



INFO CHALLENGE 2023

TEAM IC23006

Members:

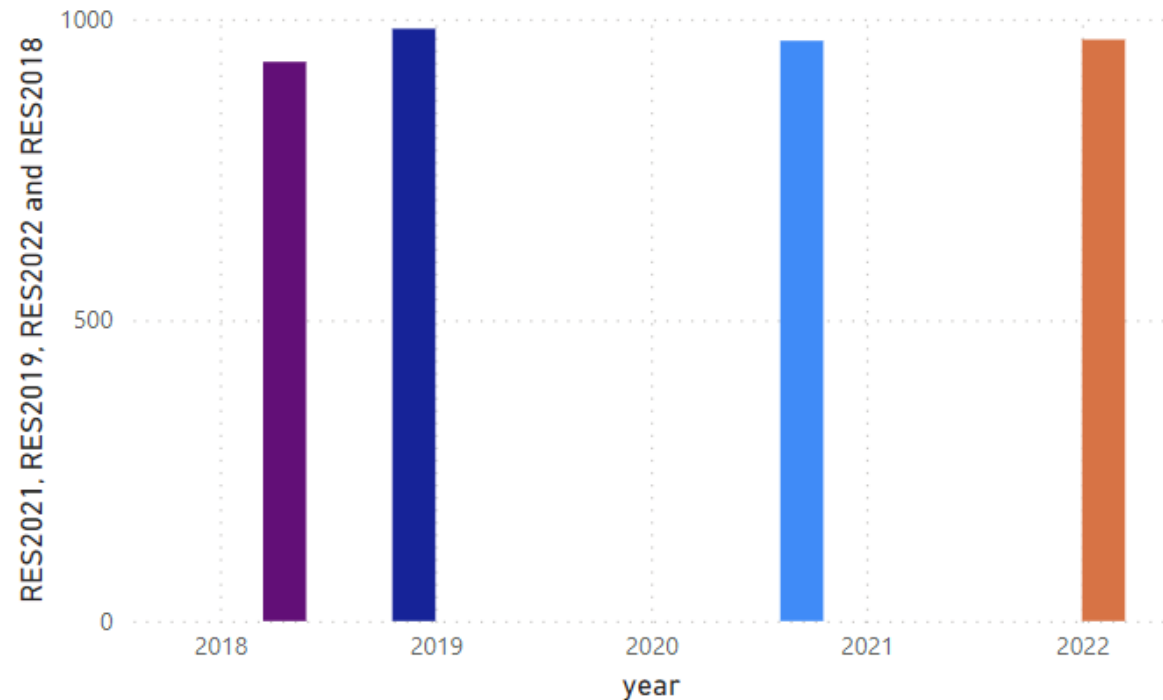
- Manas M Bhat
- Shantanu Parab
- Vineet Singh

ANALYZING THE DATASET

- The dataset is a collection of survey from KING County for the years 2018, 2019, 2021, 2022.
- The year wise distribution of data is shown

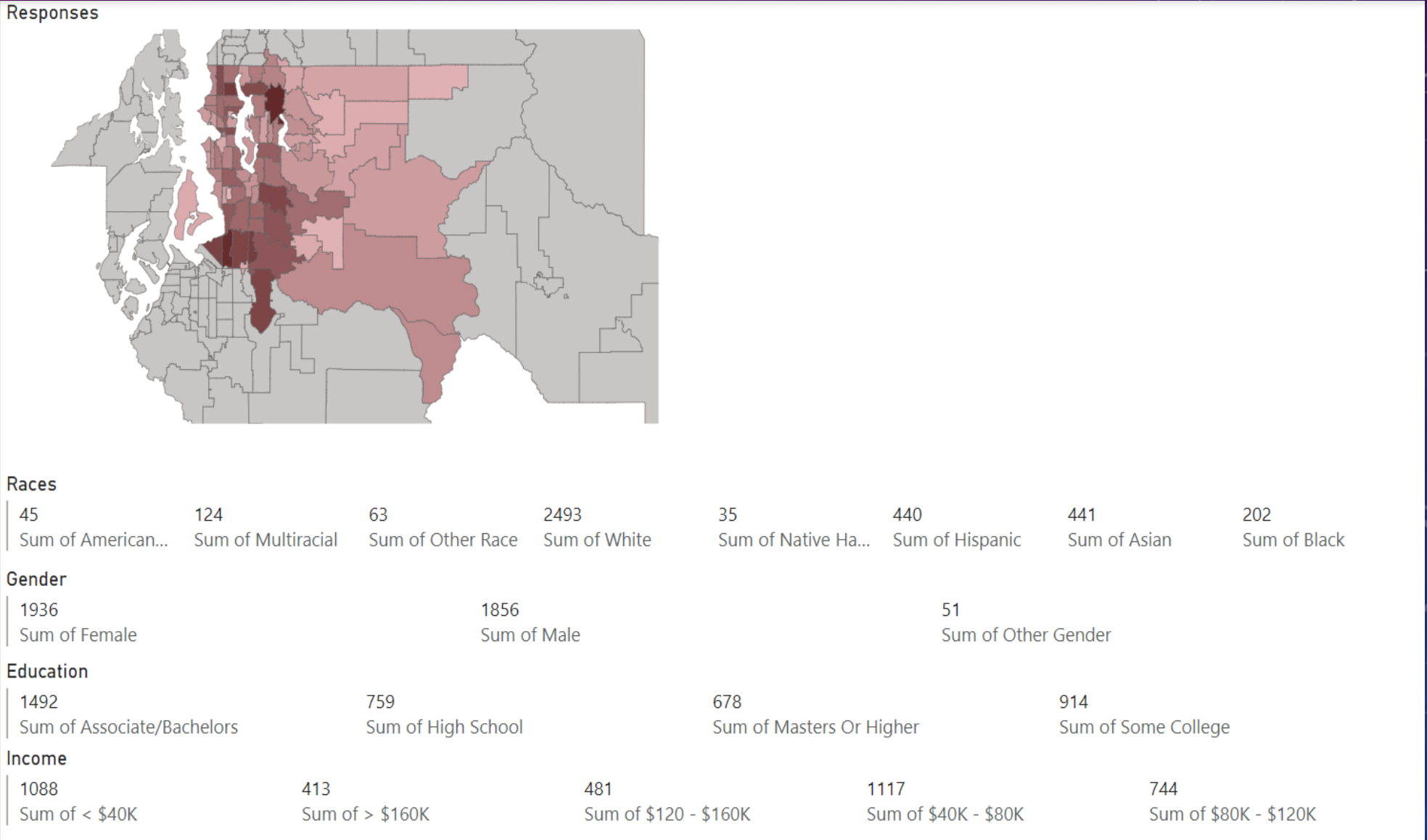
RES2021, RES2019, RES2022, RES2018, RES2019, RES2018 and RES2022 by year

RES2021 RES2019 RES2022 RES2018



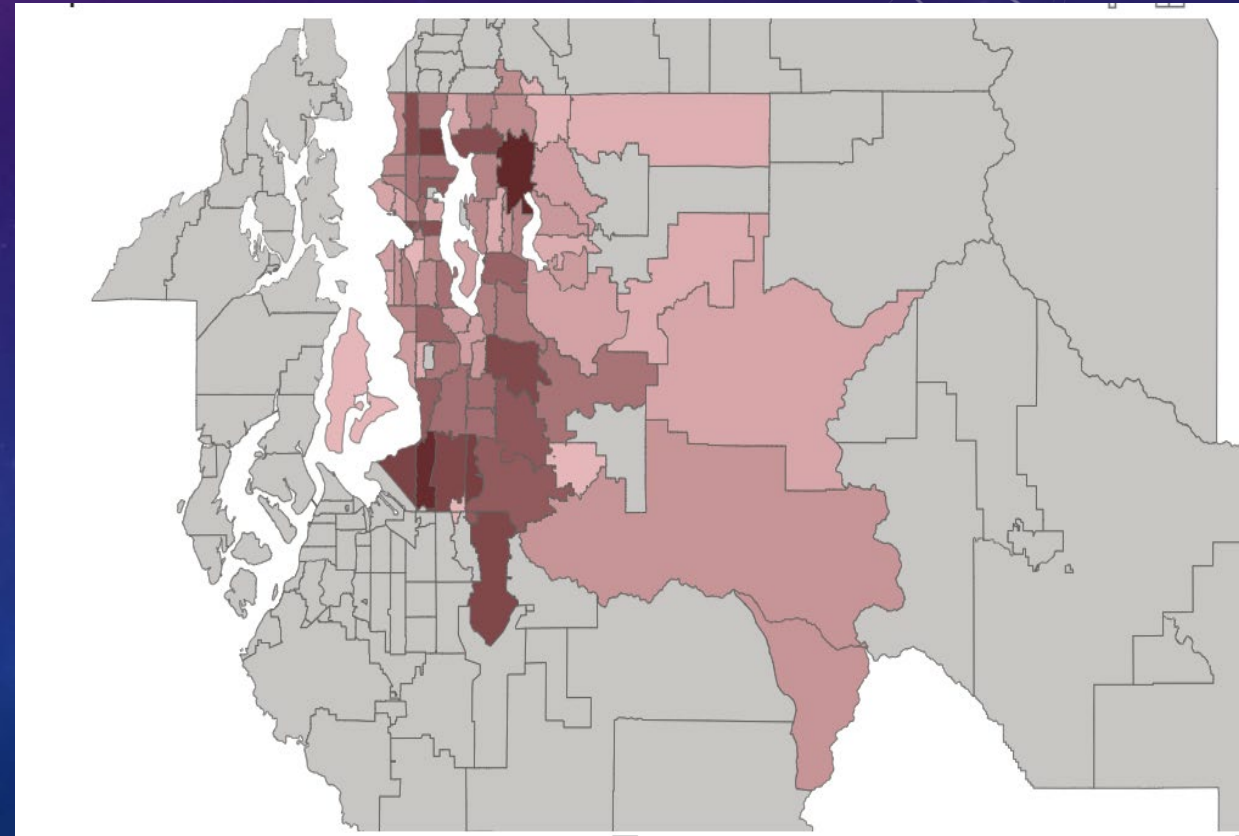
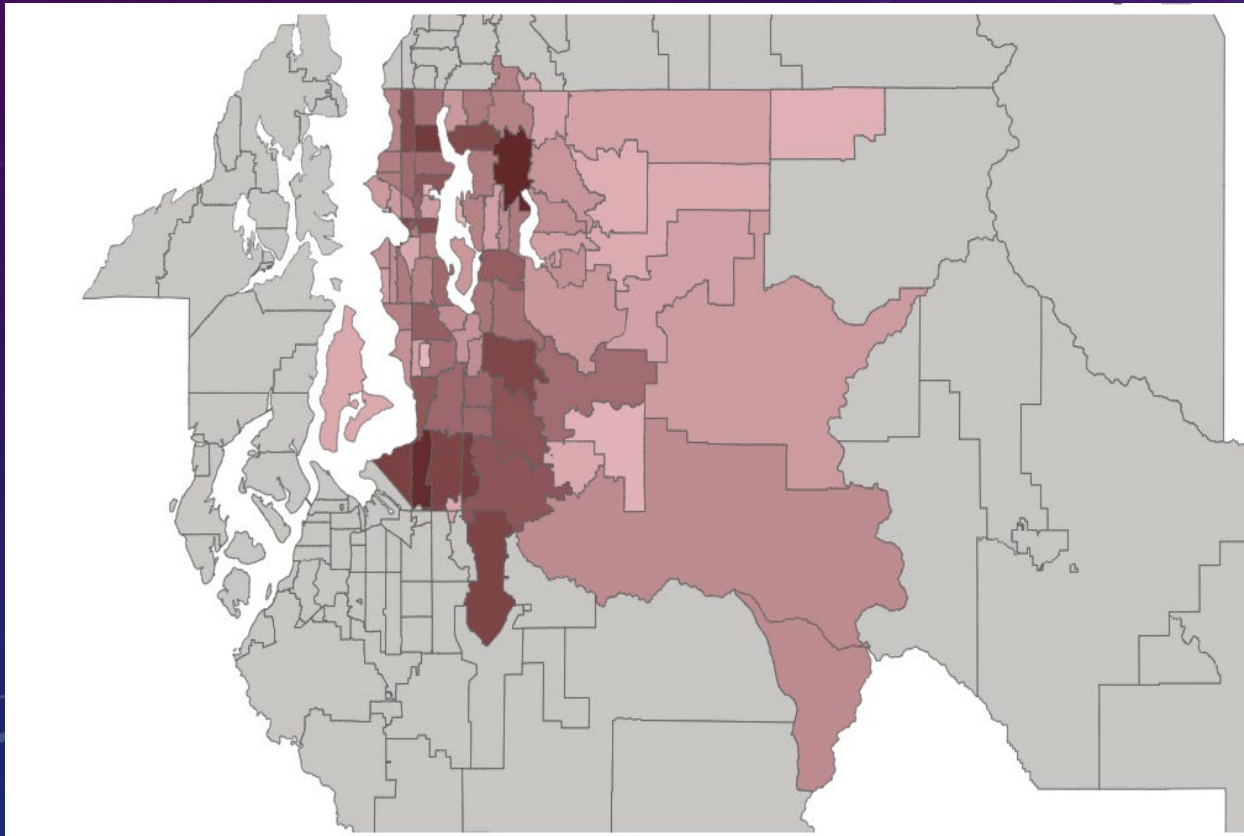
DIVERSITY OF DATA

- Segregation of data based on Gender, Ethnicity and Education.



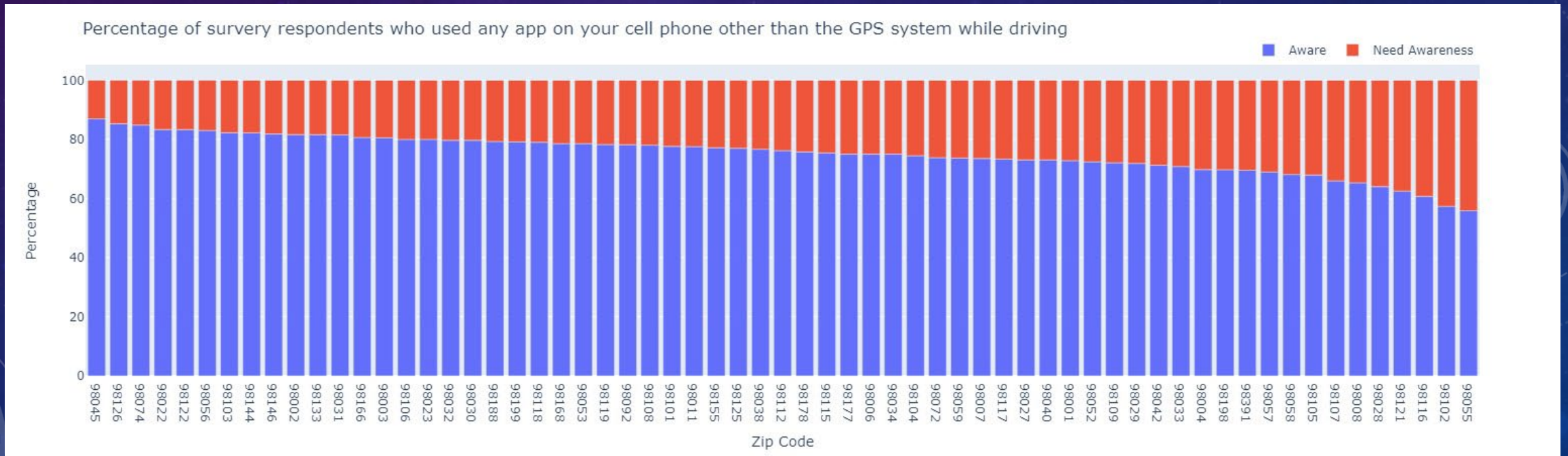
REMOVING OUTLIERS

- Minimum 10 participants to be present for the zip code to be considered for the analysis.

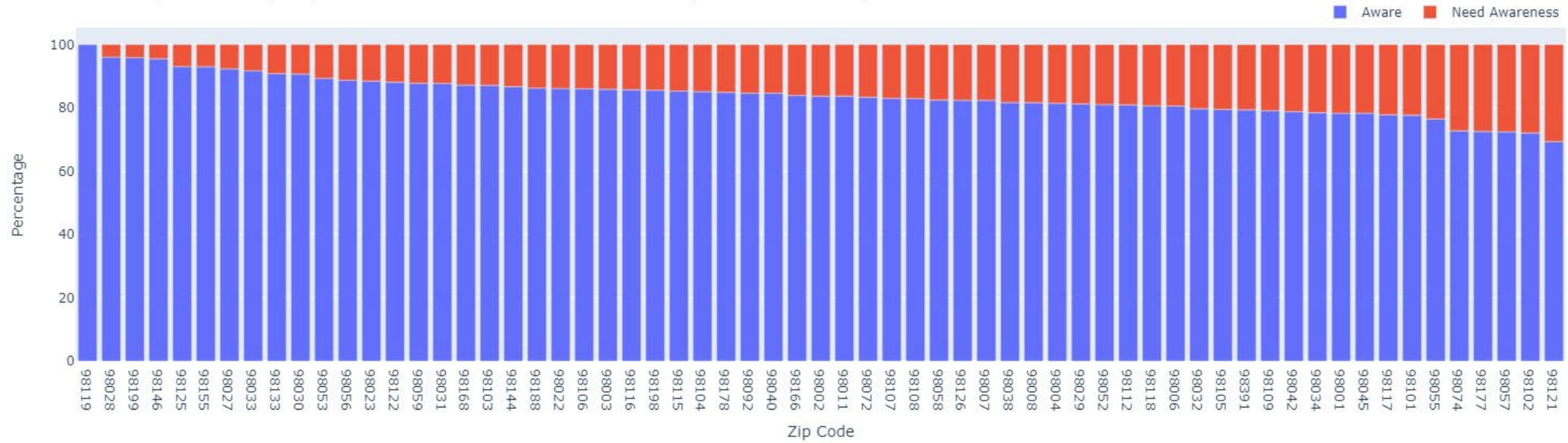


DANGEROUS BEHAVIOR ANALYSIS

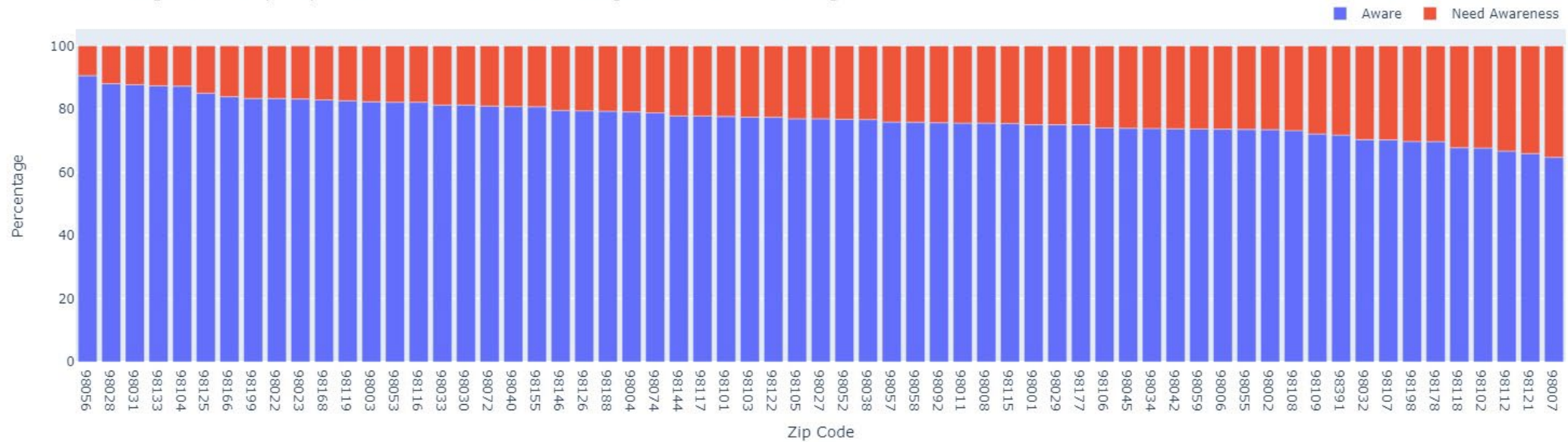
- Data is divided for 4 dangerous behaviors.
 - Typing while driving
 - Reading while driving
 - Talking on cellphone while driving
 - Using apps while driving (excluding GPS)



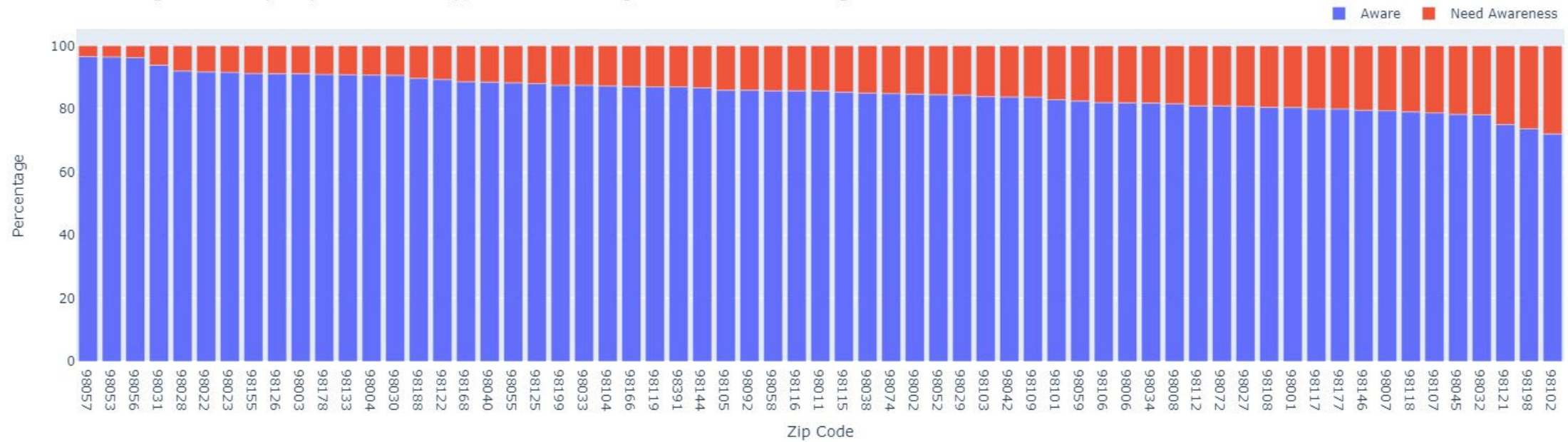
Percentage of survey respondents who talked on a hand-held cell phone while driving



Percentage of survey respondents who read a text message or email while driving



Percentage of survey respondents who typed a text message or email while driving

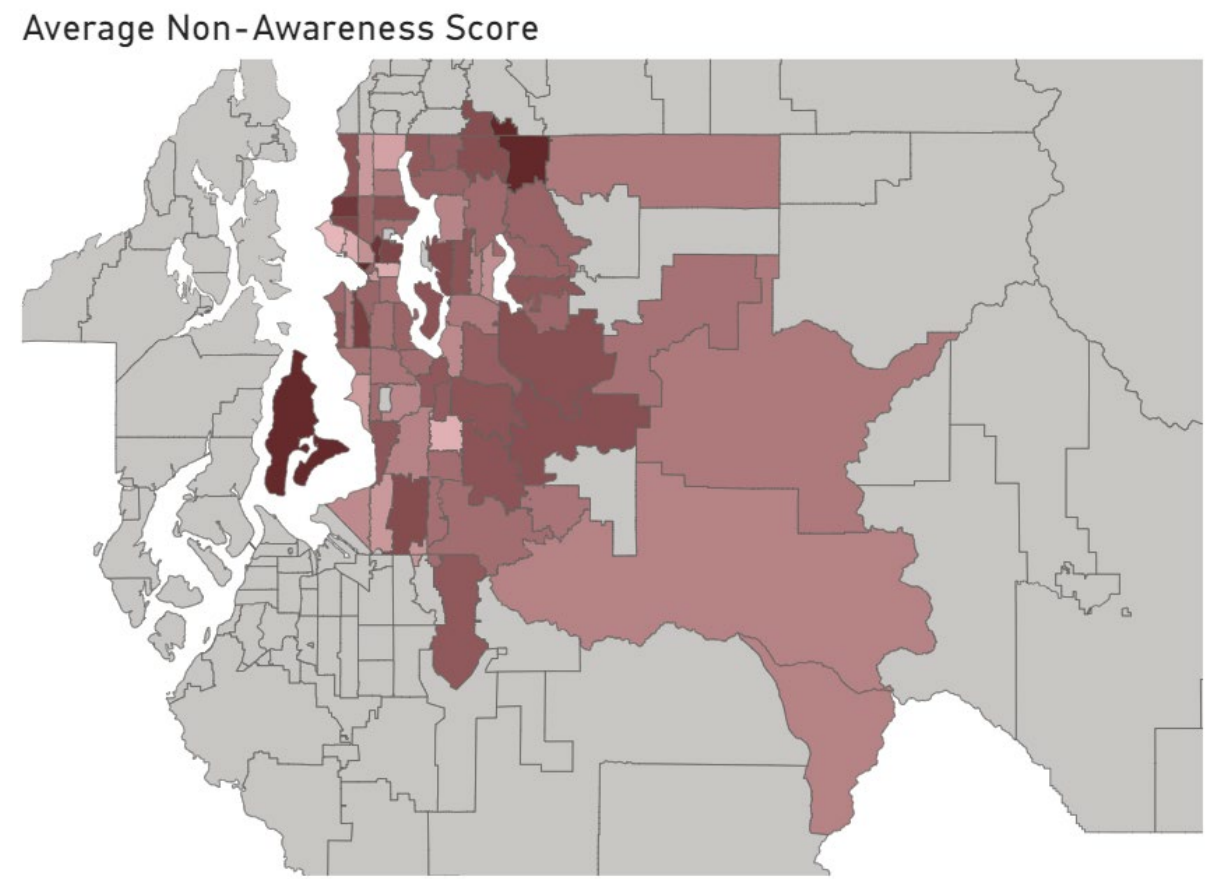
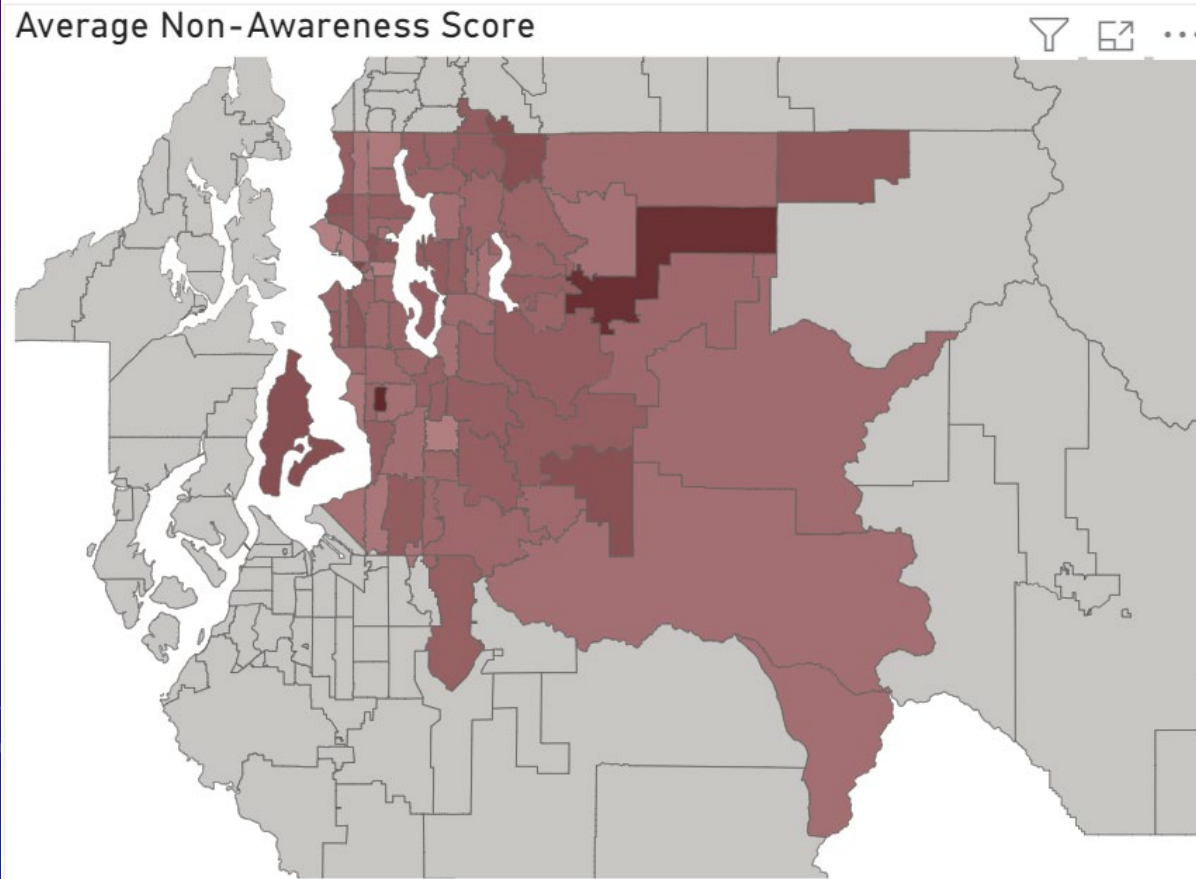


ASSIGNING A QUANTITATIVE SCORE

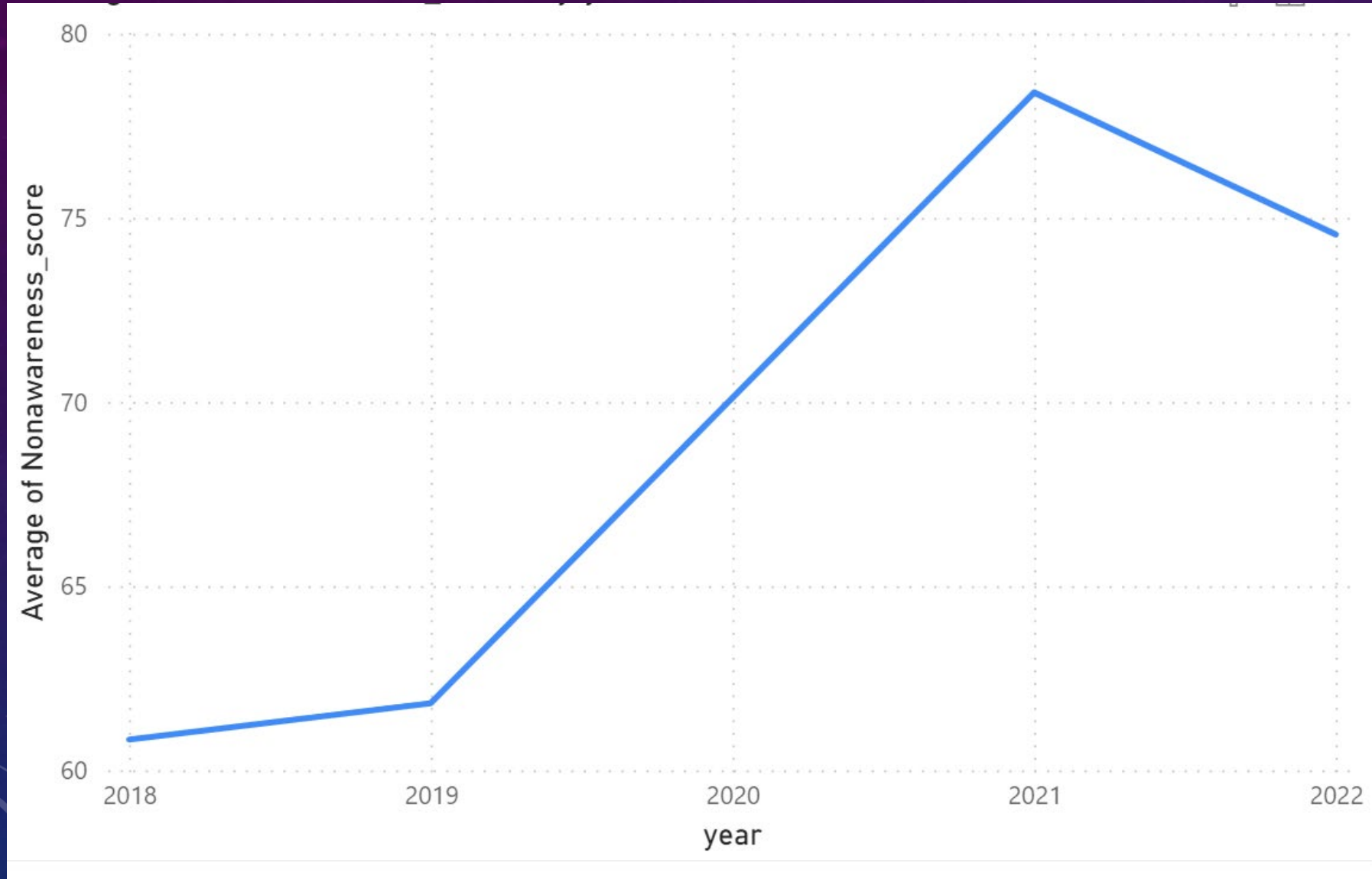
- We devised a scoring method based on severity of behaviors and opinions of individuals.
- Different weights are assigned for different parameters.
- **Nonawareness score** = Behavior score*2 + opinion on other driver's behavior *1 + how much of threat an activity is*1 + not knowing legal behavior*3 + How likely they are to commit illegal behavior*3 +Not a regular driver*0.5

RESULTS FOR QUANTITATIVE SCORE

- Need for awareness graph for each zip code as calculated from the Nonawareness score.

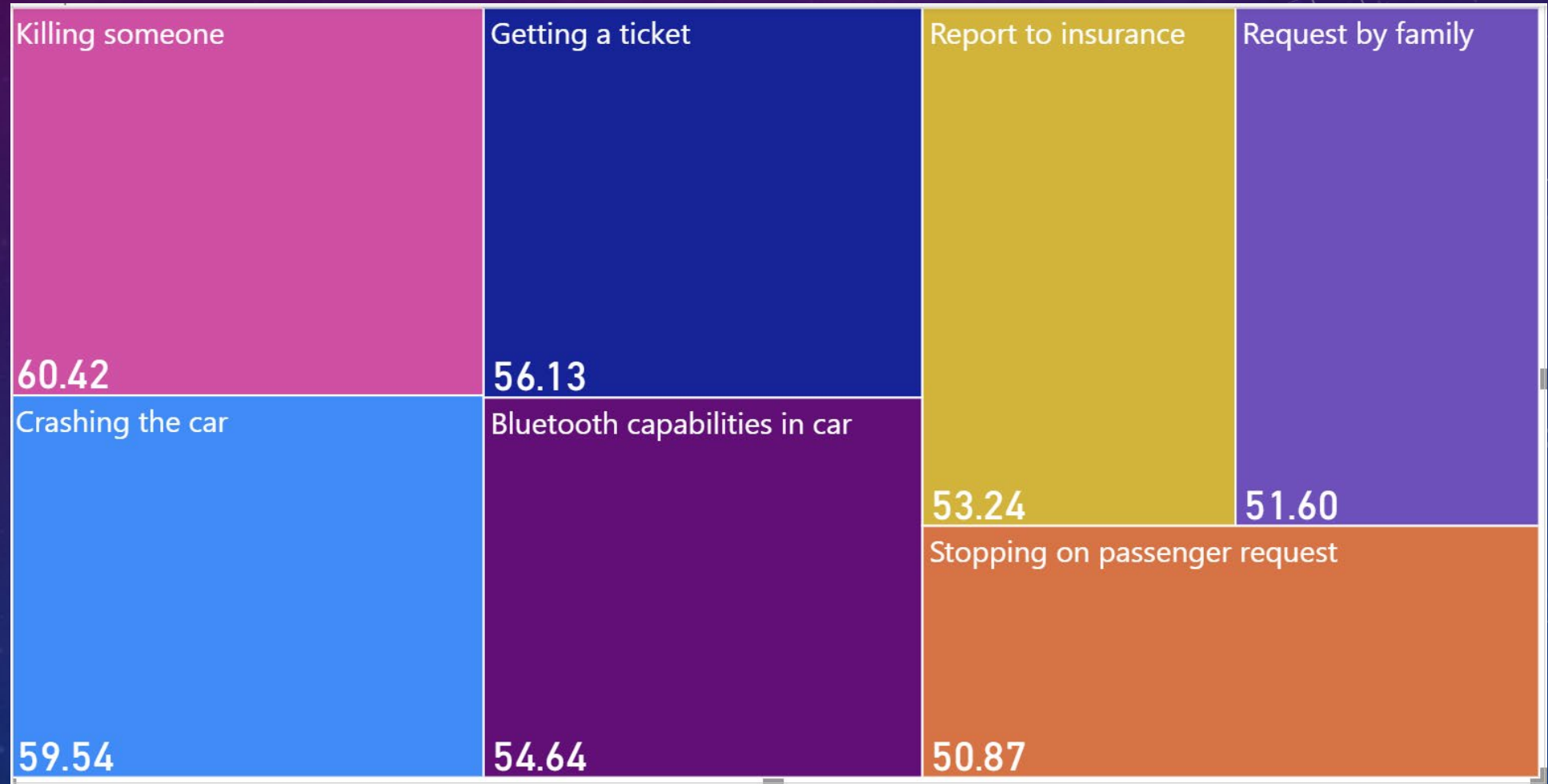


NON-AWARENESS CHANGING YEAR ON YEAR



SPREADING AWARENESS

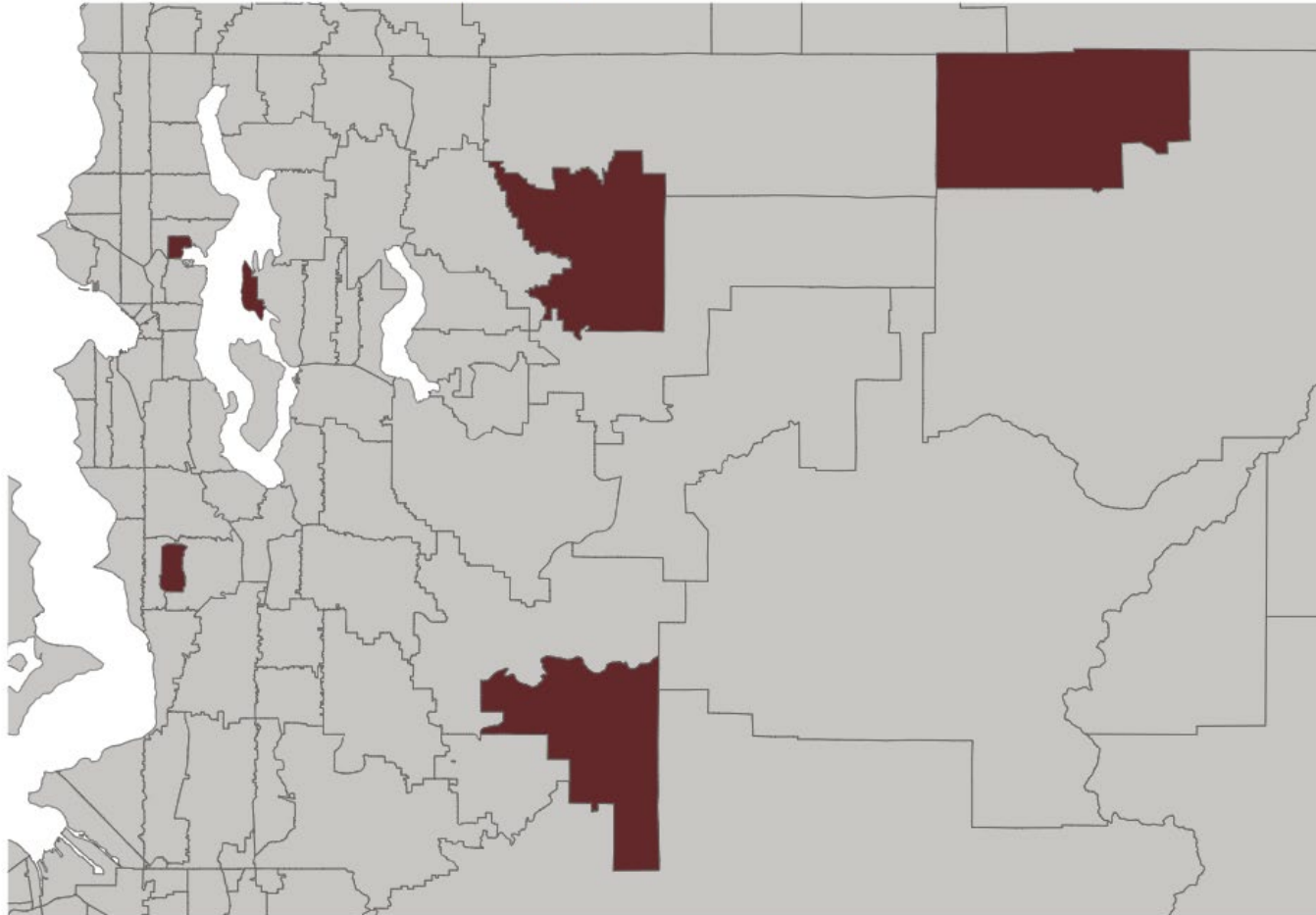
- Best ways of spreading awareness using most receptive methods as suggested by participants themselves.



NEED MORE SURVEY PARTICIPANTS

- Areas where participation was not sufficient needs more awareness.

Areas which need more participants





THANK YOU