**Project 1 – Group 4 - Project Overview**

*Barret Fudge, Ben Comfort, Charity Ovando, Michael Willis*

**QUESTIONS**

**For this project, our team will be analyzing data on electric vehicles owners in the state of Washington. The primary questions our analysis seeks to answer are:**

1. “How do income, age, or gender affect the likelihood of a consumer to own an EV, and does it affect the brand they will tend to purchase?”
2. “What is the ratio of BEV vs PHEV ownership? Does median income make an impact on which of these EV’s one is likely to buy?”
3. “Is there a strong correlation between the number of EV charging stations in an area, and EV ownership?”
4. “How does the population density of an area effect its EV ownership?”

**ANALYSIS**

**We will collect/analyze the following data**

1. Percentage of EV owners by:
2. Income
3. Gender
4. Age
5. Number of charging stations in county
6. Population density

* VISUALIZATION TYPE

1. Ratio of BEV vs PHEV ownership by:
2. Overall
3. Income
4. Number of charging stations in county

* VISUALIZATION TYPE

1. Percentage of each Make, Make and Model, and Type of EV owned by:
2. Income
3. Gender
4. Age

* VISUALIZATION TYPE

1. Summary statistics across total and groups

* VISUALIZATION TYPE

**Datasets:**

[**https://www.kaggle.com/datasets/utkarshx27/electric-vehicle-population-data?resource=download**](https://www.kaggle.com/datasets/utkarshx27/electric-vehicle-population-data?resource=download)

[**https://www.census.gov/data/developers.html**](https://www.census.gov/data/developers.html)