

Monika Zamojska

Station Capacity Planner



Bio

Monika is a Station Capacity Planner at Network Rail. Before joining the transport planning industry, she worked in the cycling and public sectors, specialising in marketing and community outreach programmes. She joined the NR's Passenger and Station Analysis Team in 2019 after graduating from the University of Westminster with an MSc in Transport Planning and Management. Monika's areas of expertise are pedestrian modelling, GIS analysis and data storytelling. She has worked on several station schemes, has experience in static and dynamic capacity analysis, and has been involved in work on the latest version of the Station Capacity Planning Guidance. Monika has worked on MLSAT from the early stages of the project.

Presentation

Mesoscopic station assessment using PTV Visum

This session will provide an introduction to the Mid-Level Analysis Tool (MLSAT) – an innovative approach to pedestrian modelling tool developed by Network Rail and PTV. Spreadsheet-based analysis can provide a high-level overview of capacity requirements within stations. However, only pedestrian microsimulation could provide the required level of detail of congested parts of the station and interaction between different parts of the station. MLSAT provides a mesoscopic modelling approach embedded in PTV Visum to bridge the gap in the pedestrian modelling toolkit.

The session will draw on experience gained through the use of MLSAT in the latest update of the Station Capacity Priority List Update. The List is maintained and updated annually by Network Rail's Passenger and Station Analysis Team and helps identify stations likely to require intervention in the short or medium term. MLSAT was used to conduct high-level analysis of several small and medium-complexity stations across the network. The objective was to understand what if any, spare capacity is available and how much resilience against demand growth stations have.

