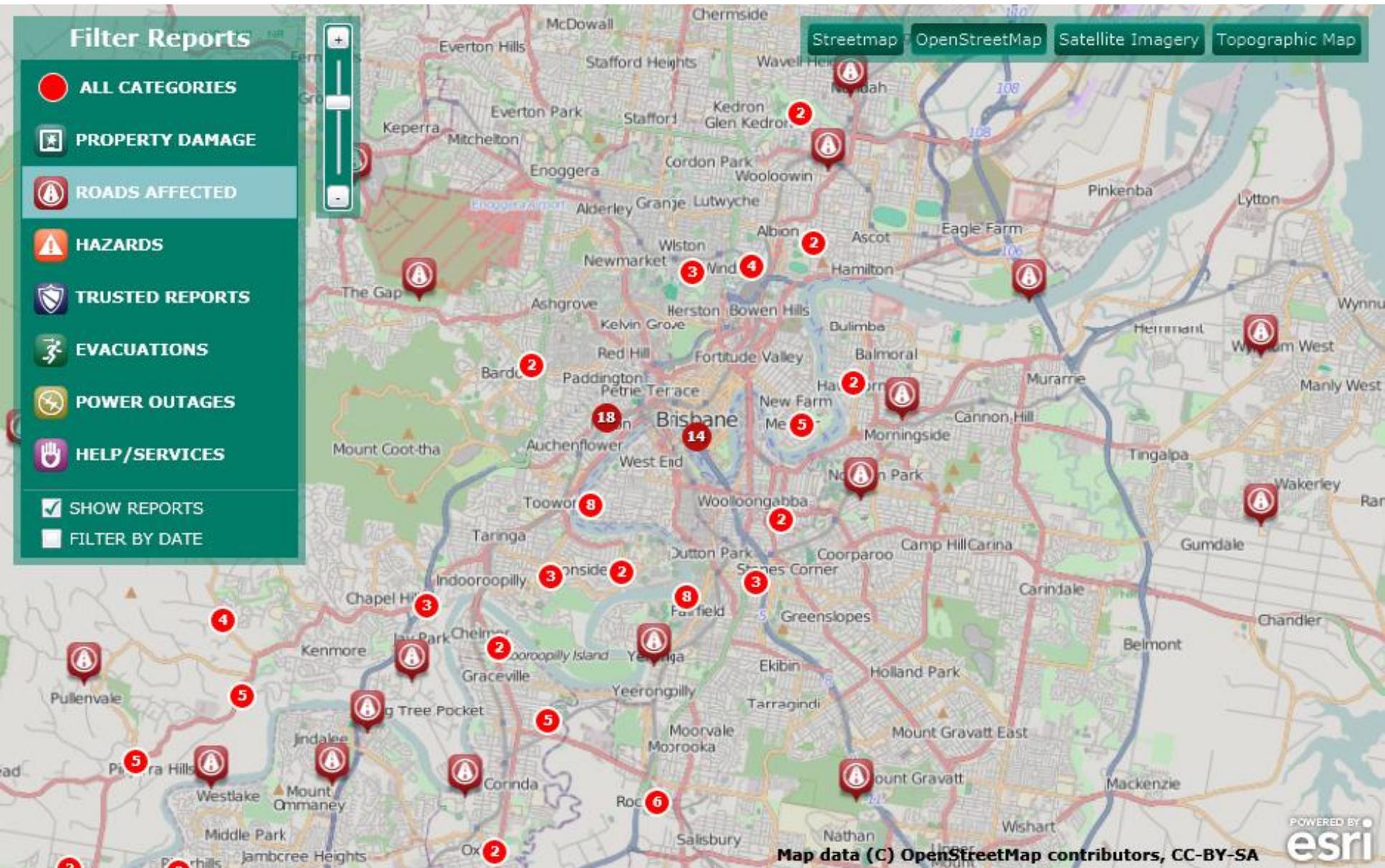
Go

Learn more about data sets

By Topic
See key indicators for a variety of topics

Use our Data
Learn how to use World bank's data

Social data and crisis data



Open government data platforms

data.gov.uk ^{BETA}

Opening up government

What are you looking for?

Search



Data

Apps

Consultation

Forum

Blogs

Ideas

Linked Data

Resources

About

Go

Enter your postcode to find tools and information about your local area using government data

Who does what in Whitehall?



How your money is spent



Government contracts in full



Who ministers are meeting



Business plans



Applications



X-ray readings compared

By Chris Hamby [Twitter](#) [Email](#)

Chris Zubak-Skees [Twitter](#) [Email](#)

7:00 am, October 30, 2013 Updated: 12:51 pm, May 19, 2014

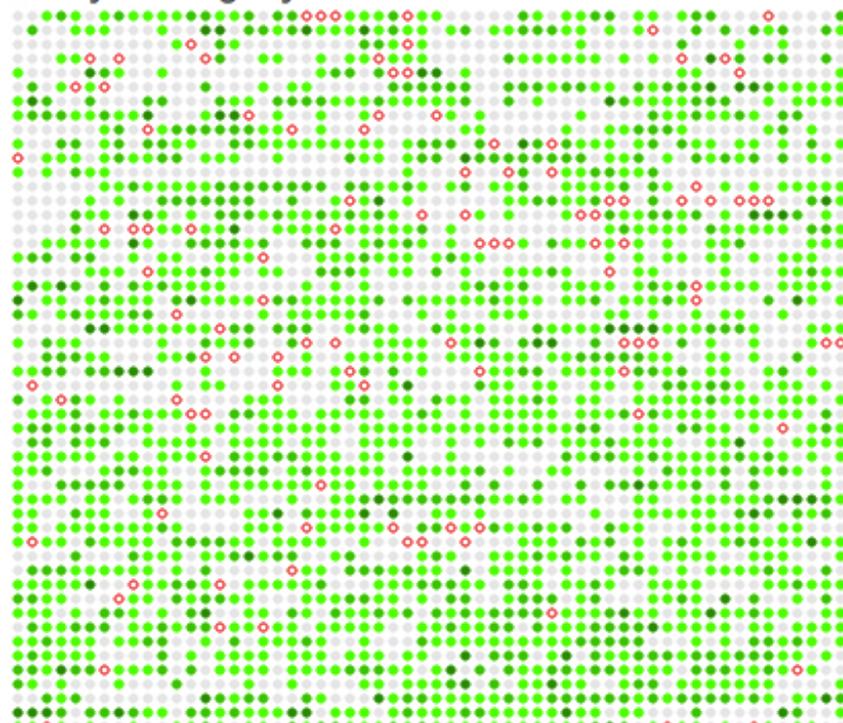
40 likes [Facebook](#) 7 tweets [Twitter](#) [LinkedIn](#) [Reddit](#) 2 comments [E-mail](#)

For decades, Dr. Paul Wheeler has led a unit of radiologists at Johns Hopkins who often are enlisted by the coal industry to read X-rays in black lung benefits cases. The Center for Public Integrity identified more than 1,500 cases decided since 2000 in which Wheeler was involved, reading a total of more than 3,400 X-rays. In these cases, he never found a case of complicated black lung, and he read an X-ray as positive for the earlier stages of the disease in less than 4 percent of cases. Subtracting from these the cases in which he ultimately concluded another disease was more likely, this number drops to about 2 percent.

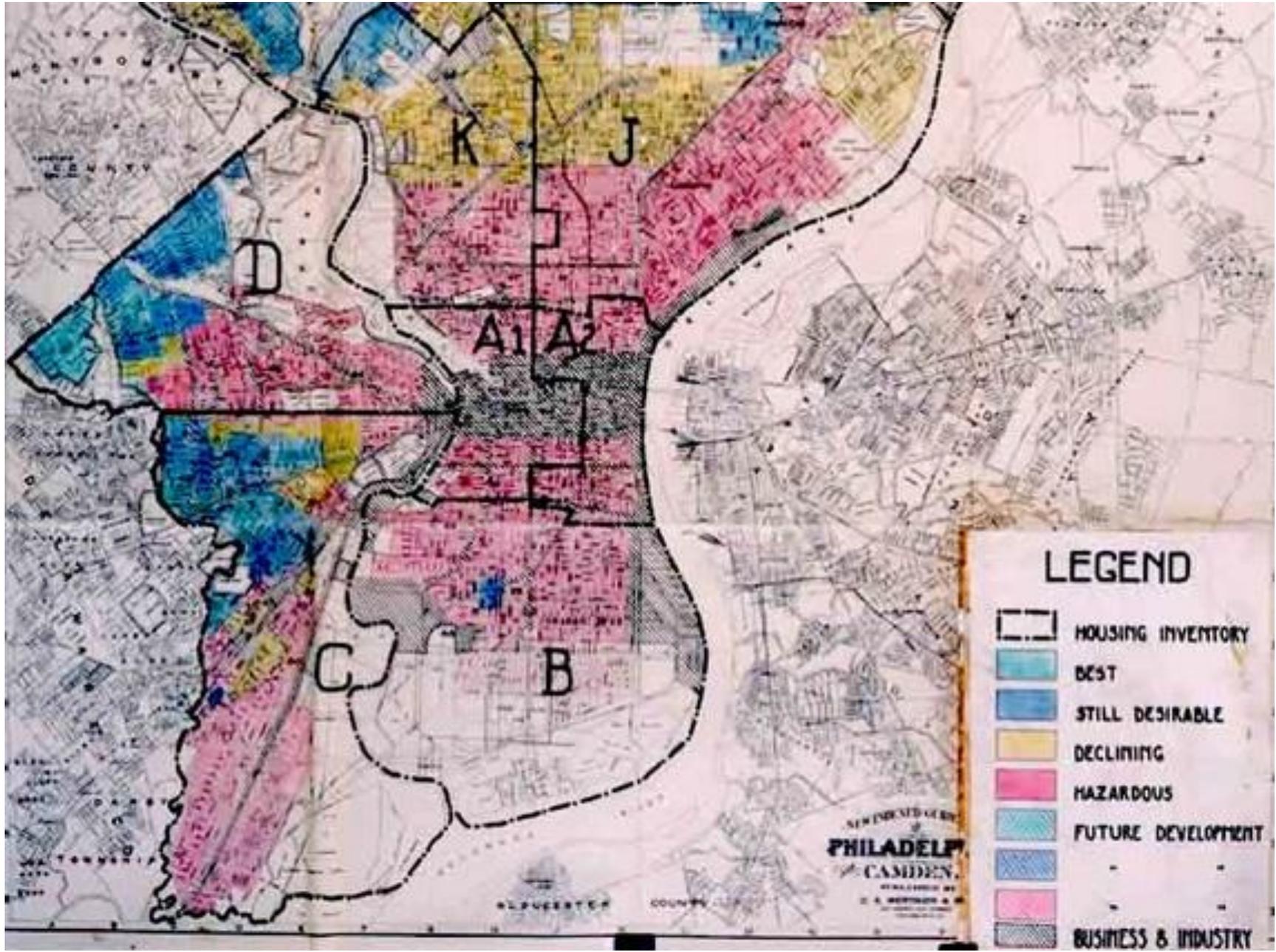
X-ray readings by Dr. Paul Wheeler



X-ray readings by other doctors

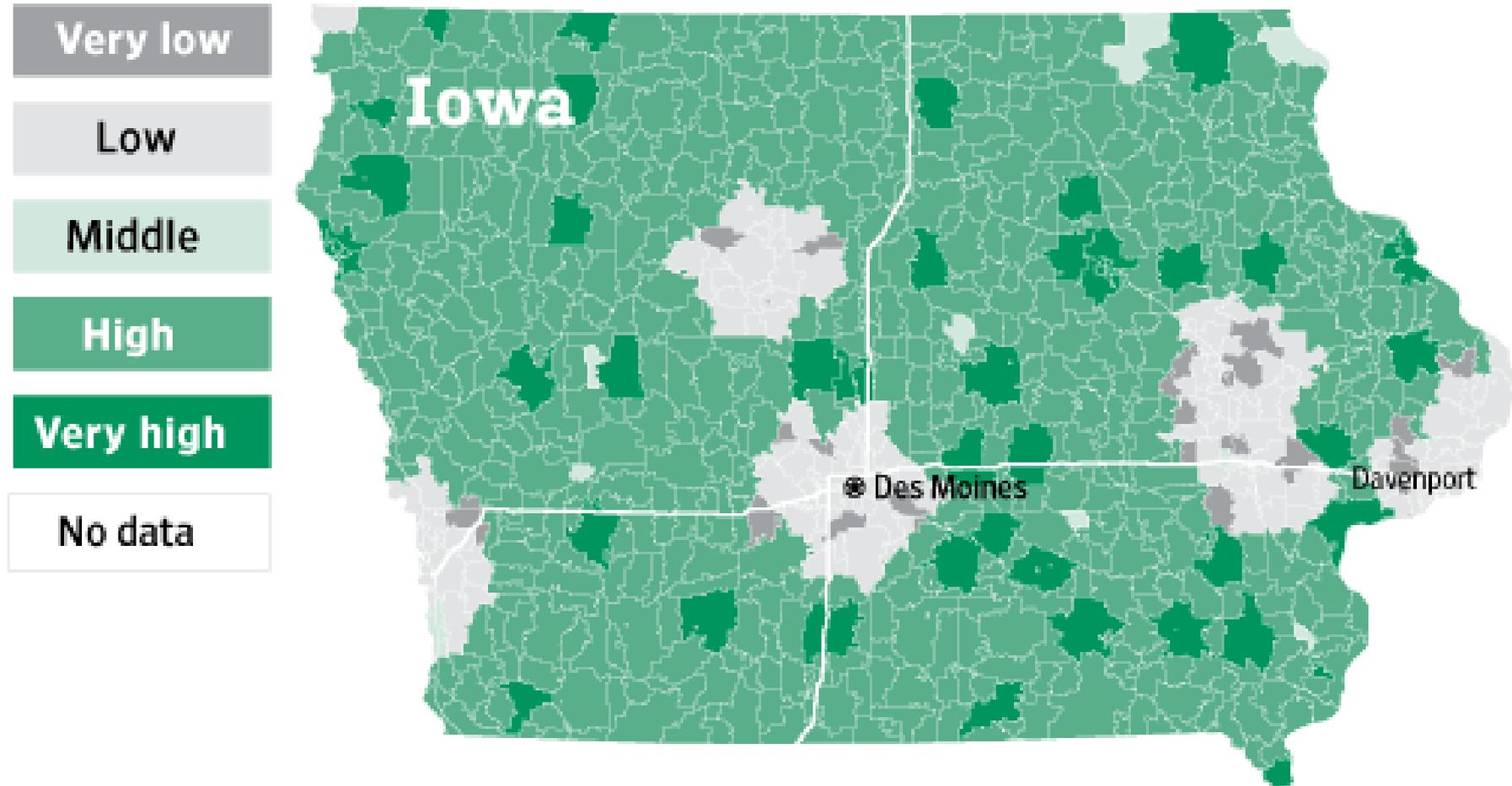


Accountability for “personalized redlining”



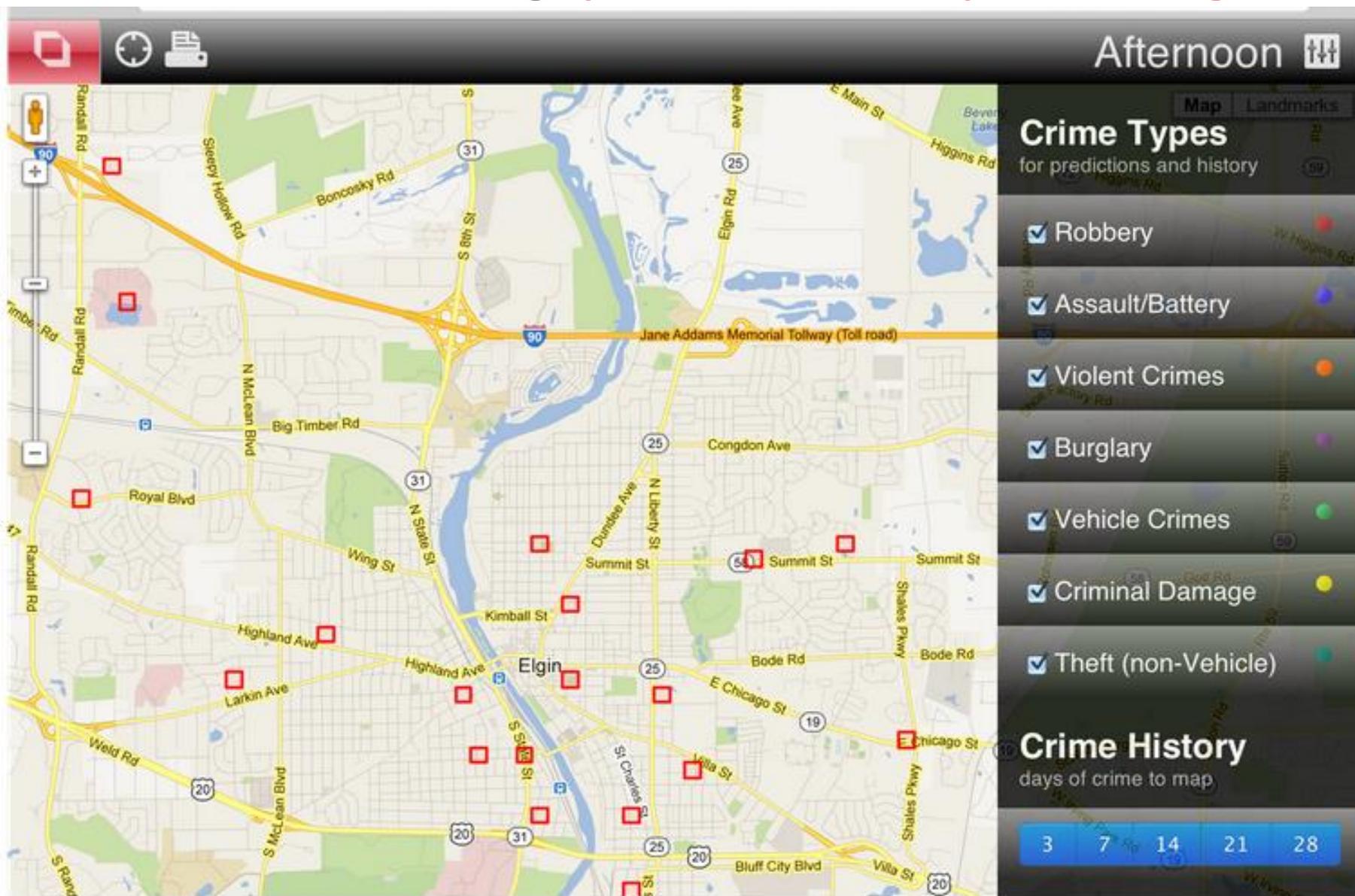
Transparency for **geographic profiling**

Likelihood of receiving higher prices, by ZIP code



WSJ: [Websites vary prices, based upon user information](#)

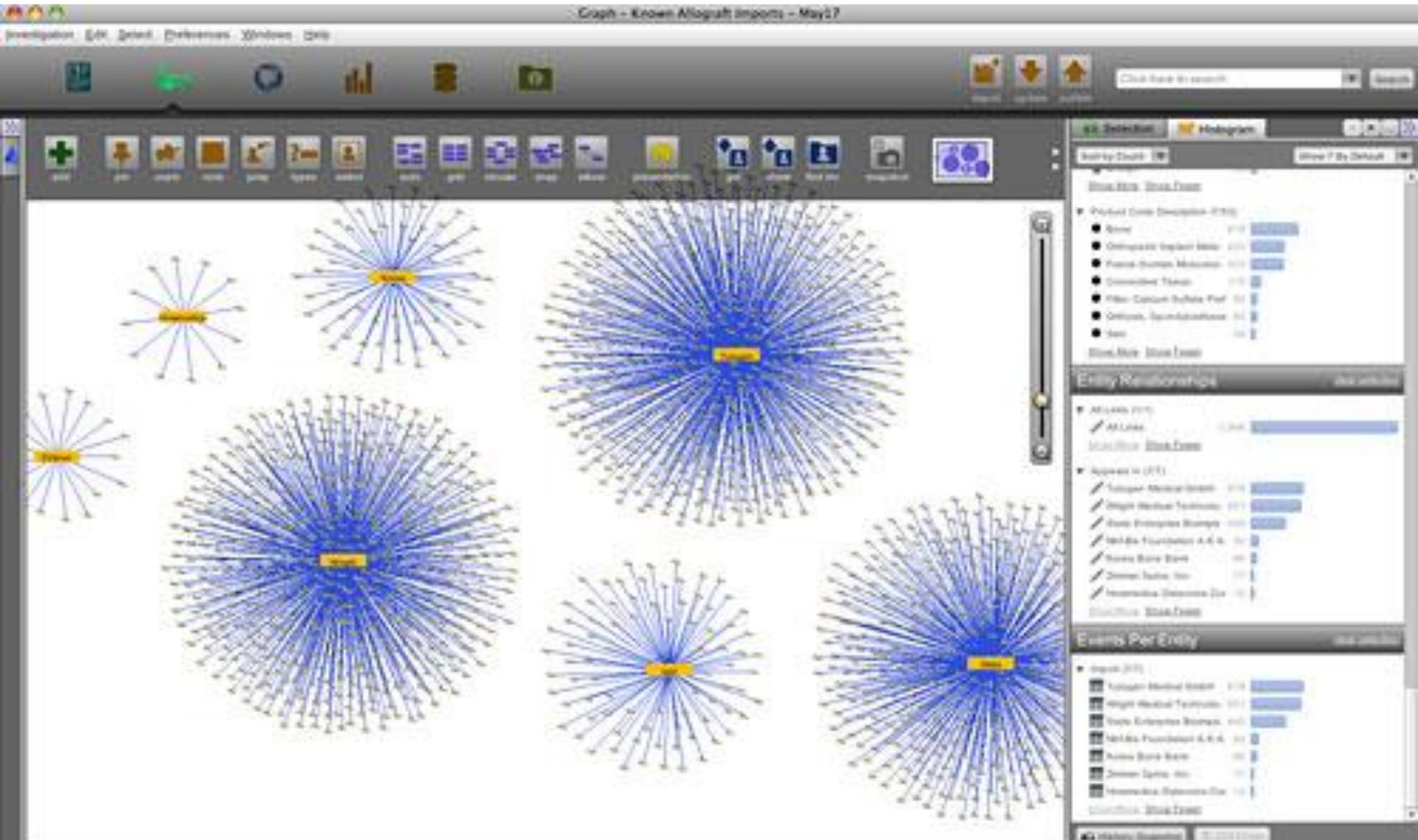
Monitoring **predictive policing**



Verge: [Chicago crime and profiling](#)

Geekwire: [Predictive Policing](#)

Investigating human tissue trafficking



ICIJ: [The data behind skin and bone](#)

Data + journalism + activism +
responsive institutions = social change



**The fun part: predictions,
prognostications and
recommendations!**

1) Data will become even more of a strategic resource for media.



The ProPublica Data Store

ProPublica is making available the datasets that power our data journalism. The raw data we received as the result of a FOIA request is available for free, and datasets that reflect substantial cleaning and processing by our staff are available for a one-time fee. Journalists and academic researchers can purchase premium datasets, and interested commercial users can contact us for pricing, by clicking the "Purchase" button on any dataset. We also provide a pass-through link when a data download is available on another site. [Related Story »](#)

Premium Datasets (Purchase)

Cleaned up, categorized and often created from multiple sources, these Premium datasets are unique to ProPublica and sold for a nominal fee.

FOIA Data (Free)

Because ProPublica received these datasets from a FOIA request, we're posting the original, raw datasets free for download.

External Data

ProPublica frequently uses datasets that are free and available online. So instead of downloading copies from us, we send you straight to the source.

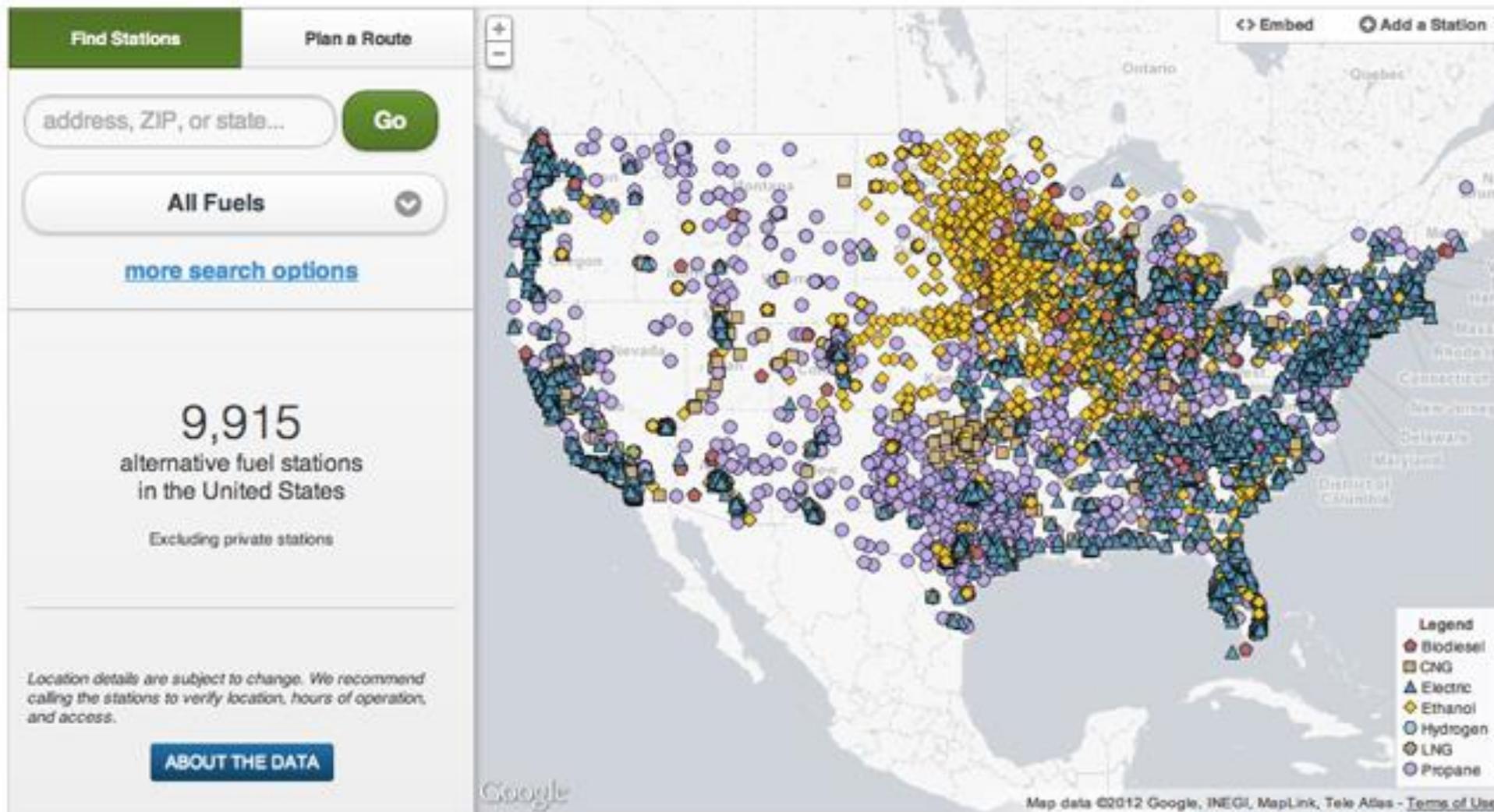
Health Datasets

	Source	JOURN (\$)	ACAD (\$)	
Premium: Dollars For Doctors Data (Per State) ProPublica's Dollars for Docs data. The data include about \$2 billion in payments to doctors, other medical providers and health care institutions that have been disclosed by 15 pharmaceutical companies from 2009 to 2011. <i>Size: Varies rows, Date Released: 03/2013</i>	Pharmaceutical Company Disclosures	\$200	\$2,000	PURCHASE Try a Sample!
Premium: Combined Dollars for Docs Dataset (National) ProPublica's Dollars for Docs data. The data include more than \$2 billion in payments to doctors, other medical providers and health care institutions that have been disclosed by 15 pharmaceutical companies from 2009 to 2011.	Pharmaceutical Company Disclosures	\$1,000	\$10,000	PURCHASE Try a Sample!

2) Better tools will emerge that democratize data skills.

Alternative Fueling Station Locator

Find alternative fueling stations near an address or ZIP code or along a route in the United States. Enter a state to see a station count.



3) News apps will explode as a primary way people consume data journalism.

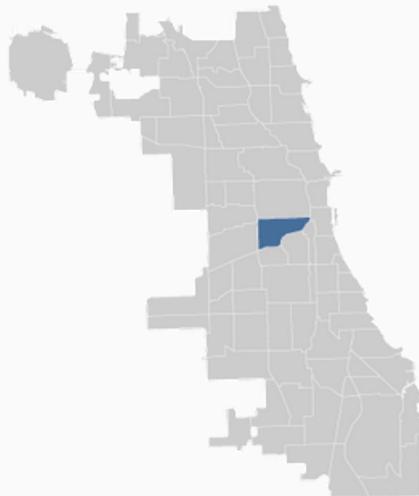
Lower West Side

Summary | In context | **Breakdowns** | Historic trends | Coverage | Locations

Like 10

IN CONTEXT

Lower West Side is highlighted on this map of Chicago's community areas.



[Compare crime in all Chicago's community areas »](#)

[Lower West Side on Wikipedia »](#)

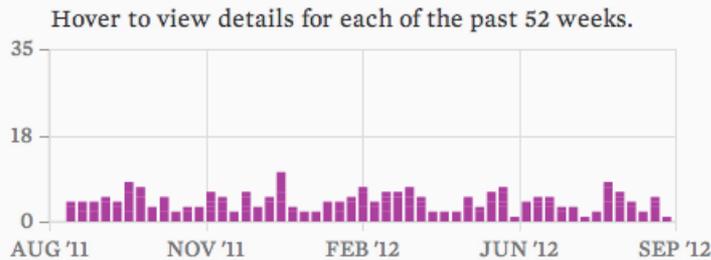
Population 35,769
Chicago 2,695,598

Area 2.93 sq. mi
Chicago 227.6 sq. mi

Population density 12,227 /sq. mi

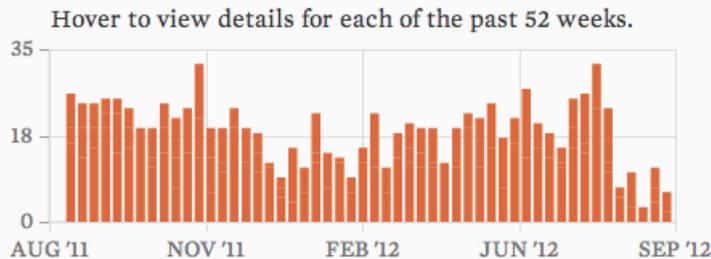
CRIME TYPE BREAKDOWNS

Violent crime



	LAST 30 DAYS	LAST 365 DAYS
Robbery	6	76
Battery	3	74
Assault	3	50
Homicide	0	6
Criminal sexual assault	3	15

Property crime



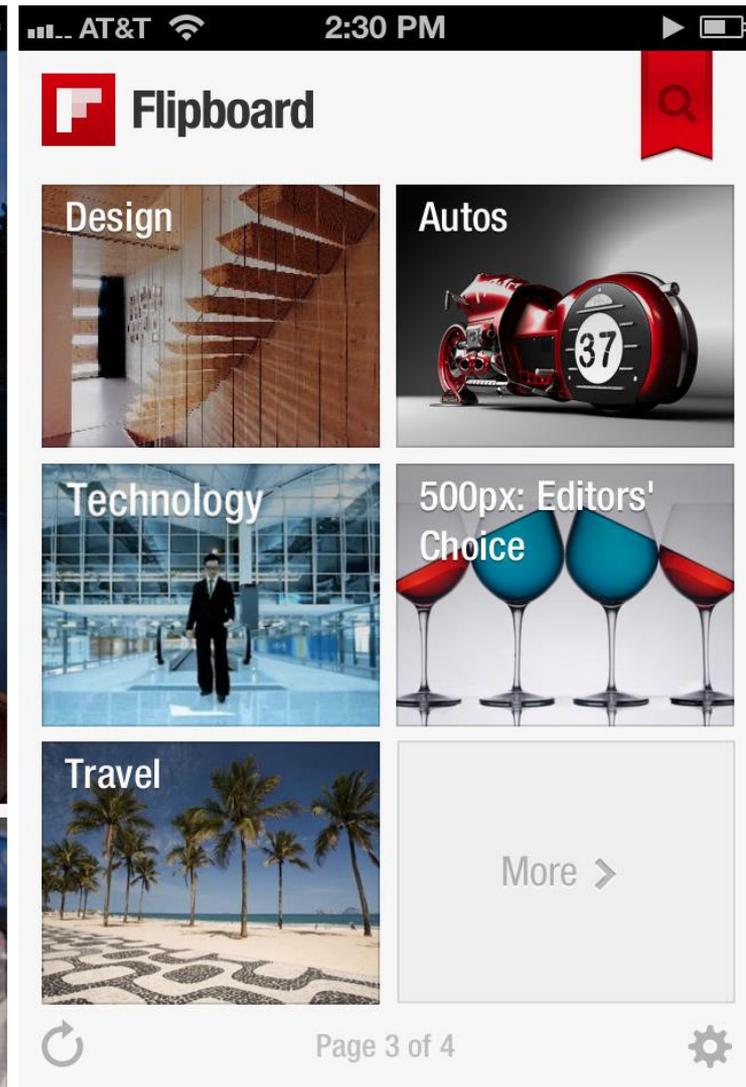
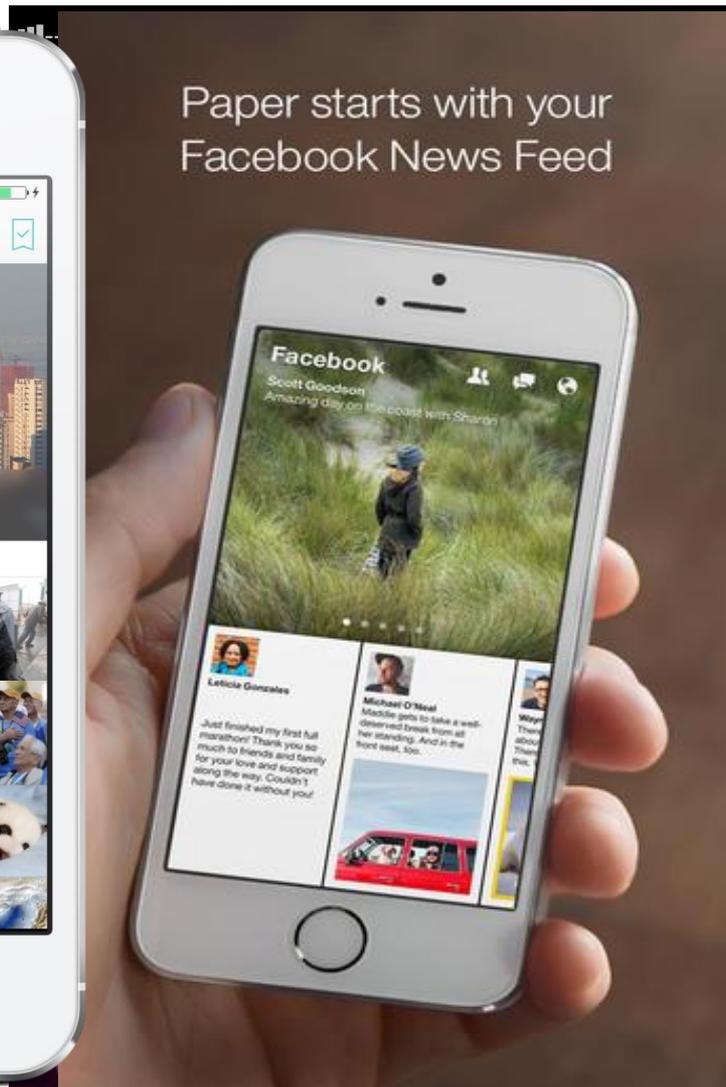
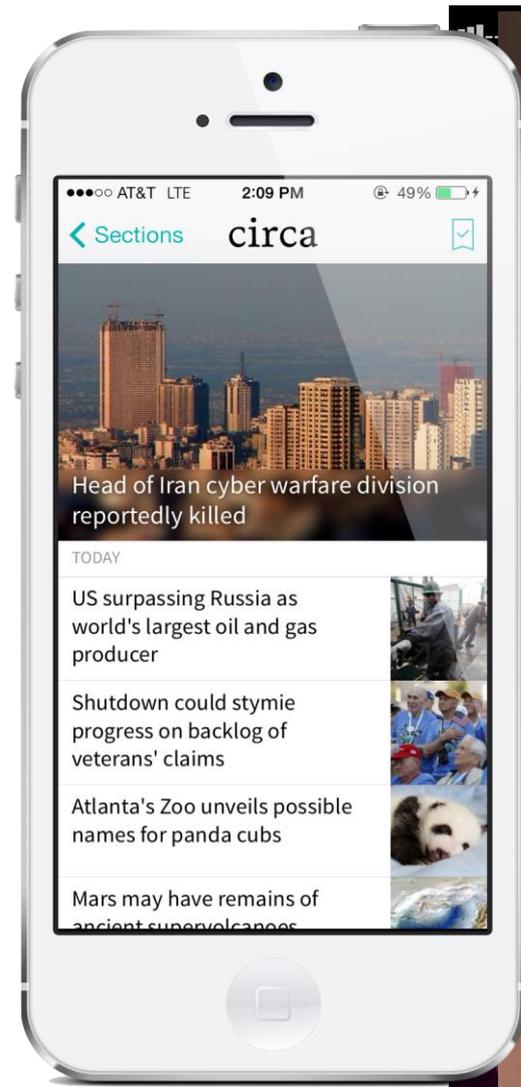
	LAST 30 DAYS	LAST 365 DAYS
Theft	12	551
Burglary	13	157
Motor vehicle theft	5	258
Arson	0	5

Quality of Life crime

Hover to view details for each of the past 52 weeks.

LAST 30 DAYS
LAST 365 DAYS

4) Being digital first means being data-centric and mobile-friendly.



5. Expect more robo-journalism. Human relationships and storytelling still matter.

The First News Report on the L.A. Earthquake Was Written by a Robot

By Will Oremus



1.4k



811

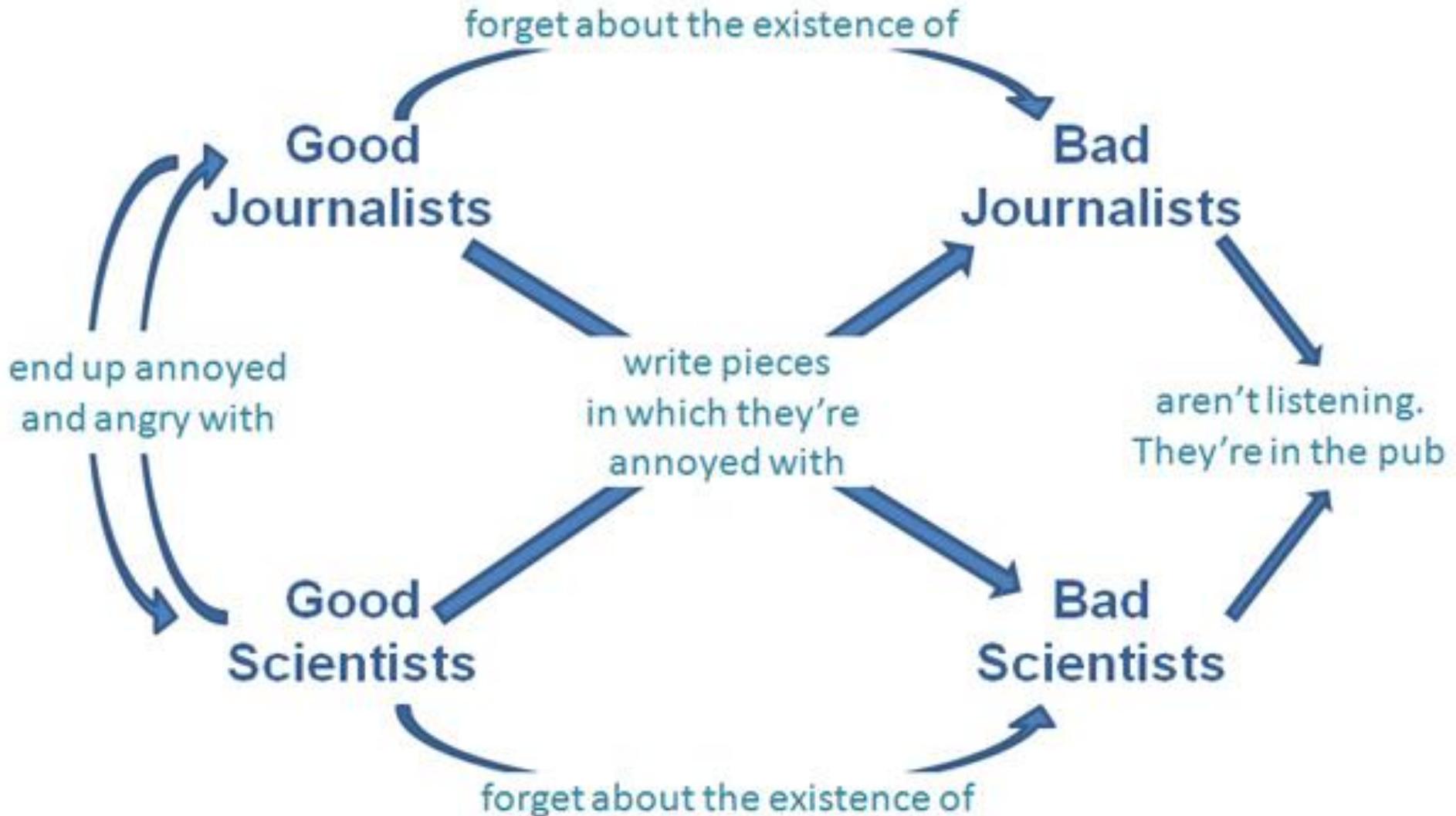


10



6) More journalists will need to study the

Every Scientists-versus-Journalists Debate Ever



Source: [Ed Yong](#)

8) Competency in security and data protection will become more important.

The image shows the cover of the 'CPJ Journalist Security Guide'. At the top, there is a photograph of a hand in a brown leather glove holding a metal chain. Below the photo, the CPJ logo is on the left, and the text 'Committee to Protect Journalists' and 'Defending Journalists Worldwide' is on the right. A red 'DONATE NOW' button is in the top left corner. A navigation menu is on the far left. The main title 'CPJ Journalist Security Guide' is in large red letters, with the subtitle 'COVERING THE NEWS IN A DANGEROUS AND CHANGING WORLD' below it. The authors' names are listed, followed by links for 'About the Authors' and 'Acknowledgments'. A table of contents at the bottom lists seven sections, each with a red square icon containing a number.

CPJ Committee to Protect Journalists
Defending Journalists Worldwide

DONATE NOW

Home
News Alerts
Statements
Protest Letters
CPJ Blog
CPJ Internet Channel
Journalist Security Blog
Killed In 2012
Imprisoned
Missing
Killed Since 1992
Reports & Publications

CPJ Journalist Security Guide
COVERING THE NEWS IN A DANGEROUS AND CHANGING WORLD

By Frank Smyth/CPJ Senior Adviser for Journalist Security
With a chapter on Information Security by Danny O'Brien/CPJ Internet Advocacy Coordinator

[About the Authors](#) | [Acknowledgments](#)

- 1 Introduction: A New World of News**
- 2 Basic Preparedness**
Foreign Correspondence
Domestic Journalism
Press Credentials
Insurance Coverage
- 3**
- 4**
- 5**
- 6 Civil Matters and Disturbances**
Accident, Fire, and Rescue Scenes
Crime and Terrorist Scenes
Stories Involving Private Property
Protests and Riots
- 7 Natural Disasters**

9) Demand for more transparency on reader data collection and use.

The image shows a screenshot of the Financial Times website. At the top, there is a banner that reads "GAIN INSIGHTS THAT ONCE TOOK DAYS OR WEEKS - IN MINUTES OR SECONDS" and a price tag "for only £1". Below this, the website header includes "ft.com/frontpage UK" and "All times are London time". The main title "FINANCIAL TIMES" is prominently displayed. A search bar is located on the right, with the text "Search articles, quotes and multimedia" and a "Search" button. Below the search bar, it says "Search sponsored by Qatar FINANCIAL CENTRE" and "Advanced search".

The main content area features several articles. One article by Gideon Rachman is titled "Time for a eurozone divorce" and includes an image of a broken Euro coin. Another article by Philip Stephens is titled "From the shadows" and discusses Egypt's Islamist 'spare tyre' candidate. A third article by Martin Wolf is titled "Cameron is consigning the UK to stagnation". A fourth article by Ed Miliband is titled "Time to end 'Camerkozy' economics".

A "FT Cookie Policy" pop-up window is overlaid on the page. It contains the following text:

FT Cookie Policy

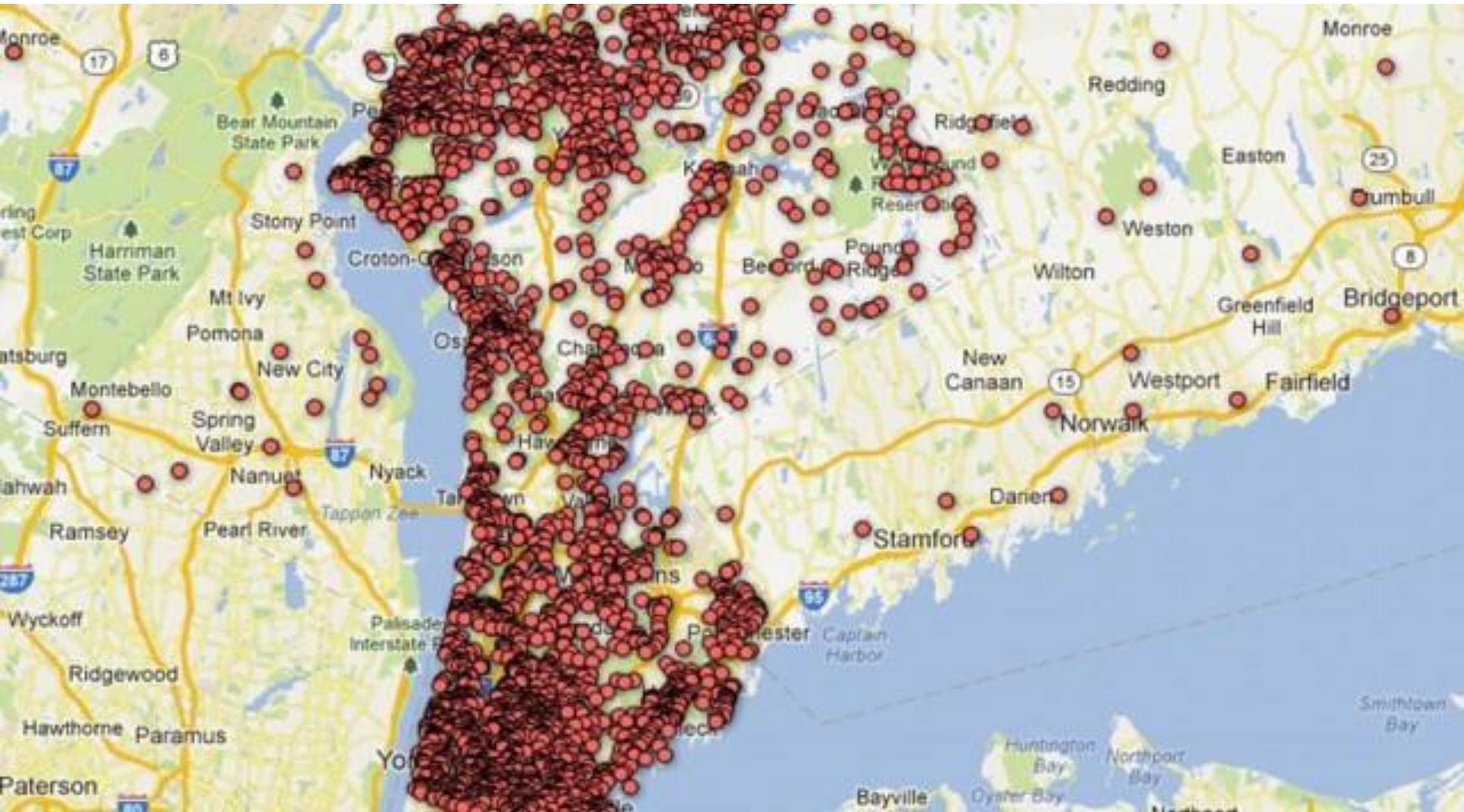
We have published a new [cookie policy](#). It explains what cookies are and how we use them on our site. To learn more about cookies and their benefits, please view our [cookie policy](#).

If you'd like to disable cookies on this device, please view our information pages on '[How to manage cookies](#)'. Please be aware that parts of the site will not function correctly if you disable cookies.

By closing this message, you consent to our use of cookies on this device in accordance with our [cookie policy](#) unless you have [disabled them](#).

A "Close" button is located at the bottom right of the pop-up window.

10) More conflicts over public records, data scraping, and ethics will arise.



12) Data-driven personalization and predictive news in wearables.

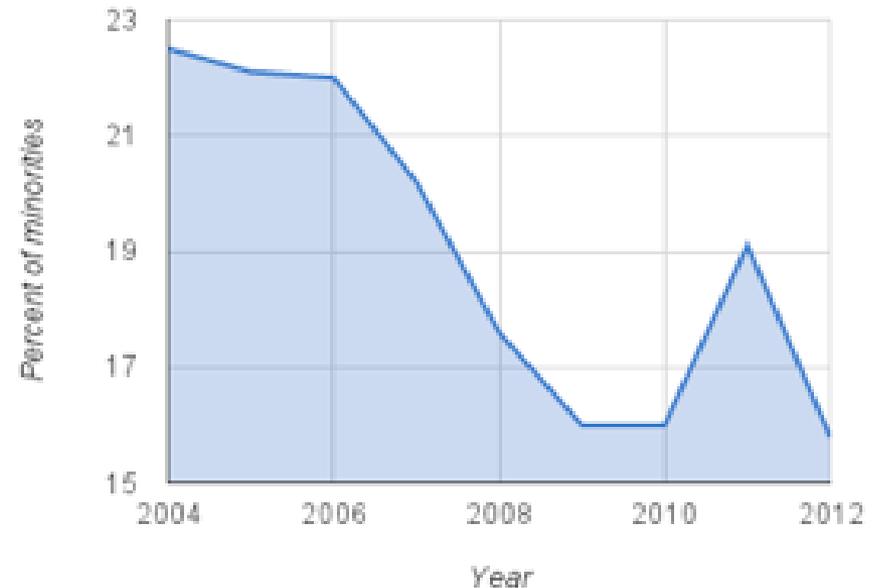


13) More diverse newsrooms will produce better (data) journalism.

Percentage of minority staff members at daily newspapers (ASNE)



Percent of Minorities in first full-time professional jobs



A 2013 [ASNE survey of 68 online news organizations](#) found that 63% of them had no minorities.

SOURCE: [The Atlantic](#)

14) Be mindful of data-ism and bad data. Embrace skepticism.



Homework

- Take a look at ProPublica's "Data Store" – many sets are free!
 - <https://projects.propublica.org/data-store/>

Additional Resources

- Alex's blog: E Pluribus Unum
 - <http://e-pluribusunum.org/>
- Alex Howard: "Quantifying Journalism: Metrics, Data, and Computation" (video)
 - <https://www.youtube.com/watch?v=JMDMClv0-So>
- Stanford's "Journalism in the Age of Data" (video)
 - <http://datajournalism.stanford.edu/>
- World Economic Forum: "How data journalism can improve the world"
 - <https://agenda.weforum.org/2015/01/how-data-journalism-can-improve-the-world/>
- International Journalism Festival is happening 4/15-19 in Perugia, Italy
 - Check out program and speakers here: <http://www.journalismfestival.com/>