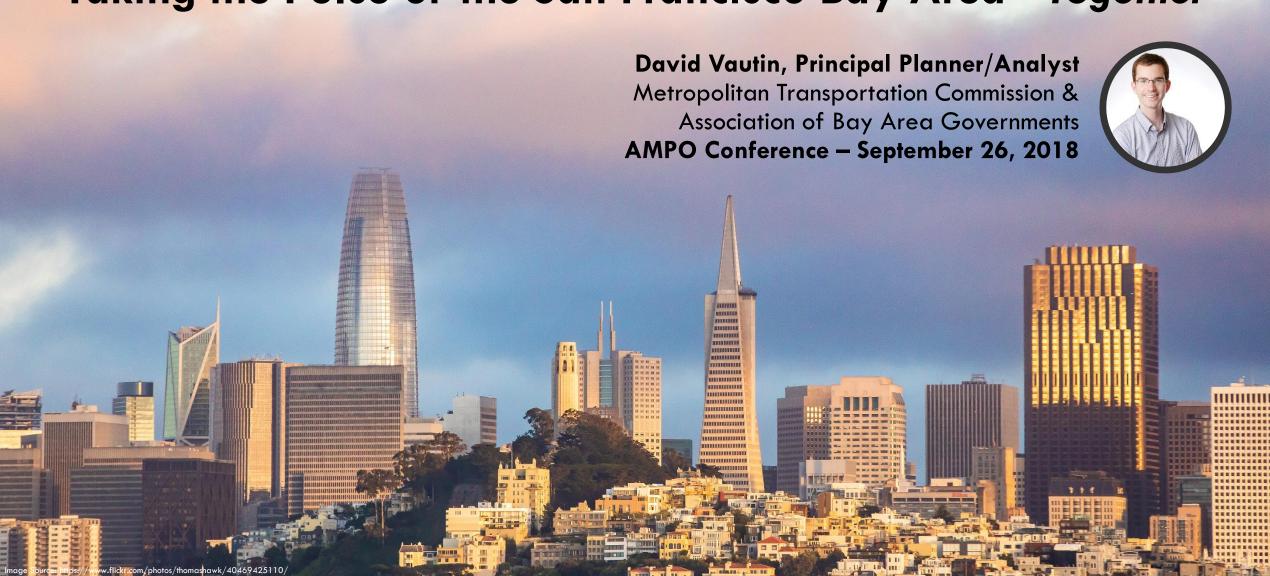
# VITAL SIGNS

# Taking the Pulse of the San Francisco Bay Area - Together





Technology provides us an ability to move beyond paper reports.

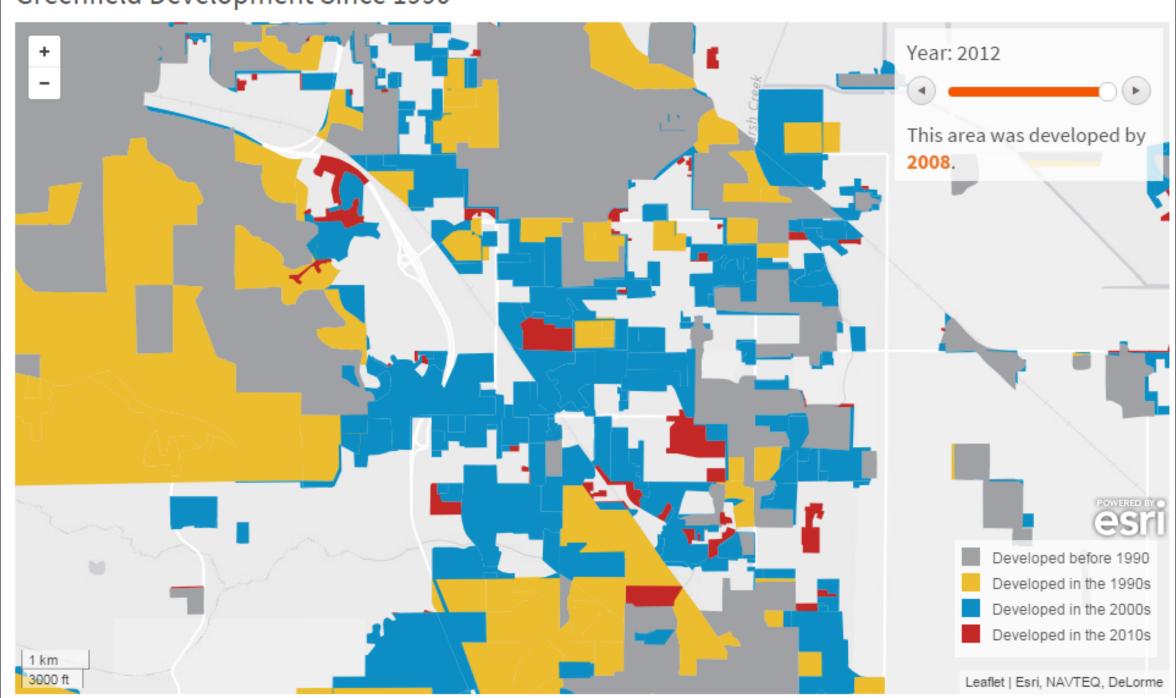




The Bay Area's Performance Monitoring Initiative



Greenfield Development Since 1990



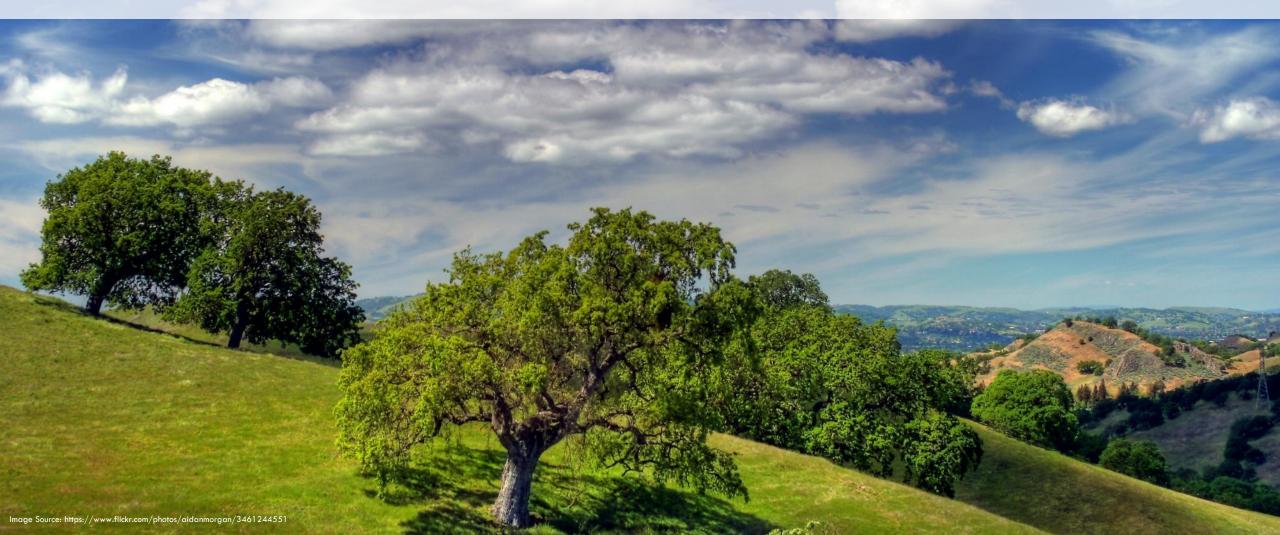
# BayArea BayArea Chil

Plan Bay Area established a regional vision for transportation, land use, and housing in the 21<sup>st</sup> century.





Vital Signs seeks to track implementation of sustainability objectives in the region, creating a "one-stop shop" for tracking regional and local trends.





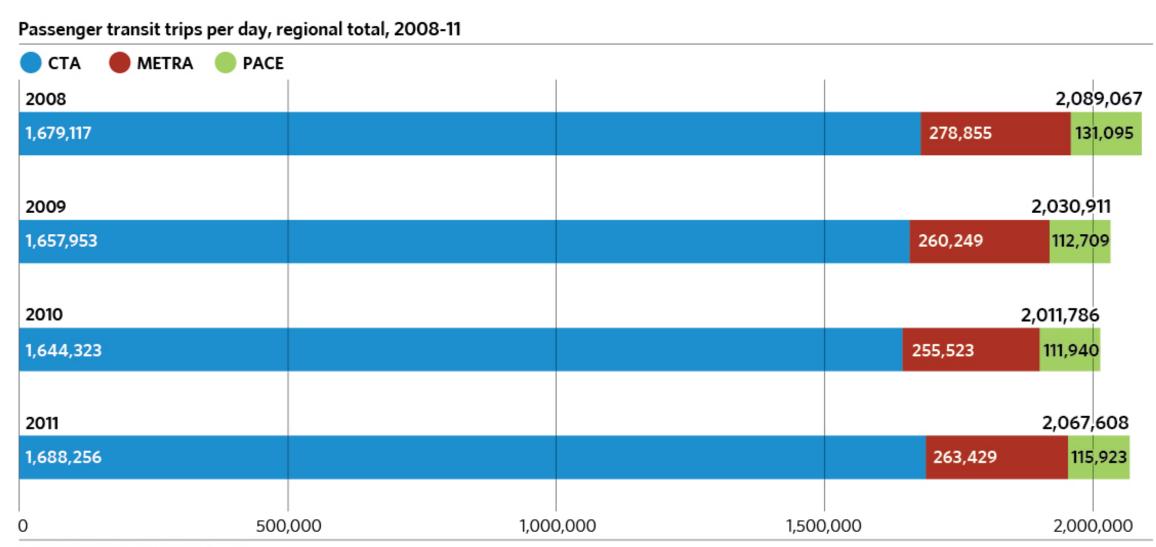


Cutting-edge regions across the globe are leveraging technology.





X



Note: Does not include paratransit trips. Source: National Transit Database.

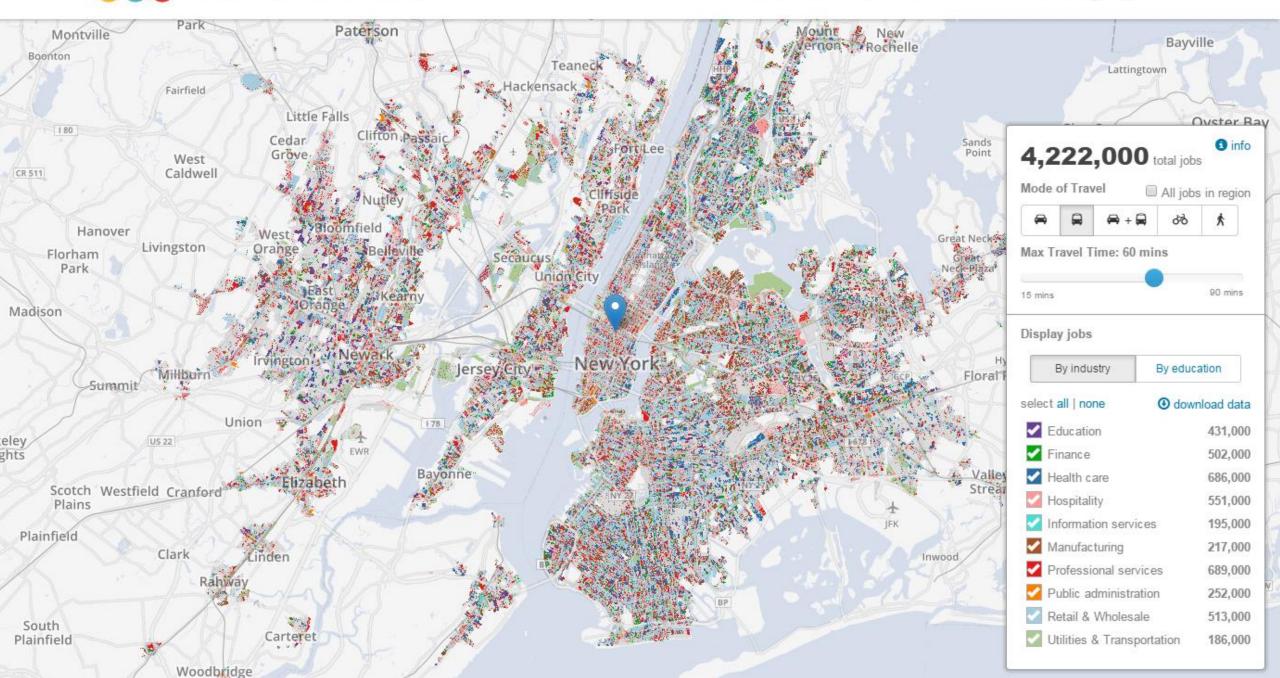


Regional Plan Association

The New York Times

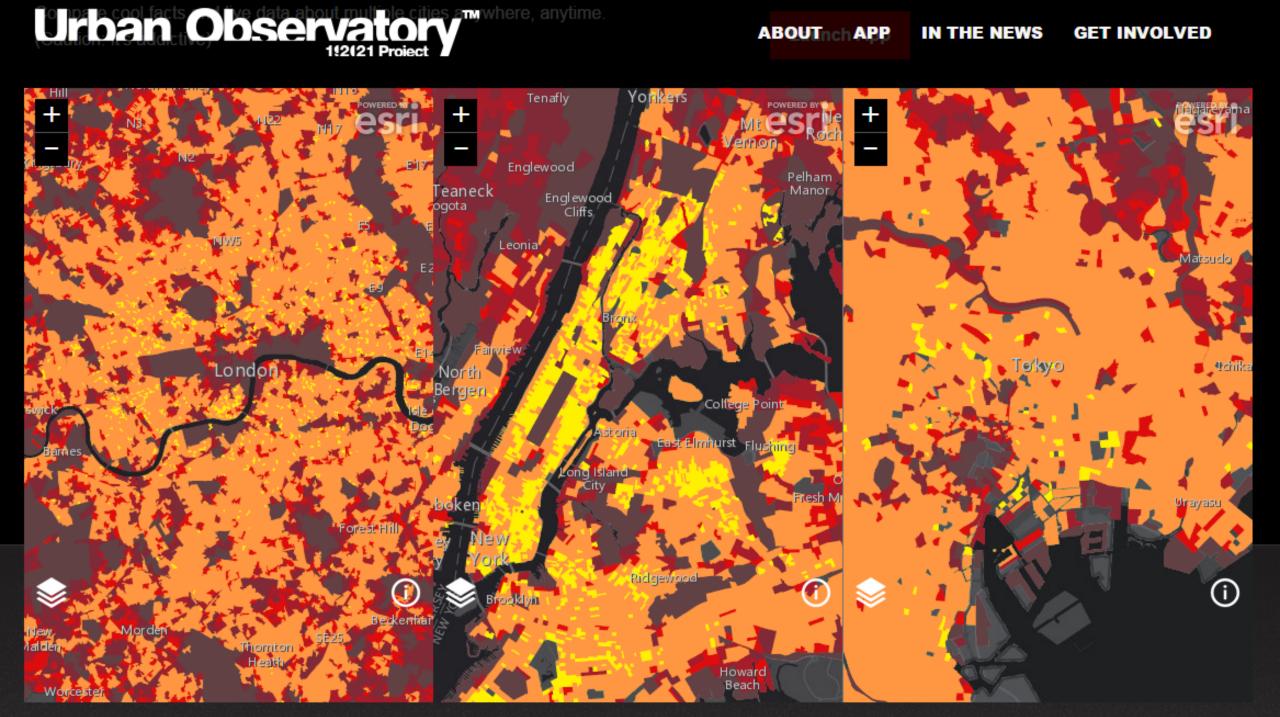






REGIONAL PLAN ASSOCIATION





# VITAL SIGNS

Performance Monitoring

Data Visualization

**Open Data** 



# VITAL SIGNS

**Long-Term Lens** 

Hyper-Localization

100% Interactive

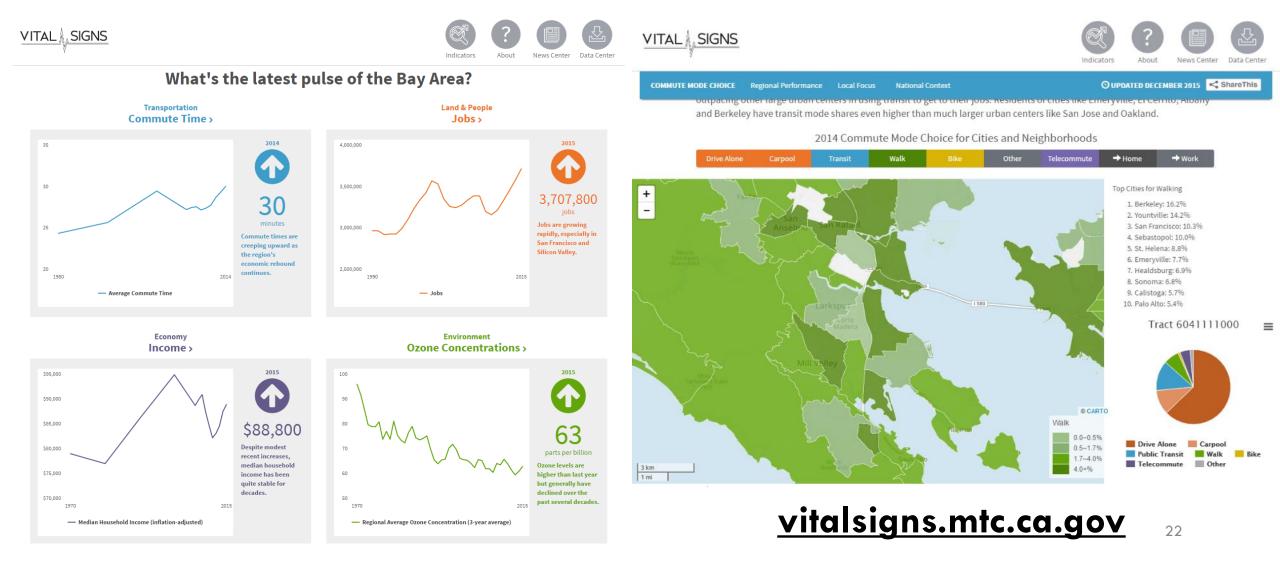




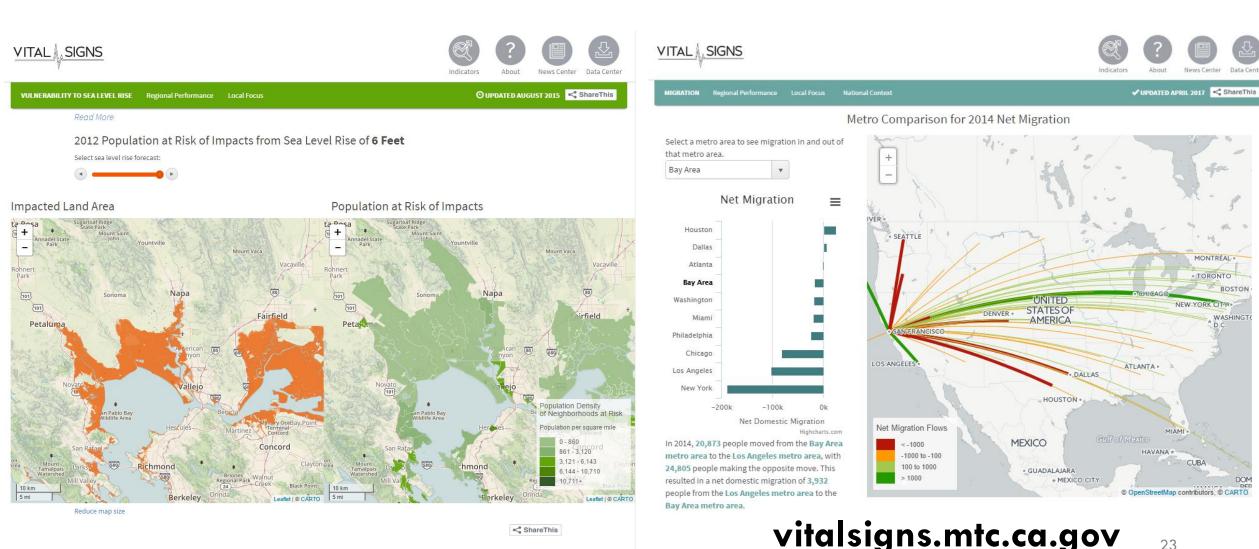
The biggest hurdle: data silos and institutional barriers.



# The interactive Vital Signs website allows residents to explore trends on the regional, county, city, and even neighborhood levels.



## The interactive Vital Signs website allows residents to explore trends on the regional, county, city, and even neighborhood levels.



### Users can create customized charts that can be exported to PowerPoint with one click.





























TRANSIT RIDERSHIP Regional Performance Local Focus

National Context

ShareThis

BRIDGE CONDITION Regional Performance Local Focus

National Context

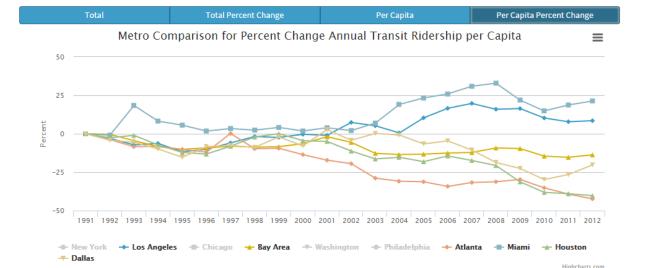
ShareThis

#### **National Context**

In terms of generating transit ridership, the San Francisco Bay Area is being outpaced by its peers.

While the Bay Area remains one of the nation's most transit-oriented metro areas, New York, Chicago, Philadelphia and Miami have all experienced notable growth in overall and per-capita ridership since 2002. In that same time, the Bay Area has seen declines in both measures - a 3 percent slide in total ridership and a 10 percent decline on a per-capita basis. The only metros with greater declines in ridership than the Bay Area were Houston, Dallas and Atlanta.

Read More

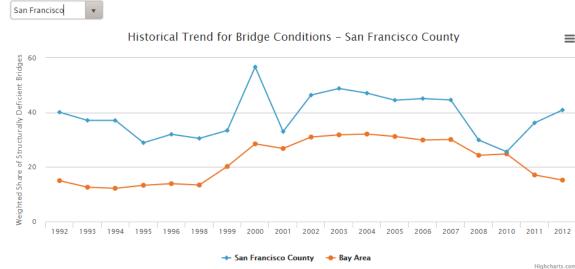


#### **Regional Performance**

Bay Area bridge conditions have significantly improved over the past decade.

Bay Area bridges and overpasses are in their best shape since 1998, thanks to substantial efforts to improve the seismic and structural safety of these critical facilities. In 2012, the share of bridges flagged as structurally deficient fell by two percentage points - and now stands at just 15 percent.

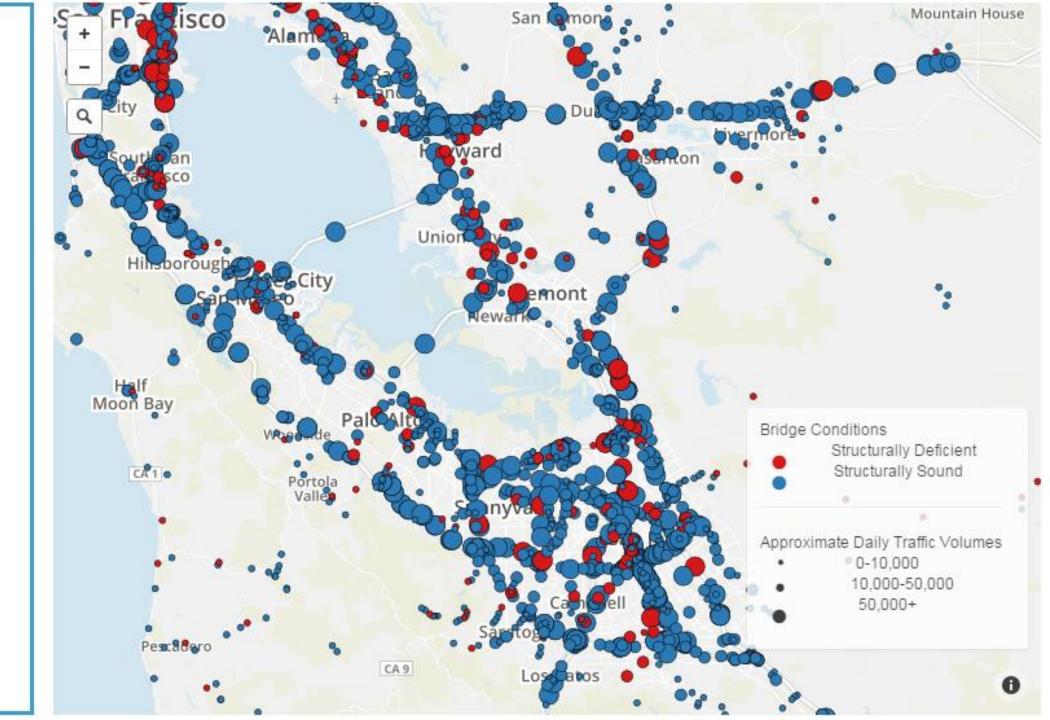
Read More



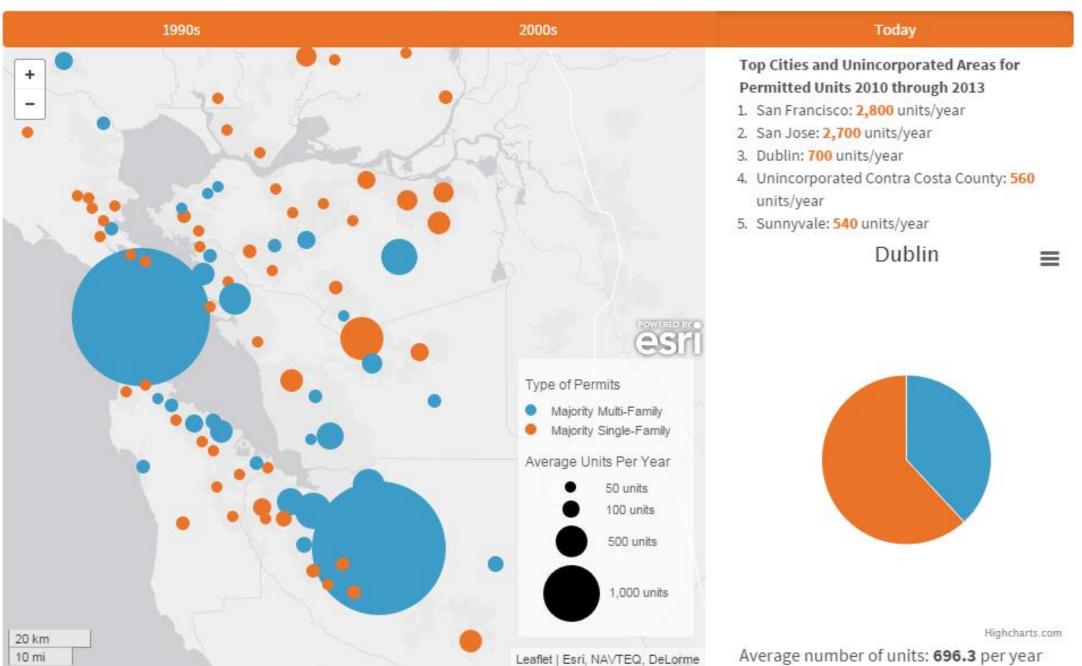
Bridge Condition

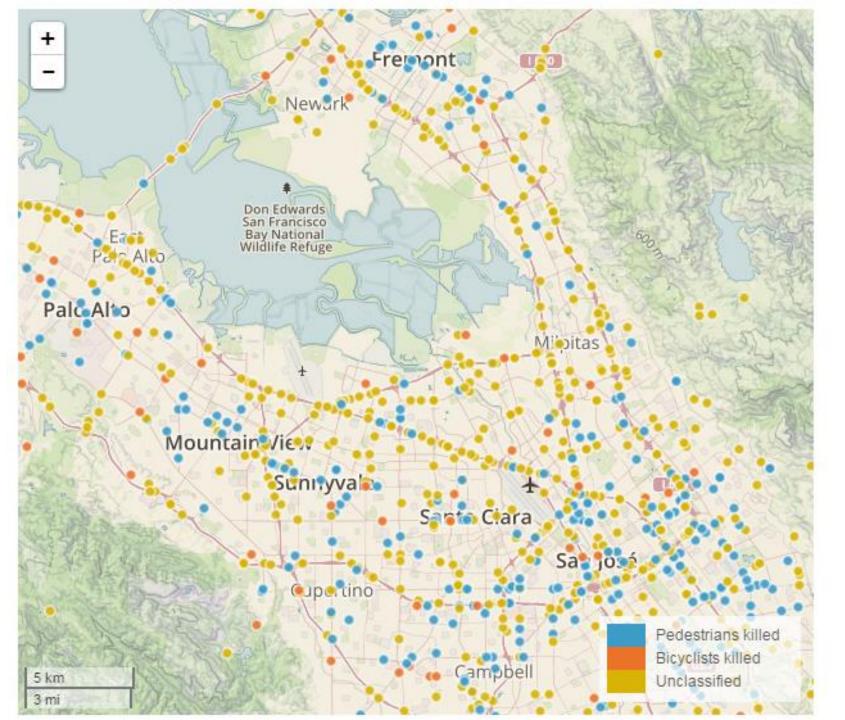
NB INTERSTATE 280

Structurally Sound



### Housing Growth by City and Unincorporated Area by Decade





#### 1 killed in November 2002

Location:

ALMA ST at EVERETT AV

City:

PALO ALTO

County:

SANTA CLARA

Time of day:

9:00 PM

Pedestrians killed:

1

Bicyclists killed:

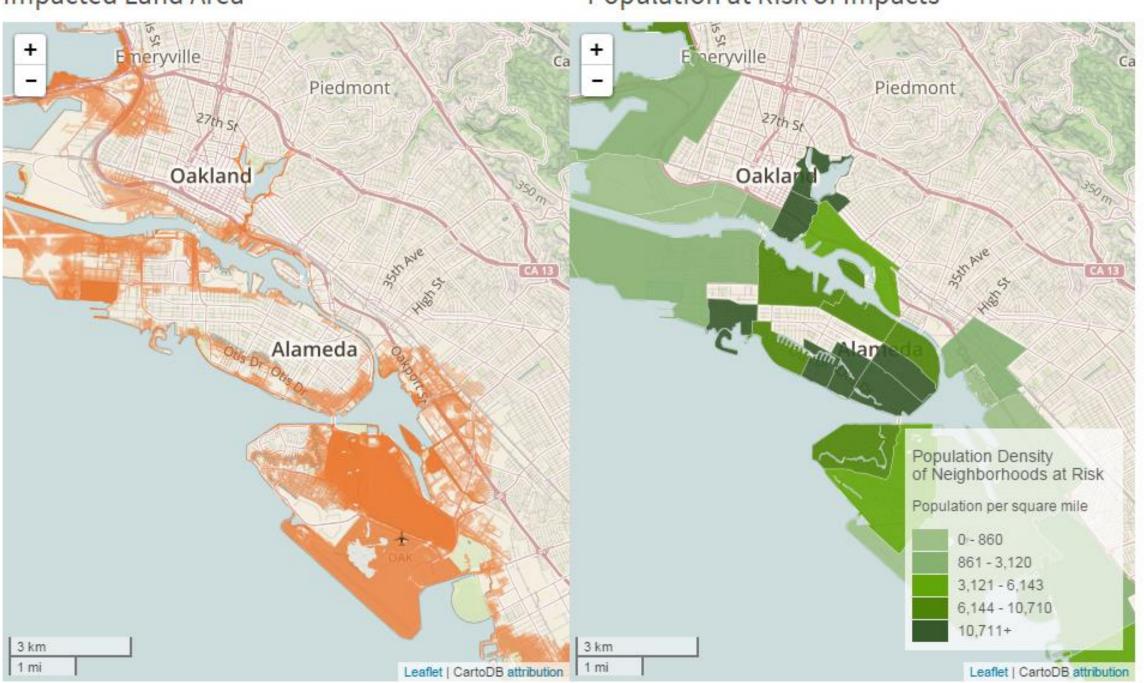
0

Motorists killed:

0

### Impacted Land Area

### Population at Risk of Impacts



# San Jose Mercury News

2.7 MILLION BAY AREA READERS IN PRINT AND ONLINE

24/7 NEWS COVERAGE ON WWW.MERCURYNEWS.COM

#### BAY AREA COMMUTES

# EVEN IF IT'S LONG, YOU CAN RELY ON IT

Our drive-times place first for predictability among major U.S. metro areas, and new study also finds that we spend slightly less time behind the wheel



In the predawn darkness.

Interstate 580 through Liver

more, on Highway 101 approach ing Mountain View and before the toll plaza on the Bay Bridge, where a single fender bender

can mean long delays for thousands of drivers. Bay Area commuting can be

#### Most predictable a.m. commutes

From I-280 to Highway 101



#### a.m. commutes

From Highway 4 to 1-680

From I-580 to Highway 4



MORE COMPLETE LIST, PAGE AS



#### How do we rank in predictability? The Bay Area, with a Buffer Time

Index of 0.41, is the most predictable n the nation. Next up: 2. Philadelphia 0.46 4. Chicago 0.53

3. Houston 0,49 5. Atlanta 0.60 SEE THE ENTIRE TOP TEN, PAGE AS

Obama unrelenting

in quest to reassert

Progressive ideals

#### torture, at levels not felt in more than a decade. But a new study suggests

that the region's road warriors have one advantage over the rest of the country: Freeway commute times here are more predictable than in any other

major U.S. metro area.

"Yes, we have plenty of con gestion," said John Goodwin of the Metropolitan Transportation Commission, 'but it's congestion we can count on."

It's what transportation ex erts call a "reliable commute your commute stinks today, i cely will stink tomorrow. If it's a breeze on Monday and Tues-day, you'll typically have no problem Wednesday, Thursday and Friday. Either way, you'll cnow exactly when you have to ve your house to get to work Of the 10 regions in the study,

See COMMUTE, Page 8

For more on Bay Area commuting, go to www.mercurynews.

WEATHER PAGE 810



Who bikes to work?

Who works

where they live?

Who uses public

transit to commute?

32% Share of San Franciscans who use public transit (No. 1 in region)

88% Share of Santa Clara County residents who work there (No. 1 in region)

commutes take?

Source: Metropolitan Transportation Commission

28:00 Average commute in the Bay Area

Valley innovations drive 30-year vision on transportation in U.S.





# San Francisco Chronicle

# From among the brutal commutes, a new king of gridlock is crowned

#### By Michael Cabanatuan

The Bay Area's economy is booming, and with it comes a rise in gridlock and the time drivers spend stuck in traffic. That's a familiar theme. But the worst commute around - that's

The king of the region's terrible commutes is now the evening drive out of San Francisco across the Bay Bridge, Eastbound traffic on Interstate So

>> Hellish commutes: Drivers share their tales of woe trying to get between work and home. AB

creeps from Highway 101, then crawls in fits and starts across the bridge's west span to east of the Yerba Buena Island tunnel.

That tortuous stretch supplants a longtime champion. Since Caltrans started keeping records in 1981, the morning commute westbound on I-8o

from Hercules to the Bay Bridge toll plaza had held the top spot for all but one year - 1998 when Interstate 680 over the Sunol Grade captured the dubious honor.

"Same bridge but different direction and different time of day," said Amy Rein Worth, chairwoman of the Bay Area Metropolitan Transportation Commission, which compiled the new rankings based on

Traffic continues on A8



Traffic on eastbound Interstate 80 leaves San Francisco for the Bay Bridge, the newly crowned king of painful commutes.

# San Jose Mercury News

2.7 MILLION BAY AREA READERS IN PRINT AND ONLINE

Saturday, January 10, 2015

24/7 NEWS COVERAGE ON WWW.MERCURYNEWS.COM

#### TRAFFIC CONGESTION UP 65 PERCENT

### Economy on rise — and so is risk of gridlock

Biggest blockage is I-80 out of San Francisco in the afternoon commute

#### By Denis Cuff

deuff@bayareanesesgroup.com OAKLAND - The Bay Area freeway commute is moving at its slowest pace in over a decade, as an economy that has shifted into overdrive leaves drivers idling on gridlocked roads.

In its first congestion report card in Amy Worth, the Metropolitan Transcongestion - defined as traffic moving 35 mph or less — increased 65 percent in the Bay Area from 2009 to 2013.

To address the growing problem, transportation leaders are calling for more carpool and toll lanes, improved public transit and more commuters ficials said it's all but certain gridlock shifting work times.

"It's good news and bad news," said

five years, the Bay Area's transporta-portation Commission chairwoman tion planning agency said that average and also an Orinda councilwoman. "The good news is more people are finding work; the bad news is it's taking them longer to get there."

> Overall congestion in 2013 was the worst in 15 years, Congestion figures for 2014 are not available yet. But of-

> > See TRAFFIC, Page 10

#### WORST OF THE WORST See the full list on Page 10

Eastbound Interstate 80 out of San Francisco in the afternoon. Congestion that used to start at 3 p.m. on weekdays is now starting closer gateway to to 1:30 p.m.

@ Interstate southern Alameda County, a popular morning

South-bound Highway 101 between Fair Oaks Avenue and 18th Street during the afternoon

commute.



Cathy Chea @urbangeekbot
New BayAreaVitalSigns tool from @MTCBATA visualizes/tracks transpo
performance data! Your turn SoCal! #opendata vitalsigns.mtc.ca.gov



CA High-Speed Rail @CaHSRA

Data, lots of data, the most data. @MTCBATA unveiled their Vital Signs site

and it's awesome. #BayArea #SF #transit vitalsigns.mtc.ca.gov



TransForm @TransForm\_Alert
We are nerding out on @MTCBATA's new Vital Signs website: bit.ly/1x91RVY



TransitWiki @TransitWiki

Awesome new #data tool out of @MTCBATA. vitalsigns.mtc.ca.gov Enjoy,

#transponerds!



Melanie Curry @currymel
New Vital Signs website from MTC is fun for all data nerds
la.streetsblog.org/2015/02/06/new... via @streetsblogla

# 78,000+

Bay Area residents have used the Vital Signs tool at least once





# Data visualization is essential for communicating complex information to the public at large.



# There are economies of scale when it comes to publishing and visualizing "Big Data". Image Source: https://www.flickr.com/photos/wwworks/2712986388



