

Speaker Profile

James Russell

Lead Transport Modeller

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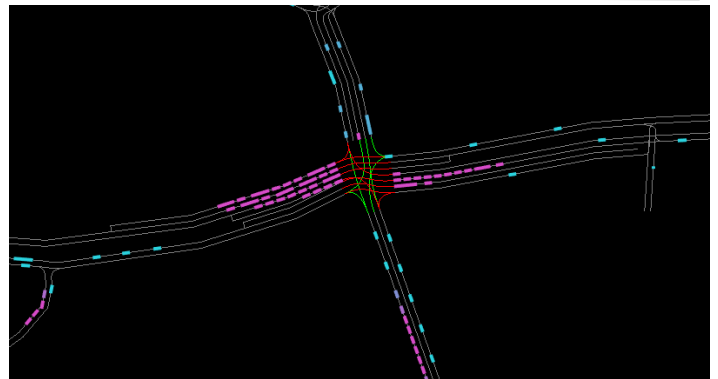


James is a senior transport modeller with seven years experience covering strategic modelling, mesoscopic modelling, and microsimulation. Since joining Mott MacDonald in Birmingham he has worked on a wide variety of projects including extensive involvement on the development of PRISM, the strategic multi-modal transport model for the West Midlands. More recently he has been involved with the development of mesoscopic models in Visum using a multi-tiered approach, bridging the gap between macro and micro models.

What to expect...

Many localities require a suite of models for different areas and at different levels of detail, but it is often difficult to ensure consistency between the models. In addition, effort is needed to ensure all of these models are kept up to date.

Mott MacDonald were commissioned to create a mesoscopic model of Southend using simulation based dynamic-assignment (SBA) in PTV Visum, to compliment an existing suite of Vissim models for the area. The mesoscopic model was developed from a strategic model and can be used as a standalone model which enables a large number of scheme options to be tested more quickly than in Vissim. It also provides a way for the Vissim models to be updated with demand from a single consistent source.



This presentation gives an overview of the process used to develop the mesoscopic model, the transfer of demand from the meso model to the micro model, and the benefits of this approach compared to traditional modelling techniques.

