

### **Session 9: urbanEXODUS Demonstration, wildfire, pedestrian and vehicle interaction**

When planning for urban scale evacuations, such as a wildfire or flood, the strategy will be influenced by the interaction between the pedestrian and vehicle evacuation, as well as that of the hazard, however, to date, there is no software tool that has successfully integrated these three components into a single unified tool.

This presentation will look at the ongoing work to integrate two well established engineering simulation tools, namely, urbanEXODUS for pedestrian modelling, based on the well validated EXODUS software, and the SUMO vehicle model. The presentation will outline how this integrated software tool can evaluate the impact of the wildfire or flood data on the evacuation. This will be demonstrated by examining a number of different scenarios, based on various urban and rural locations.