# Homelessness Crisis in United States

By Stephen Blount



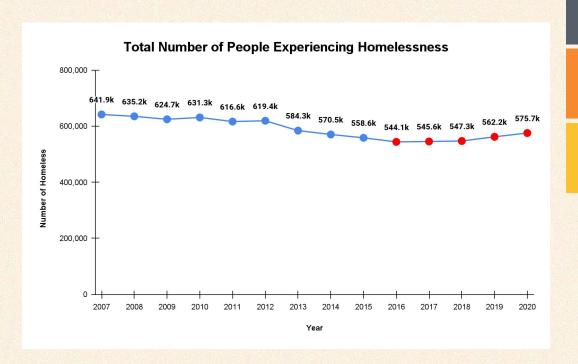


## 575,714

Individuals experiencing homelessness (2020)

## The Dilemma

- Homelessness has been on the rise since 2016
- 2020 saw a 2.4% increase in population size



## Challenges

- Homelessness is a complex socioeconomic problem
- Factors in one state do not necessarily contribute to factors in another
- Highly volatile



### GOAL

Forecast the population of homeless within each State in the U.S.

Increase effectiveness of planning & resource allocation

## **SOLUTION**

Construct a time-series predictive model

 U.S.Department of Housing and Urban Development



## **MEASURES OF SUCCESS**

#### Non-technical

 See a negative trend in true homelessness population

### **Technical**

High model accuracy

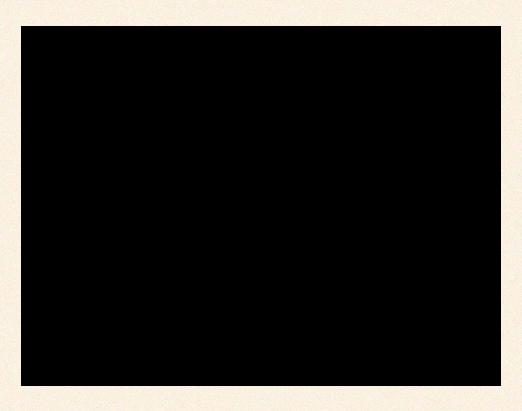
## **RISKS**

Low prediction of homelessness

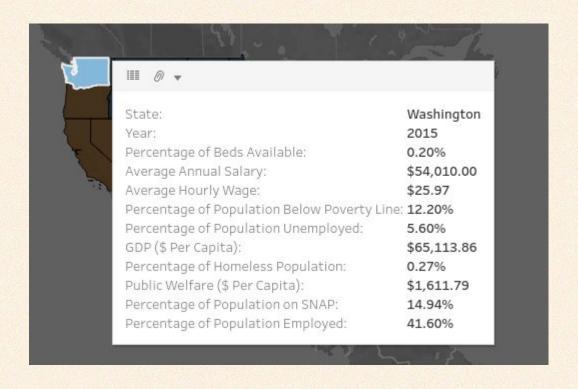
Reduce resource allocation prematurely



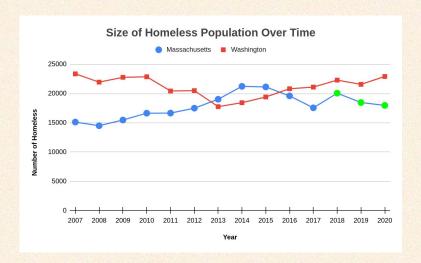
## Tableau Dashboard

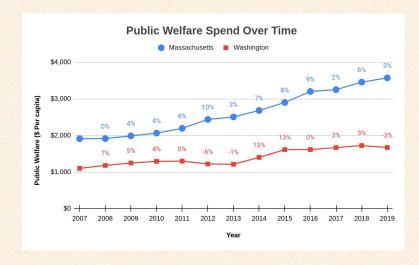


## Tableau Dashboard



## **Initial Results**

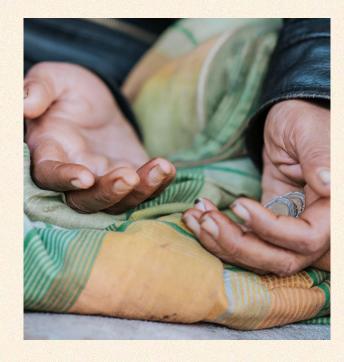




## **FUTURE WORK**

Collect homelessness population data on a monthly basis

Compile cost of living data associated with each state



# Thanks

Any questions?

#### Tableau Link:

https://10ay.online.tableau.com/t/stephenblount/views/HomelessnessAnalysis/Dashboard1/6e14483c-d66f-40b8-97dc-1ce2e4e47007/b71f12f0-affa-463b-8336-7919fb6be8aa?:display count=n&:showVizHome=n&:origin=viz share link

### **RESOURCES**

#### U.S. Bureau of Labor Statistics:

- https://www.bls.gov/oes/tables.htm
- U.S. Department of Housing and Urban Development:
- https://www.hudexchange.info/resource/6291/2020-ahar-part-1-pit-estimates-of-homelessness-in-the-us/Annual Unemployment Rate:
  - <a href="https://www.icip.iastate.edu/tables/employment/unemployment-states">https://www.icip.iastate.edu/tables/employment/unemployment-states</a>
  - https://beta.bls.gov/dataQuery/search

#### Census Data:

- https://www.hudexchange.info/resource/6291/2020-ahar-part-1-pit-estimates-of-homelessness-in-the-us/
- https://www.census.gov/data/tables/time-series/demo/popest/intercensal-2000-2010-state.html

#### Bureau of Economic Analysis:

https://apps.bea.gov/itable/iTable.cfm?ReqID=70&step=1

#### Tax Revenue:

- https://www.census.gov/programs-surveys/stc/data/datasets.html
- https://cfo.dc.gov/node/232092

#### Poverty Line Data:

https://www.census.gov/programs-surveys/saipe/data/datasets.2019.html

#### Public Welfare Spending:

• https://www.taxpolicycenter.org/statistics/state-and-local-general-expenditures-capita

#### SNAP Data:

https://www.fns.usda.gov/pd/supplemental-nutrition-assistance-program-snap