

Sharing is caring: exploration of social interaction between e-scooter riders and cyclists on a bicycle lane.

Recent popularisation of electric scooters brought about changes to the use of cycling lanes, as a primary location where the e-scooter users are found. Previous research classifies them as additional users of cycling infrastructure, that subsequently puts pressure on current allocation of road space (Laa & Leth, 2020). It is, therefore, interesting to explore the dynamics of interaction between cyclists and e-scooter riders to be in a better position to address the potentially competitive relationship between these two groups. For example, the feelings of intrusion and inappropriate closeness have been linked to conflict on shared paths. The findings of this research will help understanding the behaviour of e-scooter riders while interacting with cyclists to potentially encourage higher adoption of active travel modes. This thesis will use scenarios simulated in virtual reality to understand these mechanisms.

It will require analysis of VR output and eye-tracking data using R programming language, therefore previous knowledge of R software is essential. Moreover, there is a potential to conduct discrete choice analysis, hence it is beneficial although not mandatory.

Laa, B., & Leth, U. (2020). Survey of E-scooter users in Vienna: Who they are and how they ride. *Journal of transport geography*, 89, 102874.

Supervisors: Prof. Yusak Susilo and Dr. Martyna Bogacz