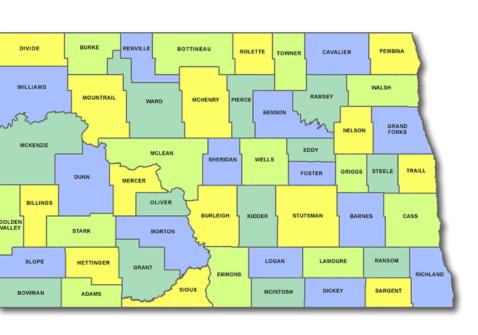
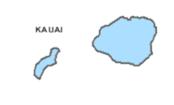




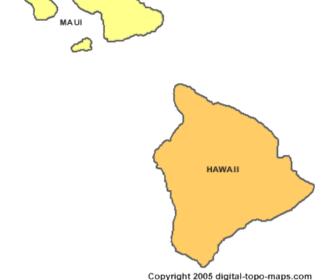
# STATES: HAWAII & NORTH DAKOTA







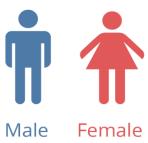
State of Hawaii & North Dakota Analyzed by Jaga Ramesh





### HAWAII: OVERVIEW

- > Electoral votes: 4
- > Culturally diverse with Asian (~40%), Multi race (~30%), White (~30%)
- > Counties: 4
- > Main source of income: Tourism
- > Lowest voter turnout in US: 39% of total Population





Male: 48-51%

Female: 49-52%









10-12%

32-39%

31-36%

18-23%



40-51%



2-3%



3-8%

White Hispanic

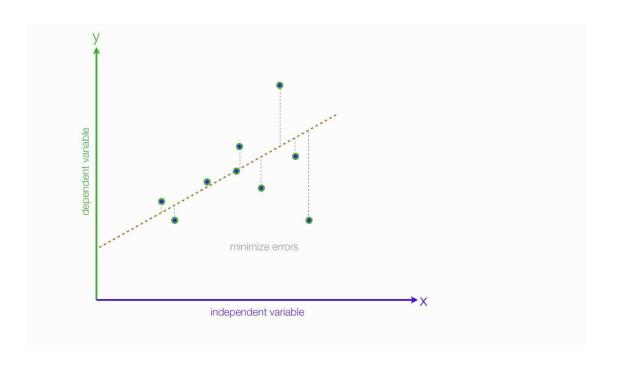
22-29%



### HAWAII: METHOD

- Hawaii favored Democrats in elections 2000 to 2016
- Voter turnout to determine Democrat Vs Republic votes
- Linear Regression Model
- > R Programming
- Box plot to display the range of Democrat
  / Republic / Other party votes with 95%
  confidence interval

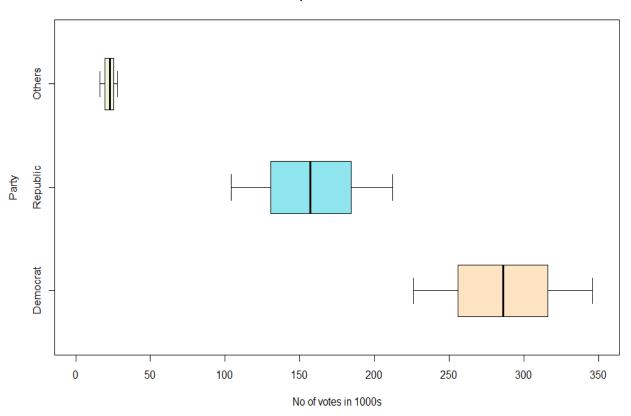






### HAWAII: FINDINGS

#### 2020 Hawaii Voter prediction with 95% confidence

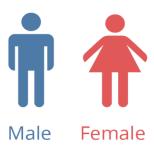


- > Statistical analysis : Republican Party loses in Hawaii in 2020
- Democrat: 285,936 votes (95% conf int : 226,287 and 345,586)
- > Republic: 156,643 votes (95% conf int: 103,857 and 211,574)
- > Others: 22,956 votes (95% conf int: 16,092 and 27,674)



### **NORTH DAKOTA: OVERVIEW**

- > Electoral votes: 3
- > White dominant population (~89%)
- > Counties: 53
- > Main industries: Agriculture, Oil
- Voter turnout : 61 65% of voting population





Female: 50-51%









13-17%

31-39%

30-37%

16-19%



0.5-1%





0.5-1% | 1-3%



White

89-95%

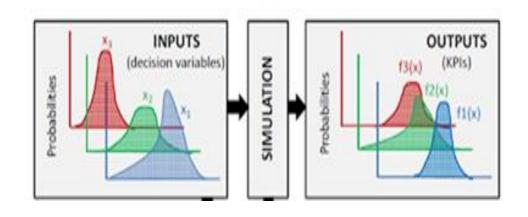


## NORTH DAKOTA: METHOD

- North Dakota favored Republicans in elections 2000 to 2016
- Historical Voter turnout %, Democrat vote%, Republic vote % to statistically predict 2020 votes
- Monte Carlo Analysis
- > R Programming
- Histogram to display the range of Democrat / Republic / Other party votes

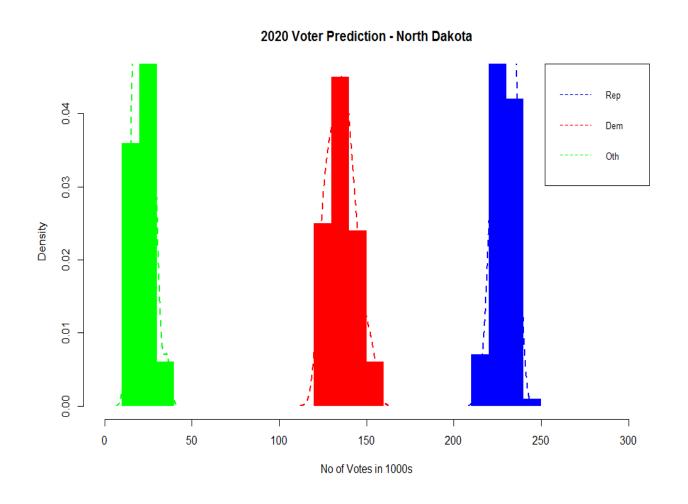


### Monte Carlo Analysis





### NORTH DAKOTA: FINDINGS



- > Statistical Finding: Republican Party wins in North Dakota in 2020
- > Republic: 227,200 votes (Range: 206,000 and 240,400)
- > Democrat: 135,900 votes (Range: 110,500 and 157,400)
- > Others: 22,560 votes (Range: 11,920 and 34,120)



