Team: IC22062

Creating a safe campus for scooter riders and Pedestrian

Initial Analysis

An initial analysis of the sidewalk and veo data for September and November, showed a concentration of infractions happening around the campus area. Those around Stamp Union and The Mckeldin Mall were deemed as creating a high risk for accidents. But those around Tawes Plaza had the highest infractions occurring for the month of September while in November there was a higher density of infractions near Hornbake Plaza, Stamp Union and the "M" circle.

Possible Solutions (need further Analysis)

With further analysis around the most cluttered areas of infractions we could suggest optimal VEO routes to help avoid any pedestrian accidents. By examining the density areas of infractions we can give a better analysis on where to build bike lanes or incorporate GEO fencing around the top dense-traffic areas. Tawes Plaza, "M" circle and most importantly Stamp Union are the most important places to discourage e scooter riders from using sidewalks. We could also elevate the sidewalks where we see high frequency of travel for the e-scooters.

Conclusion

Our main aim is to keep student safety as our highest priority while not discouraging the e-scooter riders who have few alternative routes to their destinations as they are reducing the carbon emissions on campus. We hope to create a win-win situation for all: bike lanes built where needed and e-scooters avoiding sidewalks where necessary.