Luis Perez Echevarria

Lead Transport Modeller

Michael Oliver

Technical Director

Bio

Luis

I have been involved in the traffic and transportation industry for the past 15 years. My background is Civil Engineering with a MA in Applied Statistics. Since joining TfL in 2016 I've worked extensively with the ONE Model (Operation Network Evaluator) in model development and in numerous strategy and policy related schemes/projects.

Michael

Michael leads the technical services team at PTV UK. He has worked for PTV since 2015, initially as the Global Business Development Manager for PTV Visum, before joining the UK team in 2019. Before PTV, Mike worked for 7 years at Mott MacDonald as a strategic transport modeller gaining a deep knowledge of highway assignment, public transport assignment, disaggregated demand modelling and appraisal. At PTV, Michael has worked on a variety of projects across the UK and internationally including in the areas of real-time and activity-based modelling.

Presentation

Robust evidence-based assessments of ULEZ

Transport for London (TfL) is the integrated body responsible for London's transport system. Its Operational Network Evaluator (ONE) is a tactical highway traffic assignment model, used to assess the impact of schemes in the Greater London area, and to evaluate mitigation strategies.

It is important for the ONE model to be able to represent the transport network and policies of London in the present and near future. In particular, the ONE model must be able to represent area-based charging schemes such as the Congestion Charging Zone and Ultra-Low Emission Zone (ULEZ).

One of the challenges for representing area-based schemes within highway assignment models is the complexity of there being a single charge for multiple entry and having multiple and overlapping charging zones.

This year, TfL commissioned PTV to extend the 'restricted traffic area' functionality of PTV Visum to explicitly deal with these complexities. In this presentation TfL, with the help of PTV, will explain why, how, and what these extensions will be. This functionality will be available within the general release of PTV Visum 2024 as part of a service pack update, and therefore has relevance to all users of PTV Visum software.

TfL will also take the opportunity to provide a short update on the newly published Model Audit Process (MAP).