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Title: Simulating active modes with Hermes

Abstract:

At the City Modelling Lab we build large agent-based transport models to help our clients make policy decisions. Increasingly, our clients want to simulate changes to encourage active travel. We use the Hermes mobsim in MATSim due to the scale of our models. Hermes is a fast alternative to QSim and provides a lot of the core functionality. We have found a number of issues with simulating active modes with Hermes and managed to address some of them.

In this talk we will present our experience in using Hermes for simulating walking and cycling, using a model of Sheffield, situated in northern England. We will talk about using two MATSim modules available for simulating walking and/or cycling (Multimodal and Bicycle contribs), and what was needed to make them work with the Hermes mobsim. We will also discuss the impact of including routed, age, gender and slope-dependent speeds on the results of the simulation as well as iteration speed.