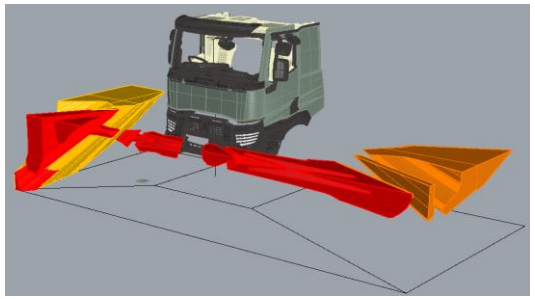
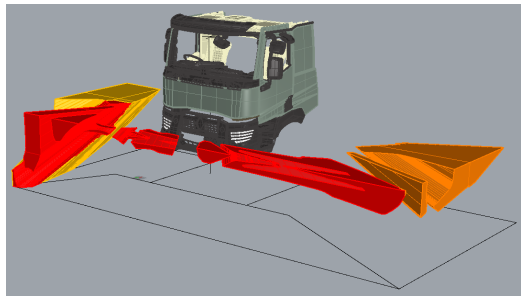
Tech Neutrality– progress update

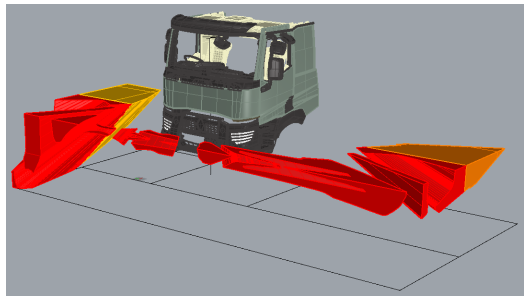
UNECE VRU PROXI 22nd session

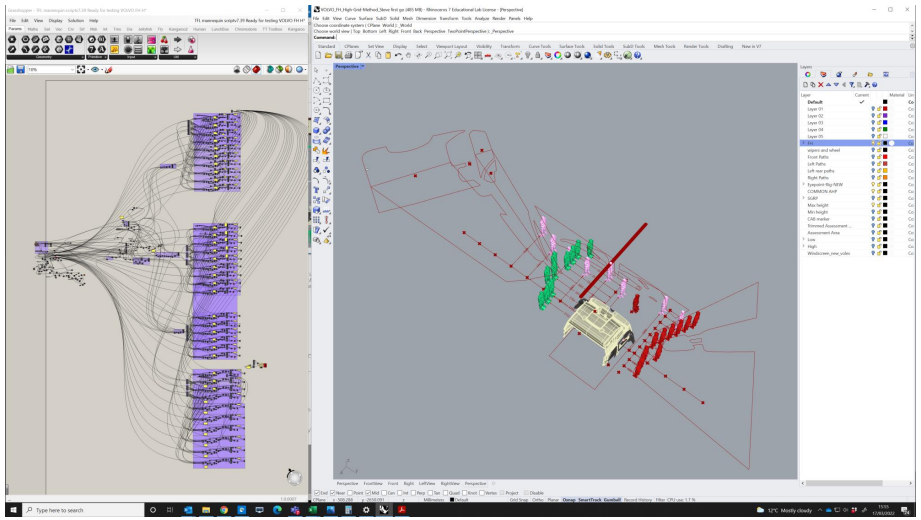
Dr Steve Summerskill

Funded by the Road safety Trust



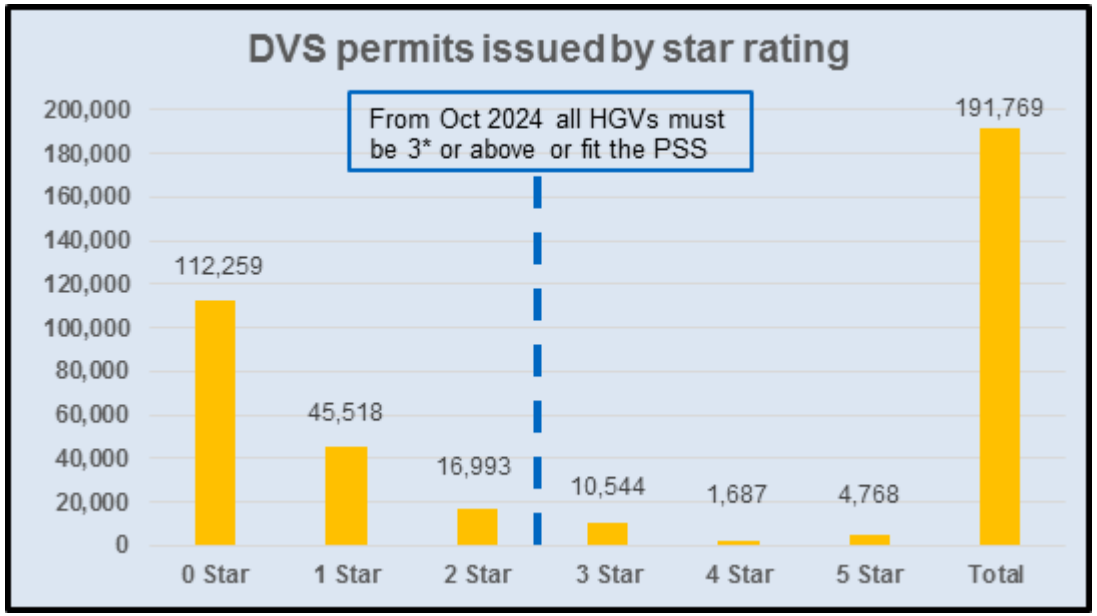






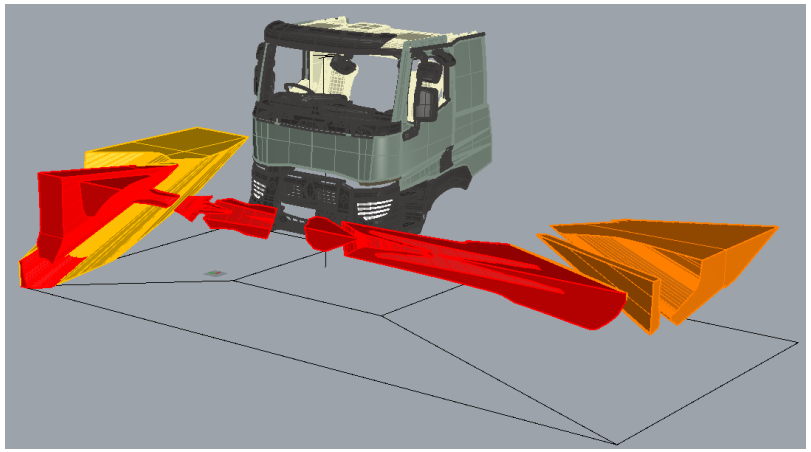
Data from TfL on star rating of vehicles entering London

- Data from TfL shows the registrations for the TfL DVS by star rating
- 1 star in TfL = 10.4m^3
- Level 1 boundary for UNECE version = 11.4m^3
- 112,259 vehicles are rated zero star out of 191,769
- Therefore in London at least 59% of vehicles entering London are UNECE level 2 or 3
- We think that for London, this validates the approach taken in the UNECE DVS
  - Separated approach with minimum 1m^3 visible to the front for Level 1, 2 and 3

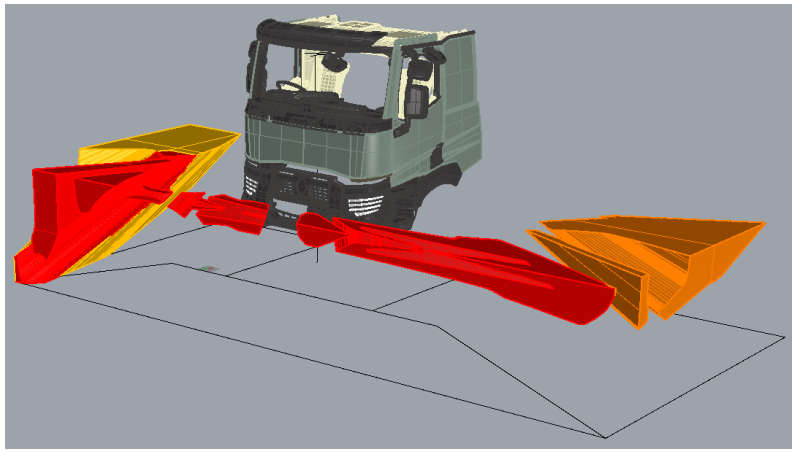


Progress in the tech neutrality work

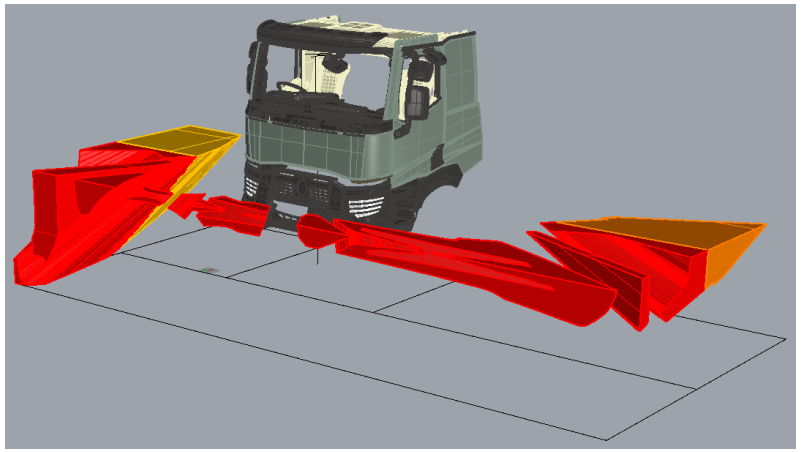
- We have tested 15 vehicles with the options that were defined through meetings with ACEA
- Therefore 45 sets of data ready for correlation with the VRU distance



LDS option 1

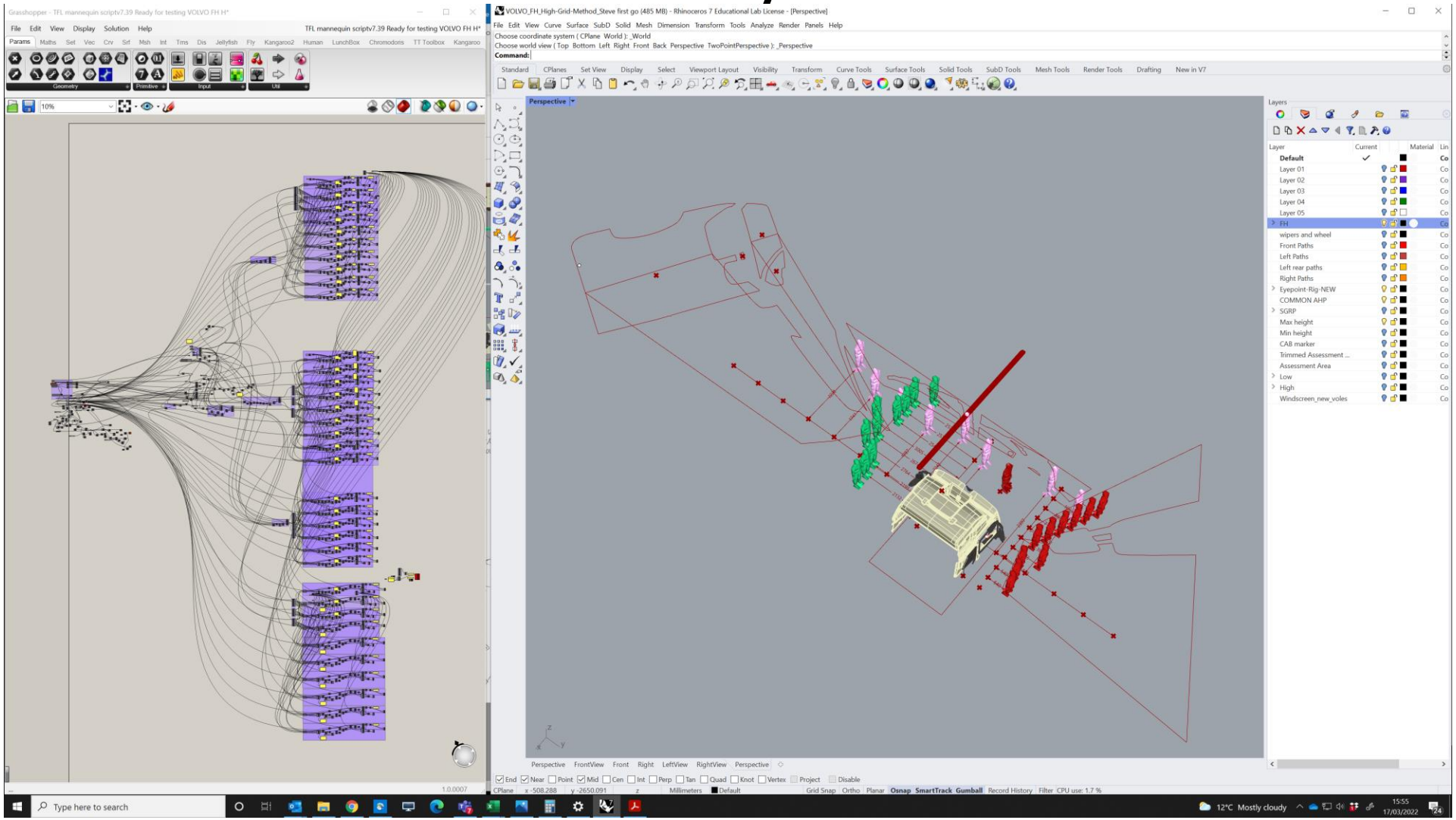


LDS option 2



ACEA option

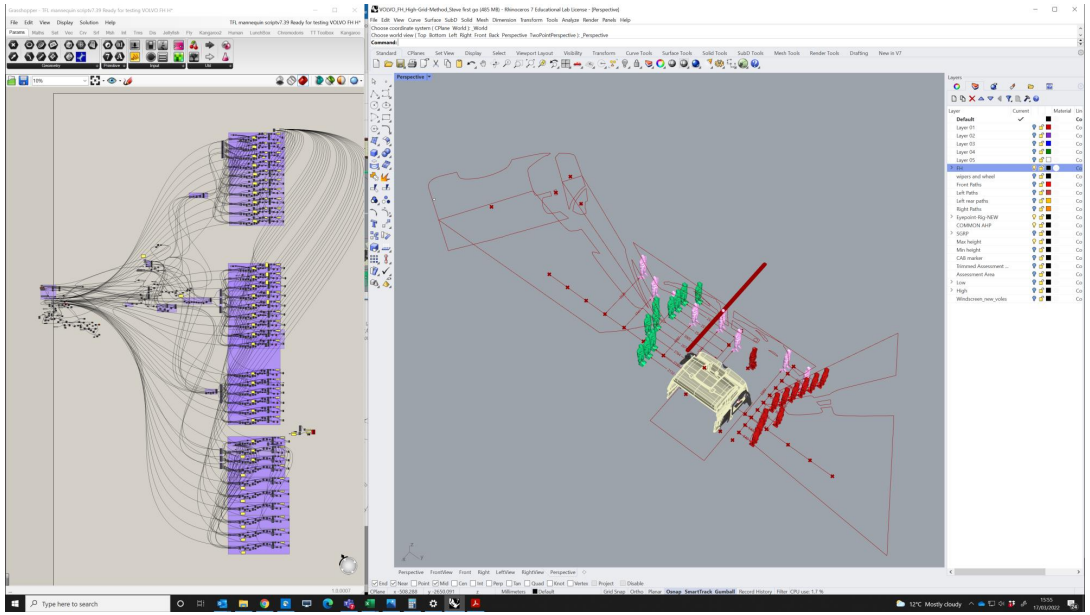
Progress in the tech neutrality work



- Work to automate the VRU distance calculations has been extensive. It is now working and we will have results for the first correlation exercise next week.

Progress in the tech neutrality work

- The automation that has been designed by Dr Abby Paterson will speed up the analysis of VRU Distance considerably
- We have increased the number of VRUs as a result of the speed increase provided by the automation
- This also allows us to vary the number of VRUs that are used for the correlation with volume score



Next steps

- Complete the VRU distances for the first 15 trucks
- Correlate the new volume scores with the new VRU distances
  - Potential to analysis different numbers of VRUs
  - We can now dynamically vary the number of VRUs to each side with ease
- Report results from first analysis to task force
- Discuss potential changes required and define a version for a full run of the sample of 56 vehicles in the sample