Introduction to microscopic Traffic Flow Simulation

**SHORT DESCRIPTION**
In our introductory day for network modelling with PTV Vissim, you will learn the basic functionality of PTV Vissim. At the end of the day you will be able to independently build small network models and perform initial evaluations. This is the ideal basis for the course held on the next day which relates to traffic studies with PTV Vissim. On this day you or your staff will learn how to conduct high quality and efficient traffic studies using the microscopic simulation software PTV Vissim. The focus of this course is the calibration and evaluation of urban and rural models.

**TARGET GROUP**
PTV Vissim beginners as well as traffic engineers from cities and engineering firms that want to work on their projects at state of the art level and efficiency.

**PREREQUISITES**
No prerequisites

**DURATION:** 2 days

**CONTENTS**

**Day 1:**
- Objectives and tasks of microscopic simulations
- Modelling of the transport supply side on the open road and at intersections (priority rules and signal control)
- Modelling of the traffic demand with input flows and routes
- Overview of public transport line modelling

**Day 2:**
- Tasks involved in traffic studies with microscopic simulation
- Required input data for supply and demand modelling
- What empirical data can be used for calibration?
- Which PTV Vissim parameters are best suited for calibration?
- Which evaluations are useful and can be performed efficiently?