

# EARL<sup>∞</sup> CONFERENCE 2018

EARL US Roadshow | November, 2018

VISUALIZING ... the EXTENT of HOMELESSNESS

#EARLHouston2018  
November 9, 2018

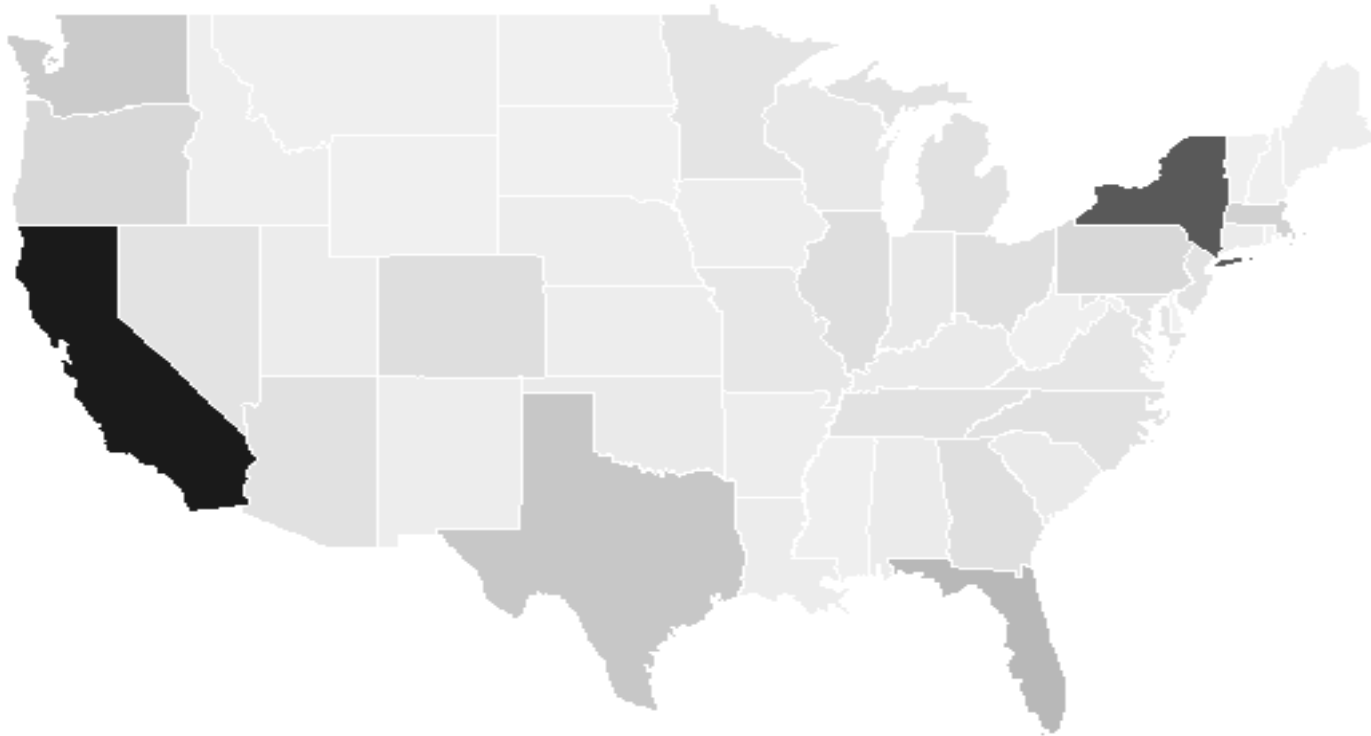
Sudha Subramanian  
\*> Sparkfish  
IGNITING INNOVATION

# Sad State Of Affairs



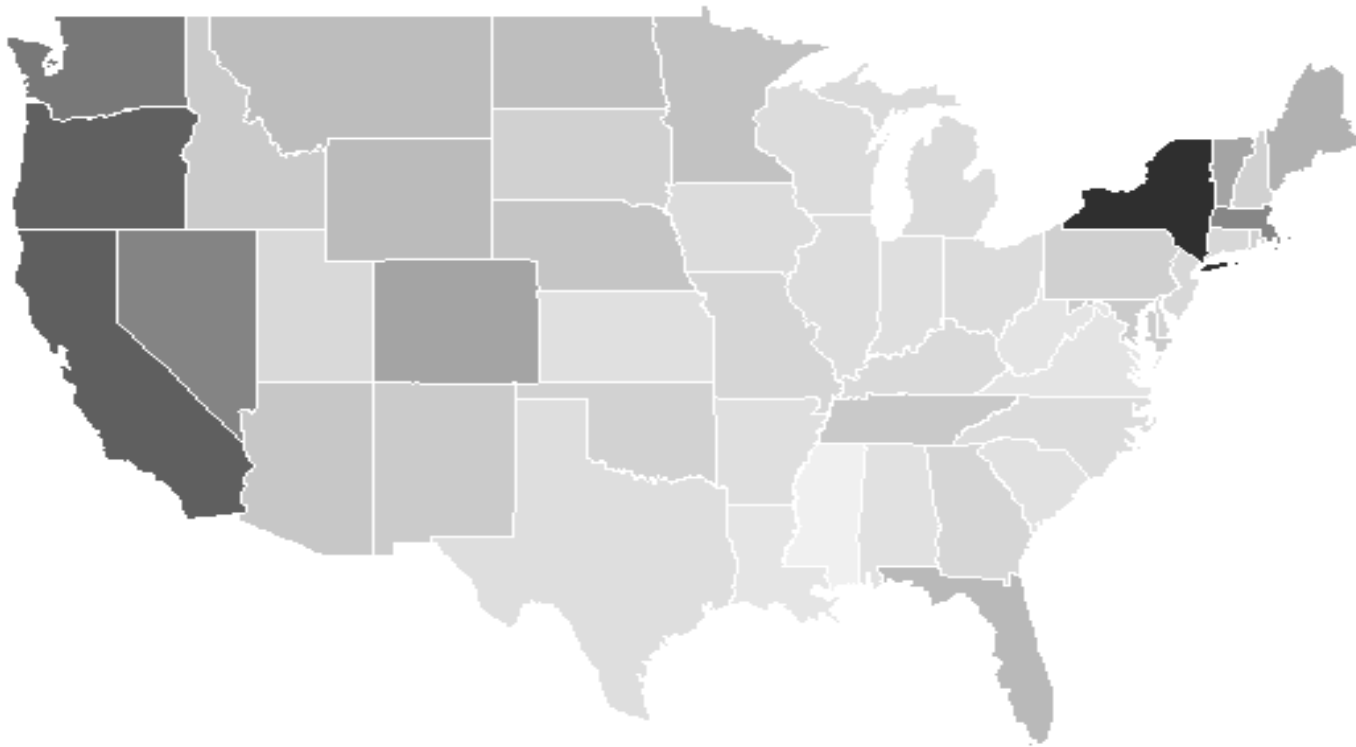
LA Times – March 2018

Year: 2017



# Homelessness (relative to population)

Year: 2017



# Housing First

## New York – strategies adopted

### Homeless Counts

- Largest homeless population (77,000)
- Exploded by over 100% since 1994

### Other Factors

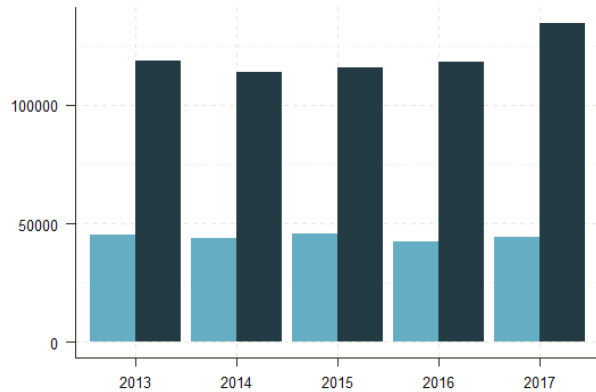
- Rents gone up around 19%
- Income gone down 6.3%

### Innovative Approach

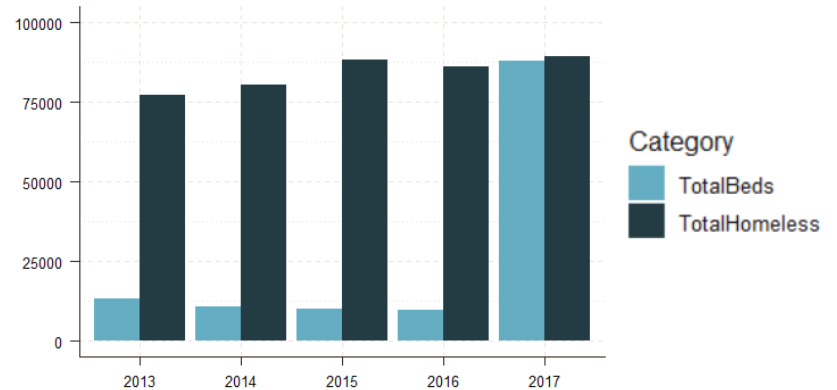
- Close down low-quality shelters
- Build new shelters + affordable housing units

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

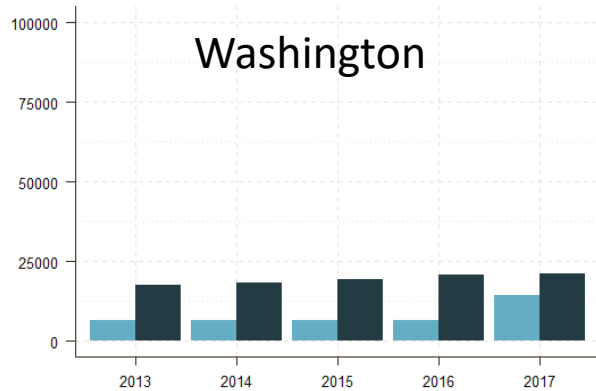
## California



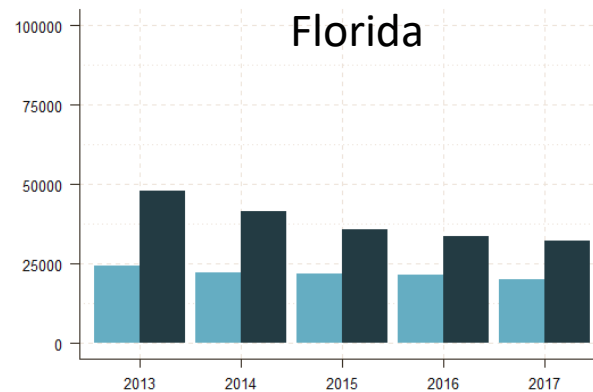
## New York



## Washington

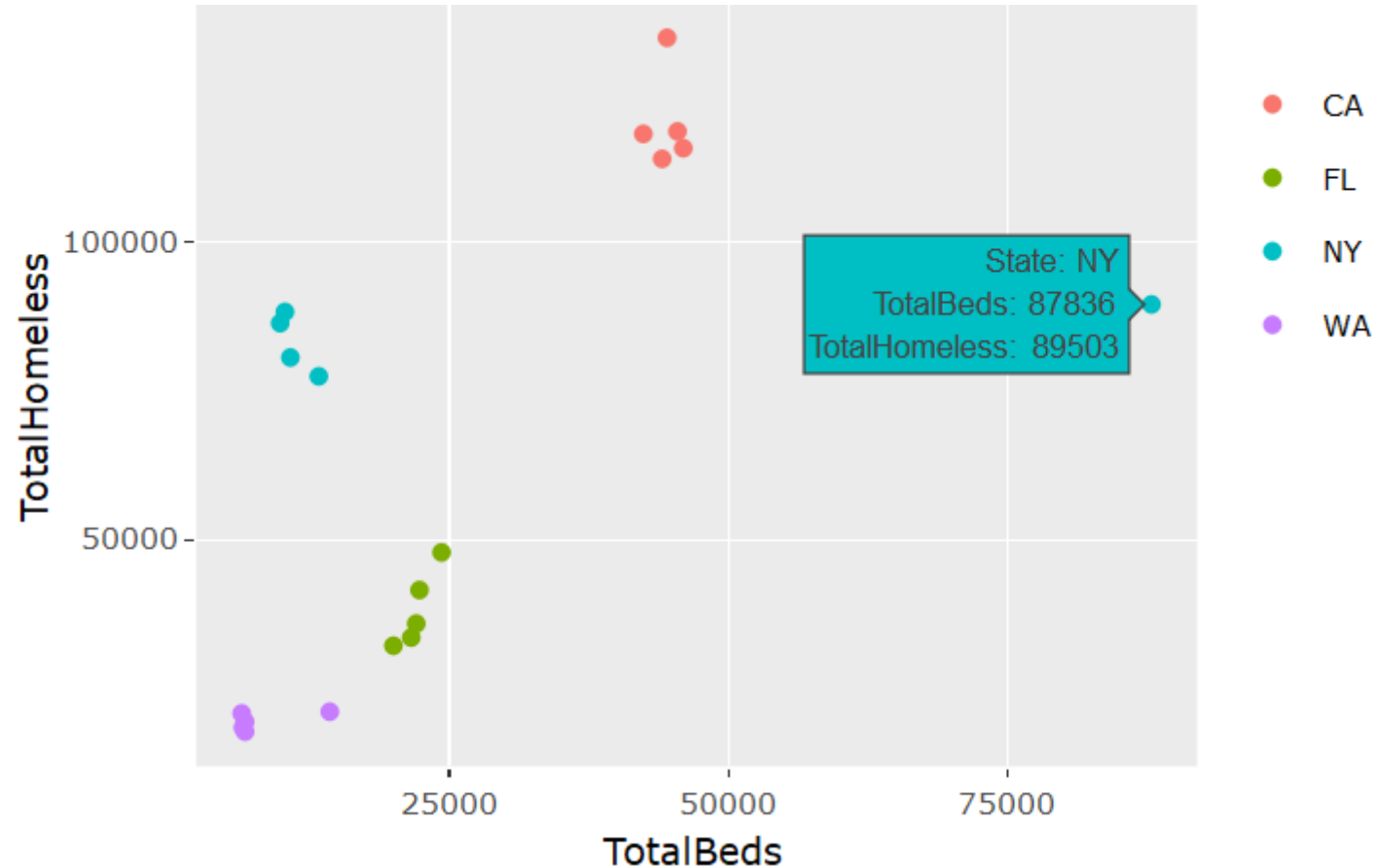


## Florida

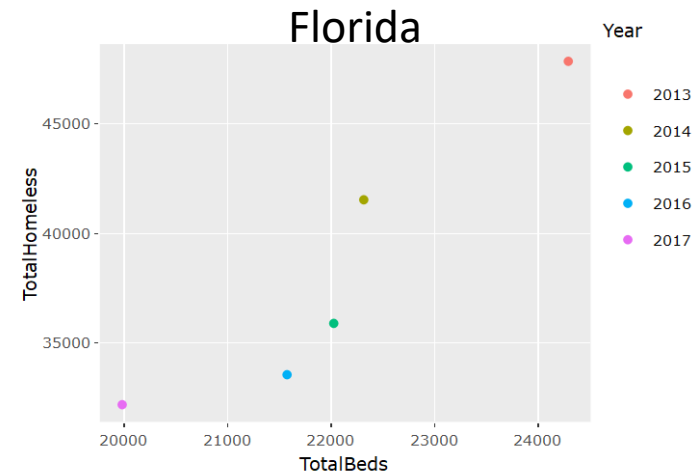
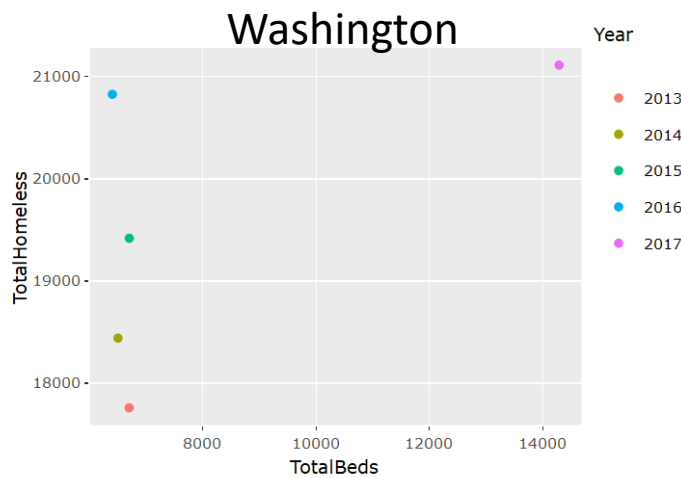
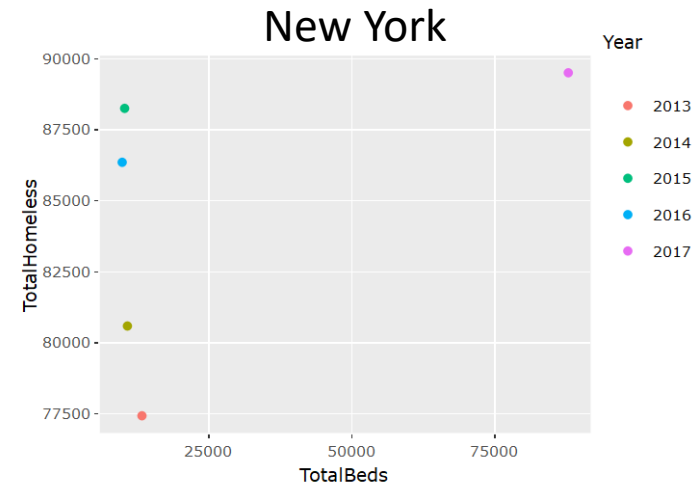
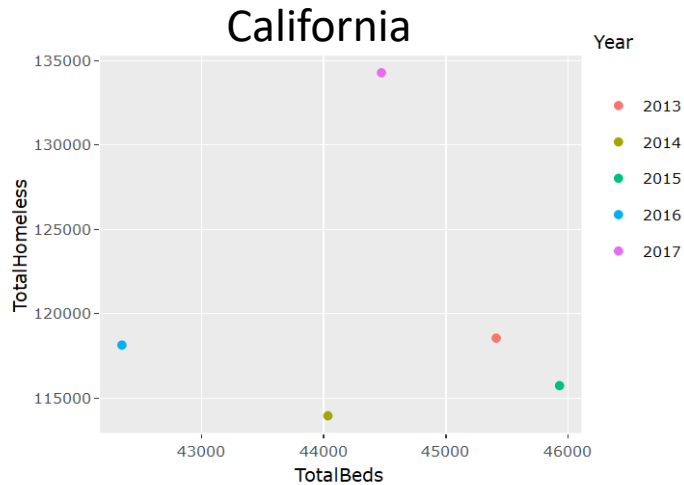


# Total Homeless vs. Bed Counts

(2013 to 2017)

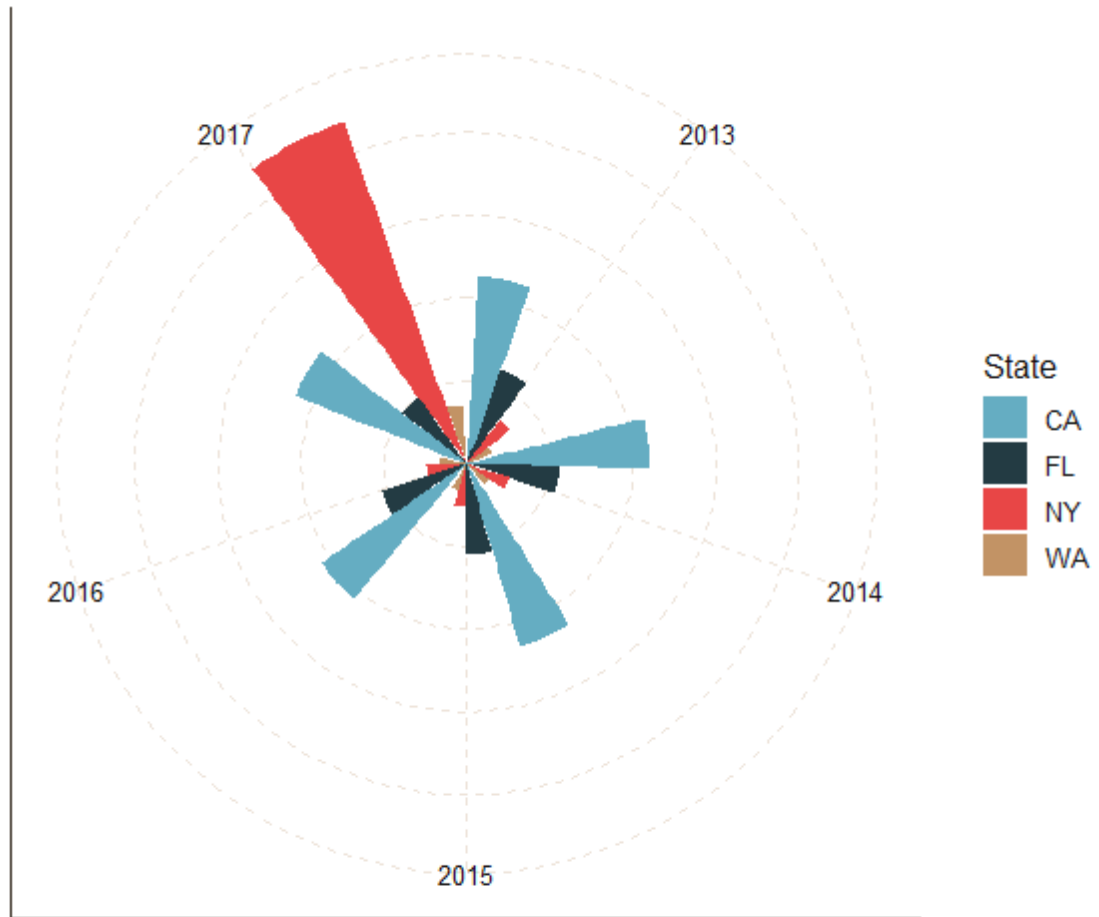


# Homeless vs. Bed Counts (2013 to 2016):

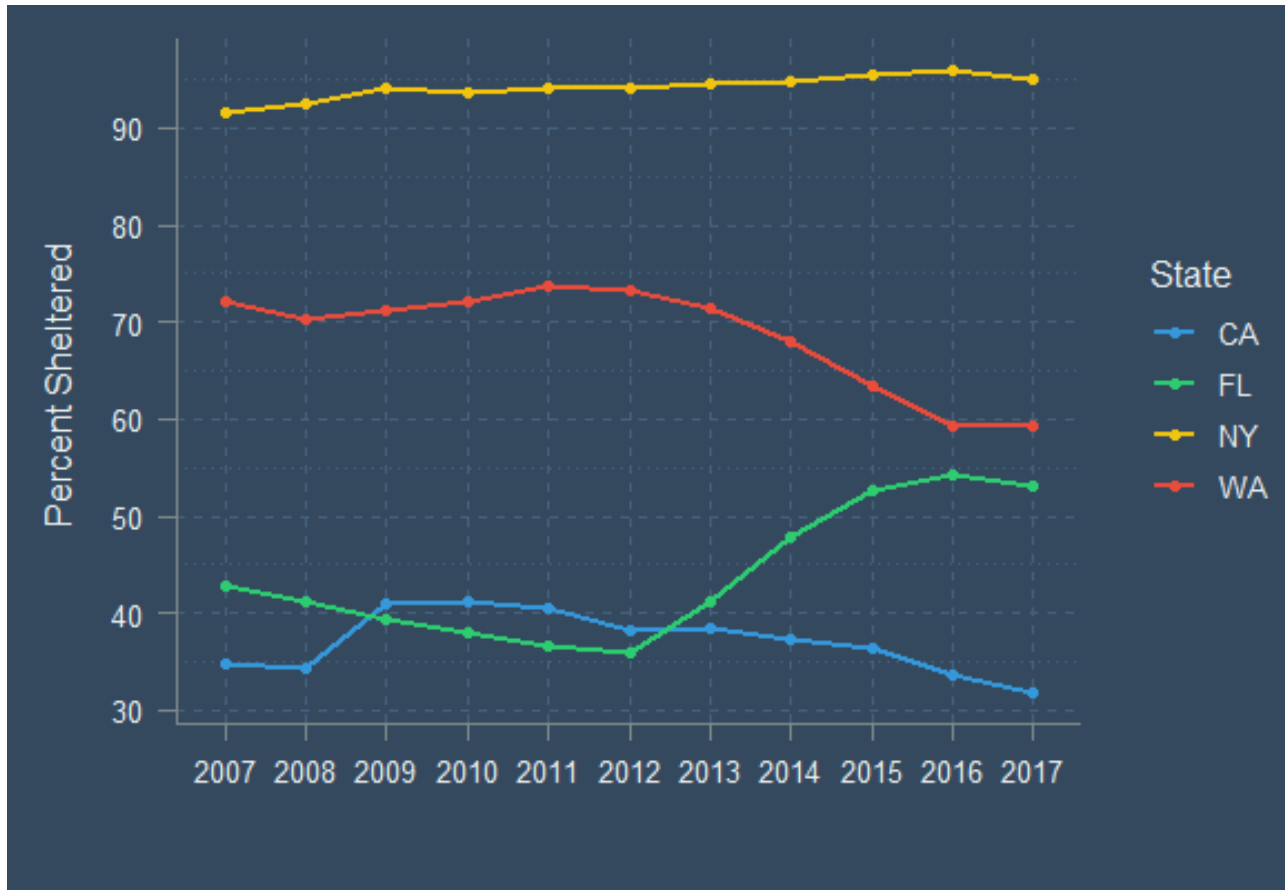




# Change in Bed Counts (2013 to 2017):



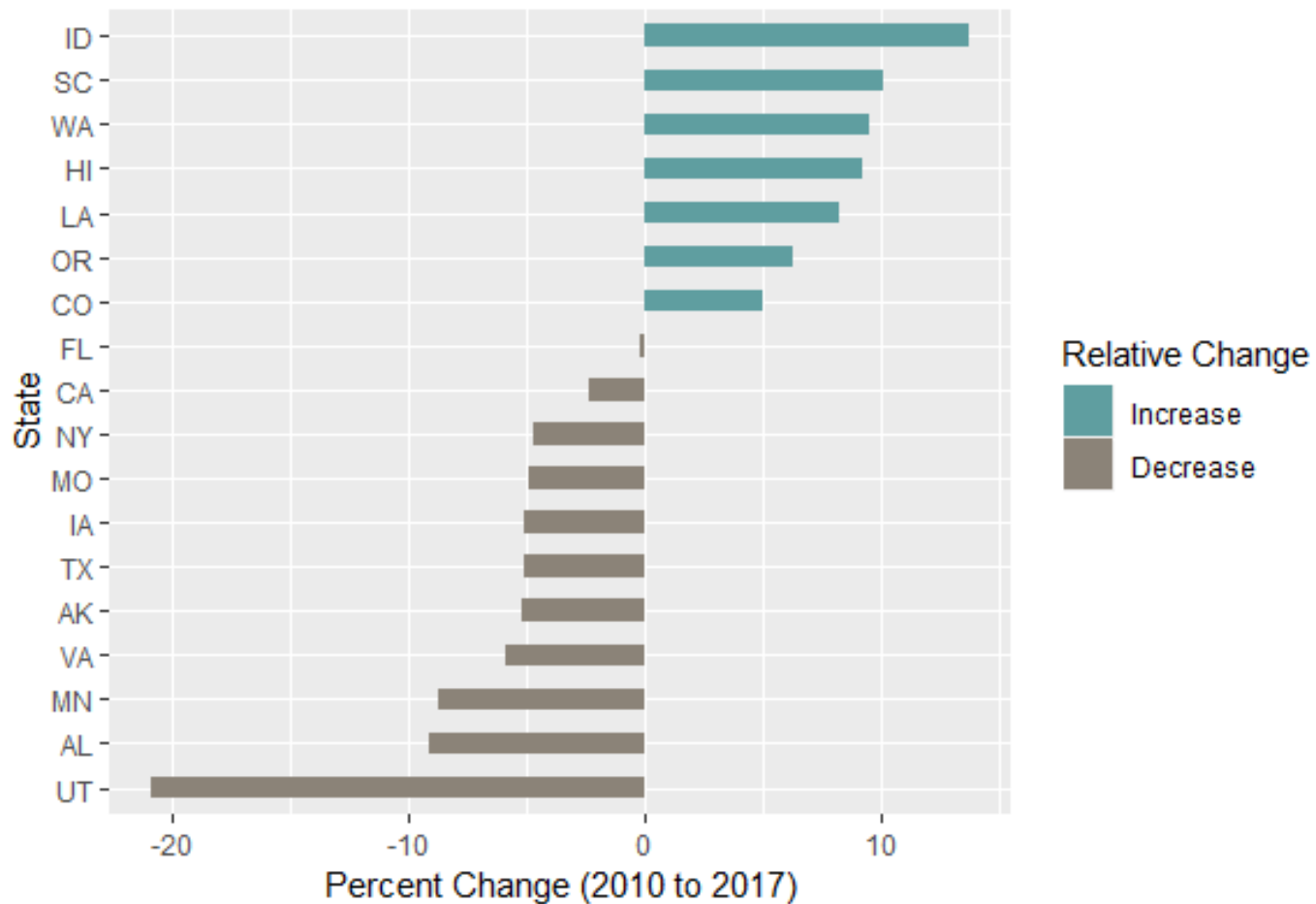
# Change in % Sheltered (2007 to 2017)



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

## Observational Inference

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

## Observational Inference

- UT – 1<sup>st</sup> to take Housing First model statewide
- 91% drop in Chronically homeless counts

## Field Experiment

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

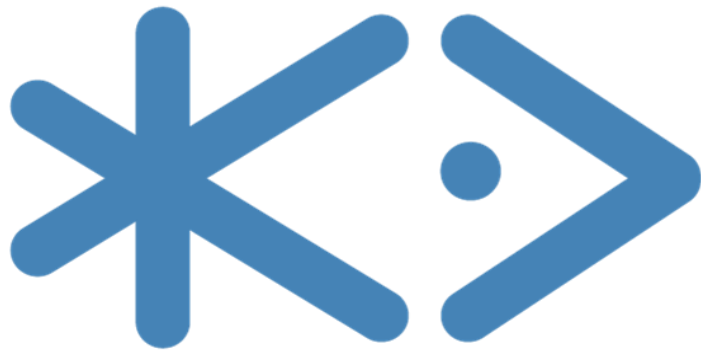
## Proposed Approach

- Perform a randomized experiment
- Validate our hypothesis

# 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.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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