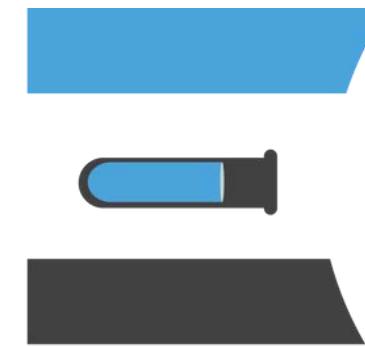




ethos**labs**

civic technology
A C A D E M Y



AV Arnold
Ventures

ONEX

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POLCO.us

SPIDR
TECH

Leading
Cities

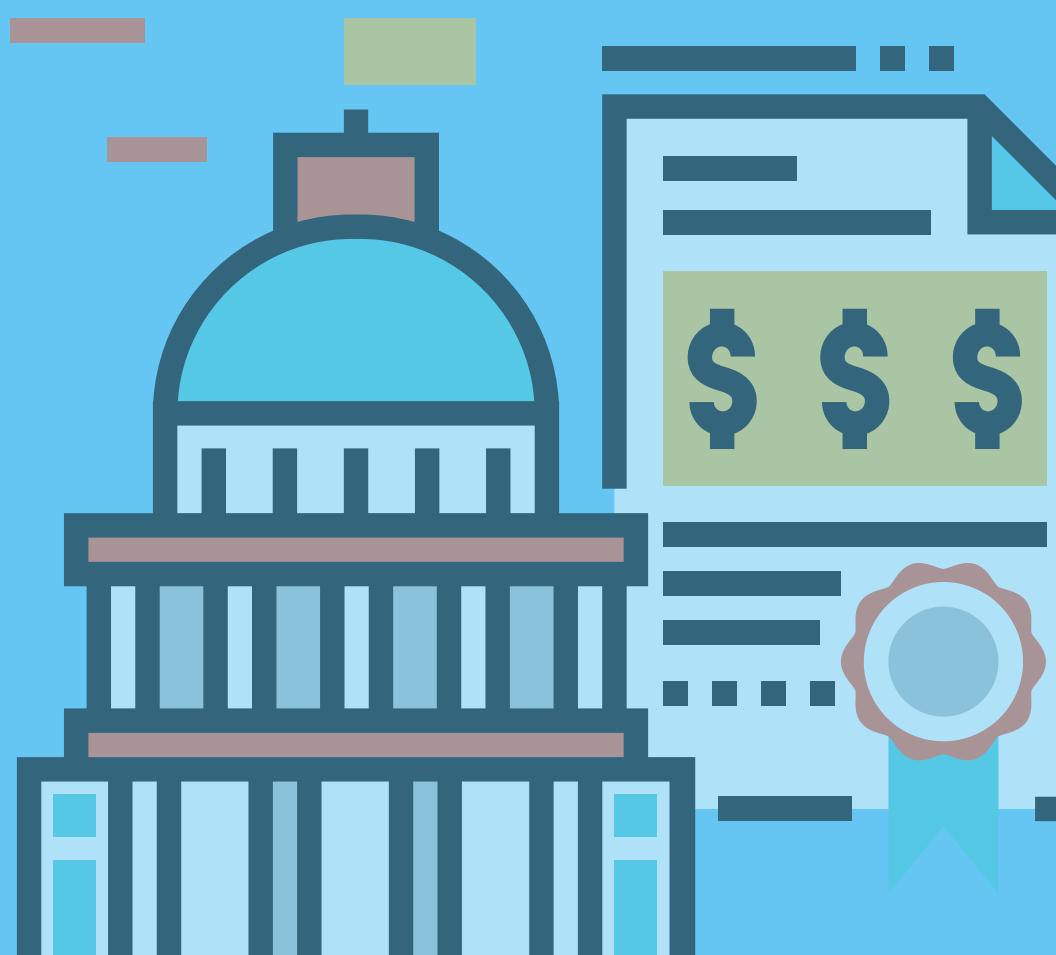




The "Smart City" Failed.

Here's what states should know & can do.

@abhinemani





"smart city"



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future



drawing



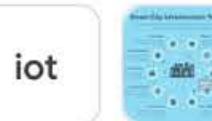
project



india



iot



infrastructure



infographic



illustration



technology



bhubaneswar



What the heck is a Smart City? - Aliga ...

aliga.sk



Technology Research for Smart Cities ...

arcweb.com



What is a Smart City - Technologies ...

skywell.software



What Exactly is a Smart City?

blog.bismart.com



What is a Smart City? Definition from ...

techtarget.com



A (really) Smart City Concept - Sensoworks

sensoworks.com



Smart to Future Cities Reveals Key ...

iotworldtoday.com



How To Design A Smart City Everyone ...

forbes.com



Are We Ready For Truly Smart Cities ...

startupbootcamp.org



Peace corps for
Techies —
City governments work the
way citizens want them to.

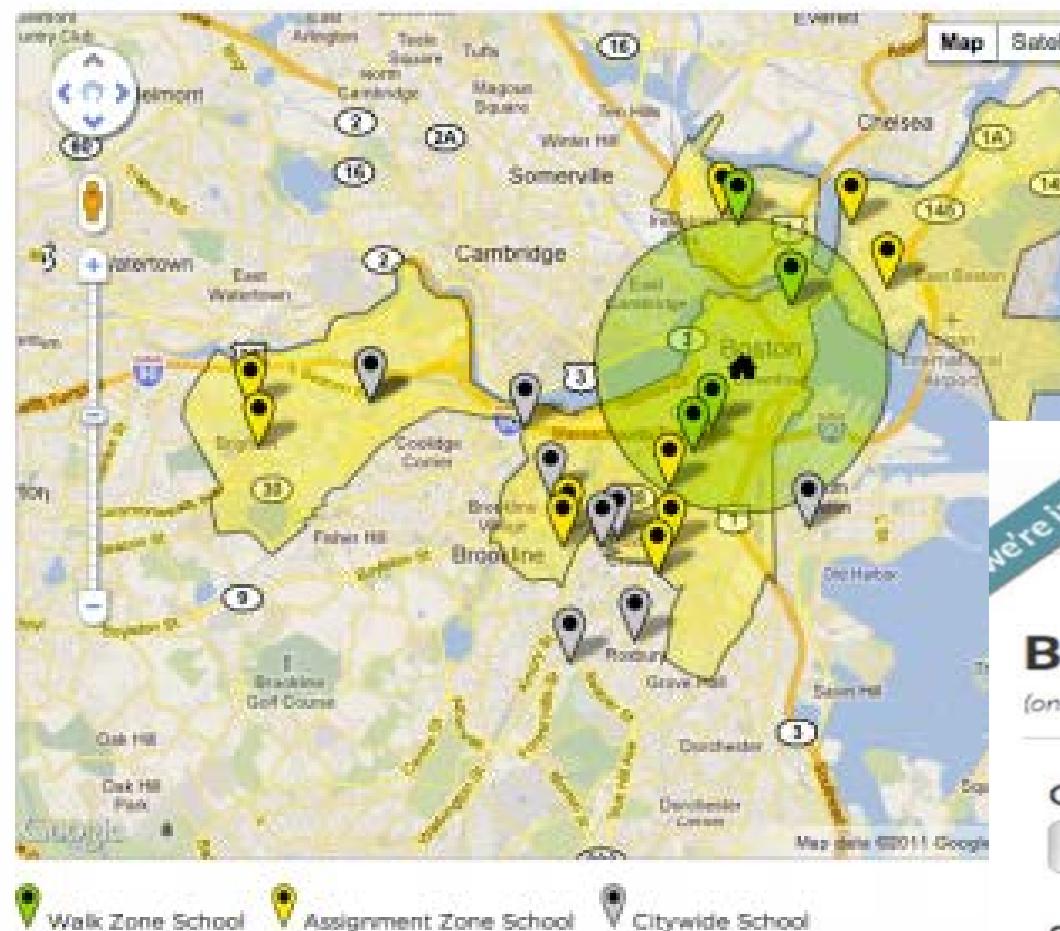
You're probably wondering:
Cities are too big.
We're finding ways to make
them more open, transparent,
efficient.
We're building partnerships.

CODE for
AMERICA

... we spread it other cities

Eligible Schools for: **34 Beacon Street, Boston, MA / Grade 7** [Search Again](#)

Below is a map of your eligible schools. The yellow shape represents the North Assignment Zone; the flags represent your eligible schools; the house icon is centered on your home address. Click the flags or the school name links to learn more. Click the 'List View' tab - at right - to return to the previous page.



Total
352

[List View](#)

My Favorites

1. Quincy Upper School
2. Elliot K-8 School
3. Warren/Prescott
4. Hurley K-8
5. Edwards Middle
6. McKay K-8
7. Umana/Alighieri K-8 Academy
8. Orchard Gardens K-8

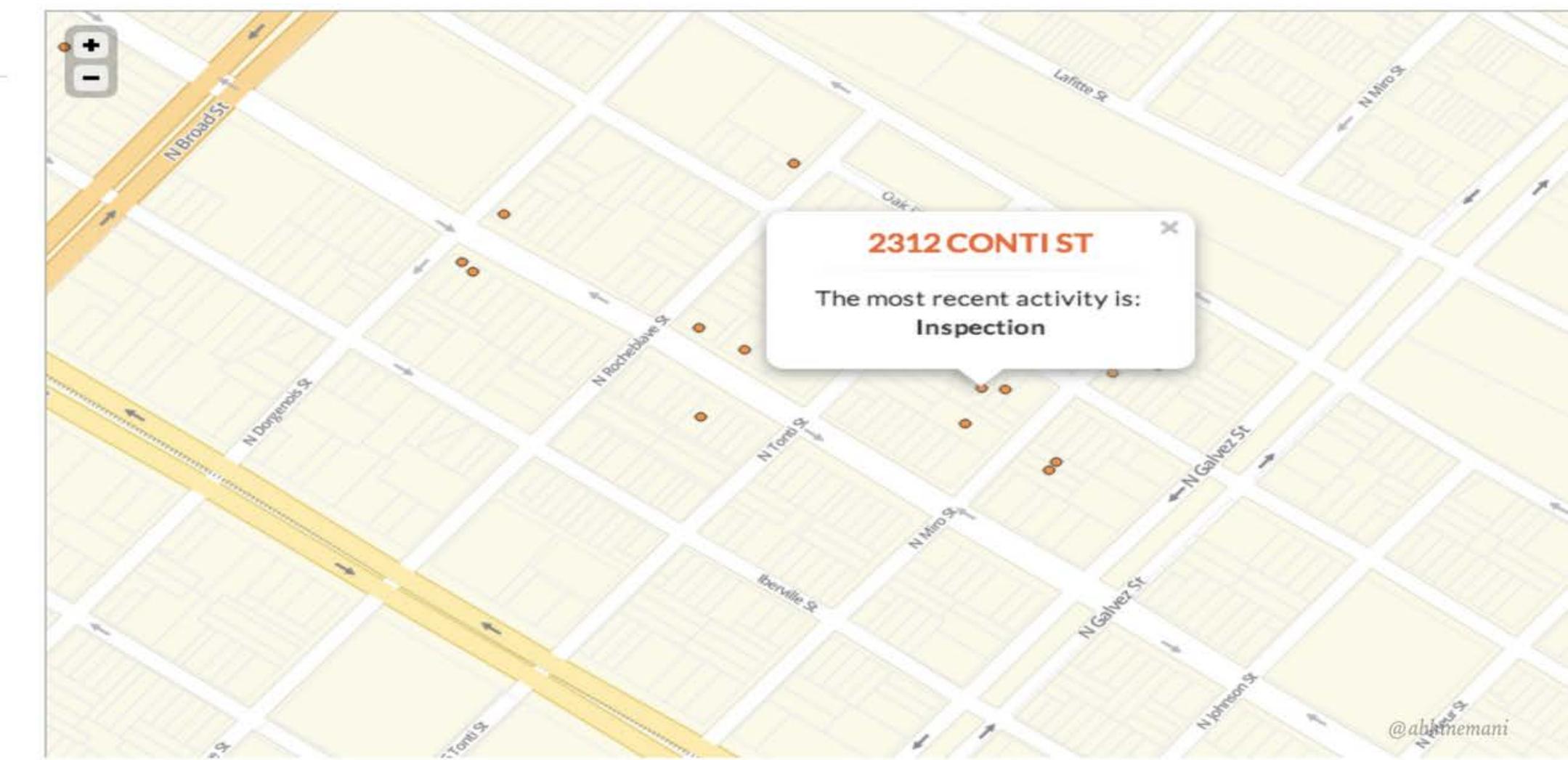
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7 Tactics for 21st-Century Cities

Seven ways for modern cities to innovate.

October 18, 2013 • Abhi Nemani



Be it the burden placed on them by shrinking federal support, or the opportunity presented by modern technology, 21st-century cities are finding new ways to do things. For four years, [Code for America](#) has worked with dozens of cities, each finding creative ways to solve neighborhood problems, build local capacity and steward a national network. These aren't one-offs. Cities are championing fundamental, institutional reforms to commit to an ongoing innovation agenda.

Here are a few of the ways how:



This model failed.

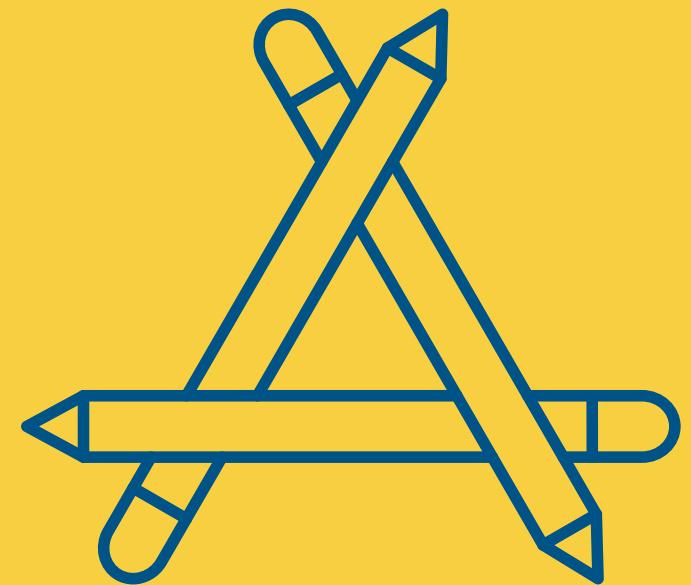


Old Model of a "Smart City"

The "big ideas" over a decade ago...



Open Data Driving Innovation



**App Marketplace
for *All* Cities**

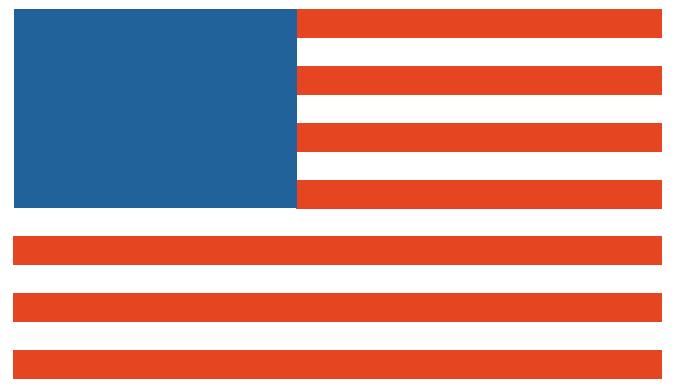


**World-class CTOs/CIOs
Leading Innovation**

1. Open Data driving innovation?

Billed as "jet fuel" for innovation both inside and outside government.





DATA.GOV

\$3 Trillion
*Economic value of
Open Data*

-McKinsey Global Institute





OPEN DATA SA

data.austintexas.gov

the official City of Austin open data portal



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Sign In

Welcome to Austin's Open Data Portal

This portal provides easy access to open data and information about your city government. We encourage the use of public data that the City of Austin has published to spark innovation, promote public collaboration, increase government transparency, and inform decision making.



data.texas.gov



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All Data



New Dat

New to the Open Data Portal? Click HERE!

Welcome to the Texas Open Data Portal

Click HERE for information on COVID-19 preparedness for Information Technology



Blockchain

Learn about the Texas Work Group
on Blockchain Matters



Permits & Licensing

Data on Permitting and Licensing in
Texas



Business &
Economy

Economic and business data in



Government &
Taxes

Explore the information on the



"Smart City" Requirement

data.——.gov



civic technology
ACADEMY

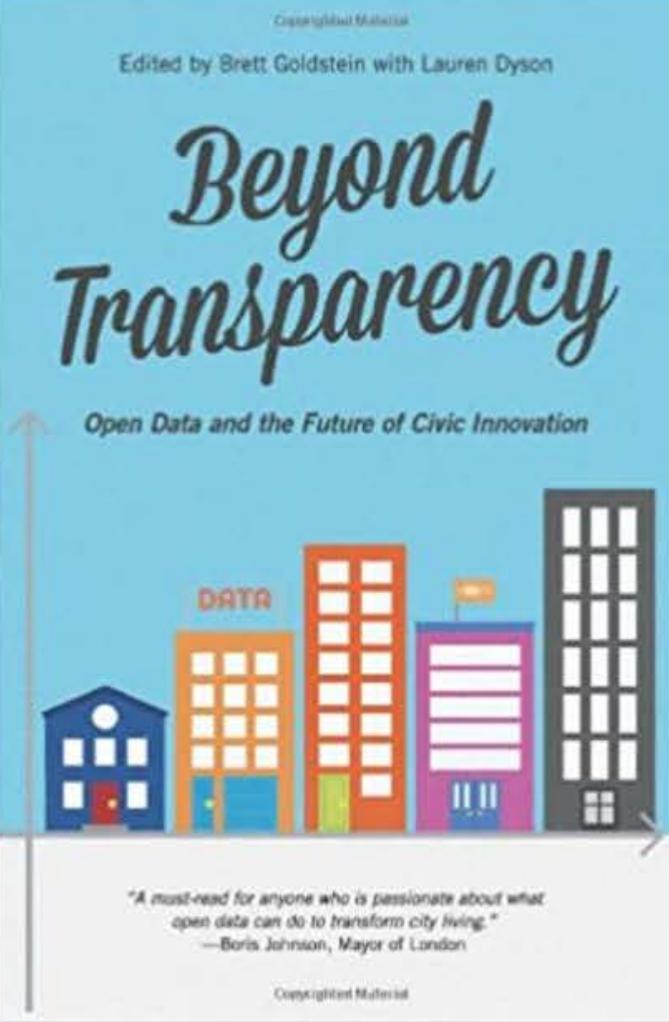


Effective Police Supervision

52 \$79.05

Books > Politics & Social Sciences > Politics & Government

Look inside ↓



See all 3 images

Beyond Transparency: Open Data and the Future of Civic Innovation Paperback – October 16, 2013

by Brett Goldstein (Editor), Lauren Dyson (Contributor)

12 ratings

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\$14.20

19 Used from \$1.46

11 New from \$9.98

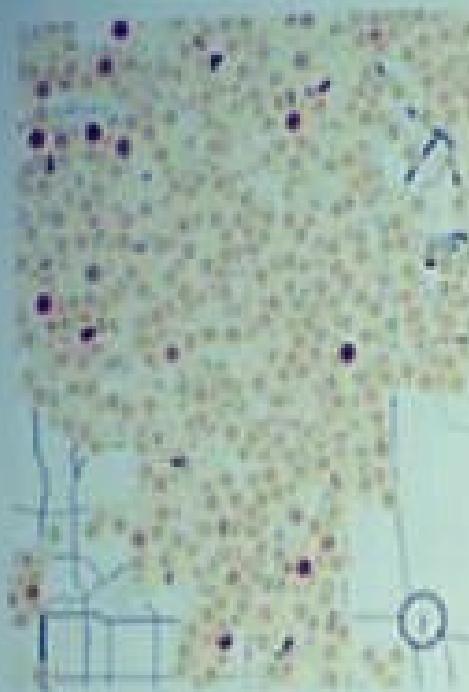
1 Collectible from \$18.00

The rise of open data in the public sector has sparked innovation, driven efficiency, and fueled economic development. While still emerging, we are seeing evidence of the transformative potential of open data in shaping the future of our civic life, and the opportunity to use open data to reimagine the relationship between residents and government, especially at the local level. As we look ahead, what have we learned so far from open data in practice and how we can apply those lessons to realize a more promising future for America's cities and communities?

[▼ Read more](#)

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Sixth Street Bridge

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Summer Things to Do

I-Team Tips

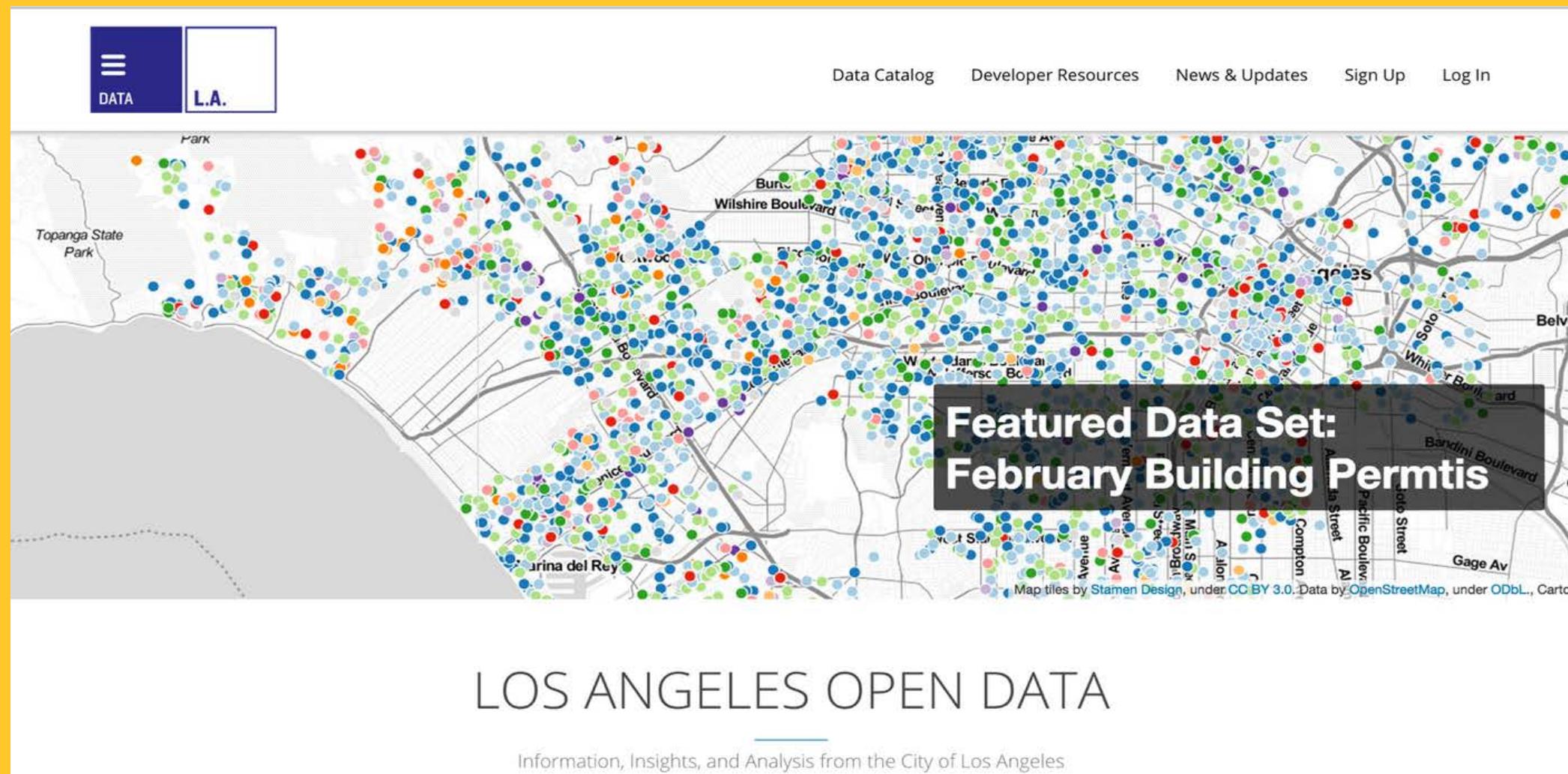
LOS ANGELES

LA's First-Ever Chief Data Officer Loves Hackers

Nemani previously worked at Google and most recently served as co-executive director of the non-profit organization Code for America.



- **#1 Open Data City (Open Data Census)**
- **Platinum Open City Certification**
- **#1 Digital City (GovTech)**



Problem 1:
If you build it, they
will not necessarily
come.





<500 visitors / month

(Most were city network ISPs...)

And we were paying \$360K/yr



*Now, more than ever the
state needs to be the
source of truth.*

What you can do:
Partner,
Regulate &
Coordinate





Find tacos, cheap dinner, Max's

Near San Francisco

[Home](#)[About Me](#)[Write a Review](#)[Find Friends](#)[Messages](#)[Talk](#)[Events](#)

AQ Restaurant & Bar



350 reviews [Rating Details](#)

Categories: American (New), Bars [\[Edit\]](#)

1085 Mission St
(between 7th St & 6th St)
San Francisco, CA 94103

Neighborhood: SoMa

(415) 341-9000

<http://aq-sf.com/>

Menu

Health Score: 78 out of 100

Hours:

Tue-Sat 5:30 pm - 11 pm
Sun 11 am - 2 pm
Sun 5:30 pm - 10 pm

Delivery: No

Accepts Credit Cards: Yes

Parking: Street

Attire: Casual

Good for Groups: Yes

Good for Kids: No

Takes Reservations: Yes

[AQ Restaurant & Bar](#) > [Health Inspections](#)

AQ Restaurant & Bar

June 20, 2012 — Routine Inspection

Violations

- Moderate risk food holding temperature [date violation corrected:]
- Foods not protected from contamination [date violation corrected: 6/20/2012]
- Unclean hands or improper use of gloves [date violation corrected: 6/20/2012]
- Unclean or unsanitary food contact surfaces [date violation corrected: 6/20/2012]



Health Score

78

out of 100

About Yelp Health Scores

We collect public inspection data directly from your city's health department. Due to the city health departments' inspection schedule as well as the time it takes to pass that information on to us, it is possible that we may not display the most recent inspection data. Please report any unreasonable delay and data inaccuracies to your city's health department.

Price Range

Take-out:

Walter Son

Outdoor S

Wi-Fi: No

Good For:

Music: Background

Best Nights: Thu, Fri, Sat

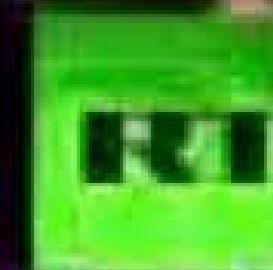
Happy Hour: No

Alcohol: Full Bar

Wheelchair Accessible: Yes



A GIFT TO LAW
ENFORCEMENT



WAZE AND POLICE

BEIJING

06:29

SYRIAN OPPOSITION FIGURES AND ASSAD OFFICIALS MEET IN MOSCOW FOR TALKS

Problem 2:
Security concerns and
lack of standards keep
doors closed.

"Drought Hackathon" with no Water Data...

Q: Can we publish the water usage data? A: No.

1. There's no state guidance on what does not violate privacy.
2. We are worried about the security of your data portal if we provided direct access to our systems



Ambiguous state policy
can handicap local
innovation.

Problem 3:
Cities don't usually
have the data people
need.



Open Data

A Mismatch of Data Access

What I thought

- Buses
- Bullets
- Budgets
- Bills

What I learned

- Education (*Special Districts*)
- Healthcare (*County*)
- Environment (*State*)
- Crime (*Delayed Reporting*)

Our Story



ST. LOUIS
Regional Data Alliance
CONNECTING DATA FOR COMMUNITY CHANGE

The screenshot shows the homepage of the St. Louis Regional Data Alliance. At the top left is the Western Pennsylvania Regional Data Center logo. The top navigation bar includes links for Data, Tools, Get Involved, News, About, and Contact Us. A search bar is located at the top right. The main title "The Region's Open Data at Your Fingertips" is prominently displayed. Below it, a sub-headline reads "Hyperlocal data at your fingertips". A callout box highlights the "PPS Instructional Packet Pickup Location Finder". Another box encourages users to "Browse the Data!". A featured section titled "Data Across Sectors for Health - Cardiovascular Disease Data Guide" is shown, along with a map of the region. The bottom of the page is divided into three sections: "Data Beginners" (with a scooter icon), "Data Wizards" (with a rocket icon), and "Publishers" (with a bomb icon). Each section has a brief description and links to further resources.

WESTERN PENNSYLVANIA REGIONAL DATA CENTER

Search for open data

Data ▾ Tools Get Involved ▾ News ▾ About ▾ Contact Us

The Region's Open Data at Your Fingertips

Hyperlocal data at your fingertips

Now serving 329 datasets and counting.

PPS Instructional Packet Pickup Location Finder

Browse the Data!

Data Across Sectors for Health - Cardiovascular Disease Data Guide

The data in this DASH Data Guide has been assembled and made available for public use as part of...

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.

Good information — connected, comprehensive datasets about the St. Louis region's health and wellbeing — is often hard to find. The complex data landscape requires public, private, and social sector leaders working together to create a holistic regional data sharing system to improve community health.

Since its launch in June 2018, the RDA has worked hard to address these challenges alongside a growing number of partner governments, universities, funders, nonprofits, healthcare providers, private businesses, and strategic initiatives.

Collectively, these organizations sought to understand, connect, strengthen, and use what the RDA refers to as *community data*, defined as “organized information about community health and development — including but not limited to data from government, healthcare, and the nonprofit sector — that is used to understand a local situation and plan for action.”



Ask what data your
community & leaders
need before investing.

What you can do:
Partner,
Regulate &
Coordinate

N.Y.'s Vaccine Websites Weren't Working. He Built a New One for \$50.

New Yorkers with tech skills were appalled when they tried to make vaccine appointments for older relatives. They knew there was a better way.



Give this article



355



Dear NYT:
Good technology
takes time & money.

2. Solution Marketplace?

Modeled off of other B2B & B2C marketplaces, the ambition was to increase innovation and competition.



Market Size: US Government Technology

≥\$200B Annual Spend

Let's put that in context...



Video Game Industry

\$61B 2020 US Revenue

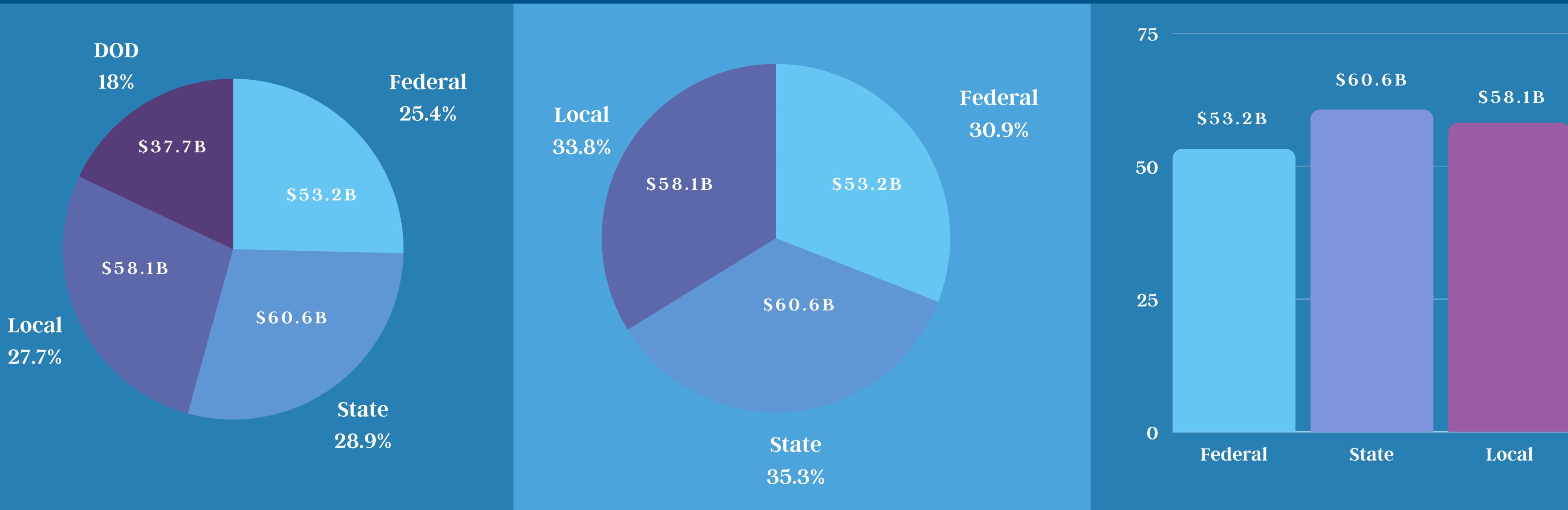


Wearables Industry

\$42B 2020 US Revenue

State & Local IT vs Federal IT

Breaking it down, taking out National Defense expenditure, which is fairly specialized and less accessible, local and state governments are a bigger opportunity than federal.





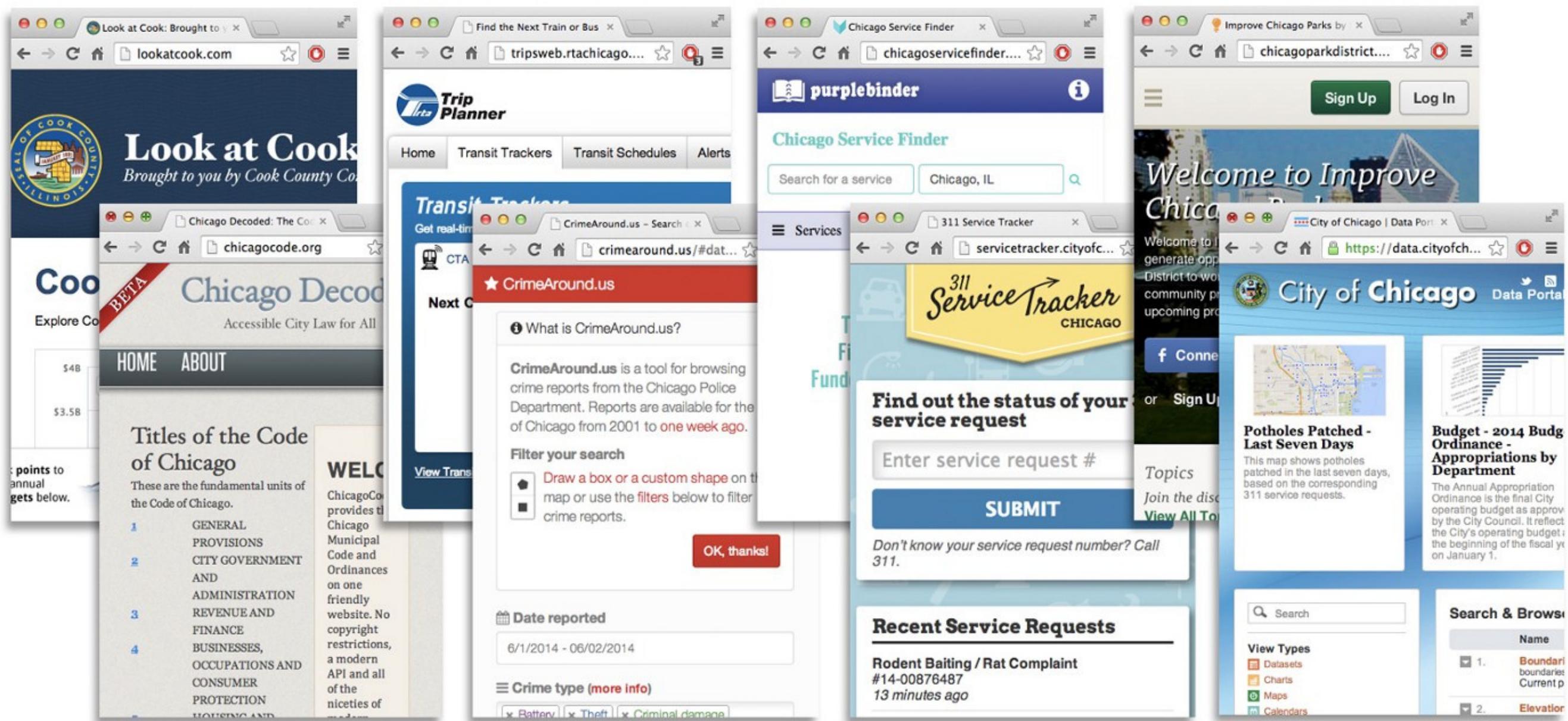
abhi nemani

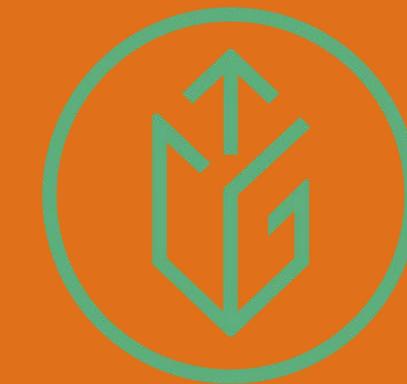
Jun 11, 2014 · 18 min read · [Listen](#)



Small (City) Pieces, Loosely Joined

Experiments in stitching together civic technology for local governments

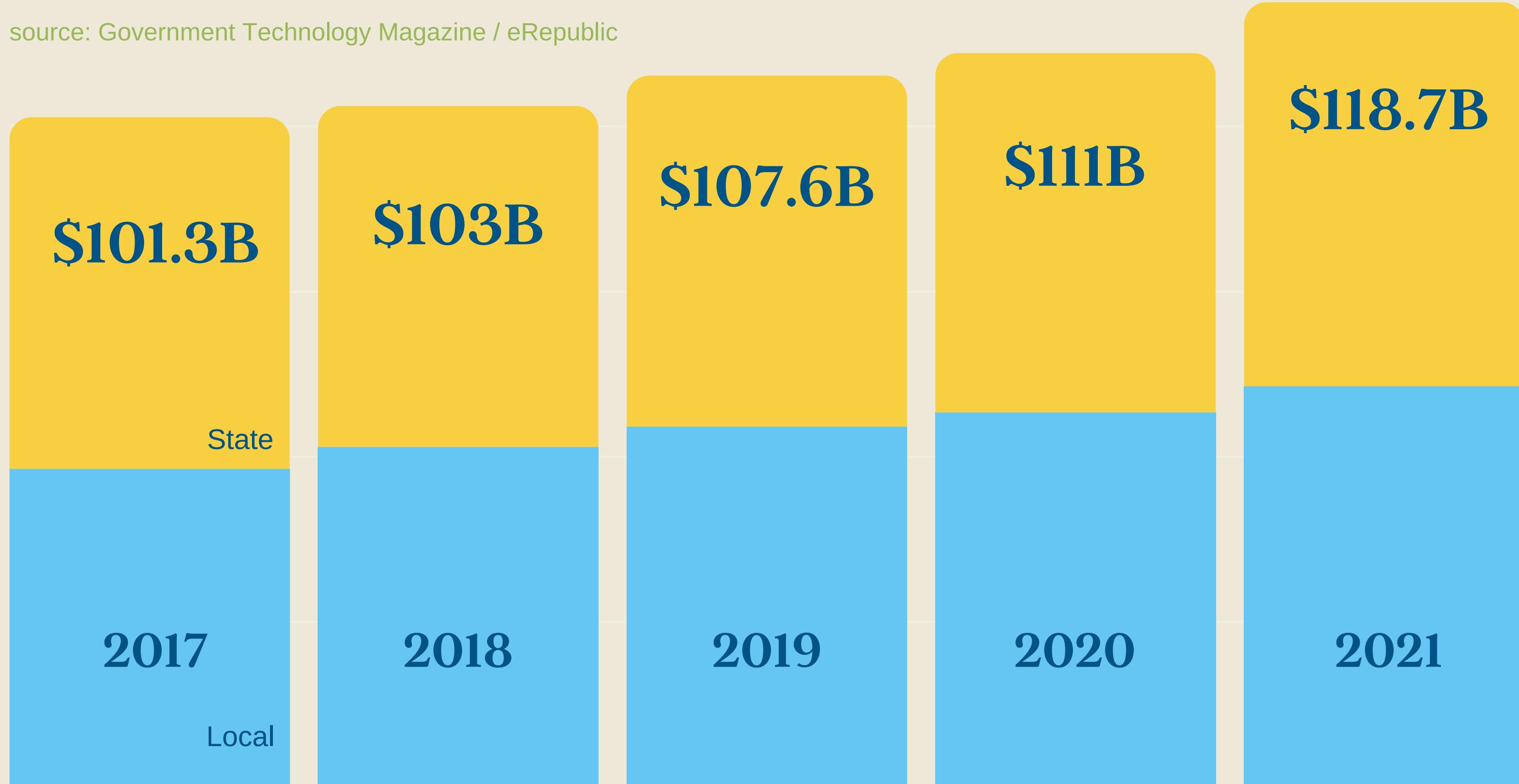




State & Local Government IT Spending

On the rise...

source: Government Technology Magazine / eRepublic



GOVTECH BIZ

Gov Tech Market Gains Steam, Breaks Records in 2021

From permitting and licensing to public safety and artificial intelligence, the market for tech companies serving state and local government hit record M&A highs in 2021 — and it's just getting started.

January/February 2022 • Thad Rueter



Most Read

[Pennsylvania Lawmakers Float Consumer Data Control Legislation](#)

[Women Empowering Women to Host First Summer Technology Camp](#)

GovTech Consolidation (A Snapshot)

*Not many "little
guys" left standing*

 Government Technology

CivicPlus to Buy Optimere, Adding Compliance Tools to Suite

... Digital States · GovTech Top 25 · GovTech 100 ... into the compliance space with an acquisition of the newly formed business Optimere.

May 18, 2022



 Government Technology

OpenGov to Buy Public Asset Management Firm Cartegraph

That comes via the acquisition of Cartegraph, an Iowa-based firm founded ... Singer told Government Technology that OpenGov is keeping the...

3 days ago



 Government Technology

How Does Tyler's Acquisition of NIC Look a Year Later?

GovTech Biz · Transportation · Workforce · More · Topics · Center for Digital Education · Center for Digital Government...

May 17, 2022

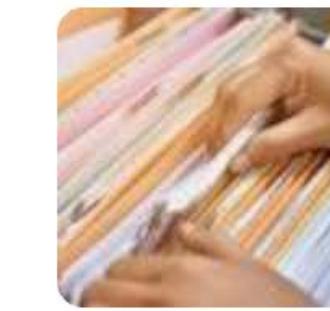


 Government Technology

Granicus Buys Public Records Technology Firm GovQA

GovTech Biz · Transportation · Workforce · More · Topics · Center for Digital Education · Center for Digital Government...

Aug 26, 2021





*“The future is here.
It’s just not evenly
distributed yet.”*

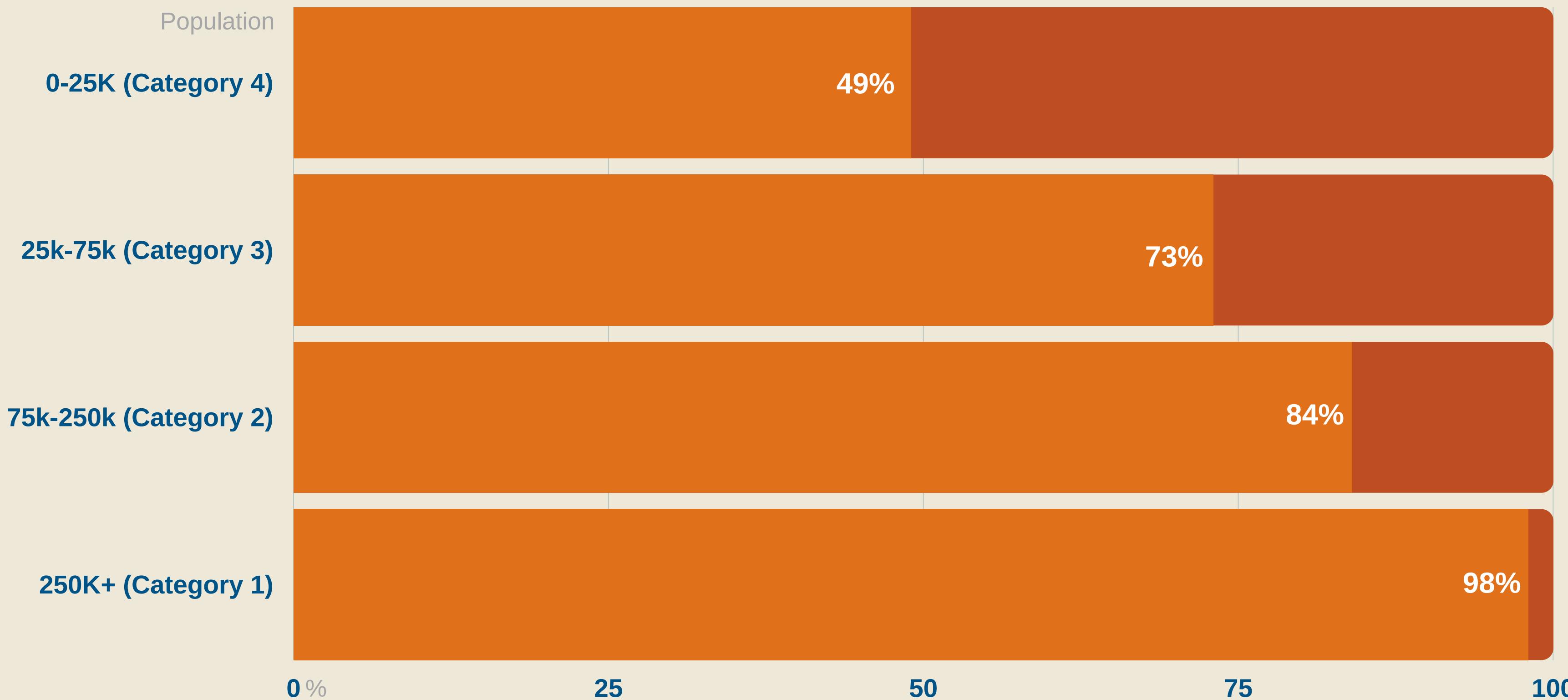
"When Covid hit, our fastest option was ZenDesk, not a Smart City provider. We had to stand it up in days and cheap."

- Small City CIO

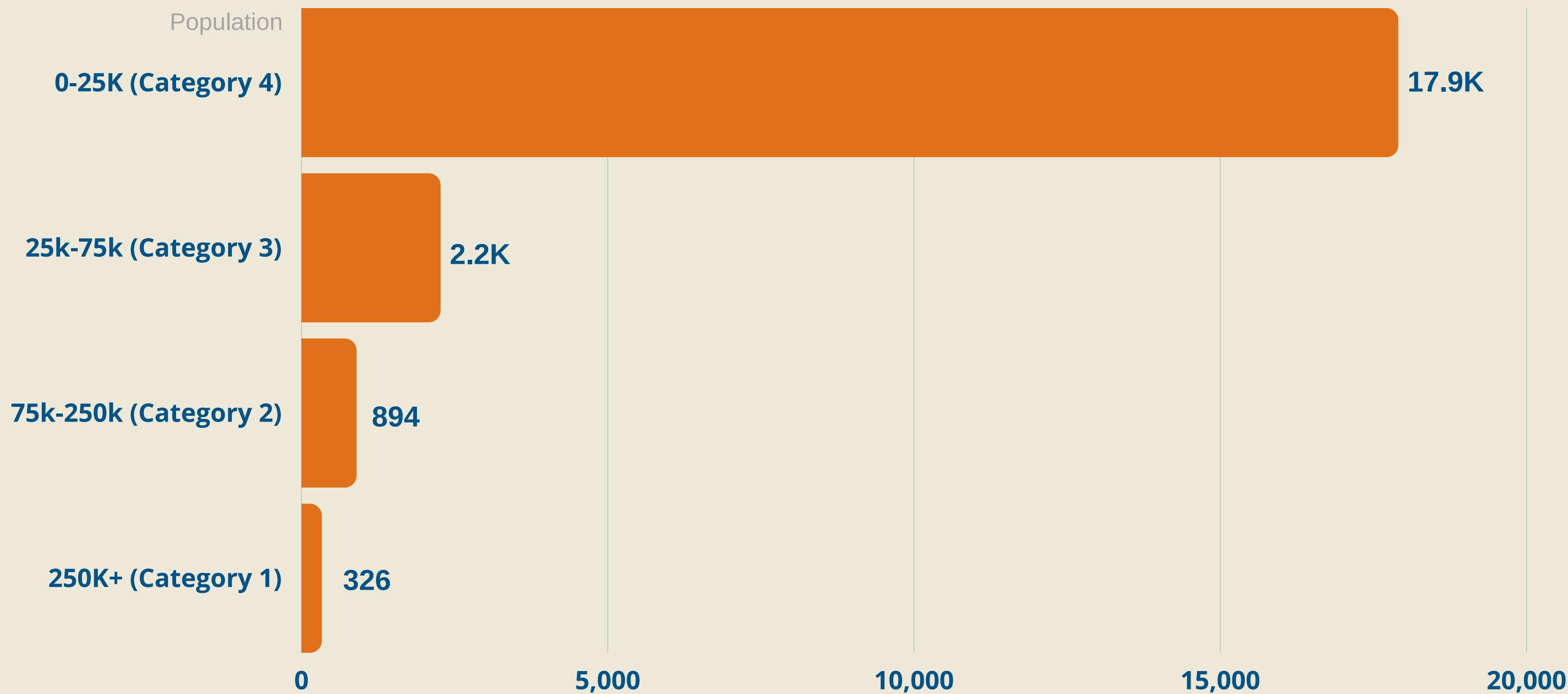
Problem 1:
Leaving behind the
little guys



SaaS Adoption is skewed.



Most cities are *small*.



"We need it to be as cheap as SaaS but with the services of a full consulting firm."

- Small City City Manager

*"We need to meet *fast*
revenue metrics for VC &
small cities, one at a time
don't get us there."*

- Smart Cities Startup Entrepreneur

Smart Cities' Business Model Problem: Small Cities

What you can do

Encourage collaborative access to new tools for *all* cities

- Leverage collaborative purchasing with collective bargaining power (e.g., coProcure, Marketplace.city)
- Enable standards for interoperability (e.g., ID)

Problem 2:
Cities are worried
about cybersecurity.



Cybersecurity

#1 Top priority for cities of
all sizes



Cybersecurity

#1 Reason Small Cities are

looking to SaaS



Lack of Staffing
#2 Reason Small Cities are
looking to SaaS



What you can do

Support Local Leaders Making Mission Critical Decisions

- "State RAMP" equivalent to FedRamp to ensure third-parties stick to standards
- Fund local trainings (e.g., recent cybersecurity EO with \$1B)



*"Just make the damn
websites work."*

- @GSACarnahan

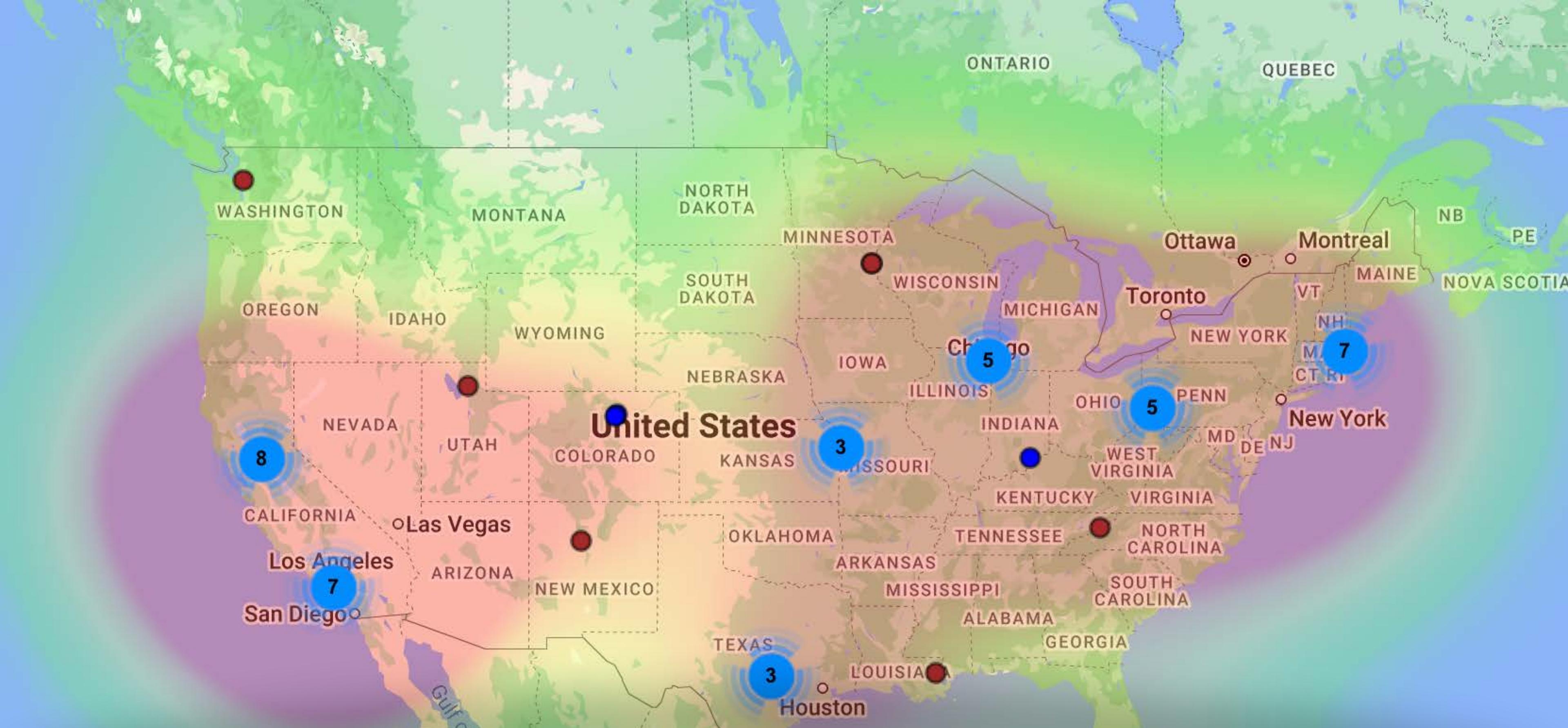
3. New CIOS/CTOs to lead innovation

"Smart cities" sought to bring in new leaders to change the culture around innovation.





The "Original" New Urban Mechanics: 2011



Hundreds of cities now have C[x]Os focused on Innovation

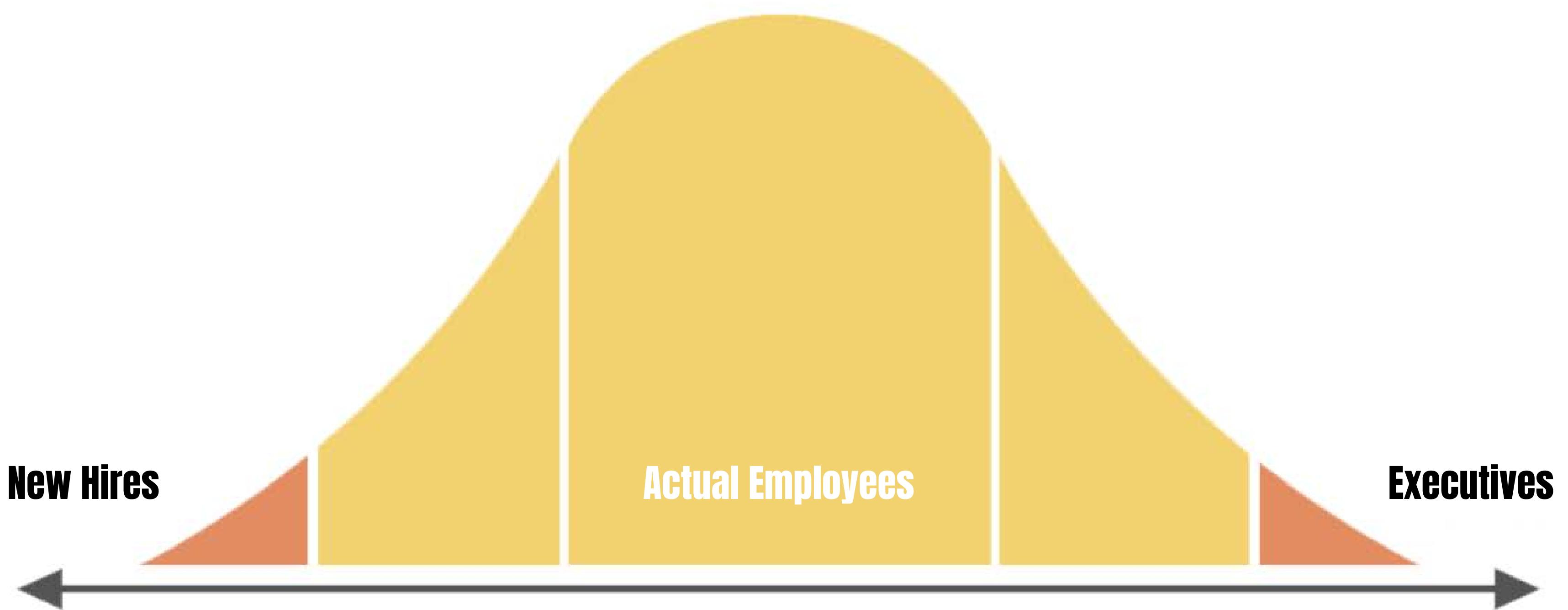
Talent Pipeline

New titles in the "C-Suite"

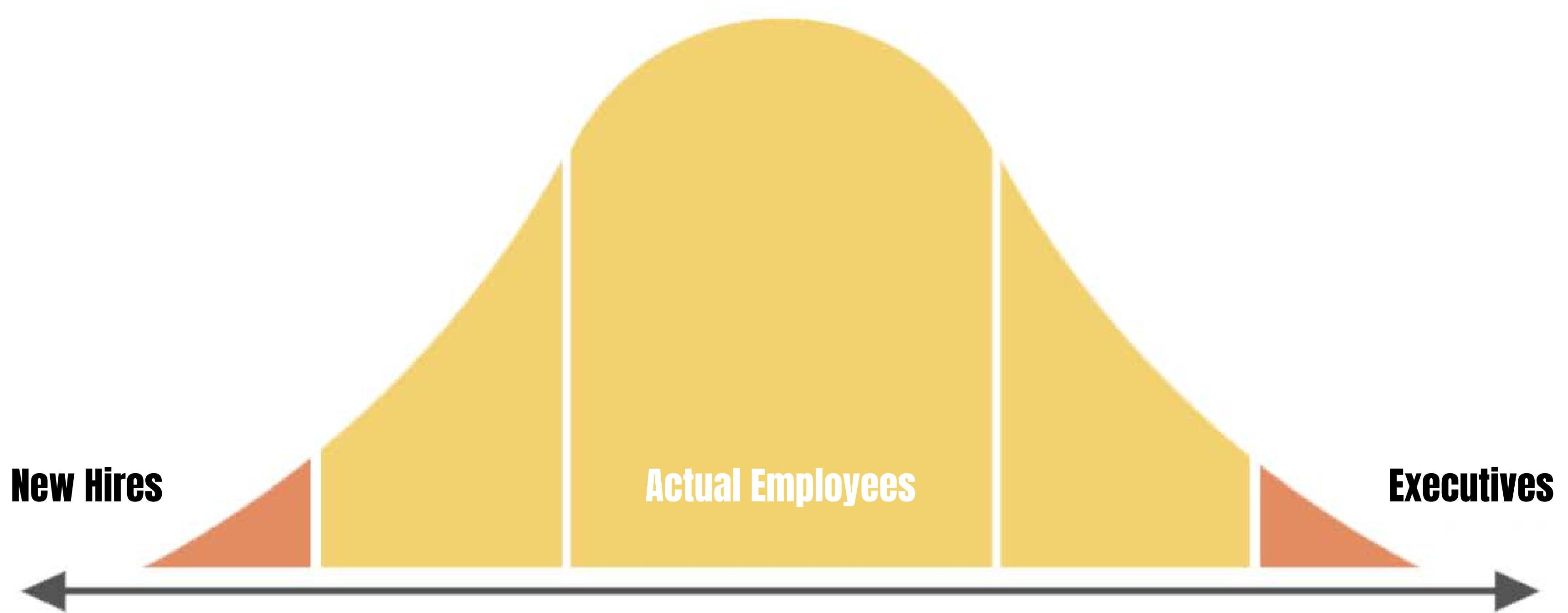
- Chief Innovation Officer
- Chief Innovation Technology Officer
- Chief Data Officer
- Chief Performance Officer
- Chief Digital Officer
- Chief Customer Service Officer
- Chief Analytics Officer
- Chief Experience Officer
- Chief [X] Officer

Problem 1:
we're thinking too
small—missing the gap.

Where Focus Tends to Go for Training



Where Focus Tends to Go for Recruitment





19.8 Million
*State & Local
Government Employees*

In government, no one
can be a one man army.
Teams work.

What you can do:
Invest in local
leadership development
& recruitment.

DENVER
PEAK
ACADEMY





APPLY

VISIT

GIVE

≡ MENU

Academics

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College of Engineering, Design and Computing

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Smart Cities

A multidisciplinary, microcredential-based certificate program

What's Possible Here?



*"Good leaders spend at
least half their time
recruiting."*

- fmr Mozilla CEO



A BUREAUCRACY IS FOREVER



"Making Bureaucracy Sexy"

(Code for America, 2012)





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SGR Job Board

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65 Careers in City/County Manager and Administrators

Date Posted	Position	City / Organization	State
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07/13/22	City Manager	East Palo Alto	CA
07/25/22	City Manager	Emeryville	CA
07/26/22	City Manager	Gustine	CA
07/07/22	Deputy City Manager	Rialto	CA
07/20/22	City Manager	Rohnert Park	CA
06/13/22	Director of Communications - R14730	Sarasota County Government	FL
06/07/22	Village Manager	The Village of North Palm Beach	FL
06/17/22	Assistant City Manager	City of Port Wentworth	GA

Top 5 Google Search Result for "City Manager Positions"

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Career Pages

The City of
Los Angeles
is now hiring

Graphics Designer



Jan 12 - 25
per.lacity.org
\$46,708 - \$103,230

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GRAPHIC DESIGNER 7213 (REV 02-17-22)



Salary ⓘ \$75,627.00 - \$110,580.00 Annually

Location ⓘ CITY OF LOS ANGELES, CA

Job Type FULL-TIME

Department ALL DEPARTMENTS

Job Number 7213 OP 2022/02/04 C

Closing Continuous



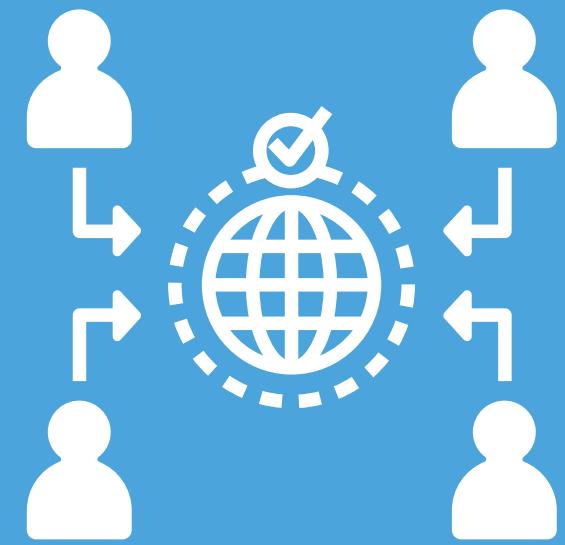
*Remember: Local leaders
become state leaders.*

So what now?

What is actually smart.



Websites that Work



Market Access for All



Capacity Building



*"The imperfection of the Web isn't a temporary lapse. It's a design decision...
The designers weighed perfection against growth and creativity, and perfection lost.
The Web is broken on purpose."*

- Small Pieces, Loosely Joined



small civic pieces, loosely joined.

@abhinemani

