

Review of how effective the interventions of UNECE 151, 158, and 159 have been/will be in terms reducing accidents

Points to consider

1. Unlikely to have any impact on accident statistics for a few years to determine a downward trend in accidents (if such a trend exists)
2. Therefore we may take a more qualitative approach
 - a. Survey/interview vehicle operators and drivers of vehicles which meet UNECE 151, 158 and 159
 - b. Survey/interview vehicle operators and drivers of vehicles which meet TfL Progressive safer system
 - i. We have been working with 10 providers of PSS systems which means that we could access hundreds of customers

Potential review of detection ranges for 151 and 159

Points to consider

1. There is some concern about the none detection areas for UNECE 151 and UNECE 159 to the front and side of the vehicle
2. The main concern for VRU safety arises with UNECE 159, MOIS
 - a. Here the none detection area in the regulation is 800mm directly in front of the vehicle.
 - b. One or two pedestrians (line abreast) could be hidden in this area of none detection
 - c. It is understood that this none detection area has been specified in line with the requirements for RADAR systems which must be mounted within the radiator grille structure
 - d. The real world impact of this technology is unclear
 - i. For example, it may be that the none detection zone is actually partially covered by the RADAR system but the front corners of the cab are not visible to the RADAR system to due to specification or shrouding by the radiator grille structure.
 - ii. It may be that no detection is possible in the none detection zone
3. Potential approach
 - a. Confidential survey of manufactures regarding the actual none detection zone in front of the vehicle in order to be better informed about the current situation
 - b. Potential to look at the application of other technologies that has been evident in the TfL PSS, including AI camera systems
 - c. This could tie into the proposed survey of TfL PSS users, mentioned above where questions can be asked about the effectiveness of AI camera systems, e.g. detection at night, when the user is holding objects which break up the shape being detected (e.g. an umbrella).