UMD Data Challenge- Team 36- E-Scooter

Participants:

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Background

- Carbon-based emissions have a stronghold on modes of transportation and environment more than ever before. To fulfill the need for a green and sustainable solution for transportation, e-scooters were introduced.
- E-scooters have introduced a new method of transportation for students and residents across the campus.
- The rise of E-scooters showed significant reduction in noise and air pollution as they reduce carbon emissions drastically.
- Every kind of transport comes with an element of risk but E-scooters are considered to be much safer option.

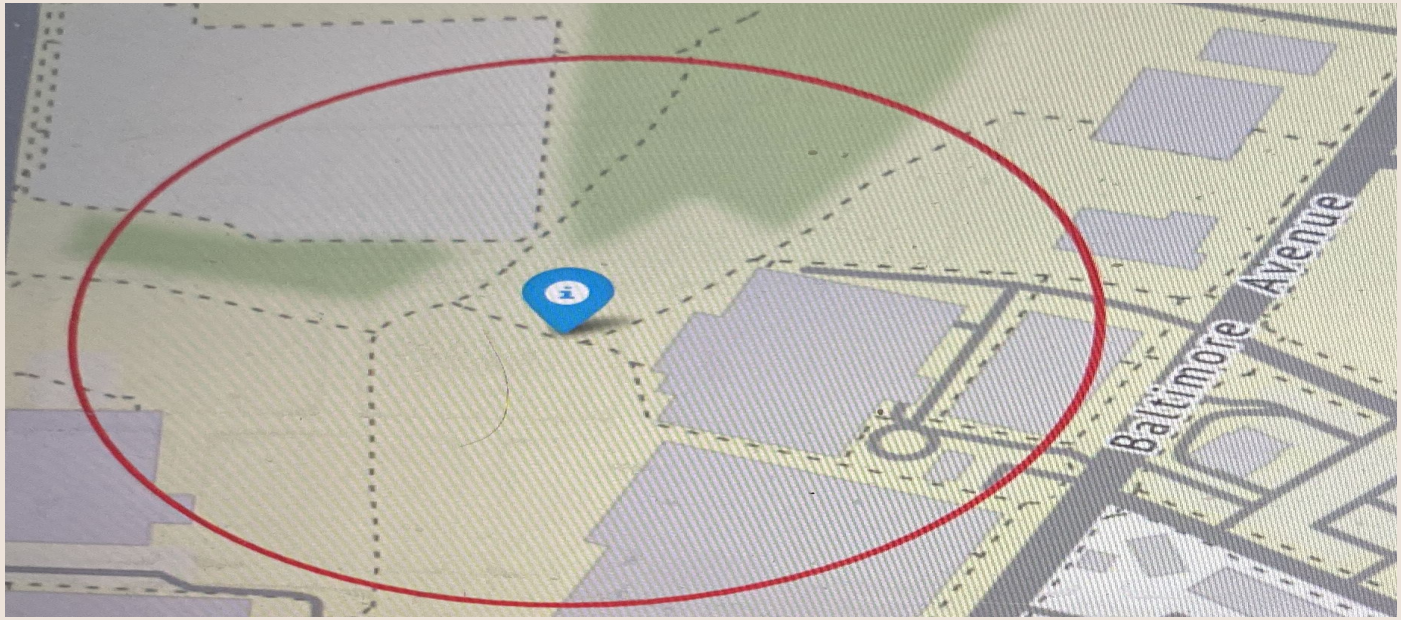
Analysis of Oct 2020 data

- In the month of Oct 2020 there were approximately 2k rides.
- The average distance travelled was 22.42555
- Most popular end/start locations

(Elkton hall 38.992447-76.949093)
As shown in the picture

Analysis of Oct 2020 data

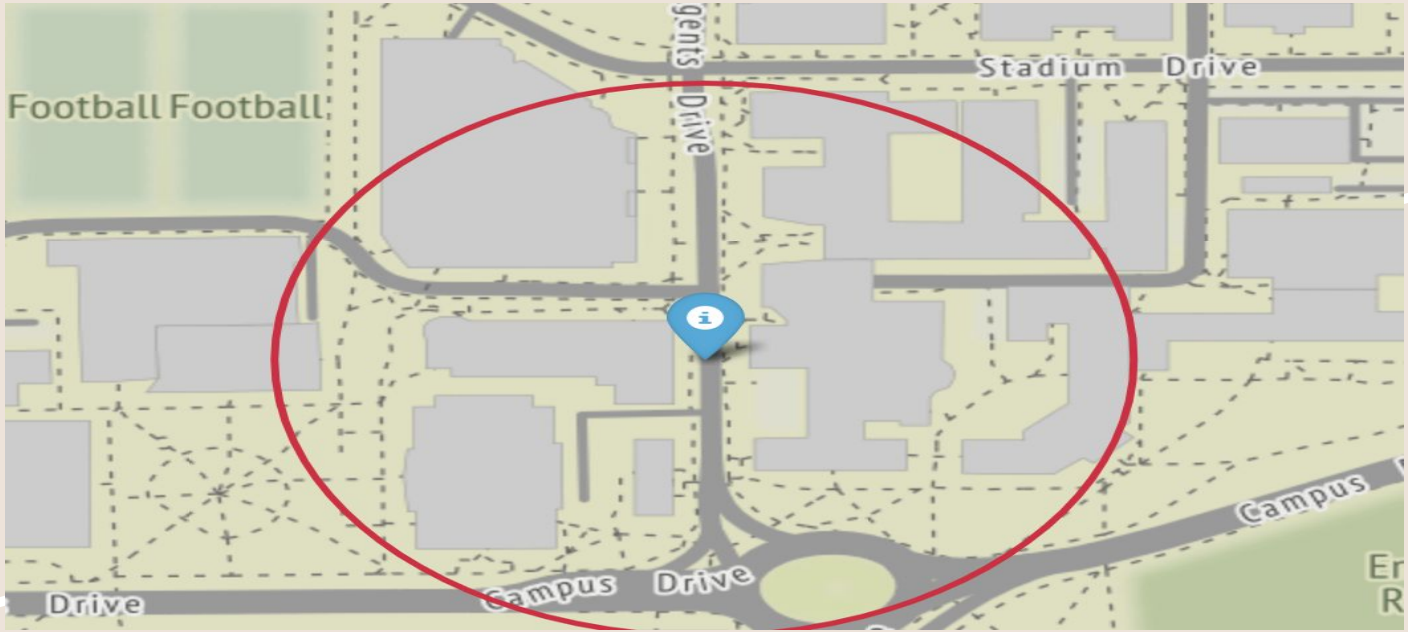
- Most popular end/start locations



University View 38.992699 -76.935208

Analysis of Oct 2020 data

- Most Popular end/start locations

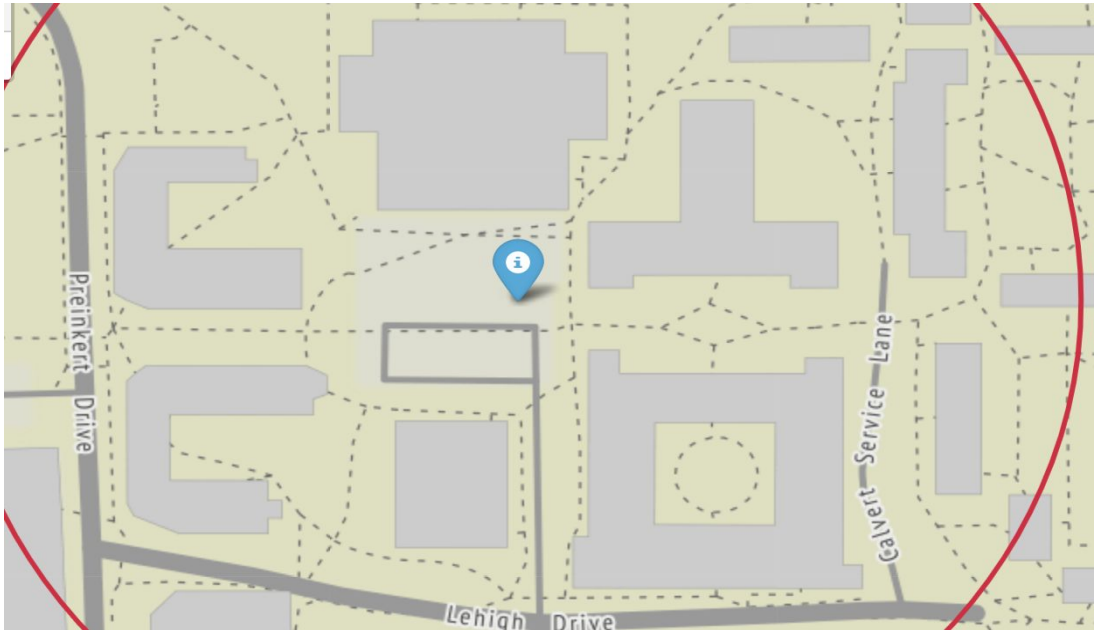


UMD Physics/Plant Science/Entomology labs (Regents Dr) 38.988723 -76.940666

Analysis Of Oct 2019 data

- In Oct 2019 average distance traveled was **3.667393**
- Most common starting point

(South Campus Commons
38.982561 -76.943550)

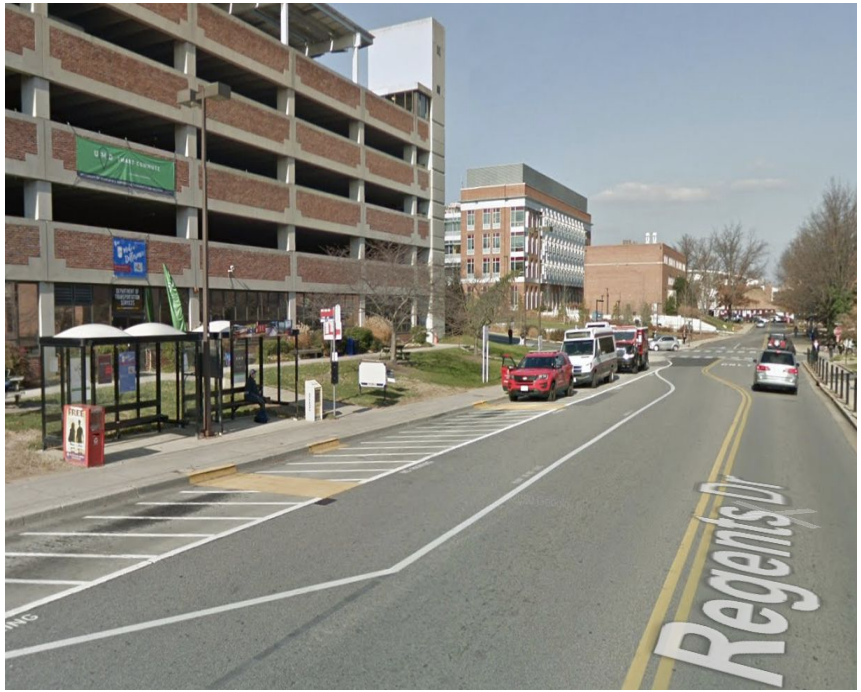


Analysis of Oct 2019 data

- Most Common starting point

Bus stop at Regents Dr nearby Chemistry building

38.979034 -76.939941



Conclusions

Make E-Scooters more affordable

Have a designated spot

Implement more areas where E-Scooters are available (outside of residential areas)

Comparative Analysis

- **In 2019, the E-Scooters were newly introduced to the campus and it can be seen being reflected in the data with the calculation of the average distance in Oct 2019 vs. Oct 2020.**

- **Since the Covid-19 pandemic started, higher number of people chose to ride E-scooters as it was the safer option vs. riding a bus which has more people.**