

# EARL<sup>∞</sup> CONFERENCE 2018

EARL US Roadshow | November, 2018

VISUALIZING ... the EXTENT of HOMELESSNESS

#EARLHouston2018  
November 9, 2018

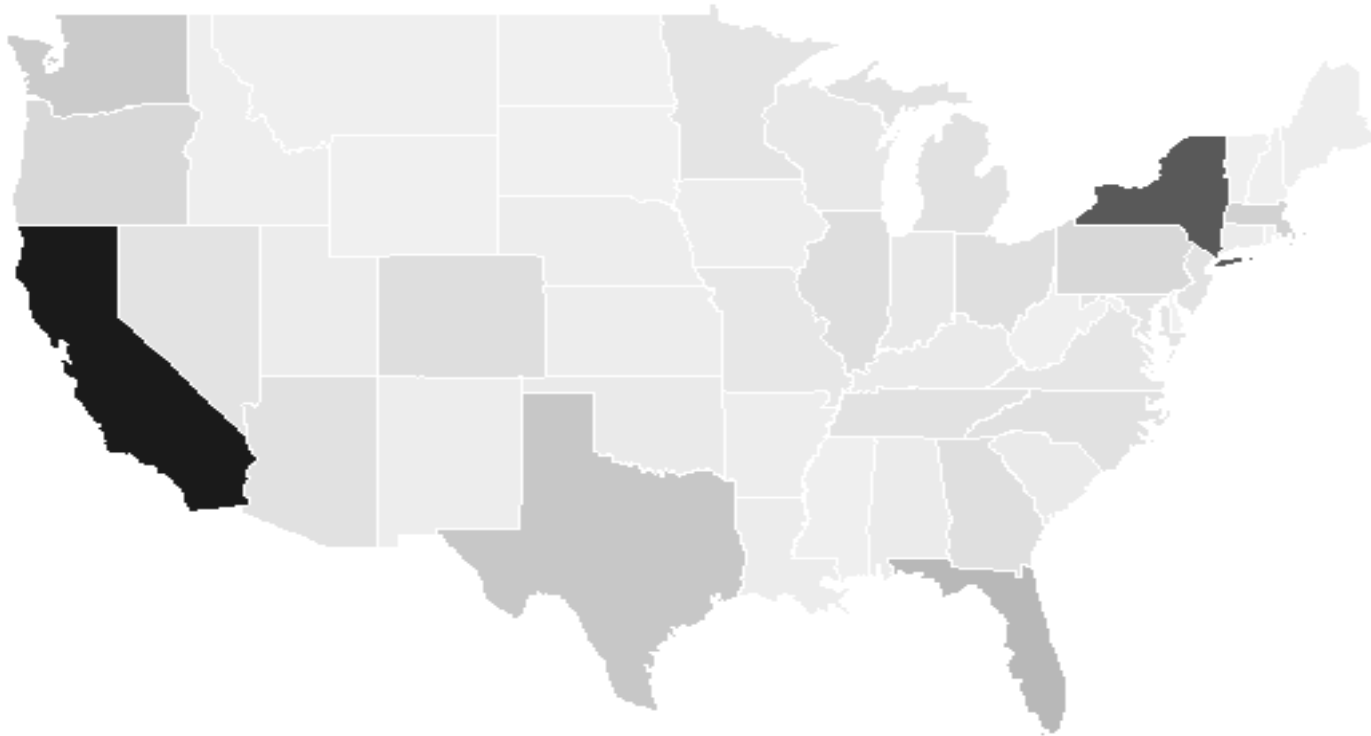
Sudha Subramanian  
\*> Sparkfish  
IGNITING INNOVATION

# Sad State Of Affairs



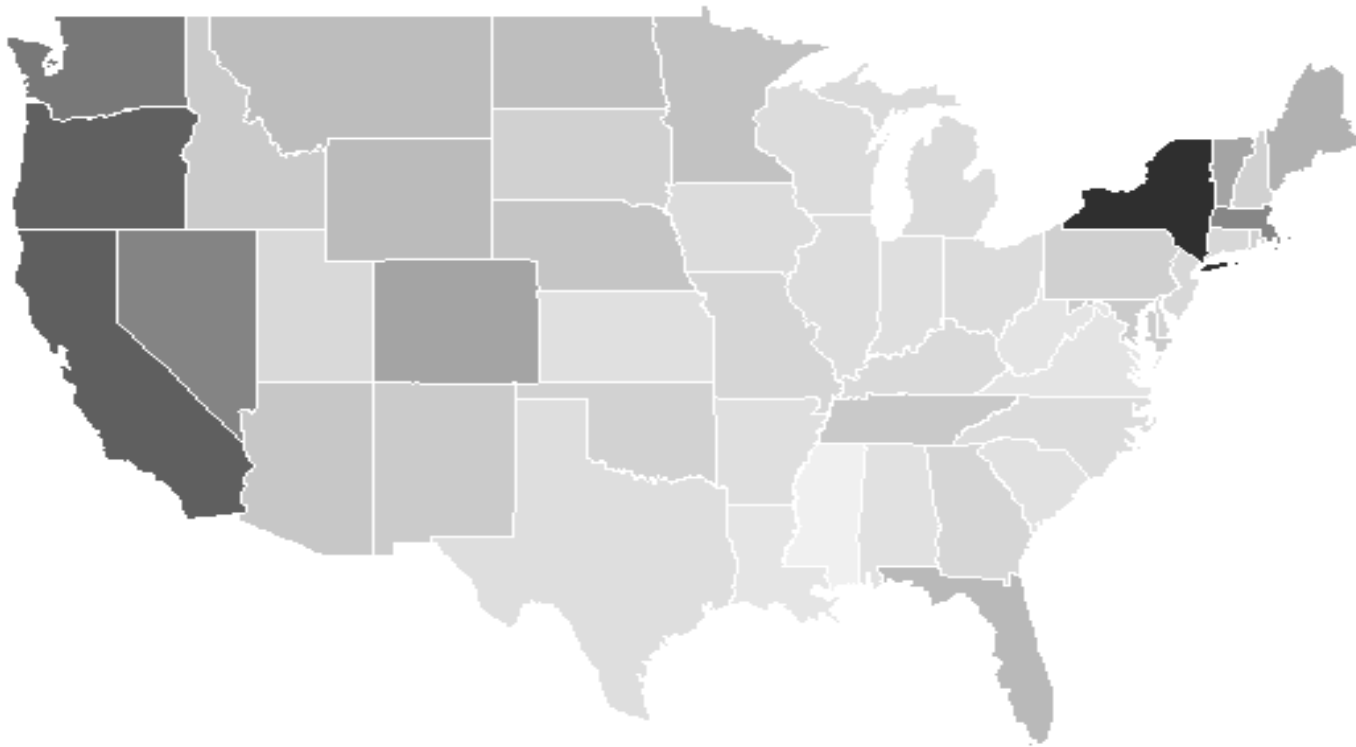
LA Times – March 2018

Year: 2017



# Homelessness (relative to population)

Year: 2017



# Housing First

## Strategy – Offer Affordable Housing & Supportive Services

### HOUSTON

- Provide affordable housing
- Reduction in Unsheltered counts

### ORLANDO

- Housing First – shown positive results
- Reduction in Chronically homeless

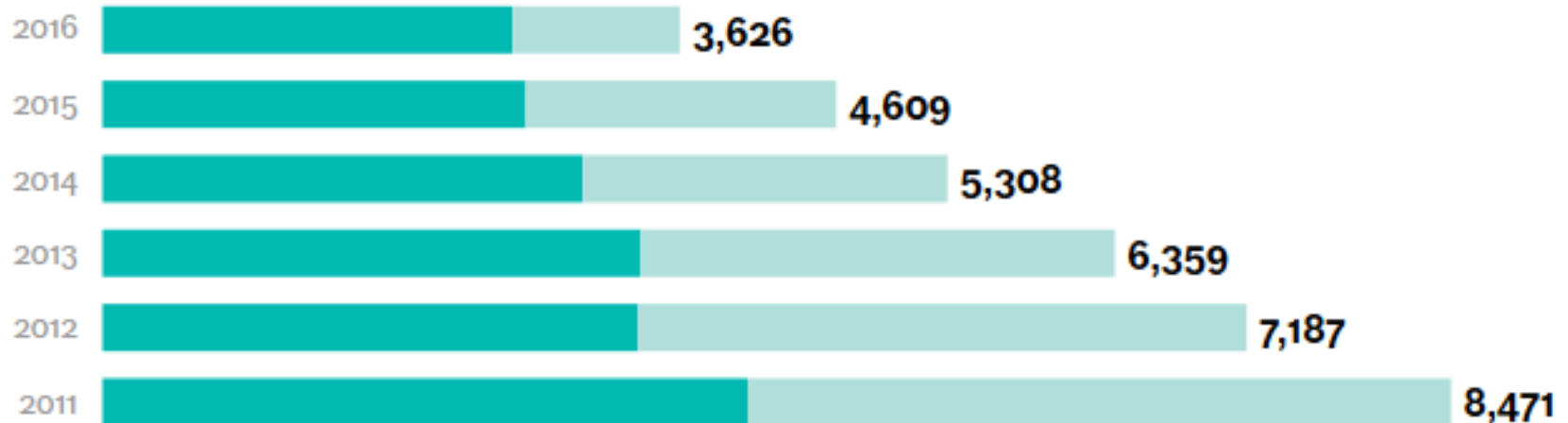
# Houston

## Unsheltered counts down by 75% since 2011

- 4418 – Unsheltered in 2011
- 1050 – Unsheltered in 2016

### HOMELESS POPULATION, 2011-2016

**SHELTERED**   **UNSHELTERED**



Seattle Times – October 2017



# Orlando

## Reduction in chronically homeless counts

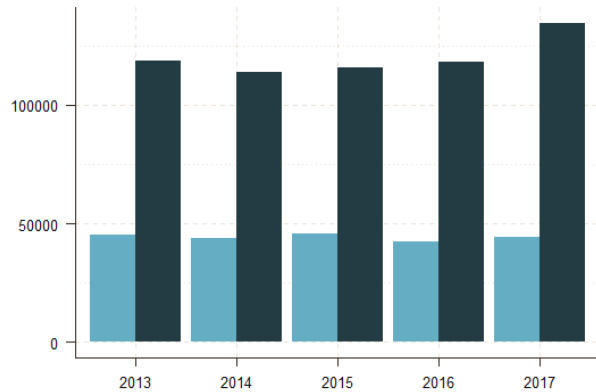


City of Orlando – Mayor (Housing First) website

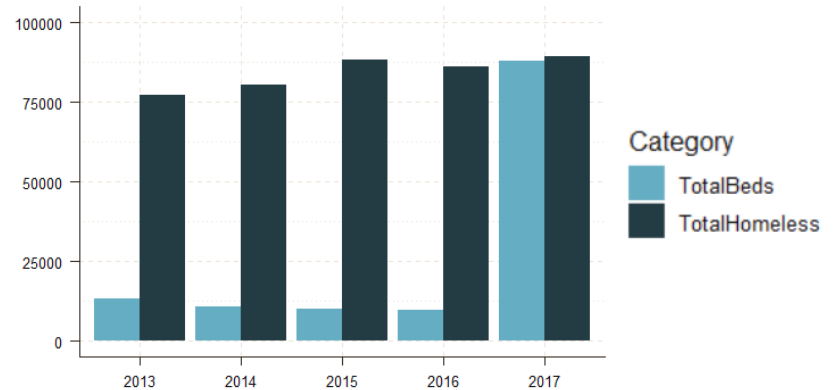
- Goal in 2014 – move 300 chronically homeless individuals / veterans into permanent / supportive housing by 2017.
- 2017 – 385 chronically homeless individuals moved into permanent / supportive housing

# Homeless vs. Bed Counts (2013 to 2016):

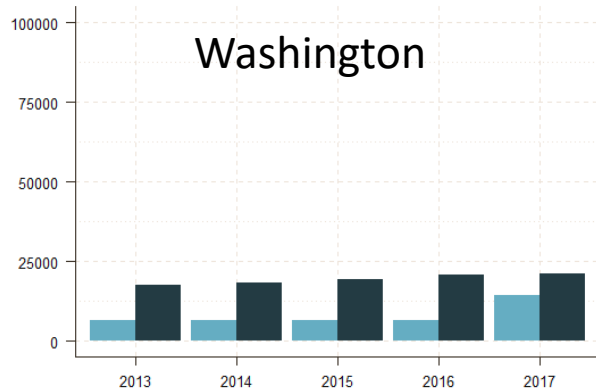
## California



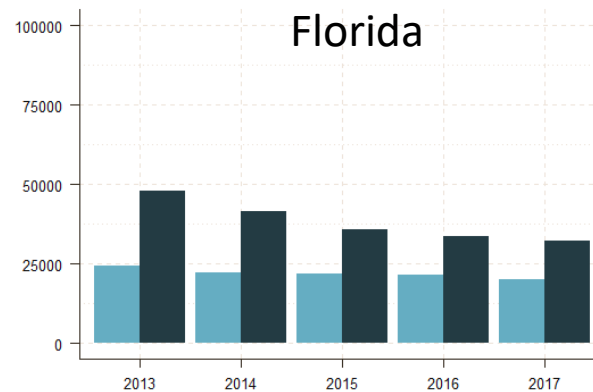
## New York



## Washington



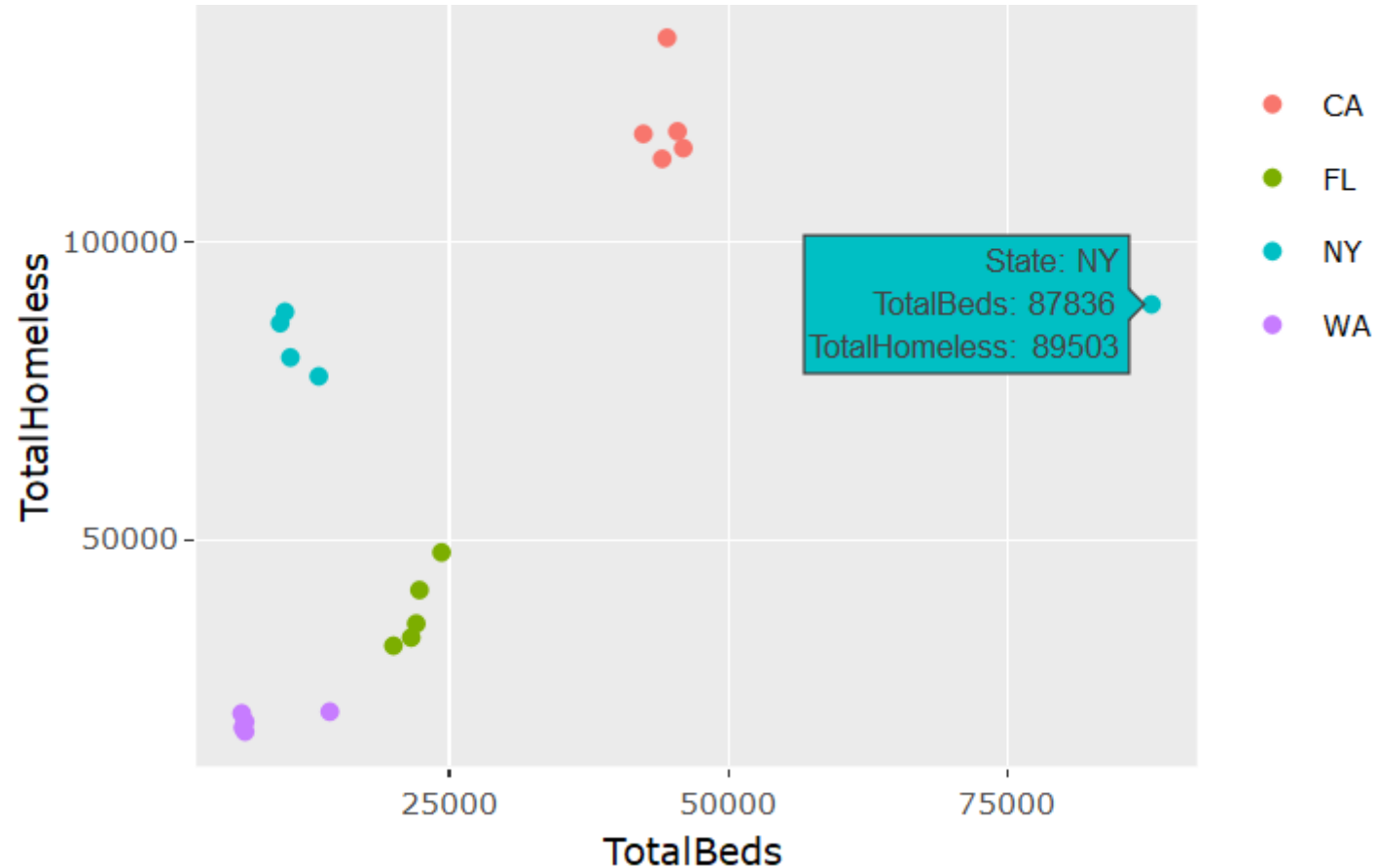
## Florida



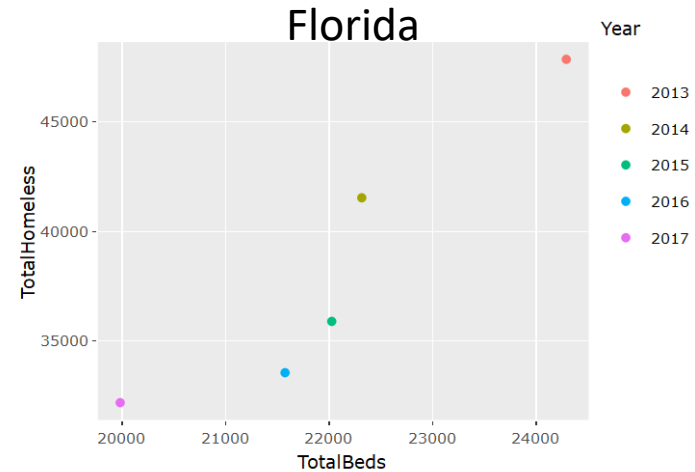
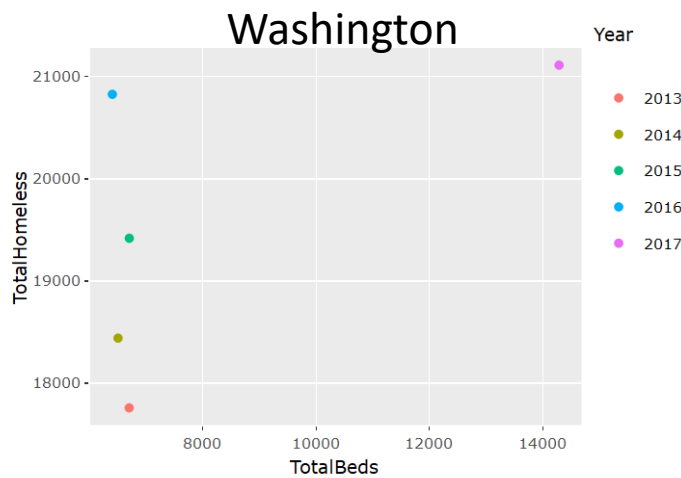
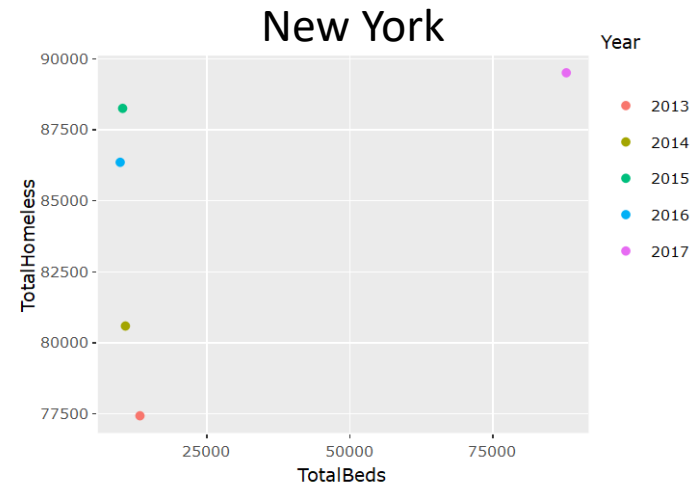
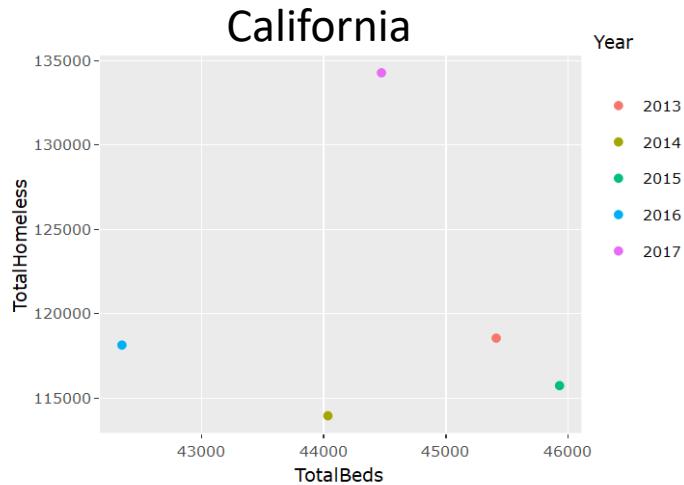


# Total Homeless vs. Bed Counts

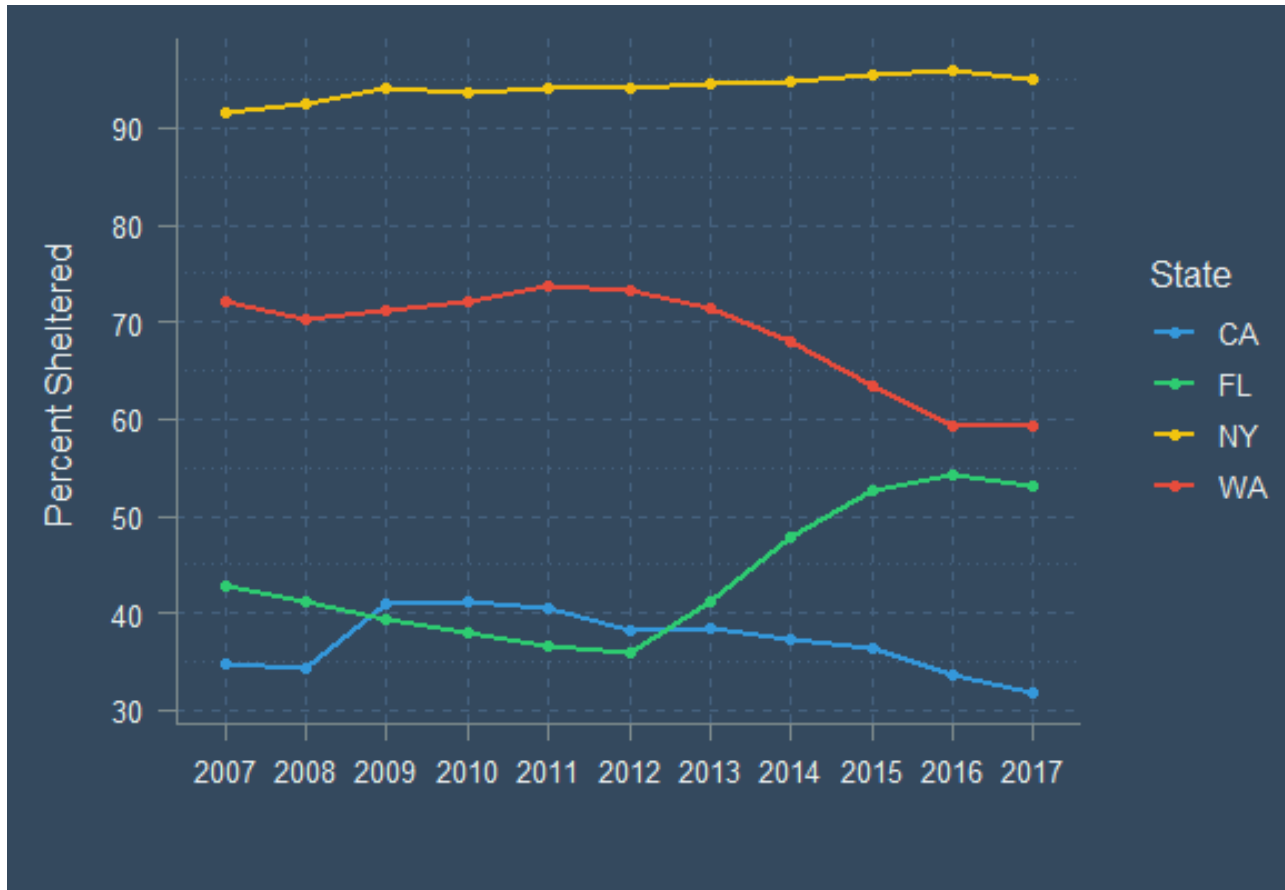
(2013 to 2017)



# Homeless vs. Bed Counts (2013 to 2016):



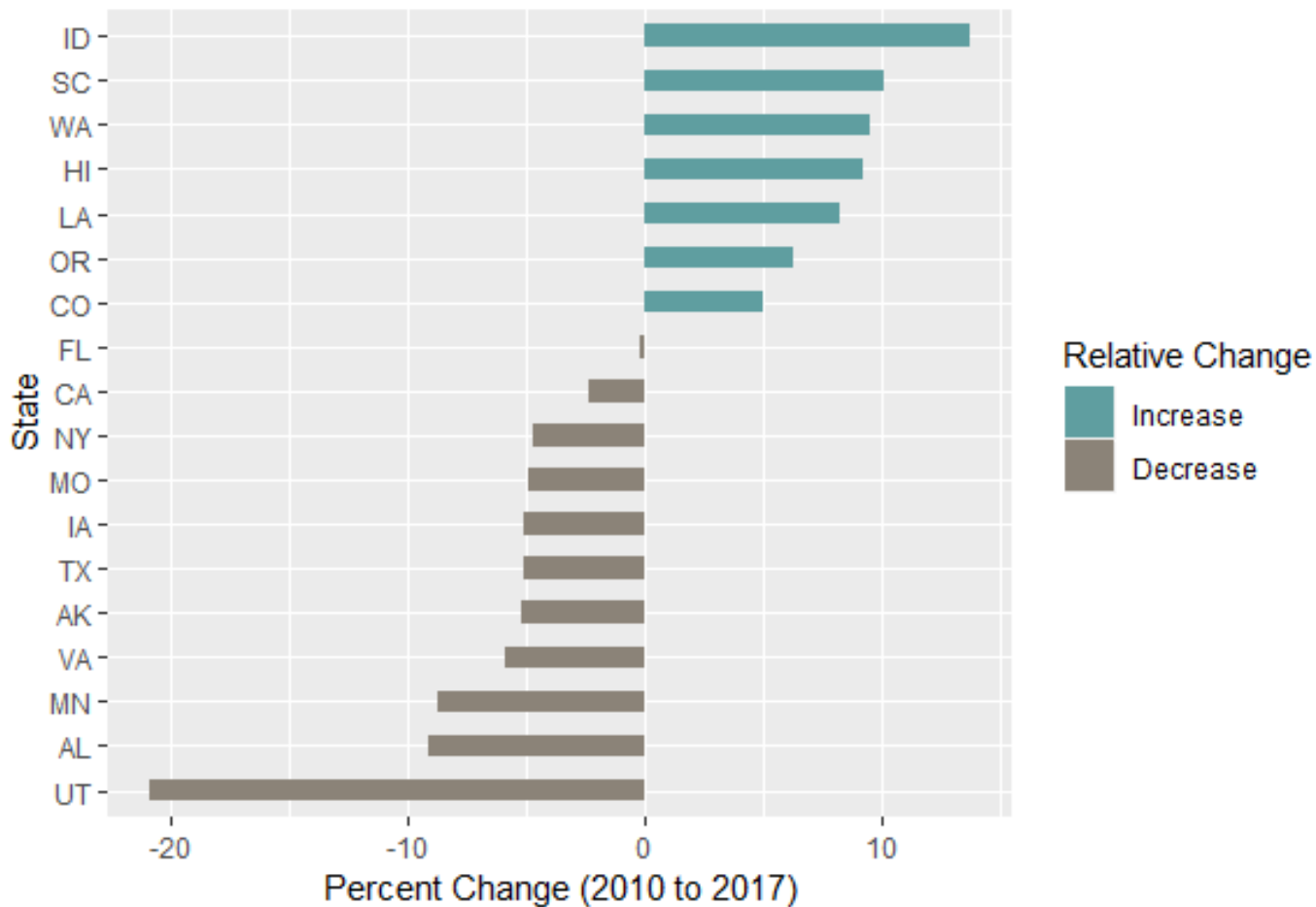
# Change in % Sheltered (2007 to 2017)



Source: HUD

## Chronically Homeless (% of total homeless)

(change from 2010 to 2017)



# How Can We Help

## Twitter and Salesforce CEOs bicker over who is helping the homeless more

'How much have you given' Marc Benioff asked Jack Dorsey as the two sparred over proposed tax to assist those on the streets



▲ Jack Dorsey, the CEO of Twitter and Square, said he opposes a proposed tax on San Francisco businesses, which

**The Guardian – October 2018**

# Next Steps

## Recorded Goals

- NY City adopts 'Turning the Tide' program
- 300,000 units of affordable housing by 2022

## Observational Inference

- Housing First model - Houston
- Reduction in Unsheltered homeless by 75%

## Observational Inference

- Homeless counts decline in Florida
- Reduction in chronically homelessness counts

## Field Experiment

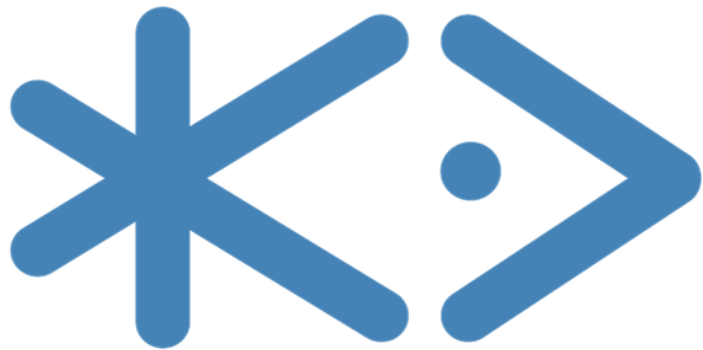
- Shelters vs. Affordable Housing
- Can we find which works better?

# References

- <https://www.hudexchange.info/resource/5639/2017-ahar-part-1-pit-estimates-of-homelessness-in-the-us/>
- <http://time.com/money/5177566/average-income-every-state-real-value/>
- <https://www.theguardian.com/us-news/2018/oct/12/jack-dorsey-marc-benioff-homelessness-twitter-san-francisco>
- <https://www.seattletimes.com/seattle-news/homeless/houstons-solution-to-the-homeless-crisis-housing-and-lots-of-it/>
- <http://www.cityoforlando.net/mayor/housing-first/>
- <https://www.npr.org/2015/12/10/459100751/utah-reduced-chronic-homelessness-by-91-percent-heres-how>
- <https://www.businessinsider.com/new-york-homeless-crisis-deblasio-solutions-2018-2>



# THANK YOU



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