Statement of Purpose

Since 1995, the initial recorded year, there has been a surge in the construction of electric vehicle charging stations in every state of the United States, with California boasting the highest number. This map showcases a visualization of the distribution of electric vehicle (EV) direct current (DC) fast charging stations built in each state over time, which represents one of the most advanced and fastest charging ports available.

Statement of Purpose

The electric vehicle market is segmented into four distinct categories: cars, buses, vans, and trucks. China experienced a substantial surge in the stock of electric vehicles from 2019 to 2021, with cars being the primary contributor to this growth. The purpose of this visualization is to illustrate the dominance of cars in this expansion.

Note

1. Data comes from International Energy Agency (IEA). The tidy format of data imported in Tableau has been processed in R, with the R code below.

```
1  library(readr)
2  library(tidyverse)
3  library(writexl)
4
5  # data wrangling
6
7  temp_2 <-
8    read_csv('data_own/IEA-EV-data.csv') %>%
9    filter(region %in% c('China')) %>%
10   filter(year %in% c(2019, 2021)) %>%
11   filter(parameter == 'EV stock',
12          category == 'Historical') %>%
13   select(mode, year, value)
14
15 # export the data, and use it in Tableau
16
17 write_xlsx(temp_2, 'data_own/assigment6_chinaEV_19to21.xlsx')
18
```

2. My Tableau software appears to be unable to export a PDF file, which makes it impossible for me to refine the generated image using Adobe Illustrator. When I attempted to select the "Print" option, I received a message stating that no printer is installed. Thus, I am unable to select the option to print to PDF.

The category of "cars" has shown the most rapid growth in the stock of electric vehicles in China

A comparison of China's electric vehicle inventory across categories in 2019 and 2022
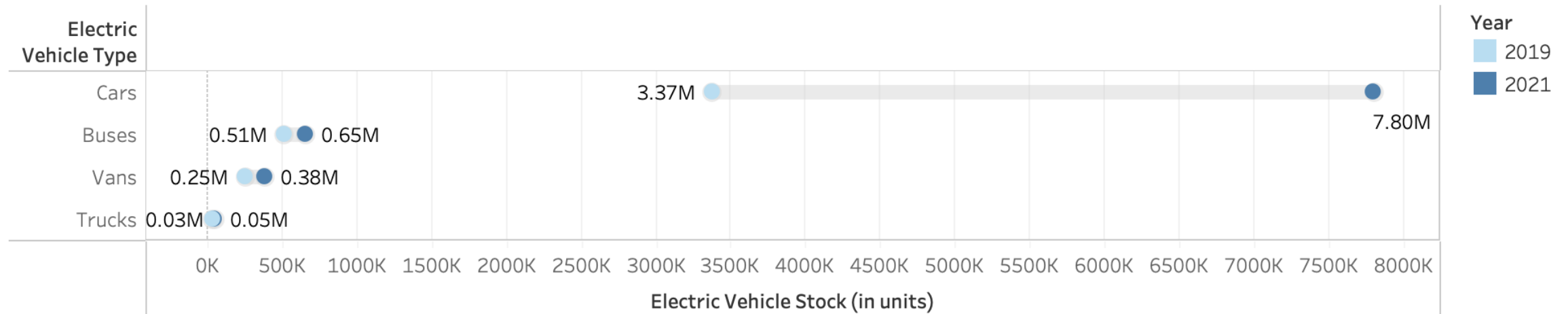
Electric Vehicle Type	Electric Vehicle Stock (in units)

The electric vehicle market is segmented into four distinct categories: cars, buses, vans, and trucks. China witnessed a considerable upsurge in the stock of electric vehicles from 2019 to 2021, with cars accounting for the majority of this growth.

Data Source: International Energy Agency, Global EV Outlook 2022