

Microsimulation Traffic Modelling in Asia

MVA Traffic Modelling Services

MVA offers specialist expertise in microscopic traffic modelling, ranging from assessment of road network design layout & optimization schemes, through to 3D visualisation of proposed traffic schemes that accompany traffic studies and impact assessments. Types of services offered include :

- ▶ Freeway / Motorway & arterial corridor studies
- ▶ Sub-area planning studies
- ▶ Local and district road network planning
- ▶ Traffic impact assessment
- ▶ Light rail / bus rapid transit studies
- ▶ Toll Plaza evaluation
- ▶ Parking studies
- ▶ Support of Transit centre / bus station design
- ▶ Intelligent Transport Systems (ITS) assessment
- ▶ Environmental Impact Studies
- ▶ Traffic Calming Schemes
- ▶ PT priority schemes
- ▶ Signal Optimisation

MVA regularly uses simulation modelling packages such as VISSIM, PARAMICS, DYNASIM, TRANSYT and aaSIDRA, as required for particular circumstances, or to suit individual client needs.

Recent Experience on Traffic Modelling Studies

Singapore

- ▶ Changi Airport Terminal 1 - A VISSIM model was used to evaluate design schemes and is part of a traffic study to assess airport terminal curbside drop-off area, taxi stand and car parks.
- ▶ ITE College - A VISSIM model was used to demonstrate the impact of the proposed college on the surrounding road network.
- ▶ One North - A VISSIM model was developed as part of planning & design for a retail and theatre development.
- ▶ Anglo Chinese School -

Evaluation of different parking schemes

- ▶ Singapore Sports Hub - A complex VISSIM model was developed of the proposed Sports Hub with stadium capacity of 65,000 people to assess external and internal traffic operations including on-site parking schemes.

India

Delhi and Kolkata International Convention Centre - Visualisation and evaluation of proposed road network schemes

- ▶ Marine Lines, Mumbai - A 3D animation that visualises a proposed intersection design to provide access to the proposed India Tower (Park Hyatt Hotel).

Pakistan

- ▶ Lahore, Faletti; and
- ▶ Lahore, Mabarak Commercial Centre

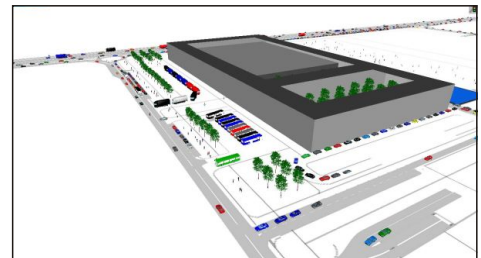
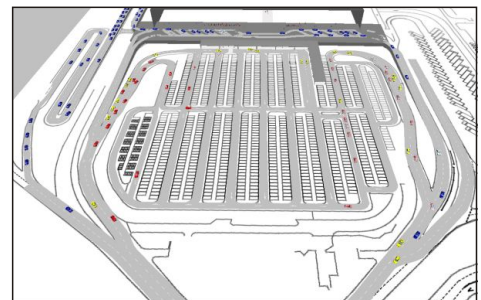
VISSIM models that visualise proposed road network and access designs as part of traffic impact studies.

Thailand

- ▶ Don Mueang Tollway - A microsimulation model was developed to analyse the interaction between toll road and parallel traffic on the non-tolled facility.
- ▶ IMPACT - A model was developed to assess traffic around this major convention centre.

Sri Lanka

Havelock City - A was developed to evaluate road layout proposals adjacent to a proposed retail and commercial complex.



Note :
The above are indicative only.

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